

city of claremont

COLBY CIRCLE STORM DRAIN IMPROVEMENT PLANS

FOOTHILL BOULEVARD TO 388' EAST OF OXFORD AVENUE

GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE CITY OF CLAREMONT STANDARD DRAWINGS SUPPLEMENTED WITH LATEST EDITION OF THE STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPPWC, ALSO COMMONLY REFERRED TO AS "GREENBOOK" OR "APWA STANDARD") AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
- ELEVATIONS SHOWN HEREON ARE IN FEET ABOVE THE U.S.G.S. DATUM.
- CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT 811 AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL ADHERE TO ADA REQUIREMENT/GUIDELINES AND MAINTAIN A CLEAR PATH OF TRAVEL FOR PEDESTRIANS AT ALL TIMES DURING CONSTRUCTION.
- ALL P.C.C. DRIVEWAYS SHALL HAVE A DESIGN STRENGTH OF 2500 PSI AT 24 HOURS. FINAL DESIGN STRENGTH IS INDICATED ON THE PLANS AND IN THE SPECIAL PROVISIONS.
- CONTRACTOR SHALL MAINTAIN STREET LIGHTING AT ALL TIMES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL REPAIR ANY BROKEN OR DAMAGED CURB, GUTTER, SIDEWALK, AND PAVEMENT DUE TO CONSTRUCTION OF THIS PROJECT, INCLUDING BUT NOT LIMITED TO ALL EXISTING PUBLIC IMPROVEMENTS OR INFRASTRUCTURE WITHIN PUBLIC RIGHT OF WAY.
- CONTRACTOR MUST MAINTAIN ALL TRAFFIC SIGNS IN ERECT POSITIONS. ALL EXISTING SIGNS AND POSTS LOCATED WITHIN THE PUBLIC RIGHT OF WAY THAT INTERFERE WITH PROPOSED WORK SHALL BE REMOVED PRIOR TO WORK COMMENCING AND REPLACED IN KIND ONCE WORK HAS BEEN COMPLETED, UNLESS OTHERWISE STATED ON THE SIGNING & STRIPING PLANS FOR THIS PROJECT.
- THE CONTRACTOR SHALL POTHOLE AT HIS/HER EXPENSE AND FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES AND ALL POINTS OF CONNECTION FOR ALL UTILITIES PRIOR TO INSTALLATION OF PROPOSED UTILITY LINES. THE CONTRACTOR SHALL POTHOLE EXISTING SUBSURFACE INSTALLATION CARRYING UNSTABLE SUBSTANCES OR OTHER SUBSURFACE INSTALLATIONS AS INDICATED ON THESE PLANS AND DETERMINE THEIR LOCATIONS AND ELEVATIONS PRIOR TO COMMENCING EXCAVATION.
- STEEL PLATES, WHEN EXPECTED TO BE INSTALLED FOR MORE THAN 24 HOURS, SHALL BE INSTALLED FLUSH WITH EXISTING PAVEMENT.
- SANITARY SEWER, STORM DRAIN, WATER VAULT AND WATER MANHOLE FRAME AND COVER SETS SHALL BE ADJUSTED TO THE NEW FINISHED SURFACE GRADE BY THE CONTRACTOR. THE USE OF CASE IRON RAISING RINGS WILL NOT BE ACCEPTED.
- NO LONGER THAN 48 HOURS SHALL ELAPSE BETWEEN THE TIME A MANHOLE IS DUG OUT FROM THE NEWLY LAID ASPHALT AND THE TIME THAT THE FINISHED SURFACE OF ASPHALT IS PLACED AROUND THE FRAME SET TO FIT THE NEW STREET SECTION.
- PREFORMED EXPANSION JOINTS 1/4" THICK SHALL BE PLACED IN CONCRETE CURB, GUTTER AND SIDEWALK AT THE BEGINNING AND END OF ALL CURVES, AT THE TOP OF "X" OF DRIVEWAYS AND CURB RAMPS AND AT UNIFORM INTERVALS NOT TO EXCEED 25 FEET.
- PLANTED AREAS ADJACENT TO THE PROPOSED WORK WHICH ARE DISTURBED BY THE CONTRACTOR SHALL BE PLANTED WITH SOD, GROUND COVER, OR MATERIAL IN KIND TO MATCH EXISTING.
- EXISTING UTILITIES SHALL BE PROTECTED AND MAINTAINED IN PLACE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED IN PLANS.
- PRIOR TO POURING CONCRETE ADJACENT TO CURB, THE CURB FACE SHALL BE PREPARED BY REMOVING CONCRETE REMNANTS AT FLOW LINE, DIRT AND ASPHALT, TO ENSURE GOOD CONTACT WITH EXISTING CONCRETE.
- UNDERGROUND UTILITIES ARE SHOWN SCHEMATICALLY ON THE PLANS. THE CONTRACTOR SHALL OBTAIN FROM THE RESPECTIVE OWNERS THE EXACT LOCATION OF THESE UTILITIES PRIOR TO ANY EXCAVATION WORK. THE CONTRACTOR SHALL ALSO NOTE THAT FIELD MARKINGS MADE BY VARIOUS UTILITIES USING UNDERGROUND SERVICE ALERT (USA) SHALL BE CONSIDERED AS IDENTIFIED UTILITIES EVEN WHEN THEY ARE NOT SHOWN ON THE PLANS.
- CONTRACTOR SHALL NOTIFY RESIDENTIAL PROPERTY OWNERS 72 HOURS AND BUSINESS ESTABLISHMENTS 96 HOURS PRIOR TO ANY CLOSURE OF THEIR EXISTING DRIVEWAYS AND PRIMARY PROPERTY ACCESS, AND SHALL PROVIDE PROOF OF CONTACT TO THE PROJECT MANAGER PRIOR TO THE START OF THIS WORK/CLOSURE.
- ALL CONCRETE REMOVALS SHALL BE MADE TO A SAW CUT LINE PER STANDARD SPECIFICATIONS.
- ASPHALT CONCRETE PAVEMENT SHALL BE CONSTRUCTED JOINING GUTTER. ASPHALT CONCRETE PAVEMENT SHALL BE FLUSH WITH GUTTER.
- THE COMPLETED ROADWAY PAVEMENT SHALL BE THOROUGHLY COMPACTED TO BE FREE FROM BUMPS, DEPRESSION, OR IRREGULARITIES. ANY RIDGES, INDENTATIONS OR OTHER OBJECTIONABLE MARKS LEFT ON THE SURFACE OF THE NEW PAVEMENT SHALL BE ELIMINATED BY ROLLER OR OTHER MEANS.
- ALL NEW SIDEWALKS SHALL HAVE WEAKENED PLANE JOINTS OR SCORELINES THAT MATCH EXISTING ADJACENT SIDEWALKS. IN LOCATIONS WHERE THERE ARE NO SIDEWALKS, THE WEAKENED PLANE JOINTS OR SCORELINES SHALL BE CONSTRUCTED AT REGULAR 5-FOOT INTERVALS IN ACCORDANCE WITH SPPWC STANDARD PLANS.
- THE LOCATION(S) FOR NEW SURVEY WELL MONUMENTS WILL BE IDENTIFIED IN THE FIELD BY THE ENGINEER.
- CONTRACTOR SHALL TRANSITION GUTTER 10' PRIOR TO CLASS IV BIKEWAY MEDIANS FROM TYPE A2-8 TO TYPE A2-8 MODIFIED PER DETAIL "G" ON SHEET RD-100.
- CONTRACTOR SHALL TRANSITION MEDIAN GUTTERS ON WEST END TO ALLOW FOR SHEET FLOW TO SIDE STREETS. SEE PLANS FOR DETAILS.
- CONTRACTOR SHALL COORDINATE WITH S.C.E. SERVICE PLANNER DAVID S. BUTLER AT (909) 257-1091 FOR ALL POWER POLE GUY WIRE MODIFICATIONS/RELOCATIONS DUE TO PROPOSED IMPROVEMENTS.
- CONTRACTOR SHALL TRACK ALL CHANGES TO THE ORIGINAL BID SET AND PROVIDE A COMPLETE AS-BUILT SET TO THE CITY AT THE COMPLETION OF THE PROJECT.

UTILITY CONTACTS

SEWER & STORM DRAIN:

CITY OF CLAREMONT
CONTACT: VINCENT RAMOS
PH: (909) 399-5465

TELEPHONE / COMMUNICATIONS:

FRONTIER COMMUNICATIONS
CONTACT: MARIO ORLINO/
KRISTINA DIMON
PH: (909) 469-6336

TIME WARNER CABLE/ SPECTRUM
CONTACT: ERIK SANTANA
PH: (626) 639-1621

ELECTRICAL:

SOUTHERN CALIFORNIA EDISON
CONTACT: JOSEPH MOTTOLA
PH: (909) 394-2832

GAS:

SOUTHERN CALIFORNIA GAS COMPANY
CONTACT: GARY AMBERS
PH: (909) 335-7955

WATER:

GOLDEN STATE WATER COMPANY
CONTACT: MIKE FRYER
PH: (909) 399-4045

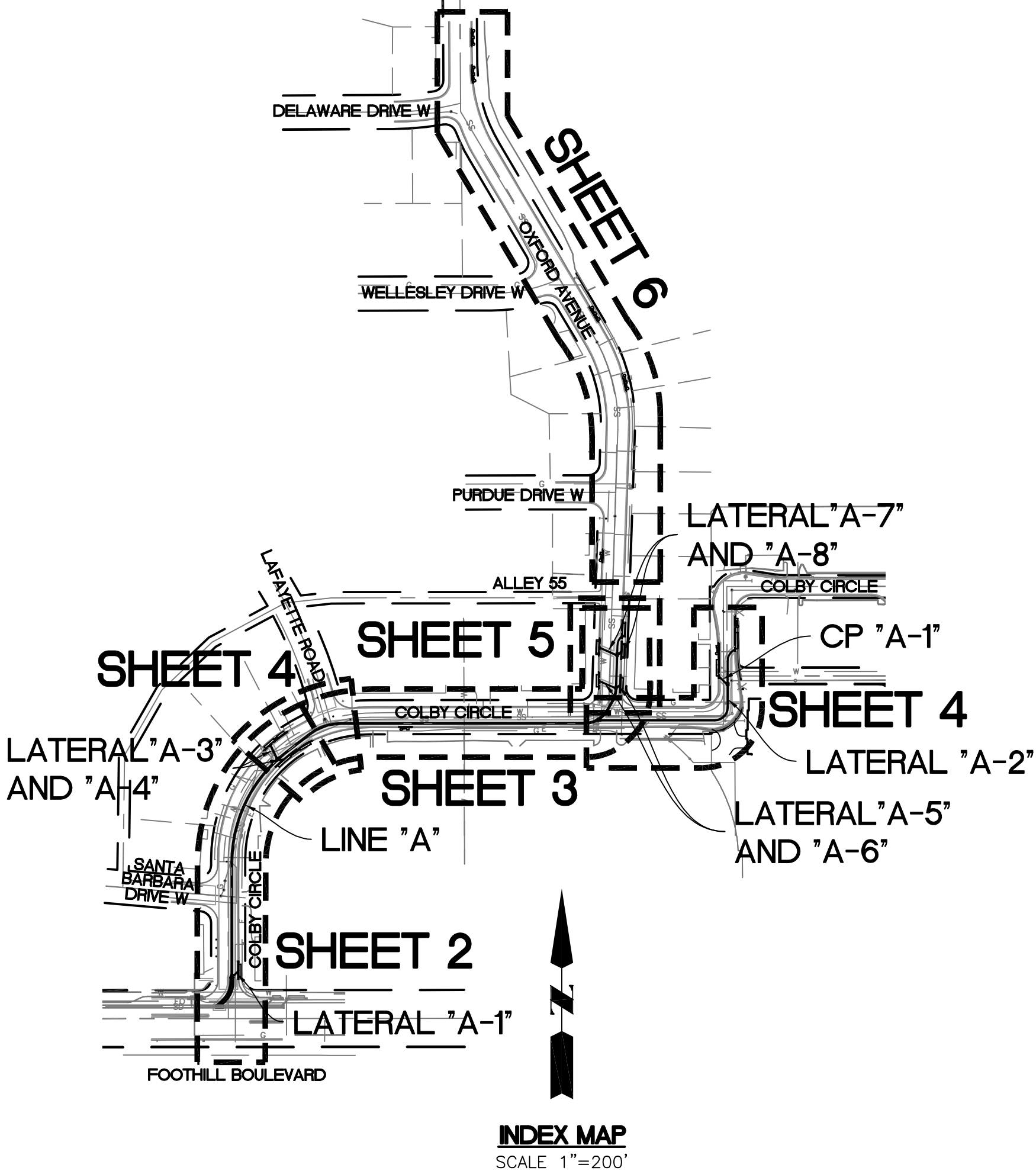
ENGINEER'S NOTICE TO CONTRACTORS

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND OR OVERHEAD UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE APPROXIMATE. THE ENGINEER ASSUMES NO LIABILITY AS TO THE EXACT LOCATION OF SAID LINES NOR FOR UTILITIES OR IRRIGATION LINES WHOSE LOCATION ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY AND IRRIGATION COMPANIES PRIOR TO WORK TO ACCURATELY IDENTIFY THESE LOCATIONS, WHETHER OR NOT SHOWN HEREON, AND IS RESPONSIBLE FOR ANY DAMAGE OR PROTECTION OF THESE LINES. PHASED UTILITY RELOCATIONS MAY BE NECESSARY AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CLOSELY COORDINATE HIS ACTIVITIES WITH THOSE OF ALL UTILITY COMPANIES. THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (U.S.A.) PHONE 811 OR 800-422-4133 TWO (2) WORKING DAYS PRIOR TO DIGGING. NO CONSTRUCTION PERMIT ISSUED BY PUBLIC WORKS DEPARTMENT SHALL BE VALID INVOLVING UNDERGROUND FACILITIES UNLESS THE APPLICANT HAS AN INQUIRY IDENTIFICATION NUMBER ISSUED BY U.S.A. THE ESTIMATED QUANTITY FOR EACH SPECIFIC ITEM OF THE WORK DESIGNATED ON THE PLANS SHALL BE CONSIDERED AS APPROXIMATE ONLY AND NO GUARANTEE IS MADE THAT THE QUANTITIES WHICH CAN BE DETERMINED BY COMPUTATIONS, BASED ON THE DETAILS AND DIMENSIONS SHOWN ON THE PLANS, WILL EQUAL THE ESTIMATED QUANTITIES. THE ESTIMATE OF QUANTITIES IS PROVIDED BY THE ENGINEER ONLY FOR THE CONVENIENCE OF THE OWNER. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION AND BE RESPONSIBLE FOR HIS OWN CONSTRUCTION QUANTITIES BEFORE SUBMITTING A BID. ANY ITEM OF WORK, OR PORTION THEREOF, REQUIRED BY THESE PLANS WHICH IS NOT SPECIFICALLY LISTED IN THE ESTIMATE OF QUANTITIES SHALL BE CONSIDERED AS INCLUDED IN THE OTHER ITEMS OF WORK.

STORM DRAIN NOTES (SEE SHEET 7)

LEGEND

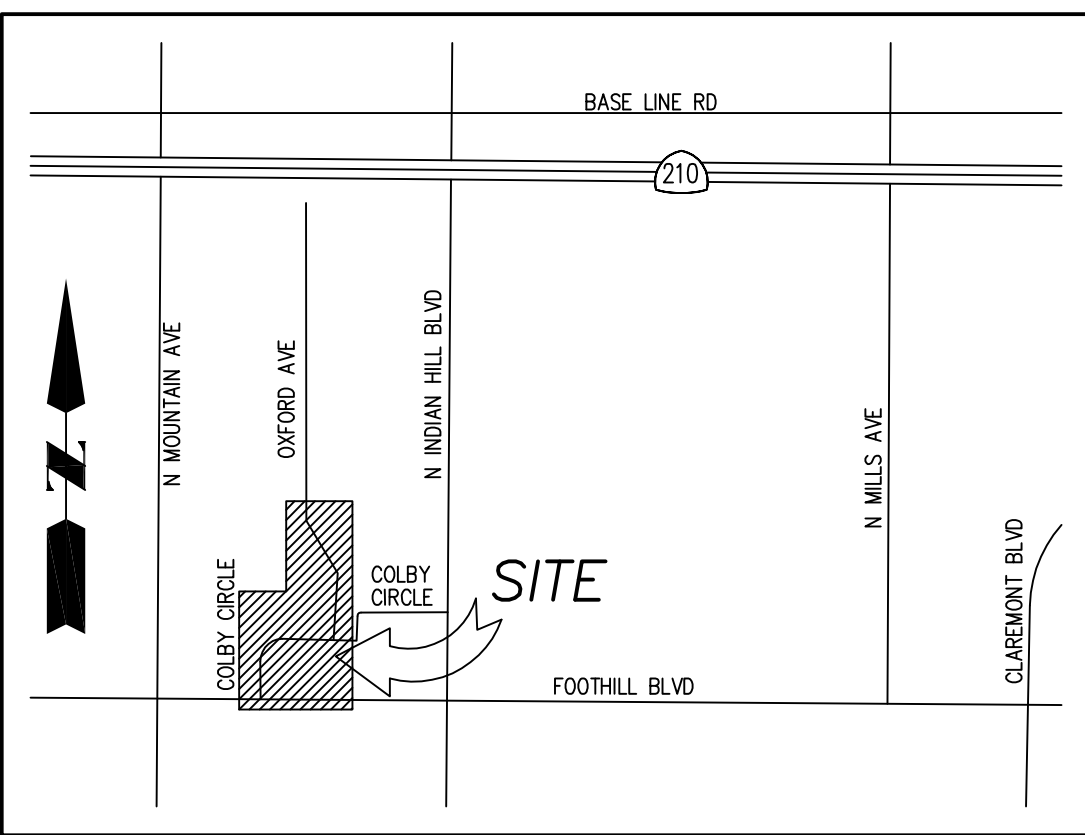
	INDICATES TRENCHING BACKFILL AND A.C. PAVEMENT REPAIR
	REMOVE AND REPLACE EXISTING CROSS GUTTER
	INDICATES STORM DRAIN LINE
	INDICATES STREET CENTERLINE
	INDICATES CURB LINE
	INDICATES PROPERTY LINE
	INDICATES EXISTING R/W
	INDICATES EXISTING SEWER
	INDICATES EXISTING WATER
	INDICATES EXISTING GAS
	INDICATES EXISTING TELEPHONE
	INDICATES EXISTING ELECTRIC
	INDICATES EXISTING FIBER OPTIC
	BOTTOM
	CENTERLINE
	DRIVEWAY
	TOP OF CURB
	FLOW LINE
	FINISH SURFACE
	INVERT
	HEADWALL
	SIDEWALK
	EASEMENT
	RIGHT OF WAY
	GRADE BREAK
	HIGH POINT
	EXISTING
	PROPOSED
	LATERAL
	MANHOLE
	STORM DRAIN



CONSTRUCTION NOTES

- CONSTRUCT 18" RCP STORM DRAIN (CLASS IV). 230 L.F.
- CONSTRUCT 24" RCP STORM DRAIN (D-LOAD=1350). 470 L.F.
- CONSTRUCT 36" RCP STORM DRAIN (D-LOAD=1350). 1,040 L.F.
- INSTALL CATCH BASIN SCREEN FILTER PER DETAIL ON SHEET 7 AND 8. 20 EA.
- CONSTRUCT MANHOLE PER S.P.P.W.C. STD. PLAN 322-3. 5 EA.
- CONSTRUCT CURB OPENING CATCH BASIN PER S.P.P.W.C. STD. PLAN 300-4. 20 EA.
- CONSTRUCT LOCAL DEPRESSION (MODIFIED) PER DETAIL ON SHEET 8. 20 EA.
- CONSTRUCT TRANSITION STRUCTURE PER S.P.P.W.C. STD. PLAN 340-2. 1 EA.
- CONSTRUCT MONOLITHIC CATCH BASIN CONNECTION PER S.P.P.W.C. STD. PLAN 308-3. 9 EA.
- CONSTRUCT MANHOLE PER S.P.P.W.C. STD. PLAN 321-2. 1 EA.
- TRENCHING BACKFILL AND A.C. PAVEMENT REPAIR PER CITY OF CLAREMONT STD. PLAN 1028. 19,403 S.F.
- CONSTRUCT CONCRETE COLLAR PER S.P.P.W.C. STD. PLAN 380-4. 4 EA.
- RELOCATE EXIST. STREET LIGHT ELECTRIC LINE. REMOVE AND REPLACE CONDUCTORS TO ADJACENT STREET LIGHT AND/OR PULL BOX. NO SPLICING MID-SPAN. 28 L.F.
- RELOCATION OF EXIST. 2" GAS LINE BY OTHERS. COORDINATE WITH ROBERT FIGUEROA AT SOUTHERN CALIFORNIA EDISON AT 909-335-7755. 194 L.F.
- INSTALL 8" PVC PIPE SCHEDULE 80. 100 L.F.
- CONSTRUCT 4" DRYWELL (MODIFIED) PER DETAIL ON SHEET 6. 12 EA.
- SAWCUT AND REMOVE EXISTING SIDEWALK. 2,567 S.F.
- RECONSTRUCT SIDEWALK PER DETAIL ON SHEET 6. 1,480 S.F.
- REMOVE AND REPLACE CURB AND GUTTER. 122 L.F.
- CONSTRUCT 2' WIDE AC SLOT PATCH. 794 S.F.
- REMOVE AND REPLACE 34 LF OF EXISTING CROSS GUTTER. 34 L.F.

QUANTITY ESTIMATES



VICINITY MAP

NOT TO SCALE

DECLARATION OF DESIGN ENGINEER OF RECORD

I HEREBY DECLARE THAT THE DESIGN OF THE IMPROVEMENTS AS SHOWN ON THESE PLANS COMPLIES WITH PROFESSIONAL ENGINEERING STANDARD AND PRACTICES. AS THE ENGINEER IN RESPONSIBLE CHARGE OF DESIGN OF THESE IMPROVEMENTS, I ASSUME FULL RESPONSIBLE CHARGE FOR SUCH DESIGN. I UNDERSTAND AND ACKNOWLEDGE THAT THE PLAN CHECK OF THESE PLANS BY CITY OF CLAREMONT IS A REVIEW FOR THE LIMITED PURPOSE OF ENSURING THAT THE PLANS COMPLY WITH CITY PROCEDURES, APPLICABLE POLICIES AND ORDINANCES. THE PLAN CHECK IS NOT A DETERMINATION OF THE TECHNICAL ADEQUACY OF THE DESIGN OF THE IMPROVEMENTS. SUCH PLAN CHECK DOES NOT, THEREFORE, RELIEVE ME OF MY RESPONSIBILITY FOR THE DESIGN OF THESE IMPROVEMENTS. AS ENGINEER OF RECORD (E.O.R.), I AGREE TO INDEMNIFY AND HOLD CITY OF CLAREMONT, ITS OFFICERS, AGENTS AND EMPLOYEES HARMLESS FROM ANY AND ALL LIABILITY OF CLAIMS, DAMAGES OR INJURIES TO ANY PERSON OR PROPERTY WHICH MIGHT ARISE FROM THE NEGLIGENT ACTS, ERRORS OR OMISSIONS OF THE ENGINEER OF RECORD. I ALSO HEREBY DECLARE THAT I HAVE COMPARED THESE PLANS WITH ALL APPLICABLE A.D.A. AND TITLE 24 REQUIREMENTS FOR DISABILITY ACCESS FOR THIS PUBLIC PROJECT, AND THESE PLANS ARE IN FULL COMPLIANCE WITH THOSE REQUIREMENTS.

CEAZAR V. AGUILAR

RCE NO. 41679

DATE

INDEX OF SHEETS

SHEET No.(s)	DESCRIPTION
SHEET 1:	TITLE SHEET AND INDEX MAP
SHEET 2:	LINE "A" (10+00.00 TO 15+50.00) AND LATERAL "A-1"
SHEET 3:	LINE "A" (15+50.00 TO 22+11.78)
SHEET 4:	LATERAL "A-2", "A-3", "A-4" & CP "A-1"
SHEET 5:	LATERAL "A-5", "A-6", "A-7" & "A-8"
SHEET 6:	OXFORD AVENUE DRY WELL PLAN AND DETAILS
SHEET 7:	CATCH BASIN SCREEN FILTER DETAIL AND STORM DRAIN NOTES
SHEET 8:	DETAILS AND SECTIONS

UNDERGROUND UTILITIES NOTE

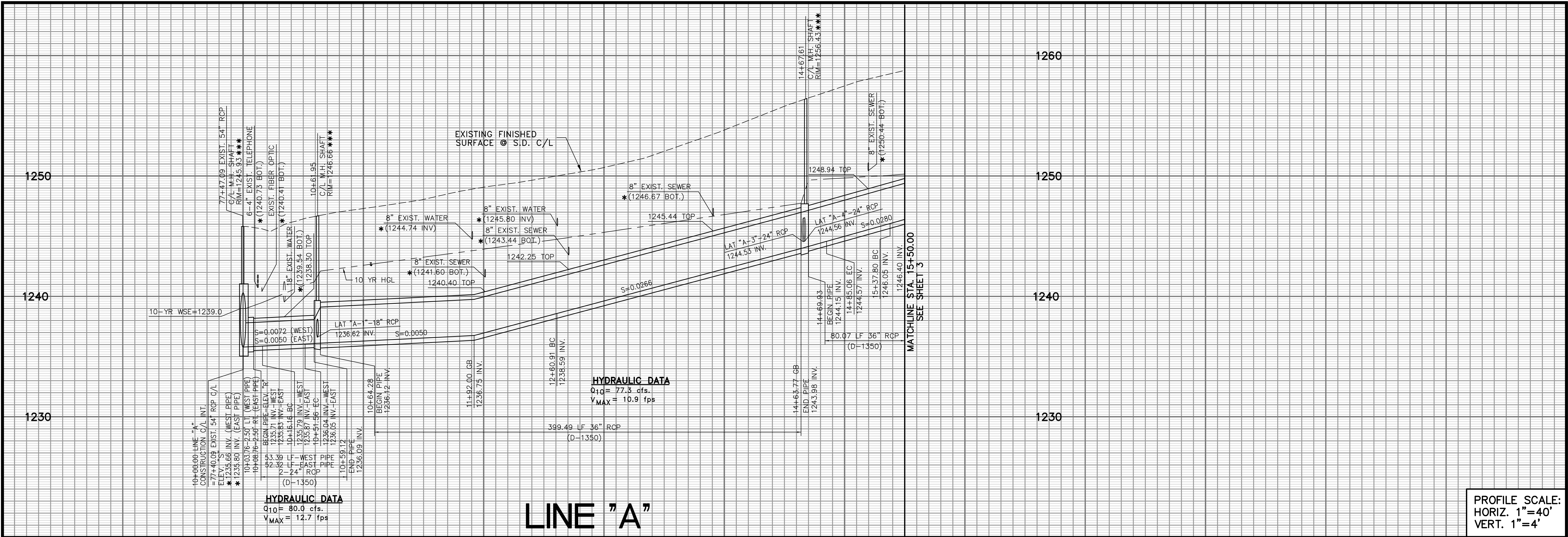
ALL UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY THE OWNER OR OTHERS AND THOSE SHOWN ON THE RECORDS EXAMINED ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. THE OWNER, BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERE TO, AGREES TO ASSUME LIABILITY AND TO HOLD UNDERSIGNED HARMLESS FOR ANY DAMAGES RESULTING FROM EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE UNDERSIGNED, NOT INDICATED OR SHOWN ON THE RECORDS EXAMINED. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES SHOWN AND ANY OTHER UTILITIES OF STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OF STRUCTURES CONCERNED BEFORE STARTING WORK.

city of claremont

COLBY CIRCLE STORM WATER IMPROVEMENT PLANS

TITLE SHEET AND INDEX MAP

SCALE:	N/A	DRAWN BY:	SD 02-2106
DATE:	11/30/2021	CHECKED BY:	
F.B. NO.		RECOMMENDED BY:	
APPROVED:			SHEET 1 OF 8
CITY ENGINEER	R.C.E.	DATE:	



*CAUTION !!
CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING STORM DRAIN AND UTILITIES PRIOR TO START OF CONSTRUCTION. PROTECT IN PLACE ALL EXISTING UTILITIES UNLESS SPECIFIED TO BE REMOVED OR ABANDONED.
***MATCH STORM DRAIN MANHOLE RIM AND TOP OF CATCH BASIN TO EXISTING FS AND TC.

JUNCTION STRUCTURE DESIGN DATA							
STATION	A	B	C	D1	D2	ELEV. "S"	ELEV. "R"
STA. 77+40.09 EXIST. 54" RCP LINE "A"	45'	2-24"	3.08'	54"	54"	1235.66 (W) 1235.80 (E)	1235.71 (W) 1235.83 (E)
STA. 10+59.40 LINE "A" LATERAL "A-1"	45'	18"	1.73'	36"	2-24"	1236.62	1237.34
STA. 14+65.28 LINE "A" LATERAL "A-3"	74'	24"	1.56'	36"	36"	1244.53	1244.68
LATERAL "A-4"	47'	24"	2.77'	36"	36"	1244.56	1246.62

CURVE/LINE DATA				
DELTA/BEARING	RADIUS	LEN/DIST.	TANGENT	
N45°00'00"E	—	16.16'	—	
45°03'49"	45.00'	35.40'	18.67'	
N00°03'49"W	—	209.35'	—	
N45°12'09"E	—	17.59'	—	
52°25'11"	245.00'	224.15'	120.61'	
N52°21'22"E	—	52.74'	—	
7°46'04"	90.00'	12.20'	6.11'	

CONSTRUCTION NOTES

- CONSTRUCT 18" RCP STORM DRAIN (CLASS IV).
- CONSTRUCT 24" RCP STORM DRAIN (D-LOAD=1350).
- CONSTRUCT 36" RCP STORM DRAIN (D-LOAD=1350).
- INSTALL CATCH BASIN SCREEN FILTER PER DETAIL ON SHEET 7 AND 8.
- CONSTRUCT MANHOLE PER S.P.P.W.C. STD. PLAN 322-3.
- CONSTRUCT CURB OPENING CATCH BASIN PER S.P.P.W.C. STD. PLAN 300-4.
- CONSTRUCT LOCAL DEPRESSION (MODIFIED) PER DETAIL ON SHEET 8.
- CONSTRUCT MONOLITHIC CATCH BASIN CONNECTION PER S.P.P.W.C. STD. PLAN 308-3.
- TRENCHING BACKFILL AND A.C. PAVEMENT REPAIR PER CITY OF CLAREMONT STD. PLAN 1028.
- SAWCUT AND REMOVE EXISTING SIDEWALK.
- RECONSTRUCT SIDEWALK PER DETAIL ON SHEET 6.

city of claremont

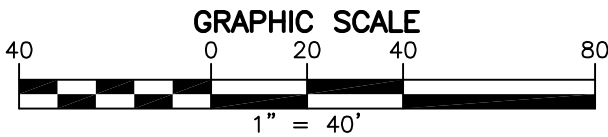
COLBY CIRCLE STORM WATER
IMPROVEMENT PLANS
LINE "A" (10+00.00 TO 15+50.00) AND LATERAL "A-1"

SCALE: N/A		DRAWN BY:	DRAWING NO. SD 02-2106
DATE: 11/30/2021		CHECKED BY:	
F.B. NO.		RECOMMENDED BY:	
APPROVED:			SHEET 2 OF <u>8</u>
CITY ENGINEER R.C.E. DATE:			

LEGEND

TRENCHING BACKFILL AND
A.C. PAVEMENT REPAIR

LINE "A"

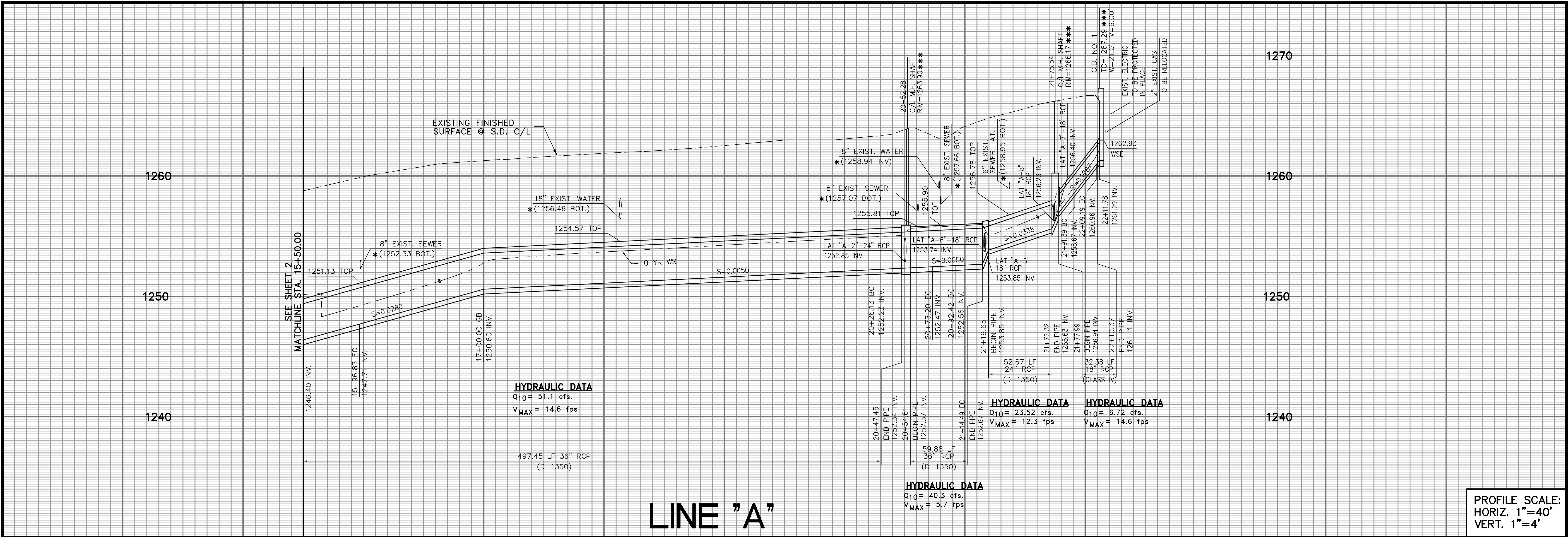


2155 CHICAGO AVENUE, SUITE 304
RIVERSIDE, CA 92507
PH. (951) 300-1431 FAX (951) 300-1435

CEAZAR V. AGUILAR
R.C.E. NO. 41679
EXP. 03-31-22
11/30/2021
DATE



DATE REVISION BY



CURVE/LINE DATA

Δ	DELTA/BEARING	RADIUS	LEN/DIST.	TANGENT
(A)	29°48'45"	90.00'	46.83'	23.96'
(B)	N89°56'11"E	—	429.30'	—
(C)	59°55'35"	45.00'	47.07'	25.94'
(D)	N30°00'36"E	—	19.22'	—
(E)	28°05'30"	45.00'	22.07'	11.26'
(F)	N01°55'07"E	—	76.90'	—
(G)	45°20'15"	22.50'	17.80'	9.40'
(H)	N47°15'22"E	—	2.59'	—

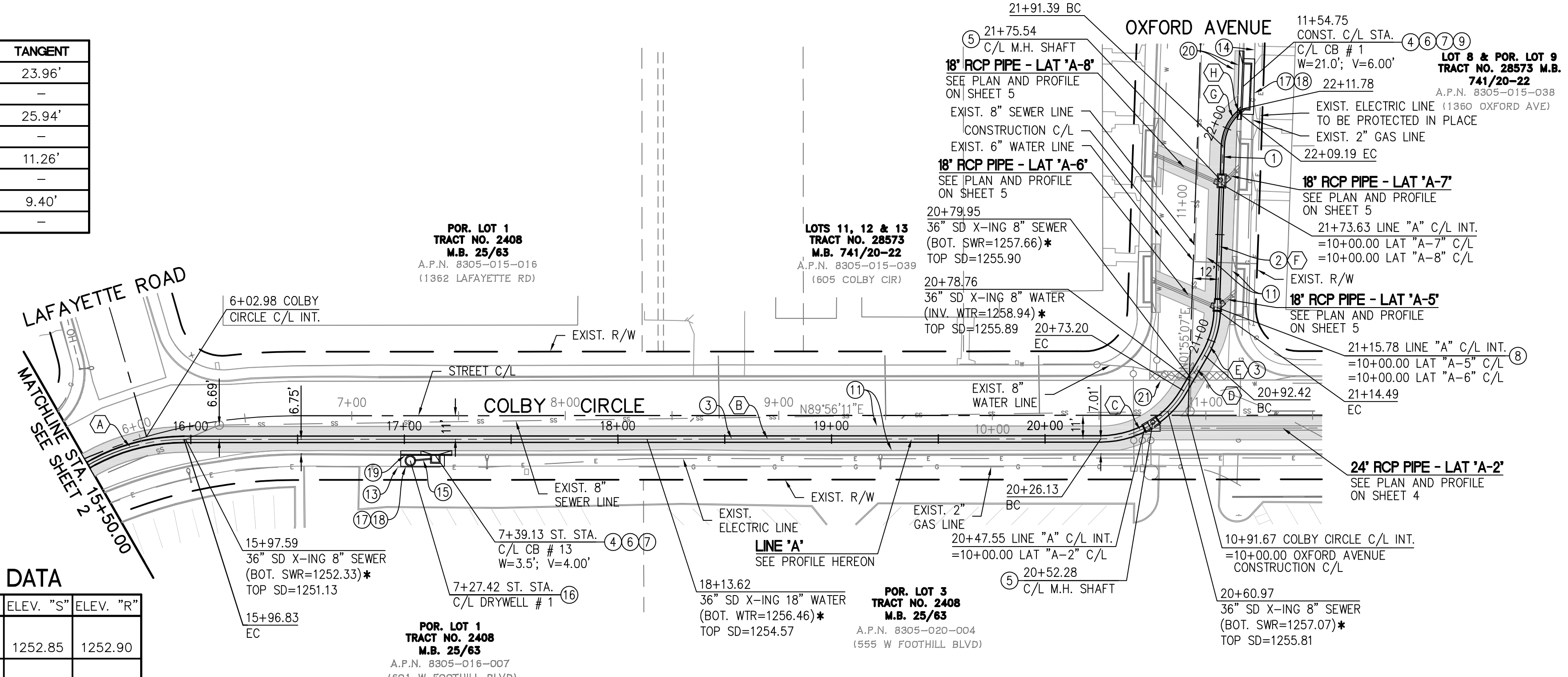
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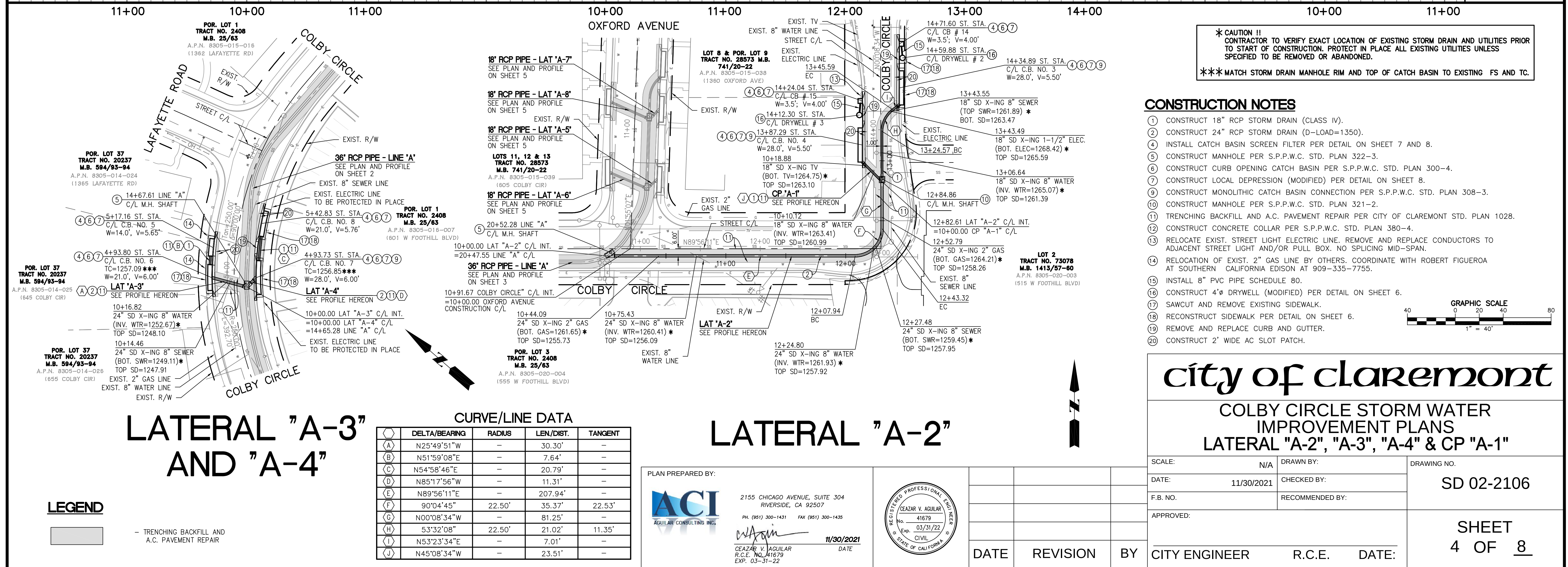
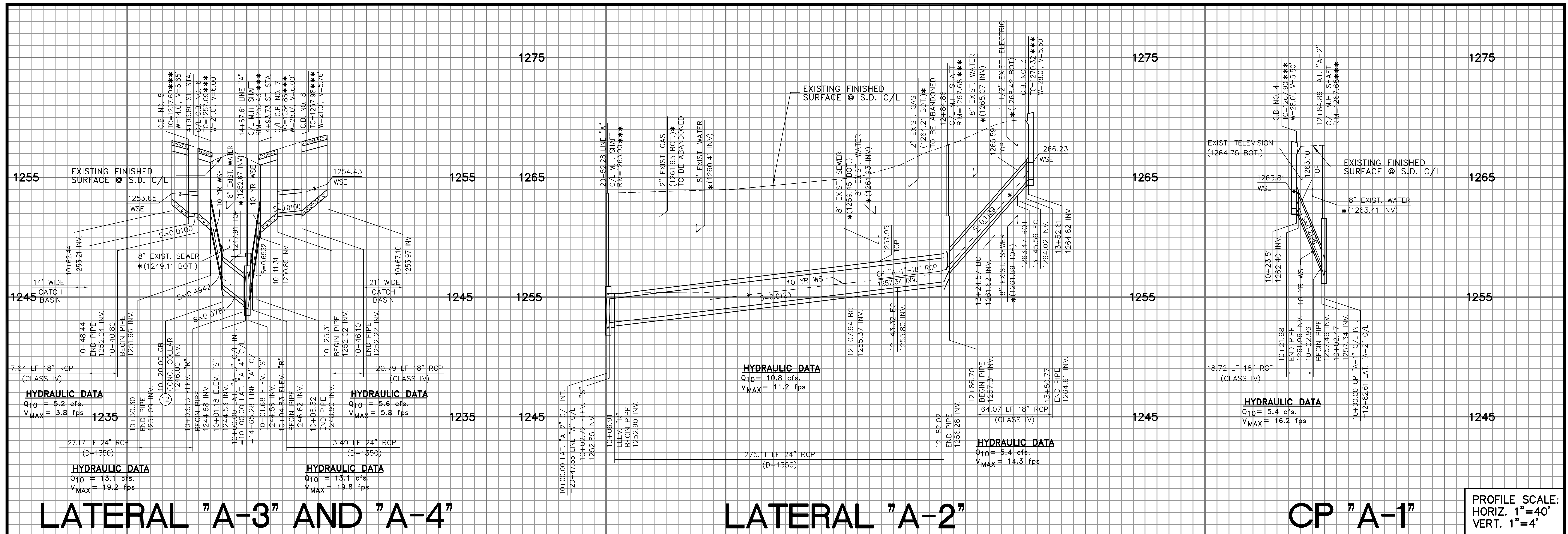
STATION	A	B	C	D1	D2	ELEV. "S"	ELEV. "R"
STA. 20+47.55 LINE "A"							
LATERAL "A-2"	27'	24"	3.81'	36"	36"	1252.85	1252.90
STA. 21+15.78 LINE "A"							
LATERAL "A-5"	48"	18"	2.01'	24"	36"	1253.85	1255.10
LATERAL "A-6"	69"	18"	1.40'	24"	36"	1253.74	1253.92
STA. 21+73.63 LINE "A"							
LATERAL "A-7"	45"	18"	2.45'	18"	24"	1256.40	1257.58
LATERAL "A-8"	68"	18"	1.62'	18"	24"	1256.23	1256.26

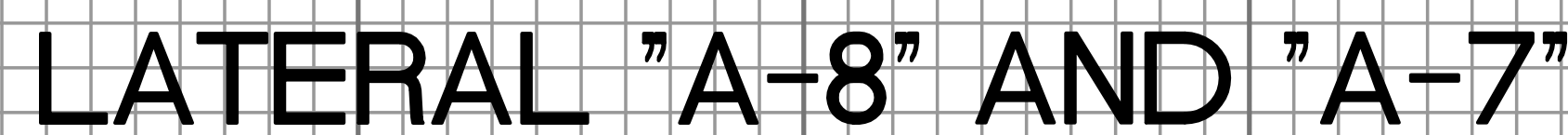
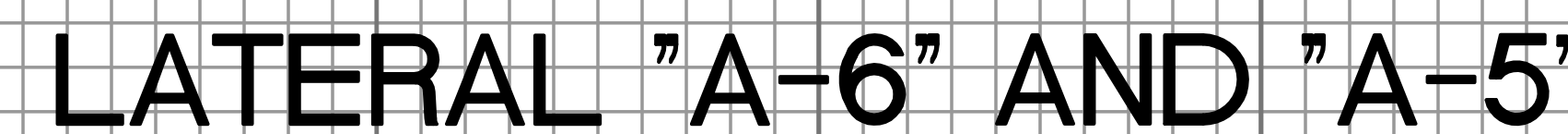
LEGEND

— TRENCHING BACKFILL AND A.C. PAVEMENT REPAIR

— REMOVE AND REPLACE EXISTING CROSS GUTTER



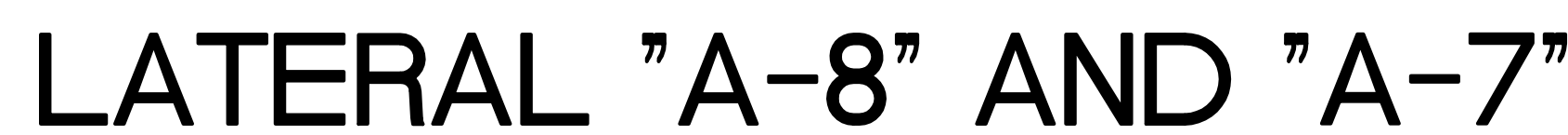
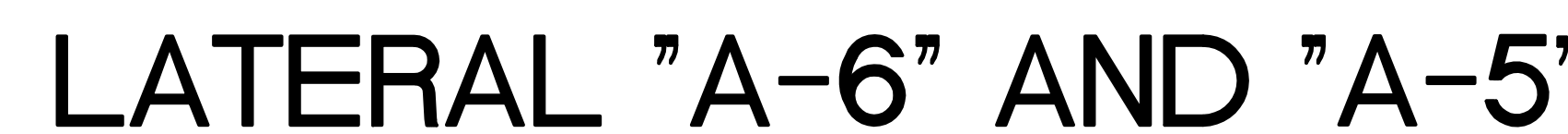




* CAUTION !!
CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING STORM DRAIN AND UTILITIES PRIOR
TO START OF CONSTRUCTION. PROTECT IN PLACE ALL EXISTING UTILITIES UNLESS
SPECIFIED TO BE REMOVED OR ABANDONED.

***MATCH STORM DRAIN MANHOLE RIM AND TOP OF CATCH BASIN TO EXISTING FS AND TC.

- (1) CONSTRUCT 18" RCP STORM DRAIN (CLASS IV).
- (4) INSTALL CATCH BASIN SCREEN FILTER PER DETAIL ON SHEET 7 AND 8.
- (5) CONSTRUCT MANHOLE PER S.P.P.W.C. STD. PLAN 322-3.
- (6) CONSTRUCT CURB OPENING CATCH BASIN PER S.P.P.W.C. STD. PLAN 300-4.
- (7) CONSTRUCT LOCAL DEPRESSION (MODIFIED) PER DETAIL ON SHEET 8.
- (8) CONSTRUCT TRANSITION STRUCTURE PER S.P.P.W.C. STD. PLAN 340-2.
- (9) CONSTRUCT MONOLITHIC CATCH BASIN CONNECTION PER S.P.P.W.C. STD. PLAN 308-3.
- (11) TRENCHING BACKFILL AND A.C. PAVEMENT REPAIR PER CITY OF CLAREMONT STD. PLAN 1028.
- (12) CONSTRUCT CONCRETE COLLAR PER S.P.P.W.C. STD. PLAN 380-4.
- (14) RELOCATION OF EXIST. 2" GAS LINE BY OTHERS. COORDINATE WITH ROBERT FIGUEROA AT SOUTHERN CALIFORNIA EDISON AT 909-335-7755.
- (17) SAWCUT AND REMOVE EXISTING SIDEWALK.
- (18) RECONSTRUCT SIDEWALK PER DETAIL ON SHEET 6.
- (20) CONSTRUCT 2' WIDE AC SLOT PATCH.



LEGEND

- TRENCHING BACKFILL AND A.C. PAVEMENT REPAIR



AGUILAR CONSULTING INC.

 11/30/2021
CEAZAR V. AGUILAR
R.C.E. NO. 41679
EXP. 03-31-22



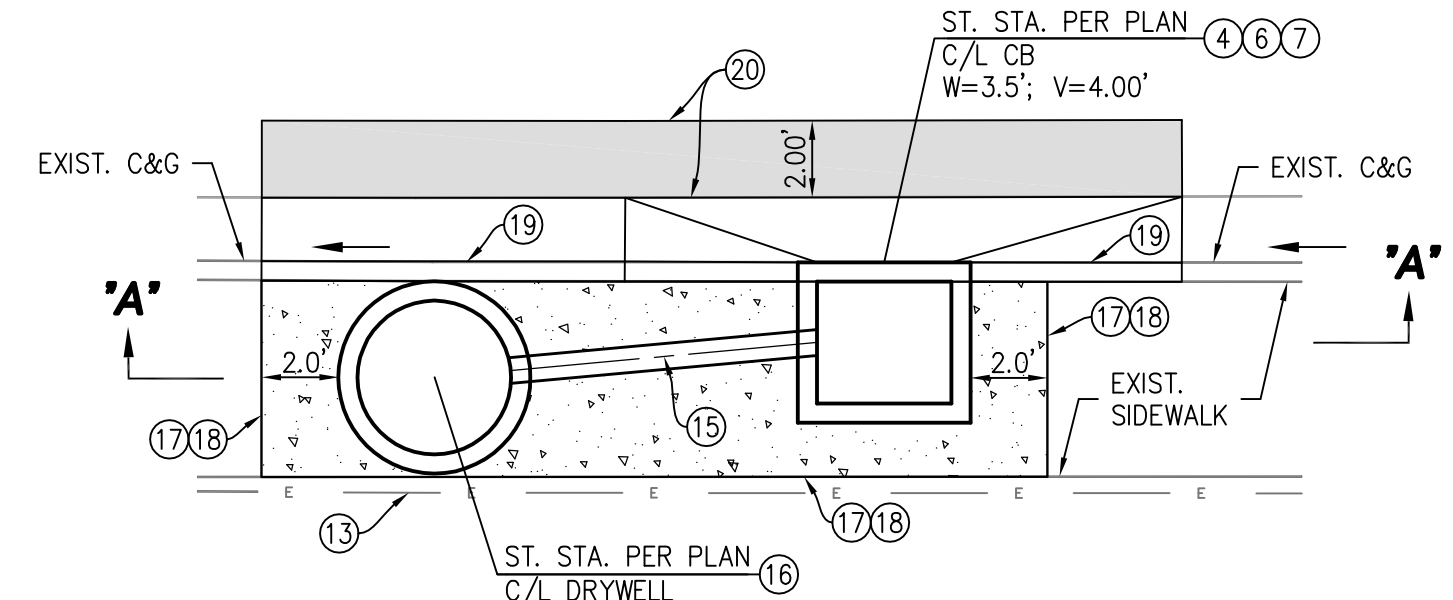
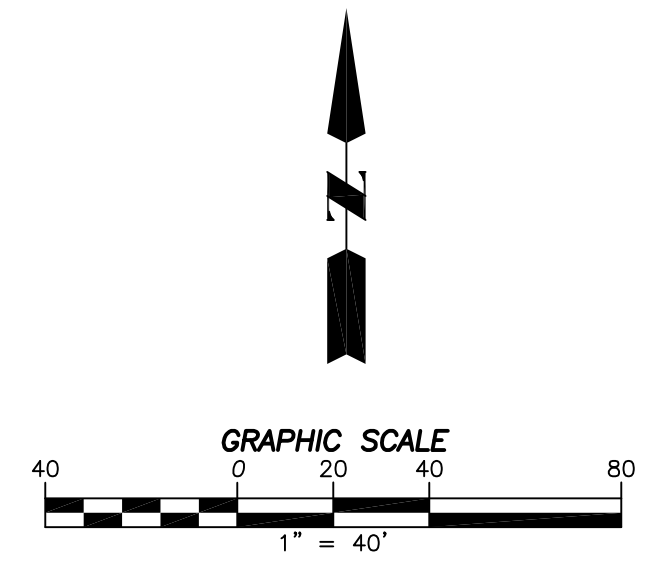
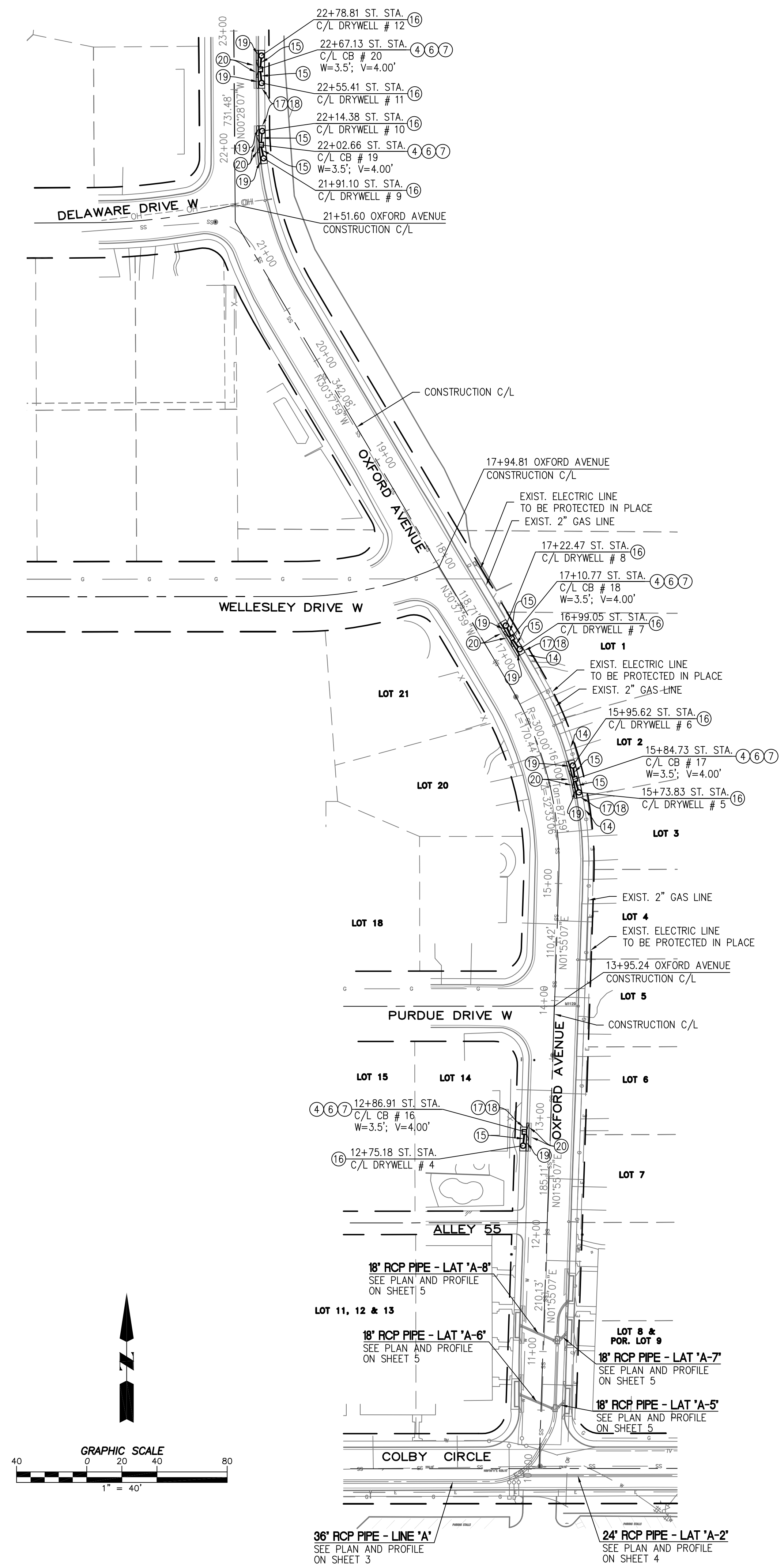
DATE	REVISION
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COLBY CIRCLE STORM WATER
IMPROVEMENT PLANS
LATERAL "A-5", "A-6", "A-7" & "A-8"

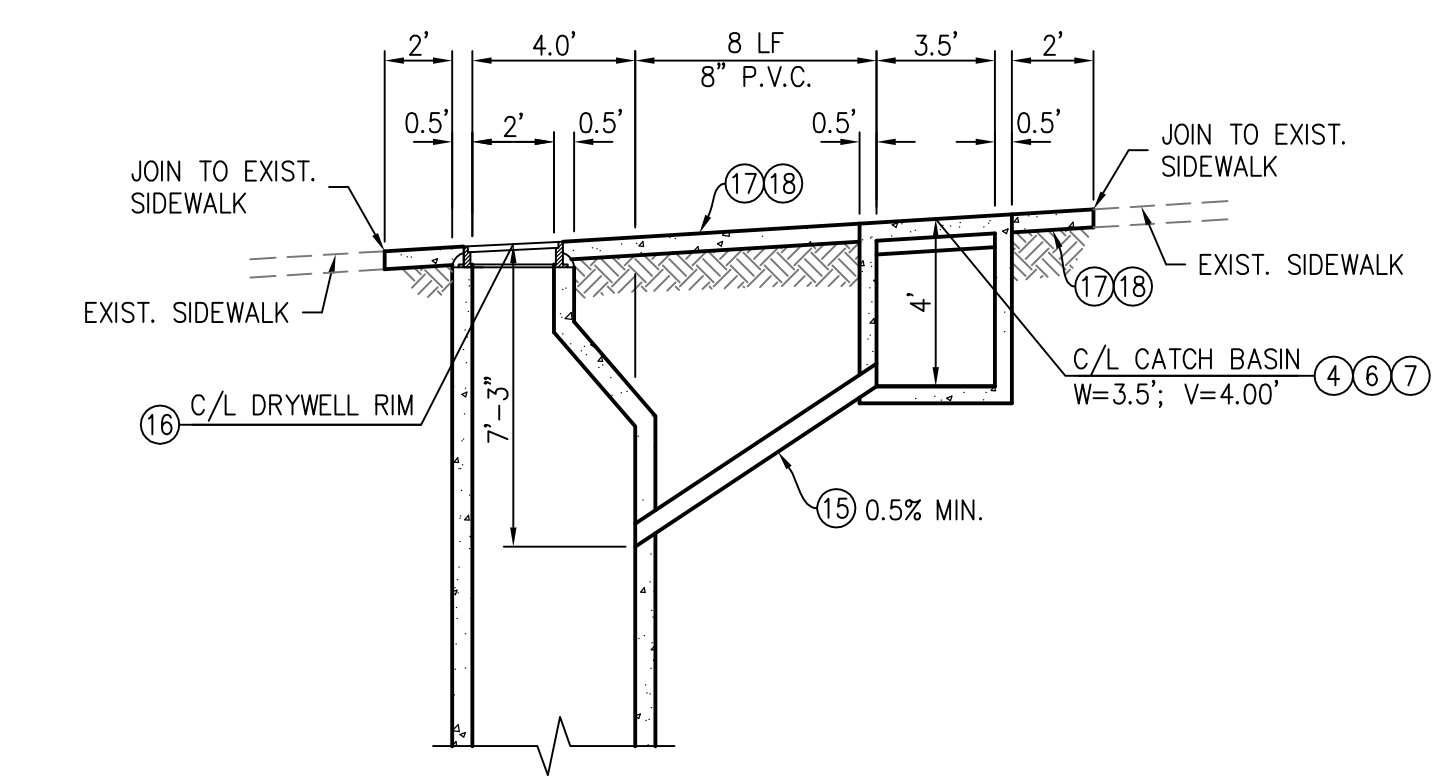
SCALE:	N/A	DRAWN BY:
DATE:	11/30/2021	CHECKED BY:
F.B. NO.		RECOMMENDED BY:
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CITY ENGINEER		R.C.E. DATE:

DRAWING NO.
SD 02-2106

SHEET
5 OF 8



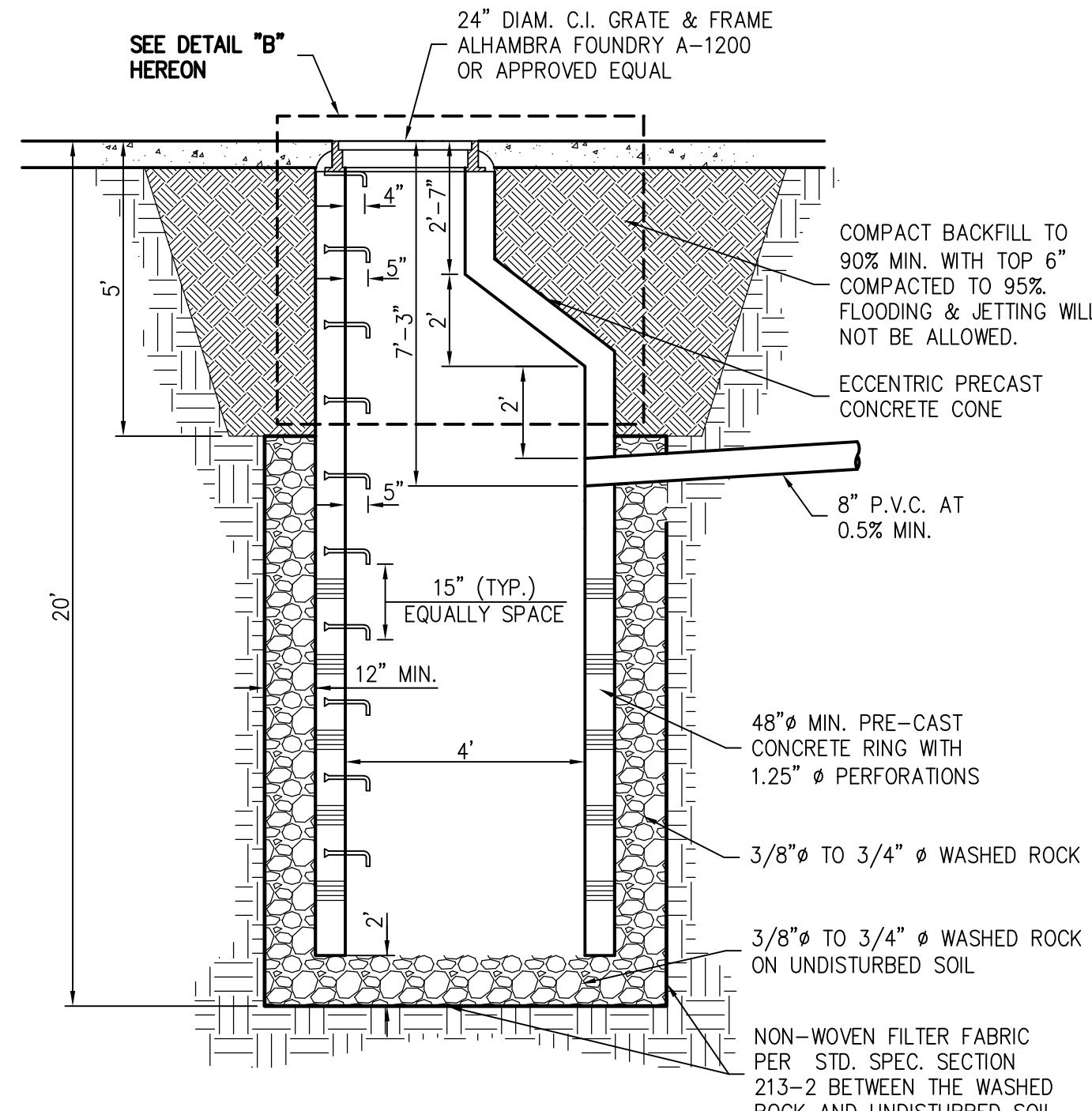
PLAN
SCALE: 1"=5'



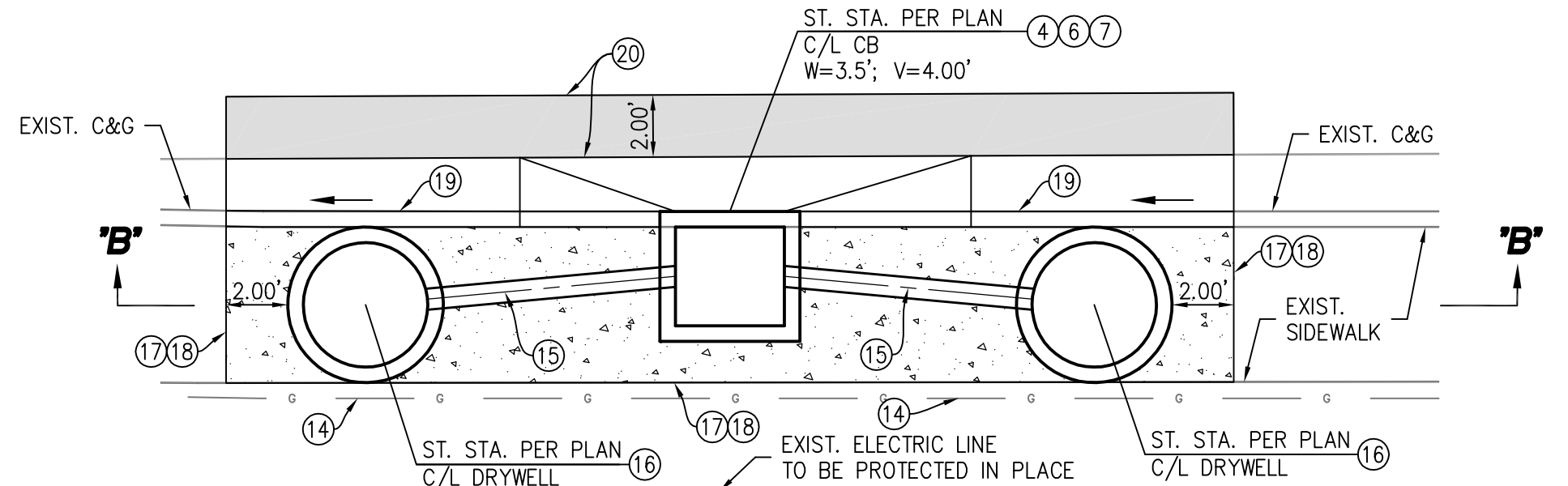
SECTION "A"-"A"
N.T.S.

SINGLE DRY WELL AND SIDEWALK
RECONSTRUCTION TYPICAL DETAIL

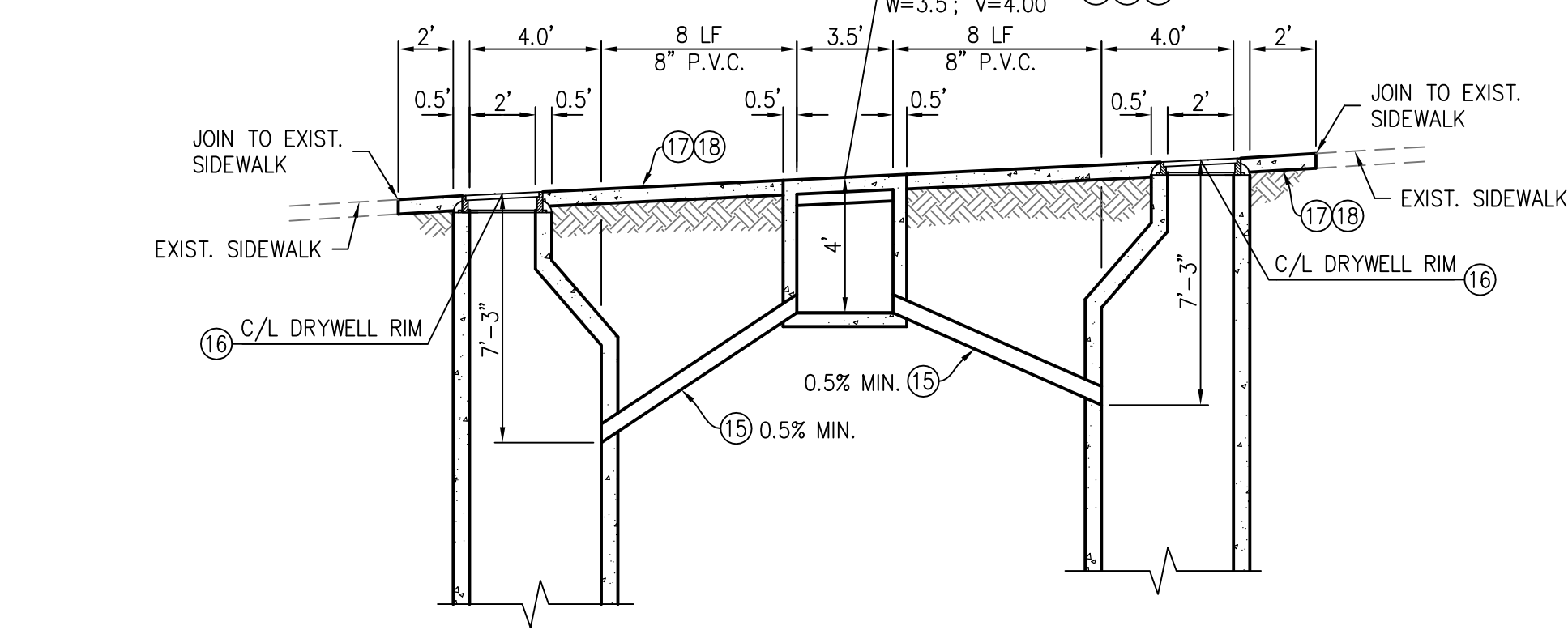
NOTE:
ALL JOINTS ABOVE THE LEACHING AREA
SHALL BE MORTAR SEALED INSIDE AND OUT.



DRYWELL (MODIFIED) DETAIL
N.T.S.

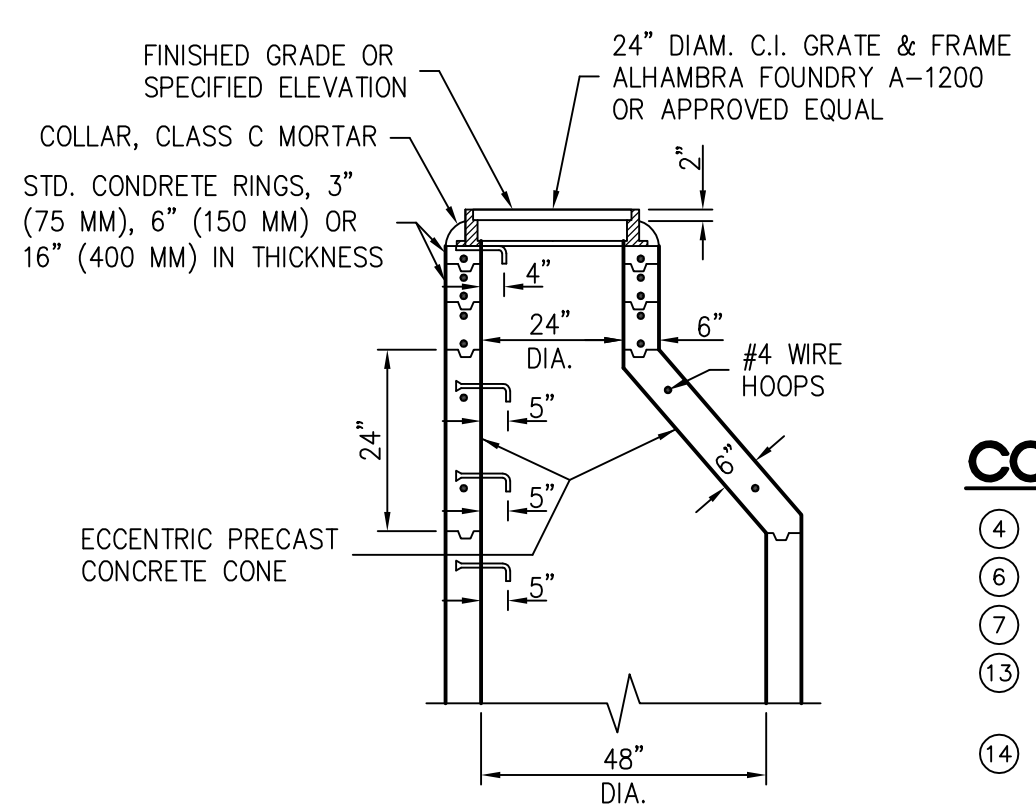


PLAN
SCALE: 1"=5'



SECTION "B"-"B"
N.T.S.

DOUBLE DRY WELL AND SIDEWALK
RECONSTRUCTION TYPICAL DETAIL



DETAIL "B"
N.T.S.

CONSTRUCTION NOTES

- 4. INSTALL CATCH BASIN SCREEN FILTER PER DETAIL ON SHEET 7 AND 8.
- 6. CONSTRUCT CURB OPENING CATCH BASIN PER S.P.W.C. STD. PLAN 300-4.
- 7. CONSTRUCT LOCAL DEPRESSION (MODIFIED) PER DETAIL ON SHEET 8.
- 13. RELOCATE EXIST. STREET LIGHT ELECTRIC LINE. REMOVE AND REPLACE CONDUCTORS TO ADJACENT STREET LIGHT AND/OR PULL BOX. NO SPLICING MID-SPAN.
- 14. RELOCATION OF EXIST. 2" GAS LINE BY OTHERS. COORDINATE WITH ROBERT FIGUEROA AT SOUTHERN CALIFORNIA EDISON AT 909-335-7755.
- 15. INSTALL 8" PVC PIPE SCHEDULE 80.
- 16. CONSTRUCT 4' Ø DRYWELL (MODIFIED) PER DETAIL HEREON.
- 17. SAWCUT AND REMOVE EXISTING SIDEWALK.
- 18. RECONSTRUCT SIDEWALK PER DETAIL HEREON.
- 19. REMOVE AND REPLACE CURB AND GUTTER.
- 20. CONSTRUCT 2' WIDE AC SLOT PATCH.

city of claremont

COLBY CIRCLE STORM WATER
IMPROVEMENT PLANS
OXFORD AVENUE DRY WELL PLAN AND DETAILS

SCALE: N/A	DRAWN BY:	DRAWING NO. SD 02-2106
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APPROVED:	CITY ENGINEER R.C.E. DATE:	

SHEET
6 OF 8

PLAN PREPARED BY:

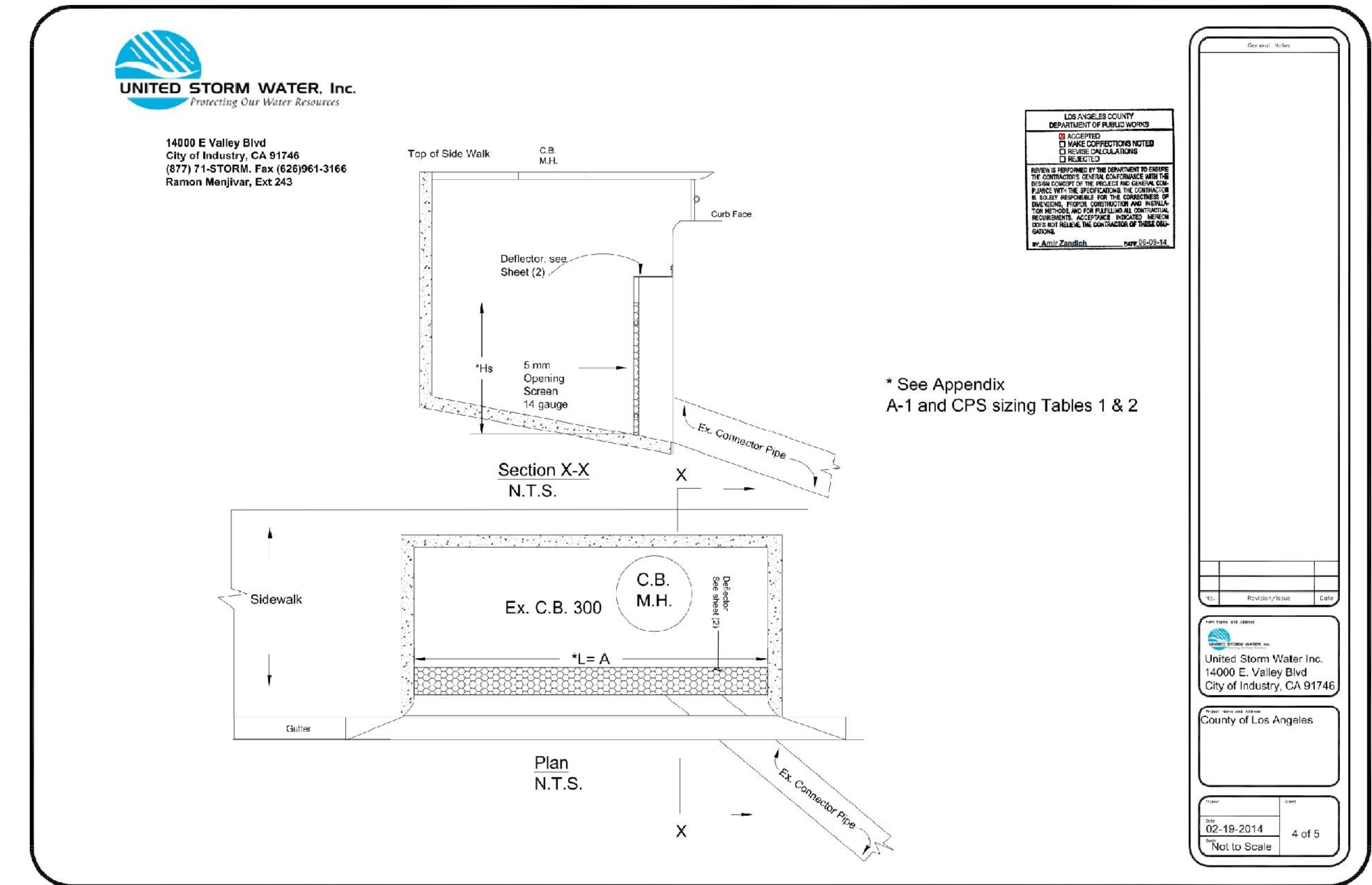
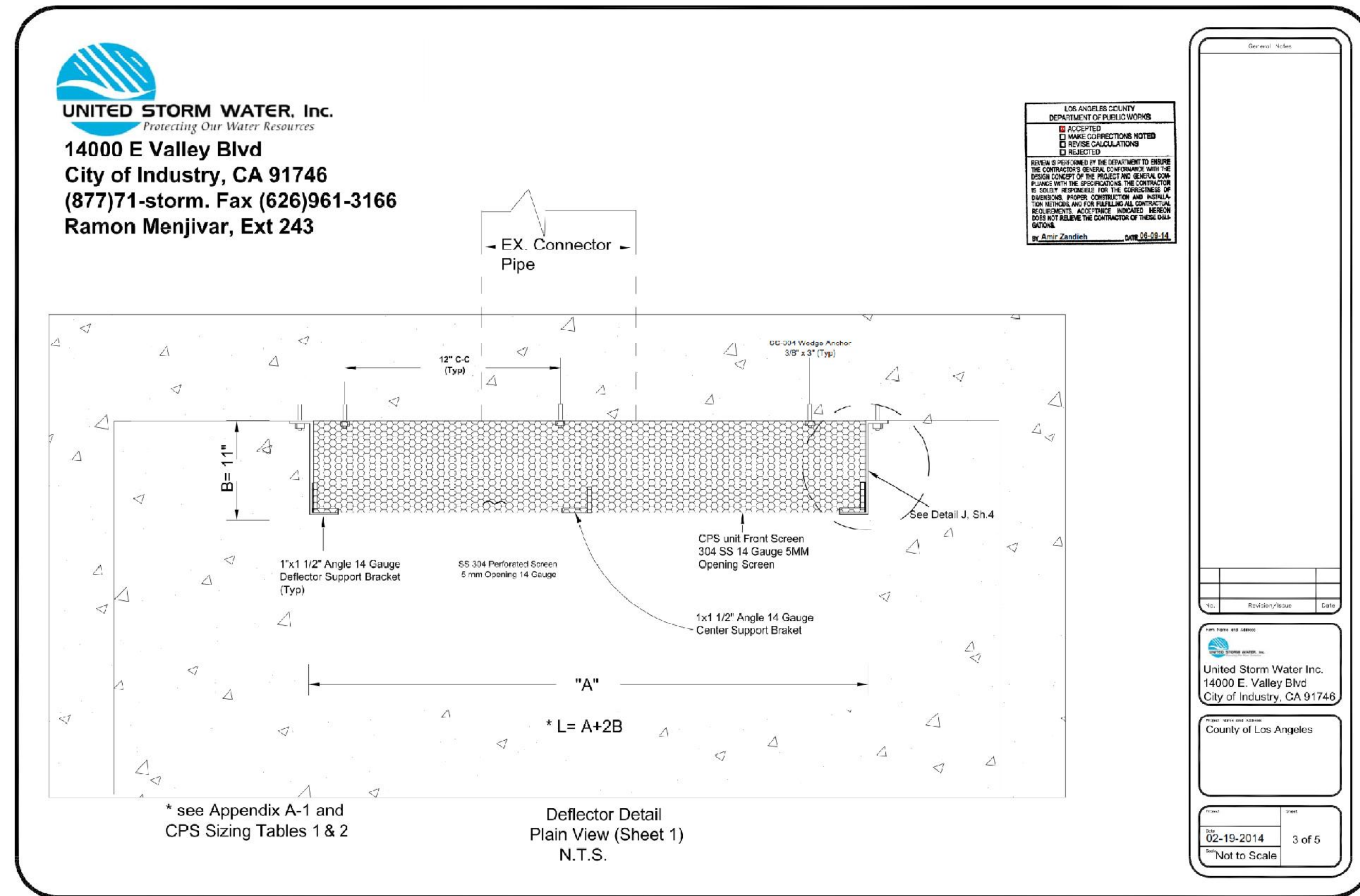
AGUILAR CONSULTING INC.

2155 CHICAGO AVENUE, SUITE 304
RIVERSIDE, CA 92507
PH. (951) 300-1431 FAX (951) 300-1435
CAEZAR V. AGUILAR
R.C.E. NO. 41679
EXP. 03-31-22

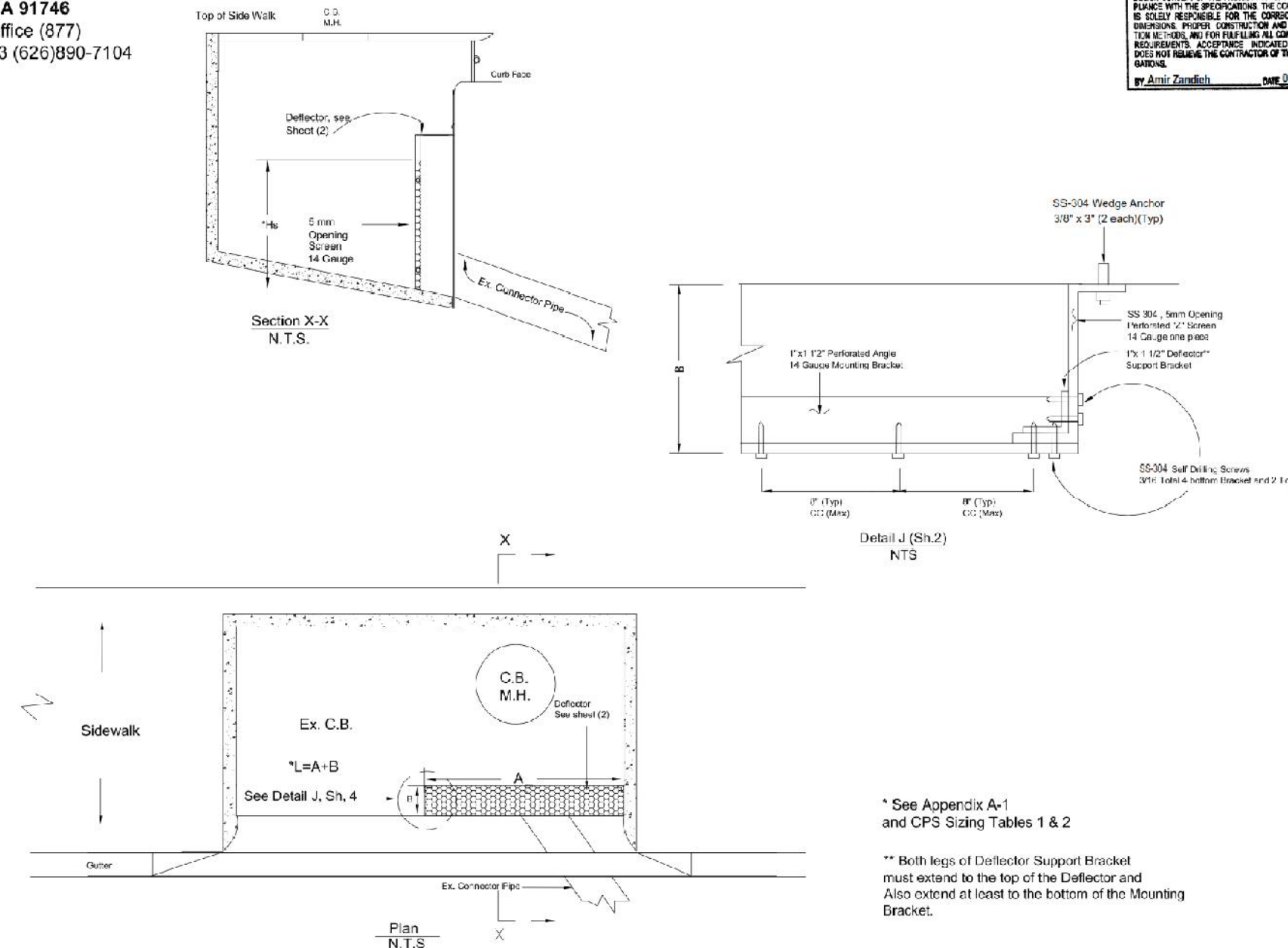
11/30/2021
DATE

REGISTERED PROFESSIONAL ENGINEER CAEZAR V. AGUILAR No. 41679 Exp. 03/31/22 CIVIL STATE OF CALIFORNIA	DATE	REVISION	BY
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- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO APPLY TO THE CITY OF CLAREMONT, PUBLIC WORKS DEPARTMENT, FOR AN ENCROACHMENT PERMIT FOR ALL WORK PERFORMED WITHIN PUBLIC RIGHT-OF-WAY, DEDICATED AND ACCEPTED FOR PUBLIC USE, DURING USE, AND TO BE RESPONSIBLE FOR SATISFACTORY COMPLIANCE FOR ALL CURRENT ENVIRONMENTAL REGULATIONS DURING THE LIFE OF CONSTRUCTION ACTIVITIES FOR THIS PROJECT.
2. ALL IMPROVEMENTS SHALL CONFORM TO THE FOLLOWING, AS APPROPRIATE:
 - A) THESE PLANS
 - B) TECHNICAL SPECIFICATIONS (BASED ON THE LATEST EDITION OF THE GREEN BOOK)
 - C) CITY OF CLAREMONT ORDINANCES AS APPLICABLE
 - D) AMERICANS WITH DISABILITIES ACT
 - E) NPDES PERMIT
 - F) CALTRANS SPECIFICATIONS
3. A PRE-CONSTRUCTION MEETING SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION.
4. BEFORE ANY CONSTRUCTION MAY OCCUR, THE CONTRACTOR SHALL HAVE PLANS WHICH HAVE BEEN SIGNED AND APPROVED BY THE CITY OF CLAREMONT PUBLIC WORKS DEPARTMENT, OBTAINED ALL CITY, COUNTY, STATE, FEDERAL AND OTHER REQUIRED PERMITS, AND HAVE POSTED ALL REQUIRED BONDS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE ARRANGEMENT OF ALL REQUIRED INSPECTIONS.
5. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
6. ANY DEVIATION FROM THE APPROVED PLANS WILL REQUIRE WRITTEN APPROVAL. ALL CHANGES SHALL BE SUBMITTED TO THE CITY.
7. A COPY OF THE APPROVED STORM DRAIN PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
8. ALL STORM DRAINAGE MAIN EXTENSIONS WITHIN THE PUBLIC RIGHT-OF-WAY OR IN EASEMENTS MUST BE STAKED FOR LINE AND GRADE AND SHALL BE CLEARLY DELINEATED IN THE FIELD BY A LICENSED LAND SURVEYOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.
9. DURING ALL PHASES OF CONSTRUCTION OF PERMANENT DRAINAGE STRUCTURES, TEMPORARY DRAINAGE CONTROL SHALL BE PROVIDED AS REQUIRED TO PREVENT ANY DAMAGE TO ADJACENT PROPERTIES.
10. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS OUTLINED IN THE CITY'S REQUIREMENTS.
11. THE CONTRACTOR SHALL NOTIFY THE CITY PUBLIC WORKS DEPARTMENT AT LEAST 48 HOURS IN ADVANCE OF REQUESTING ANY INSPECTION.
12. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT 1-800-227-2600 TWO DAYS BEFORE EXCAVATION.
13. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. SUBJECT TO PROVISIONS OF SECTION 4215 OF THE CALIFORNIA GOVERNMENT CODE, THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO FAILURE TO LOCATE EXACTLY AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATION OF EXISTING UTILITIES, INCLUDING ELEVATIONS, WHICH CROSS THE PROPOSED STORM DRAINS OR ARE FOUND WITHIN THE PROPOSED EXCAVATION BOUNDARIES. THE ENGINEER SHALL BE NOTIFIED OF ANY CONFLICTS PRIOR TO COMMENCING OR CONTINUING CONSTRUCTION.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING THE PROPOSED WORK AREA AND RELOCATION COSTS OF ALL EXISTING UTILITIES. PERMITTEE MUST INFORM THE CITY OF CONSTRUCTION SCHEDULE AT LEAST 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION.
16. CONSTRUCTION SIGNAGE, LIGHTING AND BARRICADES SHALL BE PROVIDED ON ALL PROJECTS AS REQUIRED BY THE CITY OF CLAREMONT PUBLIC WORKS DEPARTMENT, OR AS DIRECTED BY THE CITY ENGINEER. AT A MINIMUM, ALL CONSTRUCTION SIGNAGE, LIGHTING AND BARRICADES ON CITY-OWNED PARCELS OR PUBLIC RIGHTS-OF-WAY SHALL BE IN ACCORDANCE WITH THE "WORK AREA TRAFFIC CONTROL HANDBOOK" IN EFFECT DURING THE TIME OF THE WORK. WORK ON ARTERIAL STREETS SHALL FOLLOW AN CITY APPROVED TRAFFIC CONTROL PLAN.
17. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL AND MAINTAIN ALL CONSTRUCTION, REGULATORY, GUIDE AND WARNING SIGNS WITHIN THE PROJECT LIMITS AND ITS SURROUNDINGS TO PROVIDE SAFE PASSAGE FOR THE TRAVELING PUBLIC AND WORKERS UNTIL THE FINAL COMPLETION AND ACCEPTANCE OF THE PROJECT BY THE CITY.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, CONFINED SPACE PROTECTION, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACT. ANY WORK AFFECTING THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE A TRAFFIC CONTROL PLAN APPROVED BY THE CITY OF CLAREMONT.
19. ALL TRAVELED WAYS MUST BE CLEANED OF ALL DIRT, MUD AND DEBRIS DEPOSITED AS A RESULT OF THE CONSTRUCTION OPERATIONS. CLEANING IS TO BE DONE DAILY TO THE SATISFACTION OF THE CITY ENGINEER.
20. ALL PIPE LENGTHS ARE HORIZONTAL PROJECTIONS, UNLESS OTHERWISE SHOWN.
21. FOR TRENCH EXCAVATIONS, SHORING SHALL BE PROVIDED TO SATISFY STATE OF CALIFORNIA SAFETY REQUIREMENTS.
22. ALL MATERIALS TESTING FOR THE PROJECT SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE LOCATION AND FREQUENCY REQUESTED BY THE CITY'S INSPECTOR.
23. PIPE BACKFILL SHALL BE CLEAN NATIVE MATERIAL WITH NO ROCKS OVER 2" DIA. AND SHALL BE COMPACTED TO 90% DENSITY PER ASTM D-1557 AND SHALL BE TESTED AND APPROVED BY THE ENGINEER.
24. PIPE CONSTRUCTION IN FILL AREA MUST BE COORDINATED WITH THE GRADING TO ENSURE THAT WHEN THE FILL OPERATION HAS BEEN COMPLETED AT GRADE A MINIMUM OF ONE FOOT ABOVE THE TOP OF PIPE OR TO FIVE FEET (MAXIMUM) ABOVE THE PROPOSED SUBGRADE OF THE PIPE, THE STORM DRAIN TRENCH SHALL BE EXCAVATED AND THE PIPE INSTALLED.
25. STORM DRAIN BACKFILL FOR ALL FACILITIES WITHIN STREET RIGHT-OF-WAY IS TO BE PLACED AND COMPACTED UNDER CITY OF CLAREMONT INSPECTION.
26. FLOOR OF MANHOLE STRUCTURE SHALL BE STEEL TROWELED TO SPRING LINE.

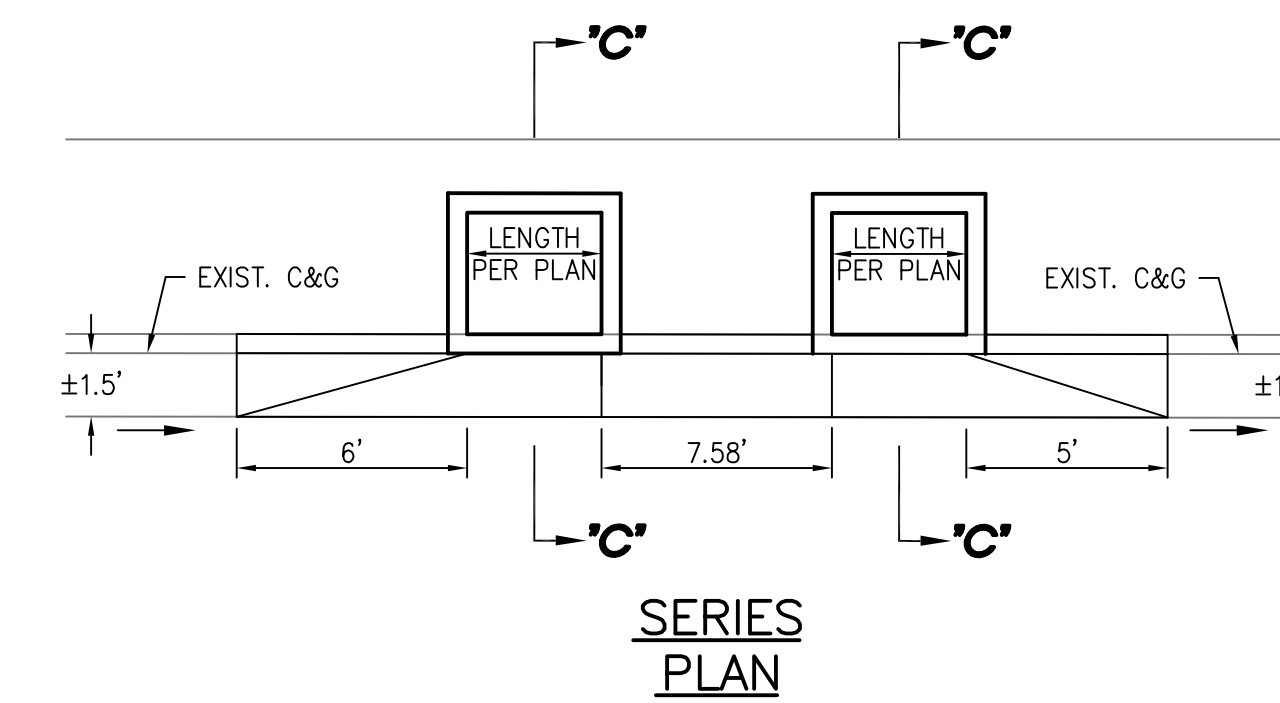
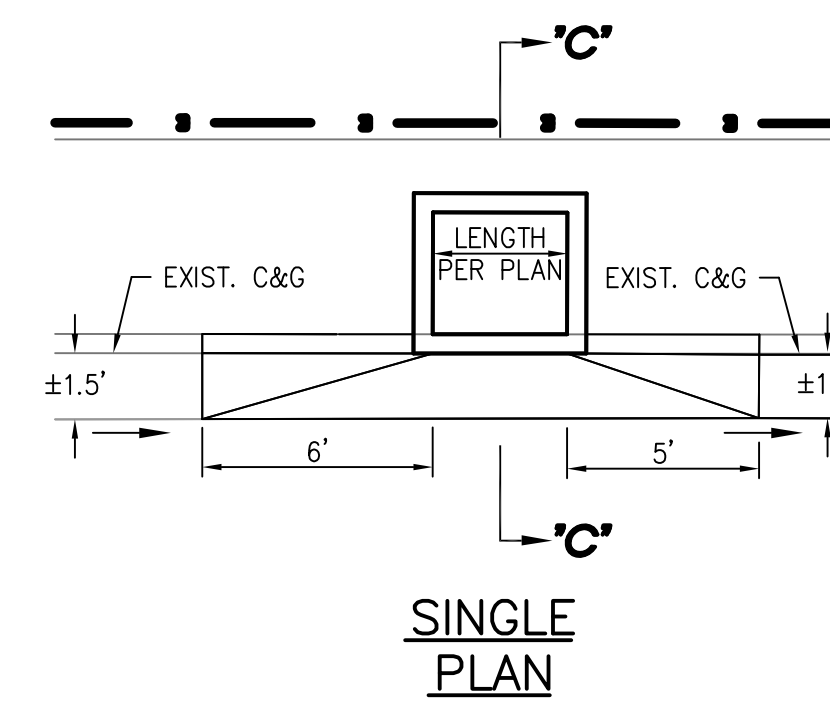


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CITY ENGINEER R.C.E. DATE:			



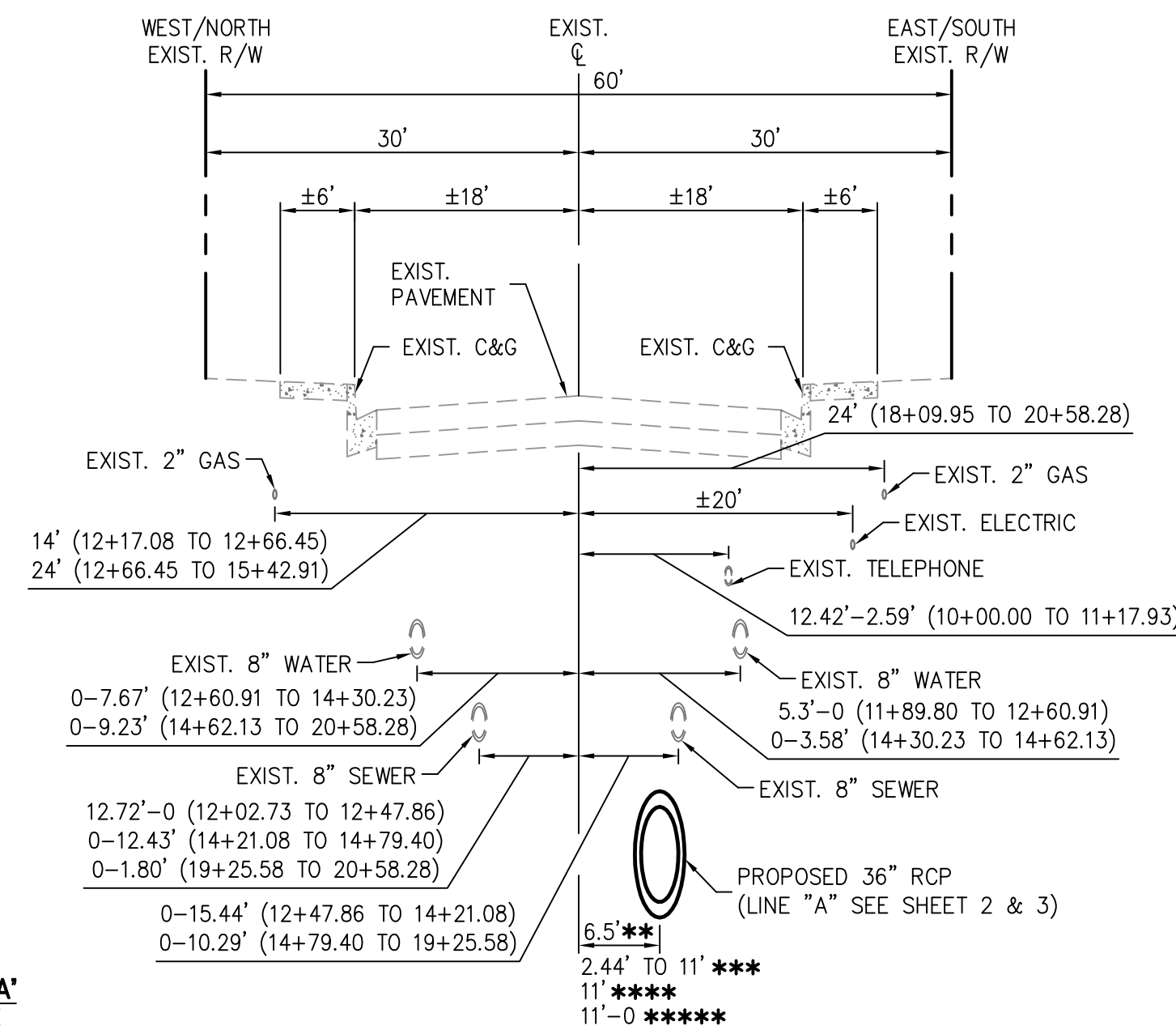
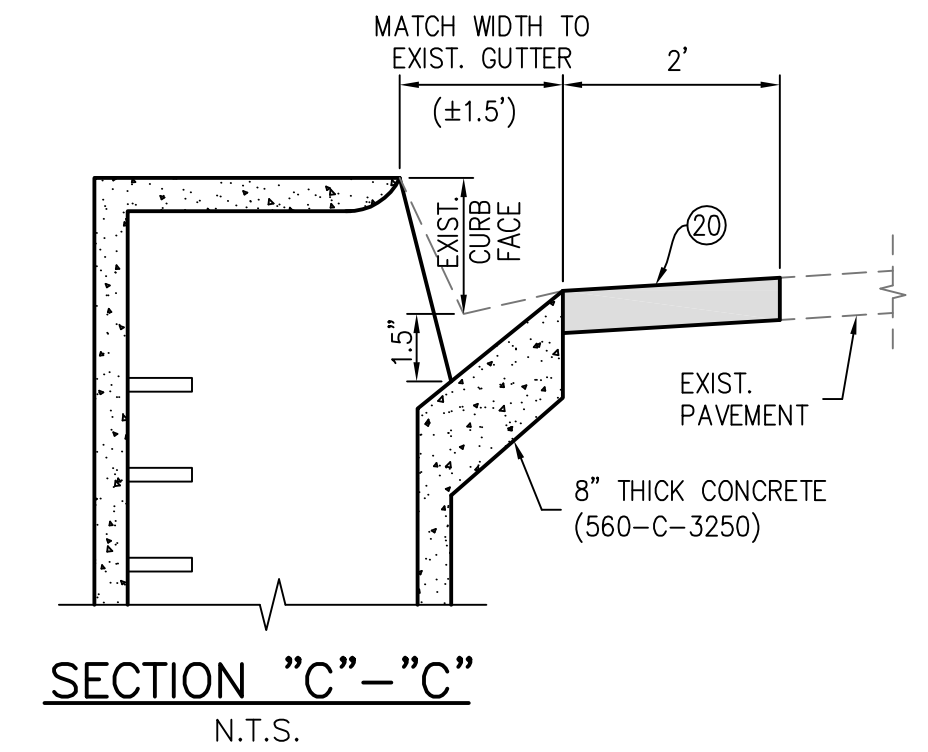
CATCH BASIN SCREEN FILTER DETAIL
N.T.S.

SEE SHEETS 1 OF 5, 2 OF 5,
3 OF 5 AND 4 OF 5 ON SHEET 7.



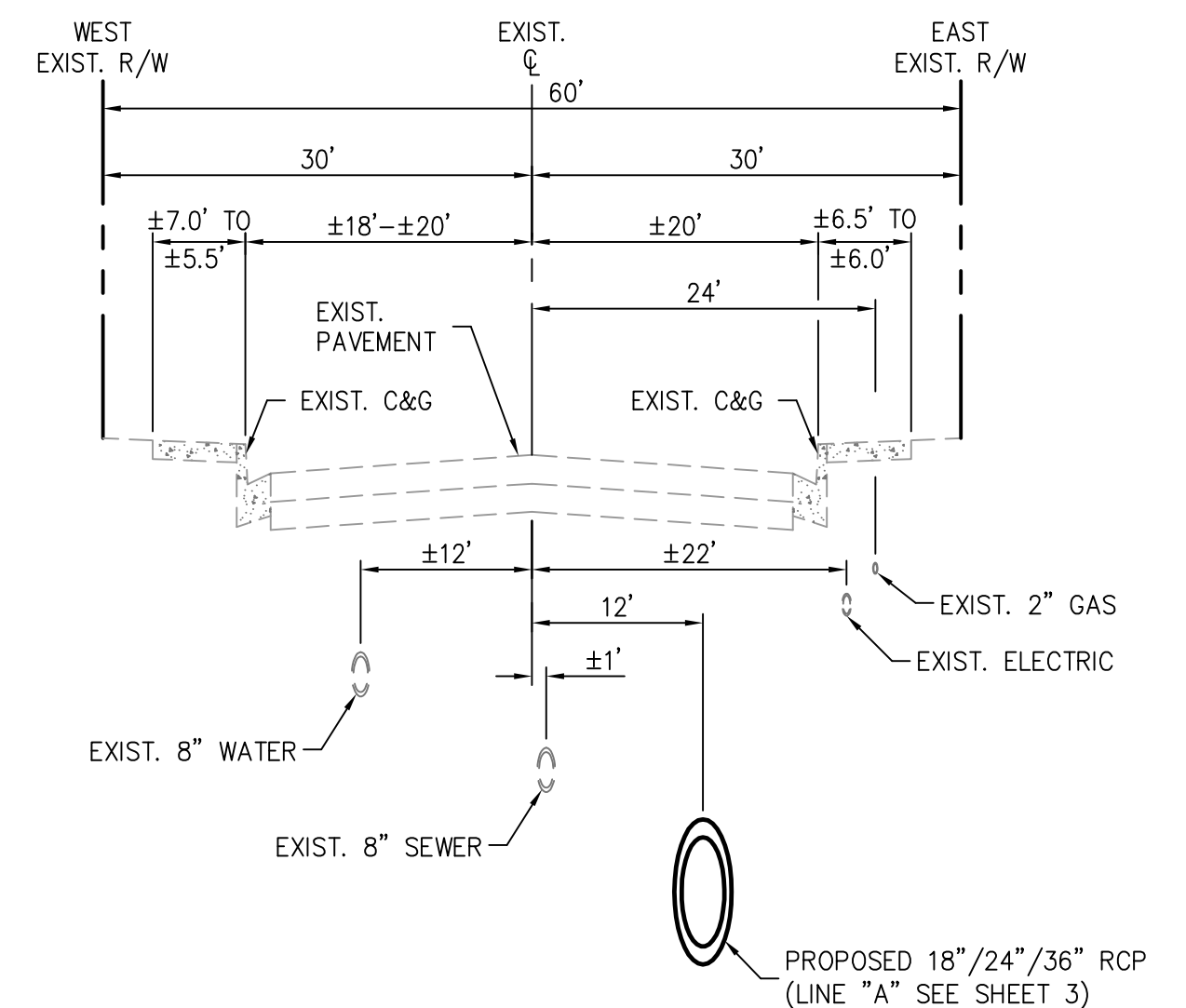
LOCAL DEPRESSION (MODIFIED) DETAIL

N.T.S.

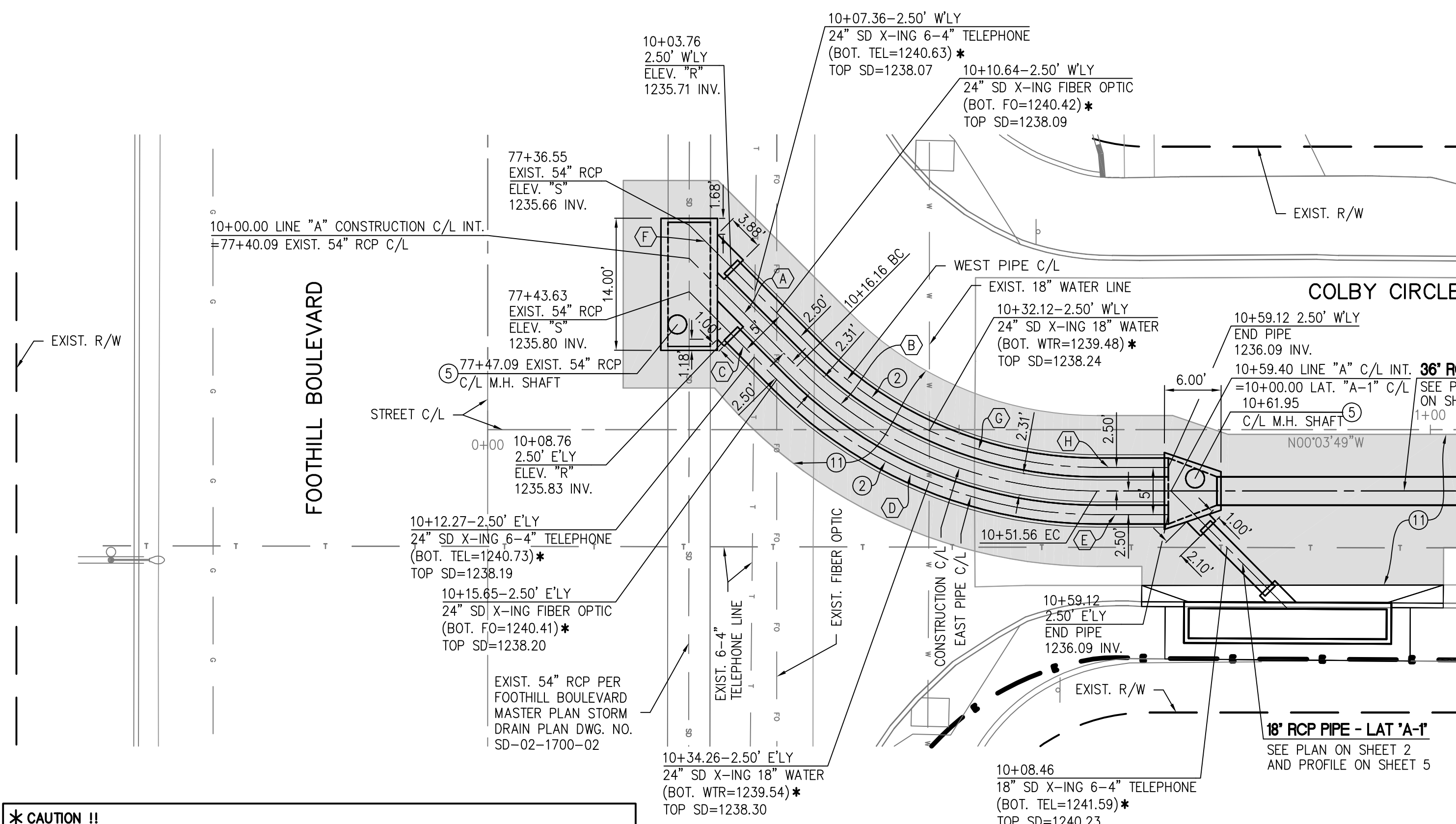


COLBY CIRCLE TYPICAL SECTION

(FROM FOOTHILL BOULEVARD TO OXFORD AVENUE)
 ** STA. 10+64.28 TO STA. 12+60.91
 *** STA. 12+60.91 TO STA. 16+48.07
 **** STA. 16+48.07 TO STA. 20+26.13
 ***** STA. 20+26.13 TO STA. 20+58.28
 N.T.S.



OXFORD AVENUE TYPICAL SECTION
N.T.S.

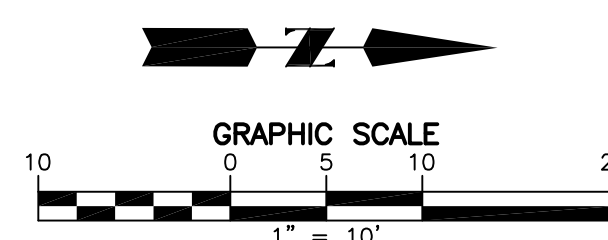


* CAUTION !!
CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING STORM DRAIN AND UTILITIES PRIOR TO START OF CONSTRUCTION. PROTECT IN PLACE ALL EXISTING UTILITIES UNLESS SPECIFIED TO BE REMOVED OR ABANDONED.

DETAIL "A" (SEE SHEET 2)

CURVE/LINE DATA

	DELTA/BEARING	RADIUS	LEN/DIST.	TANGENT
(A)	N45°00'00"E	—	16.16'	—
(B)	45°03'49"	45.00'	35.40'	18.67'
(C)	N45°00'00"E	—	13.66'	—
(D)	45°03'49"	47.50'	37.36'	19.71'
(E)	N00°03'49"W	—	7.56'	—
(F)	N45°00'00"E	—	18.66'	—
(G)	45°03'49"	42.50'	33.43'	17.63'
(H)	N00°03'49"W	—	7.56'	—



LEGEND

- TRENCHING BACKFILL AND A.C. PAVEMENT REPAIR

PLAN PREPARED BY:



2155 CHICAGO AVENUE, SUITE 304
RIVERSIDE, CA 92507
PH. (951) 300-1431 FAX (951) 300-1435

CEAZAR V. AGUILAR
R.C.E. NO. 41679
EXP. 03-31-22

11/30/2021
DATE



DATE _____

REVISION

B

SCALE:

DATE: 11/30/2021

F.B. NO.	
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APPROVED:

CITY ENGINEER

DRAWN BY:

CHECKED BY:

RECOMMENDED BY:

R.C.E.

	DRAWING NO.
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SD 02-2106

SHEET
8 OF 8

city of claremont

COLBY CIRCLE STORM WATER IMPROVEMENT PLANS DETAILS AND SECTIONS

SCALE:	N/A	DRAWN BY:	DRAWING NO. SD 02-2106
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APPROVED:			SHEET 8 OF <u>8</u>
CITY ENGINEER R.C.E. DATE:			