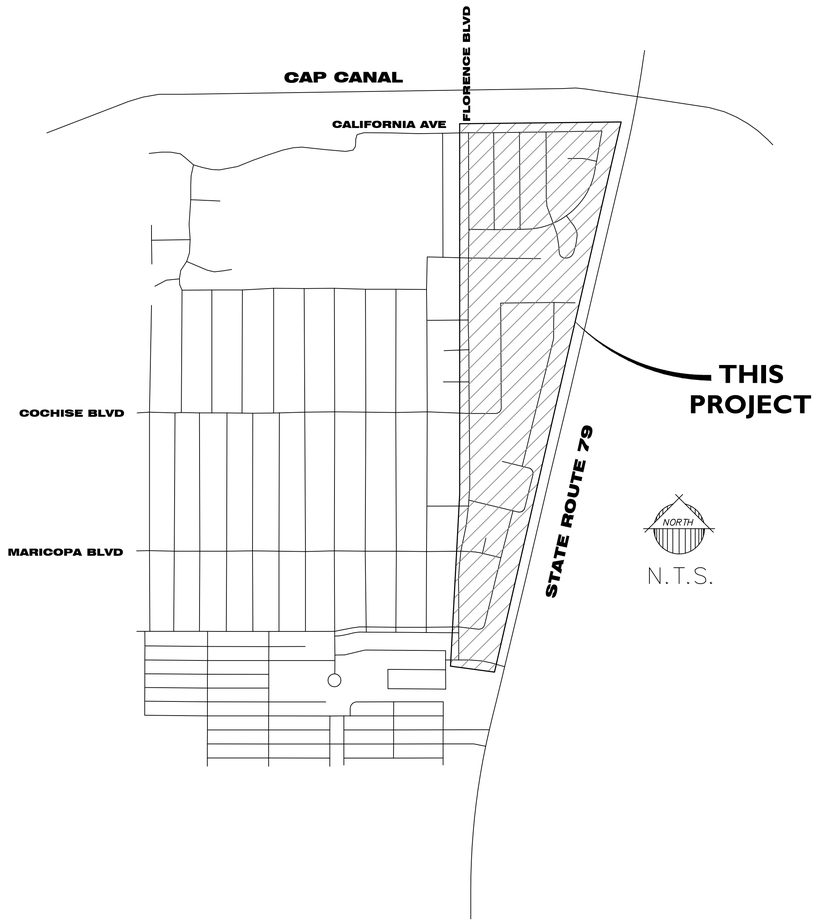
TOWN OF FLORENCE

FLORENCE GARDENS PHASES IV AND V

TOWN PROJECT NOS. T-08 & T-09



LOCATION MAP

QUANTITIES

1	3.0" AC Pavement over 8" ABC per Structural Section #1	12668 SY
2	2.5" AC Pavement over 6" ABC per Structural Section #2	24448 SY
3A	Survey Marker per MAG Detail 120–1 Type "A"	14 EA
3B	Survey Marker per MAG Detail 120–1 Type "B"	38 EA
4	Valley Gutter per MAG Detail 240	95922 SF
5	Barricades per MAG Detail 130 Type "A"	28 LF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	22101 LF
7	4" Roll Curb and Gutter per MAG Detail 220–1, Type "C"	885 LF
8	Adjust Manhole to Grade per MAG Detail 422	20 EA
9	Adjust Valve Box and Cover to Grade per MAG Detail 391–1 Type "C"	34 EA
10	18" Thick Dumped Riprap, D50=6"	378 CF
11	8" Thick Concrete per Structural Section #3	310 SF
12	Sidewalk per MAG Detail 230 (See Sheet DT02)	321 SF
13	5" Thick Concrete Driveway per MAG Detail 250 (See Sheet DT02)	4776 SF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	1554 SY
15	Curb Termination per MAG Detail 222	1 EA
16	5' Transition: 4" Roll Curb to Ribbon Curb	4 EA
17	Remove and Reset Existing Street Sign	1 EA
1	Sawcut AC Pavement	513 LF
2	Remove Pavement Section	48304 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	6686 SF
4	Relocate Street Light	2 EA
5	Remove Barricade	12 LF
6	Remove Concrete Curb and Gutter	122 LF

SHEET INDEX

DESCRIPTION	SHEET NO	SHEET NAME
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GEOMETRIC CONTROL SHEETS	4–7	CS04–CS07
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PAVEMENT MARKING SHEET	51	SS01

UTILITY COORDINATION LIST

UTILITY PROVIDER	REPRESENTATIVE	PHONE
AT&T FIBER OPTIC	JOSEPH FORKERT	(714) 963–7964
CENTURY LINK	ROCKY VILLAREAL	(480) 200–1904
SAN CARLOS IRR PROJECT	ARLAN RIGGS	(520) 723–6243
SOUTHWEST GAS	ZACH STEVENSON	(480) 730–3855

EPS GROUP
2045 S. Vineyard Ave, Suite 101
Mesa, AZ 85210
T:480.503.2250 | F:480.503.2258
www.epsgroupinc.com

Registered Professional Engineer (Civil) CERTIFICATE NO. 49457 JONATHAN D. LASSUY Date Signed 09/14/17 Arizona U.S.A.
Expires 3/31/2018

TOWN OF FLORENCE

425 E. RUGGLES ST.
FLORENCE, AZ 85132
PHONE (520) 868–7617
FAX (520) 868–7637
CONTACT: CHRISTOPHER SALAS

ENGINEER

EPS GROUP, INC
2045 S. VINEYARD AVE, SUITE 101
MESA, ARIZONA 85210
PHONE: (480) 503–2250
FAX: (480) 503–2258
CONTACT: JONATHAN LASSUY

BASIS OF BEARING

SOUTH LINE OF SW ¼ SEC. 13, T. 4S., R.6E.
GILA AND SALT RIVER MERIDIAN
BEARING = N89°10'38"E

BENCHMARK

USCG BRASS CAP ON EAST END OF HEADWALL ON SOUTH SIDE OF HUNT HIGHWAY APPROXIMATELY 200' WEST OF POSTON LOOP
T.O.F BENCHMARK #106
N=747656.62
E=859322.79
ELEV=1486.81 T.O.F. DATUM

I HEREBY CERTIFY THAT ALL ELEVATIONS REPRESENTED ON THIS PLAN ARE BASED ON THE ELEVATION DATUM EQUATION TO THE TOWN OF FLORENCE BENCHMARK AS PROVIDED ABOVE.

APPROVALS

TOWN OF FLORENCE PUBLIC WORKS _____ DATE _____

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "AS-BUILT" MEASUREMENTS AS SHOWN OR NOTED HEREON WERE MADE BY ME OR UNDER MY SUPERVISION AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR _____ DATE _____

TOWN OF FLORENCE ARIZONA - STANDARD PLAN NOTES

THESE CONSTRUCTION NOTES ARE THE BASE NOTES THAT ARE REQUIRED BY THE TOWN OF FLORENCE ON ALL CIVIL CONSTRUCTION DRAWINGS SUBMITTED FOR REVIEW. PLEASE INSURE THAT ALL APPLICABLE NOTES FOR EACH PHASE OF CONSTRUCTION ARE INCLUDED, IF WITHIN THE SCOPE OF WORK FOR YOUR PROJECT. THESE ARE "MINIMUM BASE NOTES" AND MAY BE SUPPLEMENTED AS YOUR PROJECT MAY REQUIRE. THIS DOCUMENT "TOWN OF FLORENCE STANDARD PLAN NOTES" (TOFSPN) IS AVAILABLE IN HARD COPY AT THE ENGINEERING DEPARTMENT AND ALSO IN ACROBAT PDF AND OTHER ELECTRONIC FORMATS. IT CAN BE SENT TO YOU VIA E-MAIL IF YOU PROVIDE US WITH YOUR E-MAIL ADDRESS.

GENERAL NOTES: CONSTRUCTION INSPECTION AND TESTING

a. ALL PUBLIC IMPROVEMENT CONSTRUCTION WITHIN THE TOWN OF FLORENCE PUBLIC ROW AND ONSITE SHALL BE CONDUCTED IN ACCORDANCE WITH, AND CONFORM TO, THE LATEST EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, BOTH AS PUBLISHED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG).

b. INSPECTION OF WORK PER MAG 105.10: THE ENGINEER SHALL BE PERMITTED TO INSPECT ALL MATERIALS, AND EACH PART OR DETAIL OF THE WORK AT ANY TIME FOR THE PURPOSE OF EXPEDITING AND FACILITATING THE PROGRESS OF WORK. HE SHALL BE FURNISHED WITH SUCH INFORMATION AND ASSISTANCE BY THE CONTRACTOR, AS IS REQUIRED TO MAKE A COMPLETE AND DETAILED INSPECTION. THE TOWN ENGINEER REQUIRES THAT THE ACTUAL TEST RESULT DATA SHEET ACCOMPANY ALL COMPACTION TEST RESULTS SUBMITTED TO THE TOWN'S INSPECTOR. PASS/FAIL STATEMENTS ARE NOT ACCEPTABLE WITHOUT THE ATTACHED DATA SHEET. FAILURE TO SUBMIT THE TEST RESULT DATA SHEETS WILL RESULT IN AN INCOMPLETE SUBMITTAL AND THE TEST WILL BE REJECTED.

c. IN THE EVENT OF CONFLICT BETWEEN MAG STANDARD SPECIFICATIONS AND DETAILS AND THESE PLANS, THESE PLANS SHALL PREVAIL.

d. THE OFFICE OF THE TOWN ENGINEER SHALL BE NOTIFIED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK WITHIN THE TOWN OF FLORENCE ROW. TELEPHONE: 520-868-7617.

e. CONTRACTOR IS TO NOTIFY ALL PUBLIC UTILITIES AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, FOR FIELD LOCATIONS OF THEIR RESPECTIVE FACILITIES, BY CONTACTING THE FOLLOWING: BLUE STAKE: 1-800-782-5348.

f. CONTRACTOR SHALL IDENTIFY, COORDINATE AND MAKE ARRANGEMENTS FOR RELOCATION OF ANY UTILITIES CONFLICTING WITH THE PROPOSED CONSTRUCTION OF THESE PLANS, WITH THE APPROPRIATE UTILITY.

g. IDENTIFICATION, REMOVAL AND REPLACEMENT OF ALL TREES, SHRUBS, VEGETATION, MISCELLANEOUS STRUCTURES, DEBRIS, RUBBLE AND OTHER DELETERIOUS MATERIALS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE AT THE CONTRACTOR'S EXPENSE.

h. ALL CONCRETE SIDEWALKS, DRIVEWAYS, APRONS, CROSS-PANS, VALLEY GUTTER, CURBS AND GUTTERS LANDSCAPING AND IRRIGATION THAT MAY BE DAMAGED DURING THE COURSE OF CONSTRUCTIONS SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. SHORING IS TO BE INSTALLED OR A TRENCH BOX IS TO BE USED, IN ALL TRENCHES IN EXCESS OF FIVE (5') FEET IN DEPTH. A REGISTERED CIVIL ENGINEER OR SOILS ENGINEER SHALL CERTIFY SHORING INSTALLATION PLANS, DETAILS AND SPECIFICATIONS. SHORING MUST CONFORM TO OSHA 29 CFR, PART 1926, AND SUBPART D.

i. COMPACTION TESTING IS REQUIRED AND MUST BE PERFORMED IN THE PRESENCE OF A REPRESENTATIVE OF THE TOWN ENGINEER.

j. BACKFILL: BACKFILL WITHIN THE PUBLIC UTILITY EASEMENTS AND WITHIN PUBLIC STREET ROW SHALL BE COMPACTED TO 95% OF MAXIMUM THEORETICAL DENSITY PER ASTM D698. ALL MATERIALS OUTSIDE THE MOISTURE LIMIT SHALL BE CONSIDERED UNSUITABLE, AND SUBJECT TO REMOVAL. NO HYDRAULIC COMPACTION OR WATER JET COMPACTION WILL BE ALLOWED. ALL COMPACTION MUST BE DONE BY MECHANICAL MEANS. MOISTURE LIMIT SPEC: 2.0 PERCENT BELOW OPTIMUM MOISTURE, MATERIAL SHALL BE UNIFORM.

k. SUB GRADE: SUB-GRADE PREPARATION FOR ALL NEW STREETS AND ROADWAYS SHALL CONSIST OF SCARIFYING AND LOOSENING SUB-GRADE TO A DEPTH OF SIX (6") INCHES. SUB-GRADE SHALL BE CONSTRUCTED TO ACHIEVE UNIFORM MOISTURE CONTENT BY THE ADDITION OF WATER AND COMPACTED TO 95% OF MAXIMUM DENSITY. MOISTURE SHALL BE MAINTAINED BETWEEN OPTIMUM AND 4.0% BELOW OPTIMUM MOISTURE AND SHALL BE COMPACTED TO 95% ON MAXIMUM THEORETICAL DENSITY, AS DETERMINED BY ASTM D698. ALL MATERIALS OUTSIDE THE MOISTURE LIMIT AT THE TIME OF PLACEMENT AND COMPACTION SHALL BE CONSIDERED UNSUITABLE AND SUBJECT TO REMOVAL. THE FINISHED SURFACE OF THE SUB-GRADE SHALL NOT VARY FROM THE GRADES ESTABLISHED BY THE TOWN ENGINEER BY MORE THAN: 0.04 OF A FOOT ABOVE OR BELOW SPECIFIED GRADE.

l. GRADING OF AGGREGATE BASES AND AGGREGATE SUB-BASE SHALL BE AS FOLLOWS: AGGREGATE MATERIALS SHALL HAVE WATER ADDED TO THEM AND SHALL BE MIXED AND PROCESSED TO PRODUCE A UNIFORM BLEND OF MATERIAL BEFORE PLACEMENT. AFTER PROCESSING, THE MATERIAL SHALL BE PLACED AND SPREAD ON THE PREPARED SUB-GRADE AND SHALL BE PLACED IN A UNIFORM LAYER OR LAYERS NOT EXCEEDING SIX (6") INCHES IN COMPACTED DEPTH, UNLESS OTHERWISE APPROVED IN WRITING BY THE TOWN ENGINEER. EACH LAYER OF AGGREGATE BASE SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 100% OF THE MAXIMUM DENSITY. THE FINISHED SURFACE OF THE SUB-GRADE SHALL NOT VARY FROM THE GRADES ESTABLISHED BY THE TOWN ENGINEER BY MORE THAN: 0.04 OF A FOOT ABOVE OR BELOW SPECIFIED GRADE.

m. COMPACTION TESTING FOR SUB-GRADE WILL BE DONE AFTER THE SUB-GRADE HAS BEEN STRING LINED AND IS WITHIN TOLERANCE AND ACCEPTED BY THE TOWN ENGINEER. THE TOWN ENGINEER OR HIS REPRESENTATIVE WILL DIRECT THE NUMBER AND LOCATION OF DENSITY TESTS. ALL SUB-GRADES SHALL HAVE A BLUE-TOP ELEVATION SET TO FINISHED GRADE AND LEFT AND RIGHT EDGES OF PAVEMENT, AND CENTERLINE OF ROADWAY.

n. ONE (1) SAND CONE TEST SHALL BE REQUIRED FOR EVERY TEN (10) NUCLEAR DENSITY TESTS PERFORMED, OR WHEN REQUESTED BY THE TOWN ENGINEER OR HIS REPRESENTATIVE. THE TOWN ENGINEER OR ENGINEER'S REPRESENTATIVE SHALL DETERMINE THE LOCATIONS OF THESE SAND CONE TESTS.

o. ALL MATERIALS, INCLUDING BUT NOT LIMITED TO AGGREGATE BASE COURSE, BORROW MATERIAL AND NATIVE MATERIAL, WILL BE ACCEPTED IN PLACE ONLY. TESTING REQUIRED FOR ACCEPTANCE WILL INCLUDE A SIEVE ANALYSIS AND PLASTICITY INDEX, (P.I.). DETERMINATION OF MAXIMUM THEORETICAL DENSITY WILL BE IN ACCORDANCE WITH ASTM D698. ONLY A FOUR-POINT PROCTOR TEST WILL BE ACCEPTED.

p. THE BASE COURSE SHALL NOT BE PLACED ON SUB-GRADE UNTIL THE TOWN ENGINEER HAS ACCEPTED THE SUB-GRADE. ALL MATERIALS WILL BE ACCEPTED IN PLACE ONLY. COMPACTION DENSITIES: MAG TYPE I BACKFILL MATERIAL (SECTION 601.4.4) IS MODIFIED TO INCLUDE AREAS UNDER THE PAVEMENT, ROW, AND EASEMENTS FOR ALL TRENCHES INCLUDING SEWER, WATER, ELECTRIC, AND GAS, TELEPHONE, AND STORM DRAINS, MOISTURE SPEC. 2.0 PERCENT BELOW OPTIMUM MOISTURE COMPACT TO 95% OF MAXIMUM THEORETICAL DENSITY. ALL MATERIALS OUTSIDE THE MOISTURE SPEC-LIMIT SHALL BE CONSIDERED UNSUITABLE, SUBJECT TO REMOVAL AND MATERIAL SHALL BE UNIFORM.

q. THE LOCATION OF ALL SEWER STUB-OUTS SHALL BE STAMPED ON THE TOP OF VERTICAL CURB, AND FACE OF ROLLED CURBS, WITH A FOUR (4") INCH HIGH LETTERS (IE: "S").

r. ALL CURB, GUTTER AND SIDEWALK EXPANSION JOINT FILLER WILL BE ½" BITUMINOUS PRE-MOLDED STRIPS. ALL EXPANSION JOINT SPACING SHALL NOT EXCEED A MAXIMUM OF (50') FEET OR AS DIRECTED BY THE TOWN ENGINEER. CONCRETE CURING COMPOUND MATERIAL SHALL BE A WHITE PIGMENT MEMBRANE USED ON ALL CONCRETE STRUCTURES INCLUDING CURB & GUTTER, SIDEWALK, HEADWALL, CATCH BASINS AND SIDEWALK RAMPS.

s. PAVING WILL NOT COMMENCE UNTIL AGGREGATE BASE COURSE COMPACTION AND GRADATION TESTS ARE COMPLETED AND THE TOWN ENGINEER ACCEPTS THE RESULTS.

t. USPS CLUSTER MAIL BOX LOCATIONS MUST BE PRE-DETERMINED AND NOTED ON THE CIVIL PLANS FOR GRADING AND PAVING. ADD CLUSTER BOXES TO THE LEGEND AND IN CONSTRUCTION NOTES. CLUSTER BOX LOCATIONS SHOULD BE SHOWN ON THE "OVERALL SEWER/WATER/HYDRANT/STREETLIGHT PLAN."

u. MEDIAN CURB & GUTTER BULL NOSE SHALL BE PAINTED YELLOW, WITH REFLECTIVE GLASS BEADS, PER M. A. G. DTL-223, AND HAVE YELLOW PAVEMENT REFLECTORS INSTALLED AFTER THE PAINTING IS COMPLETE.

STORM SEWER NOTES

a. CUT-OFF WALLS WITH A MINIMUM DIMENSION OF 1'-6", SHALL BE USED AT ALL SCUPPERS, AND TERMINATIONS OF RIPRAP AND CONCRETE STORM DRAINAGE CULVERTS AND CONCRETE SPILLWAY BEHIND SCUPPERS 6' MINIMUM.

b. GUARD RAILINGS SHALL BE PLACED ON ALL SCUPPERS ABOVE SPILLWAYS.

c. HINGED TRASH RACKS ARE REQUIRED AT ALL INLETS AND OUTLETS OF STORM SEWER HEAD WALLS FOR ALL PIPES 12" (INCHES) IN DIAMETER AND LARGER.

d. REINFORCED CONCRETE PIPE (RCP) SHALL BE PLACED PER MANUFACTURER'S SPECIFICATIONS AND IN ACCORDANCE WITH MAG

e. ALL RIPRAP SHALL BE GROUTED.

f. "U-TYPE" HEADWALLS WITH WING WALLS PER MAG STD, DET. 501-3 OR 501-4 ARE REQUIRED FOR ALL EXPOSED STORM WATER PIPE.

g. MANHOLE CONCRETE COLLAR SHALL BE 1' FOOT DEEP AND 1' FOOT WIDE OUTSIDE OF RIM CASTING. COLLAR SHALL BE USED IN UNPAVED AS WELL AS PAVED AREAS.

h. RETENTION BASINS SHOULD BE CONSTRUCTED WITH A TWO-FOOT (2') BENCH AT TOP PRIOR TO START OF SLOPE.

i. ALL CMP AND RCP PIPE JOINTS SHALL BE JOINED WITH AN "O" RING OR GASKET TYPE WATERTIGHT SEAL.

j. ANY STORM DRAINS CROSSING PAVED TOWN STREETS REQUIRE A.B.C. BEDDING MINIMUM FOUR (4) INCHES BELOW AND ONE (1) FOOT ABOVE THE TOP OF THE PIPE. ALL STORM PIPES WITHIN TOWN ROW SHALL BE RGRCP.

k. CONSTRUCTION OF STORM DRAIN REQUIRES FOUR (4) INCHES A.B.C. BEDDING PER MAG SPEC. 702. MODIFIED COMPACTION TO 95% TYPICAL.

l. REINFORCED CONCRETE BOX CULVERTS SHALL BE CONSTRUCTED PER A.D.O.T. STANDARDS AND SPECIFICATIONS, TYPICAL, UNLESS OTHERWISE SPECIFIED IN CONSTRUCTION PLANS SUBMITTED

m. CONSTRUCTION OF MANHOLE FOUNDATIONS FOR ALL STORM SEWER BASES SHALL BE PER MAG SECTIONS 505 AND 725.

n. STORM PLAN AS-BUILTS: AS-BUILT STORM SEWER PLANS PREPARED BY THE DESIGN ENGINEER SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: TOP OF CURB (TOC) ELEVATIONS AT BOTH ENDS OF EACH SCUPPER AND GUTTER AT CENTER OR FLOW-LINE OF EACH SCUPPER; INLET AND OUTLET INVERTS; HEADWALL TOP ELEVATIONS AND INVERTS; CROSS-PAN AND VALLEY GUTTER FLOW LINES ELEVATIONS; STORM MANHOLE RIM AND INVERT ELEVATIONS; DRYWELL RIM ELEVATIONS; PIPE DIMENSIONS AND LENGTHS, AND ANY AND ALL DEVIATIONS FROM APPROVED DRAWINGS.

GRADING NOTES

a. SITE AREA: 60 ACRES.

b. APPROVED FINAL DRAINAGE REPORT: BY: EPS GROUP, INC, DATED: MAY, 2017.

c. APPROVED GEO-TECHNICAL REPORT: BY: NINYO & MOORE, DATED: NOVEMBER 29, 2016.

d. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL NECESSARY REGULATIONS AND REQUESTS BY THE TOWN AND PINAL COUNTY REGARDING DUST CONTROL.

e. REMOVAL OF ALL CACTI AND NATIVE PLANTS SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE "ARIZONA NATIVE PLANT LAW" A.R.S. CHAPTER 7.

f. CONTRACTOR MUST KEEP PUBLIC STREETS CLEAR OF SOIL, MUD, AND DEBRIS AT ALL TIMES.

g. CONTRACTOR MUST PREVENT DAMAGE TO DRAINAGE DURING GRADING CONSTRUCTION.

h. CONTRACTOR MUST CORRECT ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY THAT RESULTS FROM WORK DONE UNDER THE APPROVAL OF THE GRADING PERMIT.

i. IF SITE GRADING TOTALS MORE THAN ONE-TENTH (0.1) ACRE, CONTRACTOR MUST OBTAIN A PINAL COUNTY DUST CONTROL PERMIT. IF GRADING EXCEEDS ONE (1.0) ACRE, THIS ACTIVATES AZPDES AND CONTRACTOR MUST SUBMIT A NOI TO ADEQ AND PREPARE A STORM WATER MANAGEMENT PLAN ACCEPTABLE TO ADEQ.

j. ALL ON-SITE GRADING MUST COMPLY WITH CHAPTER 70 OF THE UNIFORM BUILDING CODE.

k. ALL GRADING IN THE PUBLIC ROW MUST COMPLY WITH MAG SPECIFICATIONS AND STANDARD DETAILS; THE ENGINEER'S APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT; AND THE SOILS ENGINEER'S GEOTECHNICAL REPORT FOR THE PROJECT. SURVEYORS WILL SET CONSTRUCTION STATIONS, STAKES, ESTABLISHING LINES AND GRADES FOR ROAD WORK, CURBS, GUTTERS, SIDEWALKS, STRUCTURES AND CENTERLINES FOR UTILITIES AND NECESSARY APPURTENANCES AS DEEMED NECESSARY, AND WILL FURNISH THE CONTRACTOR WITH ALL NECESSARY INFORMATION RELATING TO THE GRADES. THESE STAKES AND MARKS SHALL CONSTITUTE THE FIELD CONTROL BY AND IN ACCORDANCE WITH WHICH THE CONTRACTOR SHALL ESTABLISH OTHER NECESSARY CONTROLS AND PERFORM THE WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE PRESERVATION OF ALL STAKES AND MARKS, AND IF THE CONTRACTOR HAS CARELESSLY OR WILLFULLY DESTROYED THE CONSTRUCTION STAKES OR MARKS, THE COST FOR REPLACING THEM WILL BE CHARGED AGAINST HIM.

l. NO MINIMUM FLOOR ELEVATION SHALL BE LOWERED UNLESS APPROVED BY THE TOWN ENGINEER.

m. ANY SLOPE THAT IS STEEPER THAN 3:1 SHALL BE RIP-RAPPED OR SHALL BE REVEGETATED.

n. THE CONTRACTOR SHALL PROVIDE A LEVEL BOTTOM (+/- 1/10) IN ALL RETENTION BASINS, AT THE ELEVATIONS SHOWN ON THE PLANS. RETENTION BASIN SIDE SLOPES SHALL NOT EXCEED 4:1, UNLESS APPROVED BY THE TOWN ENGINEER AND NOTED ON THE PLANS.

o. RETENTION BASIN PERCOLATION TESTS SHALL BE PERFORMED AFTER GRADING IS COMPLETED AND PRIOR TO LANDSCAPING. PERCOLATION TESTS SHALL BE SUBMITTED TO THE TOWN ENGINEER. RECOMMENDATIONS REGARDING NUMBER OF DRYWELLS REQUIRED TO MEET THE REQUIREMENTS OF THE TOWN CODE WILL BE PRESENTED TO THE TOWN ENGINEER FOR APPROVAL, AND THE FINAL NUMBER OF DRYWELLS REQUIRED SHALL BE DETERMINED BY THESE TESTS. AFTER THE FIRST DRYWELL INSTALLATION A CONSTANT HEAD PRESSURE TEST WILL BE REQUIRED. THE DESIGN ENGINEER SHALL PROVIDE THE TOTAL NUMBER OF DRYWELLS REQUIRED AND SUBMIT THE CALCULATIONS TO THE TOWN ENGINEER. DRYWELLS REQUIRE A PERMIT FROM THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY AND ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY DRYWALL REGISTRATION NUMBERS SHALL BE NOTED ON THE AS-BUILT PLANS.

p. GRADING PLAN AS-BUILTS: AS-GRADED CERTIFICATION OF THE ON-SITE GRADING BY THE DESIGN ENGINEER IS REQUIRED PRIOR TO FINAL ACCEPTANCE OF ANY ON-SITE GRADING OR DRAINAGE IMPROVEMENTS. AS-BUILT DRAWINGS OF THE PUBLIC IMPROVEMENTS BY THE DESIGN ENGINEER ARE REQUIRED PRIOR TO FINAL ACCEPTANCE OF THE PUBLIC IMPROVEMENTS. AS-BUILT GRADING PLANS SHALL BE PREPARED BY THE DESIGN ENGINEER AFTER GRADING IS COMPLETED. THESE SHALL INCLUDE BUT NOT BE LIMITED TO, AS-BUILT ELEVATIONS FOR: FINISHED PADS, ALL REAR PROPERTY CORNERS, TOP OF CURB AT ALL PROPERTY LINES, RETENTION BASIN BOTTOMS, SWALES, BERMS AND PERIMETER LANDSCAPE EASEMENTS, ANY AND ALL DEVIATIONS FROM THE APPROVED PLANS AT THE TIME OF COMPLETION OF MASS GRADING. IF ANY DRYWELLS HAVE BEEN INSTALLED, ADEQ DRYWALL REGISTRATION NUMBERS MUST BE MADE PART OF THE AS BUILT PLANS.

LEGEND

EXISTING

- WATER VALVE
- FIRE HYDRANT
- TELEPHONE PEDESTAL
- CABLE TV PEDESTAL
- ELECTRIC TRANSFORMER
- SANITARY SEWER MANHOLE
- POWER POLE (12kV)
- DOWN GUY
- SIGN/BARRICADES
- GAS VALVE
- STREET LIGHT
- ELECTRICAL PULL BOX
- TREE
- CACTUS
- VEGETATION
- T — TELEPHONE
- FO — FIBER OPTIC
- S — SANITARY SEWER
- OHE — OVERHEAD ELECTRIC
- UGE — BURIED ELECTRIC
- W — WATER
- G — GAS
- SD — STORM DRAIN
- CATV — CABLE TELEVISION
- AT&T — AT&T FIBER OPTIC LINE
- OHE&T — OVERHEAD ELECTRIC AND TELEPHONE
- MASONRY WALL
- CHAIN LINK FENCE
- WIRE FENCE
- EXISTING DRIVEWAY
- 1237 — EXISTING CONTOUR LINES
- MONUMENT

PROPOSED

- NEW AC PAVEMENT
- NEW CLASS A CONCRETE
- NEW RIPRAP

LIST OF ABBREVIATIONS

MAG = MARICOPA ASSOCIATION OF GOVERNMENTS
ADOT = ARIZONA DEPARTMENT OF TRANSPORTATION
TOF = TOWN OF FLORENCE
R/W = RIGHT OF WAY
C/L = CENTERLINE
WAT = WATER
SEW = SANITARY SEWER
UGT = UNDERGROUND TELEPHONE
OHE = OVERHEAD ELECTRIC
UGE = UNDERGROUND ELECTRIC
STA = STATION
EX = EXISTING
B/C = BACK OF CURB
E/P = EDGE OF PAVEMENT
VG = VALLEY GUTTER
PC = POINT OF CURVATURE
PT = POINT OF TANGENCY
RT = RIGHT
LT = LEFT

Call at least two full working days before you begin excavation. ARIZONA 811 Arizona Blue Stake, Inc. Dial 8-1-1 or 1-800-STAKE-IT (782-5348) In Maricopa County: (602)263-1100

Registered Professional Engineer (Civil) CERTIFICATE NO. 49457 JONATHAN D. LASSUY Date Signed 03/30/18 Arizona U.S.A. Expires 3/31/2018

TOWN OF FLORENCE

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FLORENCE GARDENS
PHASES IV AND V

NOTES SHEET

DESIGNED BY	JDL	TOWN PROJECT NOS. T-08 & T-09
DRAWN BY	RW	
DRAWING NO.	CS02	SHEET 2 OF 51

PAVING NOTES

a. ALL GRADING, EXCAVATION, PAVING, TRENCHING, PIPE BEDDING AND BACKFILL SHALL COMPLY WITH THE RECOMMENDATIONS SET FORTH IN THE SOILS (GEO–TECHNICAL) REPORT FOR THIS PROJECT AND THE REFERENCED REQUIRED SPECIFICATIONS AND DETAILS. SOILS REPORT AND PAVEMENT DESIGN WERE PREPARED: BY NINYO & MOORE, DATED: NOVEMBER 29, 2016.

b. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND HORIZONTAL CONTROLS OF ALL EXISTING UTILITIES AT POINT OF TIE–IN PRIOR TO COMMENCING ANY NEW CONSTRUCTION. SHOULD ANY LOCATION, ELEVATION OR CONTROL DIFFER FROM THAT SHOWN ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE OWNER'S AGENT.

c. THE CONTRACTOR SHALL GIVE MINIMUM 72–HOURS NOTICE TO THE TOWN ENGINEER PRIOR TO ANY CONSTRUCTION ACTIVITY WITHIN THE ROW.

d. THE TOWN ENGINEER, OR HIS/HER AUTHORIZED REPRESENTATIVE, MUST APPROVE ALL PLAN REVISIONS IN WRITING PRIOR TO CONSTRUCTION OF ANY CHANGES TO APPROVED PLANS.

e. UPON COMMENCEMENT OF WORK, TRAFFIC CONTROL DEVICES PER THE APPROVED TRAFFIC CONTROL PLAN (TCP) SHALL BE POSTED AND MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME AS WORK IS COMPLETED.

f. REMOVAL AND RELOCATION OF ALL MAILBOXES, FENCES, SIGNS, GATES, POSTS, PIPES, ETC., WITHIN THE ROW AND CONSTRUCTION LIMITS SHALL BE DIRECTED BY THE TOWN ENGINEER.

g. 25 MPH SPEED LIMIT SIGNS SHALL BE LOCATED AT ALL ENTRANCES INTO A RESIDENTIAL SUBDIVISION DEVELOPMENT. 35 MPH SIGNS FOR COLLECTORS SHALL BE LOCATED PER THE PLANS.

h. CONCRETE COLLARS, ON ALL UTILITY AND SURVEY MONUMENT FRAME ADJUSTMENTS, ARE TO BE INSTALLED FLUSH WITH THE PROPOSED OR EXISTING PAVEMENT. CONTRACTOR SHALL PRESERVE LOCATION OF ANY/ALL PRE–EXISTING SURVEY MONUMENTS, AND PROVIDE FOR RE–INSTALLATION OF SAID SURVEY MONUMENT.

i. PAINT FOR PAVEMENT MARKING AND STRIPING SHALL BE THERMAL TRAFFIC PAINT APPLIED IN A SINGLE COAT AT A RATE OF 100 TO 110 SQ. FEET PER GALLON WITH REFLECTIVE BEADS INCLUDED.

j. STREET CUTS ON ASPHALT PAVEMENT: CUT EXISTING PAVEMENT AT ONE (1') FOOT FROM THE UTILITY TRENCH CUT, PER MAG DETAIL 200 TYPE (T) TOP; TACK EDGES (USING A19MM PER MAG SECTION710 ASPHALTIC CONCRETE HOT MIX). ASPHALT CONCRETE SHALL BE TESTED FOR COMPACTION TO 95%. THE CONTRACTOR, AT THEIR EXPENSE, WILL HAVE A PRIVATE LAB CORE SAMPLE AND RUN A MARSHALL FOR COMPACTION TEST FOR ACCEPTANCE ON ALL STREET CUTS. ALL REPLACEMENT PAVEMENTS SHALL MATCH EXISTING, UNLESS AUTHORIZED IN WRITING BY THE TOWN ENGINEER.

k. ALL CONSTRUCTION AND TEST METHODS SHALL BE IN CONFORMANCE WITH THE TOWN OF FLORENCE AND MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARDS SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.

l. ASPHALTIC CONCRETE SHALL CONFORM TO MAG USSD SECTION 710 MIX SPECIFICATIONS.

m. ALL CONCRETE SHALL COMPLY WITH MAG SECTION 725, CLASS–A 3000–PSI COMPRESSIVE STRENGTH AT 28 DAYS, UNLESS OTHERWISE SPECIFIED IN CONSTRUCTION PLANS. CONTRACTOR SHALL SUPPLY MIX DESIGN TO THE TOWN ENGINEER FOR APPROVAL PRIOR TO PLACEMENT. CONTRACTOR SHALL SUPPLY A COPY OF EACH BATCH TICKET TO THE TOWN ENGINEER OR HIS REPRESENTATIVE.

n. A COPY OF THE TOWN APPROVED PLANS MUST BE KEPT ON–SITE AT ALL TIMES, DURING THE COURSE OF CONSTRUCTION.

o. ALL NEWLY CONSTRUCTED PAVEMENTS SHALL RECEIVE AN APPLICATION OF SEALANT (SS1H), APPROVED IN ADVANCE BY THE TOWN ENGINEER AND PRIOR TO ACCEPTANCE INTO A WARRANTY PERIOD. HYDRANT REFLECTORS SHALL BE INSTALLED AFTER THE APPLICATION OF THE SEALANT.

p. IN THE EVENT OF ANY DISPUTE BETWEEN THESE PLANS AND MAG STANDARD SPECIFICATIONS, THESE APPROVED PLANS SHALL PREVAIL.

q. THE CONTRACTOR IS RESPONSIBLE FOR FINAL ADJUSTMENT OF ALL MANHOLES, VALVES, CLEAN–OUTS, WATER METER BOXES, J–BOXES, ETC., AND RESTORATION OF CONSTRUCTION SITE TO MAG STANDARDS, INCLUDING ROW GRADING.

r. ENGINEER'S TESTING OF A/C MIX PRIOR TO PLACEMENT IS REQUIRED AND RESULTS ARE TO BE DELIVERED TO THE TOWN ENGINEER OR HIS REPRESENTATIVE PRIOR TO PAVING.

s. ROLLING PATTERNS REQUIRED BY THE GEO–TECHNICAL TESTING FIRM SHALL ALSO BE SUPPLIED TO THE TOWN ENGINEER'S REPRESENTATIVE.

t. CORE TESTING OF NEWLY CONSTRUCTED ASPHALT CONCRETE SURFACES MAY BE REQUIRED AT THE DISCRETION OF THE TOWN ENGINEER. CORE TESTS ARE MANDATORY, ALONG WITH SUPPORTING MARSHALL TEST RESULTS, FOR ALL EXISTING ROADWAYS WHERE STREET CUTS ARE NECESSARY.

u. PROTECTION OF VALLEY GUTTERS, CROSS–PANS AND APRONS DURING PAVING OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ALL DAMAGED CONCRETE SHALL BE REPLACED PRIOR TO ACCEPTANCE.

v. TACK SEAL SHALL BE REQUIRED BETWEEN LIFTS UNLESS SECOND LIFT IS APPLIED ON THE SAME DAY AS FIRST LIFT AND ALL VERTICAL CONCRETE SURFACES PRIOR TO PLACEMENT OF ASPHALT. THIS REQUIREMENT ALSO APPLIES TO VERTICAL ASPHALTIC CONCRETE SURFACES AND AT ALL JOINTS OF NEW LIFTS.

w. THE SURVEYOR SHALL PERFORM INSTALLATION AND STRADDLING OF MONUMENTS. ONCE STAMPED, DATUM SHALL BE PART OF THE AS–BUILT PLANS.

x. STREET SIGN BASES, POLES AND SIGNS SHALL BE INSTALLED PRIOR TO THE FINAL WALKTHROUGH AND ACCEPTANCE INTO ANY WARRANTY PERIOD.

y. ALL WARNING, REGULATORY AND STREET NAME SIGNS MUST BE MANUFACTURED OF "ASTM D–4956–01A–TYPE IX SHEETING". ALL OTHER SIGNS MUST BE MANUFACTURED WITH "ASTM D–4956–01A–TYPE III SHEETING" WHICH WILL BE ATTACHED TO THE STANDARD SIGN ALUMINUM PLATES. SIGN IMAGING SHALL BE IN COMPLIANCE WITH THE REFLECTIVE SHEETING MANUFACTURER'S MATCHED COMPONENT SYSTEM. SIGN IMAGING SHALL CONSIST OF AN ACRYLIC BASED ELECTRONIC FILM ABLE TO BE CUT 3M 1170 SERIES OR EQUIVALENT OR SILK–SCREENED (DEPENDING ON THE QUANTITY OF SIGNAGE) WITH STANDARD HIGHWAY COLORS. IN ADDITION, A GRAFFITI–PROTECTIVE COATING, OF A PREMIUM PROTECTIVE OVERLAY FILM, 3M 1160 OR EQUIVALENT, SHALL BE USED ON ALL REGULATORY AND WARNING SIGNS. GRAFFITI PROTECTIVE COATING MUST BE DESIGNED TO COMPLY WITH THE UNDERLYING REFLECTIVE SHEETING MATCH COMPONENT SYSTEM.

z. ROW GRADING SHALL BE COMPLETED PRIOR TO THE FINAL WALK–THROUGH AND SHALL BE HELD ONE (1") INCH BELOW BACK OF WALK (B/W) OR TOP OF CURB (T/C).

aa. PAVING AS–BUILT PLANS SHALL BE PREPARED BY THE DESIGN ENGINEER/CONTRACTOR AND SHALL CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS PRIOR TO REQUEST FOR FINAL INSPECTION, CERTIFICATE OF OCCUPANCY OR RELEASE OF ASSURANCE.

bb. FRESHLY PAVED FINISHED ROADWAY SHALL BE 1/4 "ABOVE THE LIP OF THE CONCRETE GUTTER". ASPHALT PAVING MACHINES SHALL BE EQUIPPED WITH AN ACTIVATED SCREED IN ORDER TO MAKE A FIRST PASS (RIBBON) OF 17' OR GREATER.

cc. SUB–GRADE PREPARATION FOR ALL SIDEWALKS, CURB AND GUTTER SHALL BE SCARIFIED AND LOOSENED TO A DEPTH OF 6", AND SHALL BE CONSTRUCTED TO ACHIEVE A UNIFORM MOISTURE BY THE ADDITION OF WATER, MOISTURE SHALL BE MAINTAINED 2.0 PERCENT ABOVE OPTIMUM MOISTURE PRIOR TO PLACEMENT OF CONCRETE, AND COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY. ALL MATERIALS OUTSIDE THE MOISTURE LIMIT SHALL BE CONSIDERED SUBJECT TO REMOVAL.

dd. ANY PAVEMENT ADJACENT TO EXISTING ROW MUST MATCH THE EXISTING PAVEMENT DESIGN, UNLESS AUTHORIZED, IN WRITING, BY THE TOWN ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE.

ee. FINISHED GRADE OF COMPACTED, FRESHLY PLACED ASPHALT, SHALL BE NO MORE OR NO LESS THAN ¼" INCH ABOVE THE LIP OF THE GUTTER. NO DIESEL, OR OTHER CLEANING SOLVENTS, WILL BE APPLIED TO THE PAVING HOPPER, THE SCREED, OR THE AUGER IMMEDIATELY PRIOR TO BEGINNING OF THE PAVING OPERATION.

ff. PAVING PLAN AS–BUILTS: AS–BUILT PLANS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: HORIZONTAL AND VERTICAL CONTROL, CHANGES TO ANY GRADE BREAK LOCATIONS, TOP OF CURB (T/C) ELEVATIONS AT EACH CURB RETURN, PROPERTY CORNER, GUTTER/FLOW LINE ELEVATIONS, SCUPPER AND CATCH BASIN INVERTS, MONUMENTATION, CROSS SLOPES, VALLEY GUTTER FLOW LINE ELEVATIONS, HYDRANT REFLECTORS AND ANY AND ALL CHANGES TO THE APPROVED PLANS.

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Registered Professional Engineer (Civil)
CERTIFICATE NO. 49457
JONATHAN D. LASSUY
Date Signed 09/14/17
Arizona, U.S.A.
Expires 3/31/2018

TOWN OF FLORENCE

EPS GROUP
2045 S. Vineyard Ave, Suite 101
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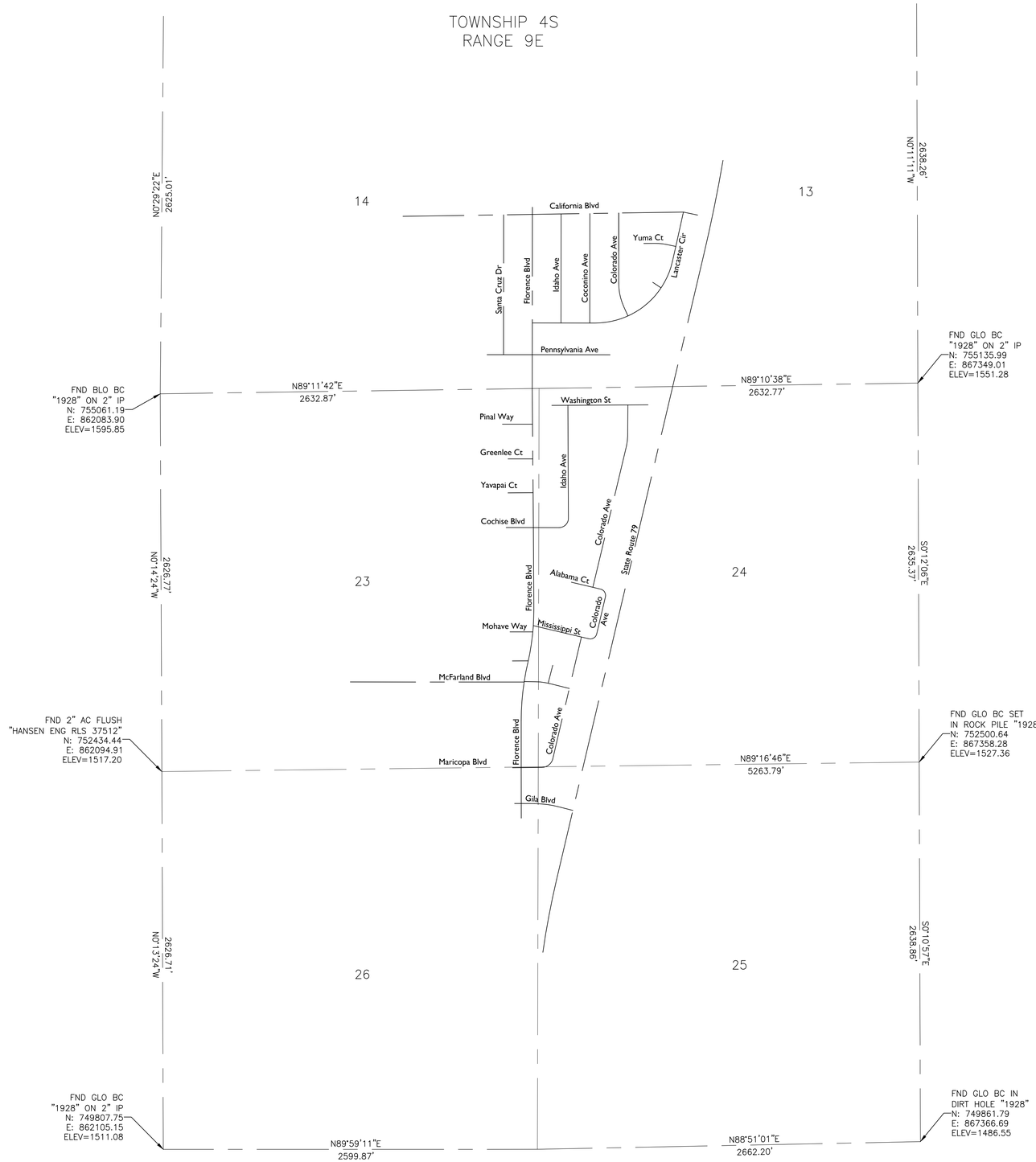
FLORENCE GARDENS
PHASES IV AND V

NOTES SHEET

DESIGNED BY	JDL	TOWN PROJECT NOS. T–08 & T–09
DRAWN BY	RW	
DRAWING NO.	CS03	SHEET 3 OF 51



PRIME BENCHMARK

USCG BRASS CAP ON EAST END OF HEADWALL ON SOUTH SIDE OF HUNT HIGHWAY APPROXIMATELY 200' WEST OF POSTON LOOP
T.O.F BENCHMARK #106
N=747656.62
E=859322.79
ELEV=1486.81 T.O.F. DATUM

TBM #1

#4 RB W/ RED PLASTIC CAP MARKED EPS CONTROL POINT
AT SE CORNER OF CALIFORNIA BLVD & LANCASTE CIR
ELEV=1565.58 T.O.F. DATUM

TBM #2

#4 RB W/ RED PLASTIC CAP MARKED EPS CONTROL POINT
ON WEST SIDE OF SR 79 APPROX. 225' NORTH OF GILA BLVD.
ELEV=1528.91 T.O.F. DATUM

400 0 400 800
SCALE FEET

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FLORENCE GARDENS
PHASES IV AND V

GEOMETRIC CONTROL SHEET

DESIGNED BY	JDL	TOWN PROJECT NOS. T-08 & T-09
DRAWN BY	RW	
DRAWING NO.	CS04	SHEET 4 OF 51

POINT TABLE (FLORENCE BLVD)			
TYPE	STATION	NORTHING	EASTING
POB	10+00.00	752212.44	864592.98
PC	15+76.51	752788.95	864592.50
PRC	19+87.51	753196.40	864639.34
PT	23+58.10	753563.89	864680.01
AP	29+25.07	754130.86	864676.61
AP	38+91.75	755097.51	864669.12
POE	51+02.81	756308.57	864670.11

POINT TABLE (LANCASTER CIR)			
TYPE	STATION	NORTHING	EASTING
POB	10+00.00	755553.74	864669.49
PC	14+37.15	755553.38	865106.64
PT	21+74.11	755977.07	865642.41
AP	22+40.38	756041.72	865656.99
AP	22+85.30	756085.57	865666.68
POE	25+30.09	756324.61	865719.45

POINT TABLE (COLORADO AVE)			
TYPE	STATION	NORTHING	EASTING
POB	10+00.00	755602.35	865333.99
PC	10+69.79	755666.00	865305.35
PT	12+39.27	755830.48	865270.12
POE	17+26.54	756317.75	865270.52

POINT TABLE (YUMA)			
TYPE	STATION	NORTHING	EASTING
POB	10+00.00	756106.31	865444.05
PC	10+72.59	756107.37	865516.63
PT	11+63.04	756098.50	865606.45
POE	12+24.64	756085.57	865666.68

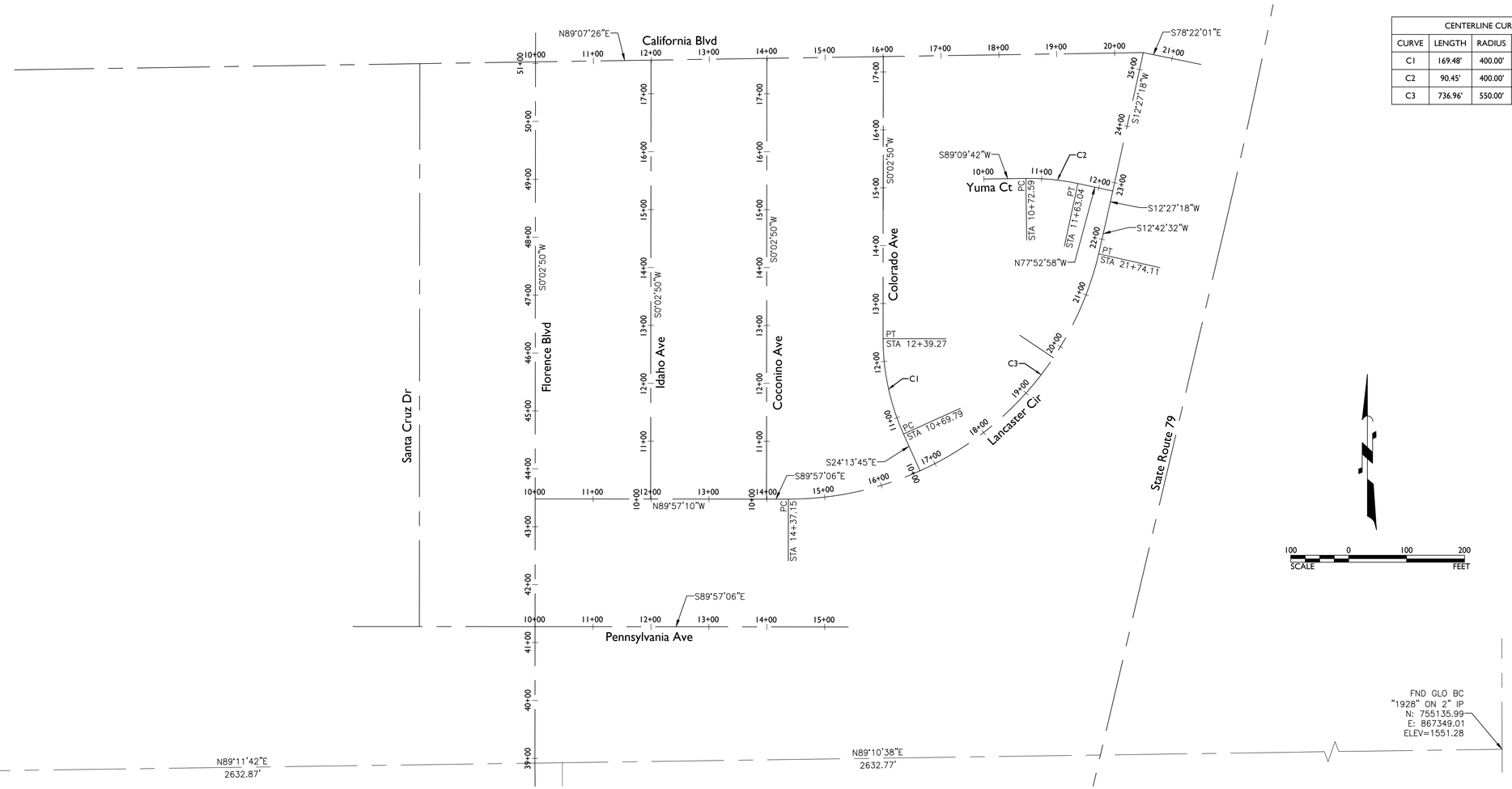
POINT TABLE (CALIFORNIA BLVD)			
TYPE	STATION	NORTHING	EASTING
POB	10+00.00	756308.57	864670.11
AP	20+49.46	756324.61	865719.45
POE	21+51.26	756304.09	865819.16

POINT TABLE (COCONINO AVE)			
TYPE	STATION	NORTHING	EASTING
POB	10+00.00	755553.41	865068.94
POE	17+61.27	756314.67	865069.56

POINT TABLE (IDAHO AVE)			
TYPE	STATION	NORTHING	EASTING
POB	10+00.00	755553.57	864868.92
POE	17+58.04	756311.62	864869.55

POINT TABLE (PENNSYLVANIA)			
TYPE	STATION	NORTHING	EASTING
POB	10+00.00	755333.19	864669.31
POE	15+40.66	755332.73	865209.96

CENTERLINE CURVE TABLE				
CURVE	LENGTH	RADIUS	CHORD	DELTA
C1	169.48'	400.00'	168.22'	024°16'35"
C2	90.45'	400.00'	90.25'	012°57'20"
C3	736.96'	550.00'	683.05'	076°46'20"



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FLORENCE GARDENS
PHASES IV AND V

GEOMETRIC CONTROL SHEET

DESIGNED BY	JDL	TOWN PROJECT NOS. T-08 & T-09
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DRAWING NO. CS05

POINT TABLE (FLORENCE BLVD)			
TYPE	STATION	NORTHING	EASTING
POB	10+00.00	752212.44	864592.98
PC	15+76.51	752788.95	864592.50
PRC	19+87.51	753196.40	864639.34
PT	23+58.10	753563.89	864680.01
AP	29+25.07	754130.86	864676.61
AP	38+91.75	755097.51	864669.12
POE	51+02.81	756308.57	864670.11

POINT TABLE (WASHINGTON ST)			
TYPE	STATION	NORTHING	EASTING
POB	10+00.00	754980.27	864805.05
POE	16+69.26	754984.18	865474.29

POINT TABLE (IDAHO AVE)			
TYPE	STATION	NORTHING	EASTING
POB	10+00.00	754130.86	864676.61
PC	11+78.82	754130.65	864855.43
PT	12+81.32	754195.96	864920.51
POE	20+66.28	754980.92	864916.68

POINT TABLE (COLORADO AVE, NORTH)			
TYPE	STATION	NORTHING	EASTING
POB	10+00.00	753715.76	865090.12
PC	20+07.99	754696.38	865323.43
PT	20+79.15	754766.87	865331.96
POE	22+95.65	754983.36	865333.57

POINT TABLE (ALABAMA CT)			
TYPE	STATION	NORTHING	EASTING
POB	10+00.00	753750.91	864940.87
PC	12+08.90	753703.02	865144.21
POE/PT	12+79.59	753648.91	865177.70

POINT TABLE (COLORADO AVE, MIDDLE)			
TYPE	STATION	NORTHING	EASTING
POB	10+00.00	753370.34	865010.73
PC	10+53.60	753357.98	865062.89
PT	11+24.35	753391.45	865117.07
POE	13+88.85	753648.91	865177.70

POINT TABLE (MISSISSIPPI ST)			
TYPE	STATION	NORTHING	EASTING
POB	10+00.00	753449.52	864676.65
POE	13+43.34	753370.34	865010.73

POINT TABLE (McFARLAND BLVD)			
TYPE	STATION	NORTHING	EASTING
POB	10+00.00	753060.68	864613.34
PC	10+78.65	753059.46	864691.98
PT	11+78.22	753046.50	864790.48
POE	13+18.64	753012.27	864926.66

POINT TABLE (COLORADO AVE, SOUTH)			
TYPE	STATION	NORTHING	EASTING
POB	10+00.00	752461.69	864592.44
PC	11+42.73	752463.17	864735.16
PT	12+49.12	752524.88	864812.22
POE	21+17.57	753370.34	865010.73

CENTERLINE CURVE TABLE				
CURVE	LENGTH	RADIUS	CHORD	DELTA
C4	102.50'	65.00'	92.20'	090°20'55"
C5	71.16'	314.64'	71.00'	012°57'27"
C6	70.69'	45.00'	63.64'	090°00'00"
C7	70.75'	45.00'	63.69'	090°04'59"
C8	370.58'	1584.14'	369.74'	013°24'12"
C9	411.00'	1822.94'	410.13'	012°55'05"
C10	99.56'	431.22'	99.34'	013°13'44"

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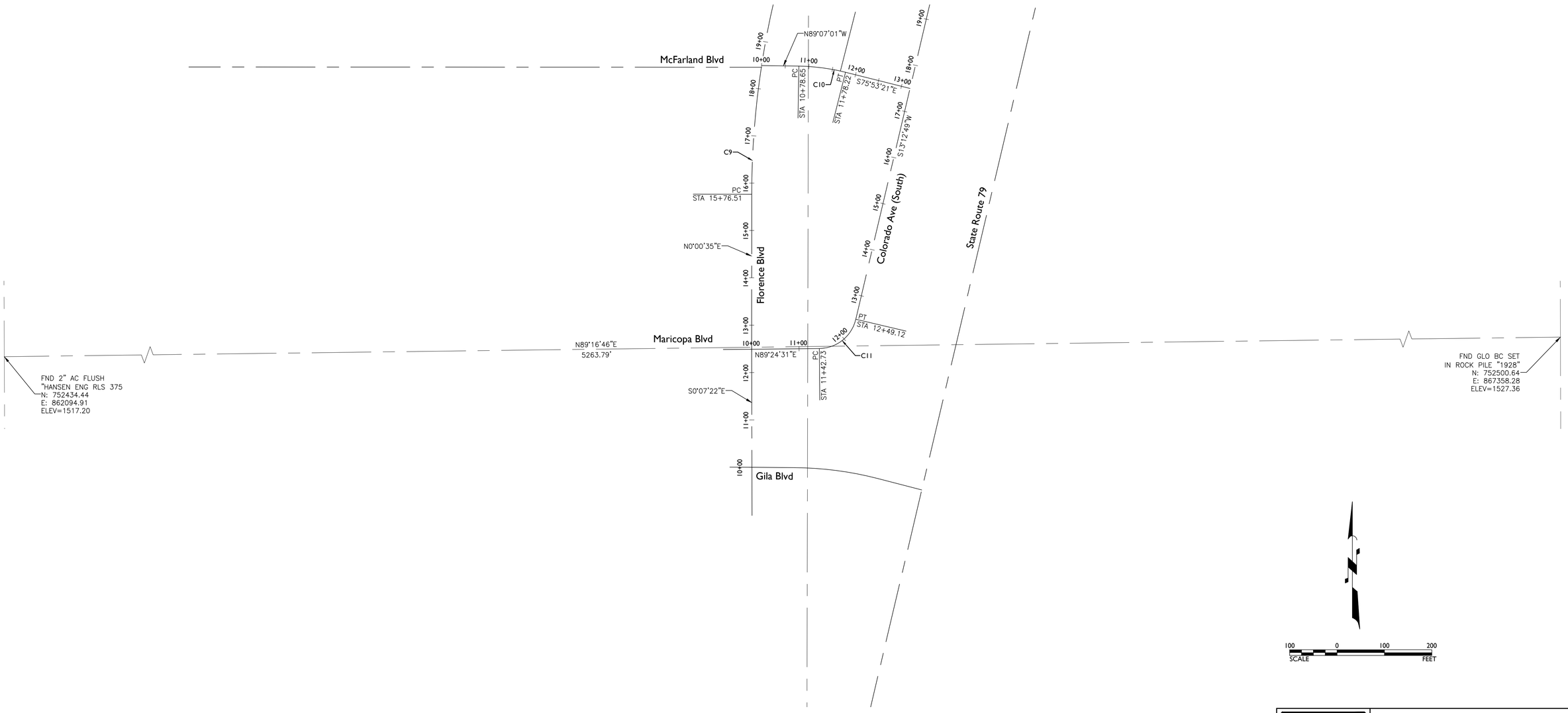
DRAWING NO. CS06

POINT TABLE (FLORENCE BLVD)			
TYPE	STATION	NORTHING	EASTING
POB	10+00.00	752212.44	864592.98
PC	15+76.51	752788.95	864592.50
PRC	19+87.51	753196.40	864639.34
PT	23+58.10	753563.89	864680.01
AP	29+25.07	754130.86	864676.61
AP	38+91.75	755097.51	864669.12
POE	51+02.81	756308.57	864670.11

POINT TABLE (COLORADO AVE, SOUTH)			
TYPE	STATION	NORTHING	EASTING
POB	10+00.00	752461.69	864592.44
PC	11+42.73	752463.17	864735.16
PT	12+49.12	752524.88	864812.22
POE	21+17.57	753370.34	865010.73

CENTERLINE CURVE TABLE				
CURVE	LENGTH	RADIUS	CHORD	DELTA
C9	411.00'	1822.94'	410.13'	012°55'05"
C10	99.56'	431.22'	99.34'	013°13'44"
C11	106.39'	80.00'	98.72'	076°11'42"



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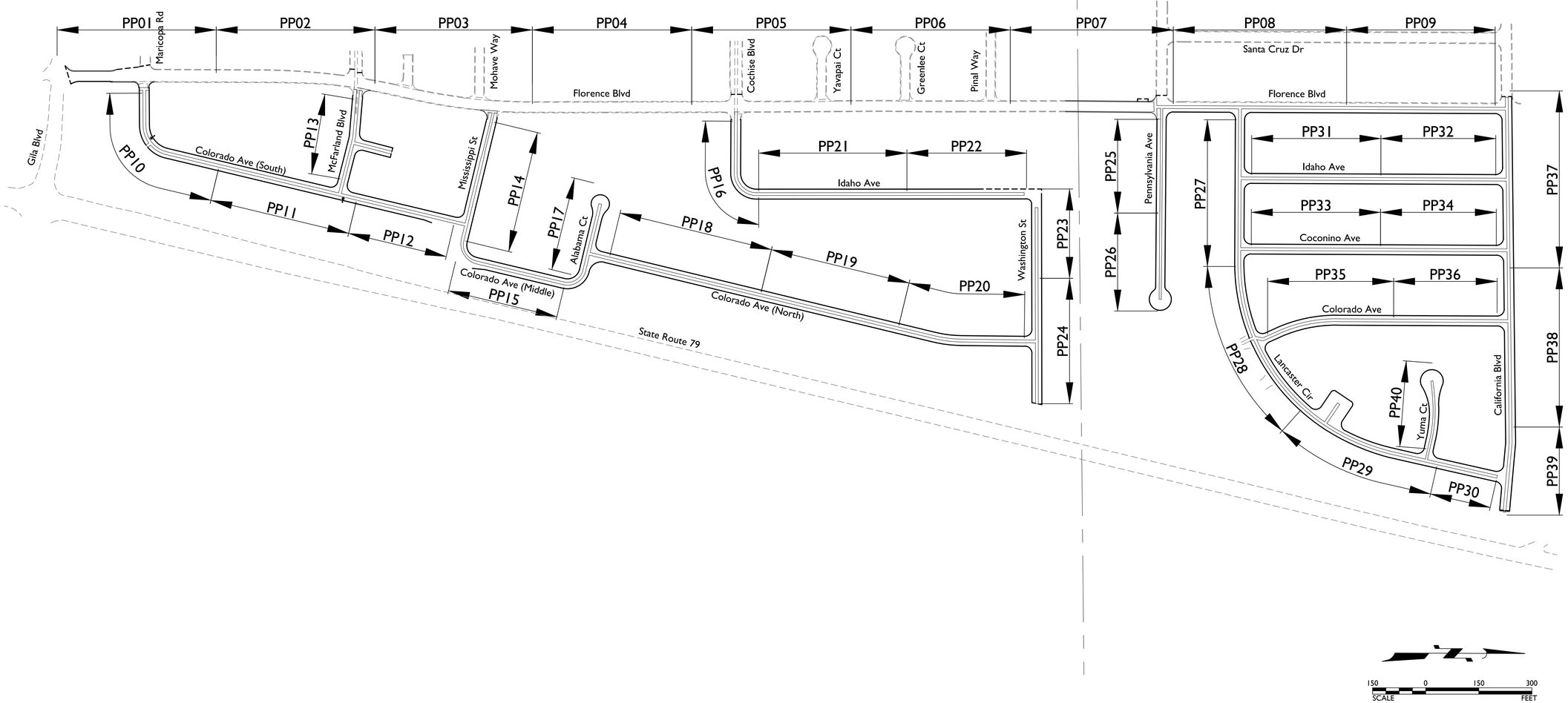

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INDEX SHEET

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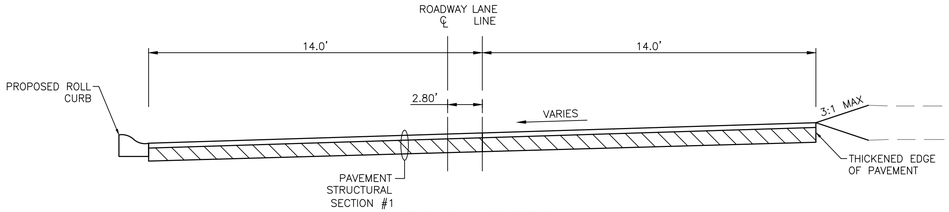
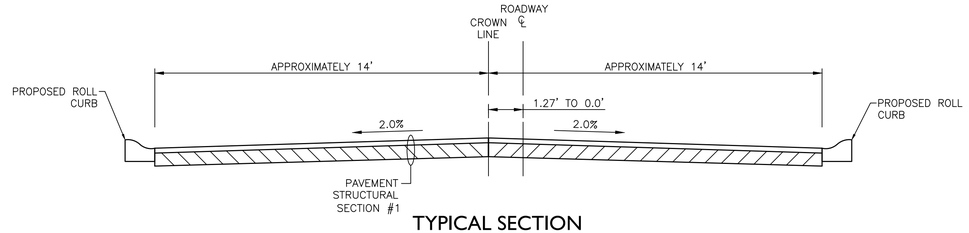
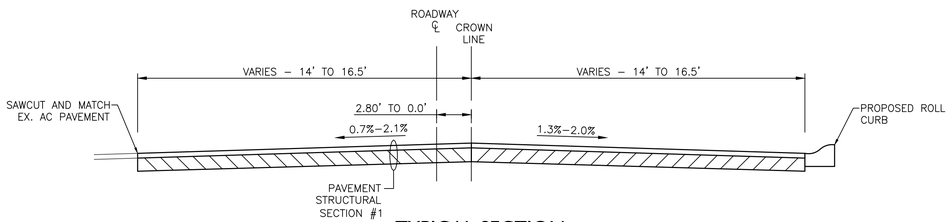
DRAWING NO.	CS08	SHEET 8 OF 51



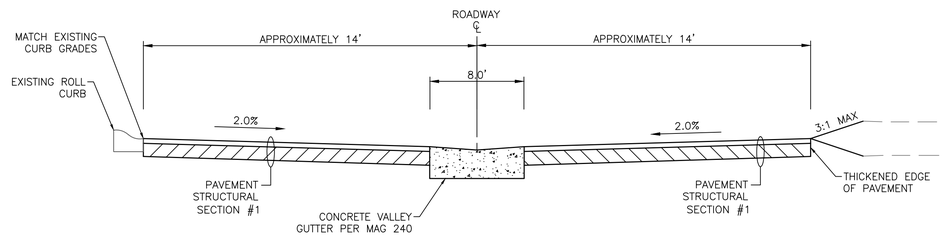
TYPICAL SECTION
NTS
FLORENCE BLVD STA 10+48.62 TO STA 11+56.38



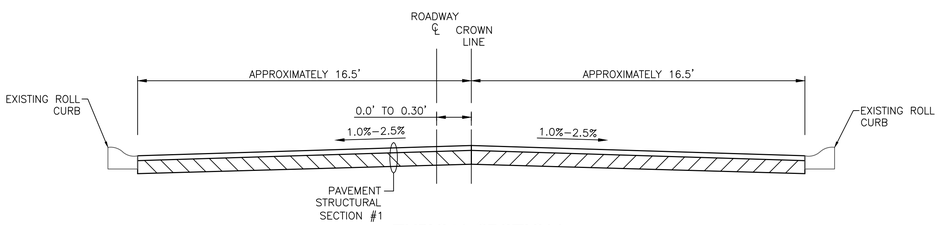
TYPICAL SECTION
NTS
FLORENCE BLVD STA 38+56.26 TO STA 40+94.54



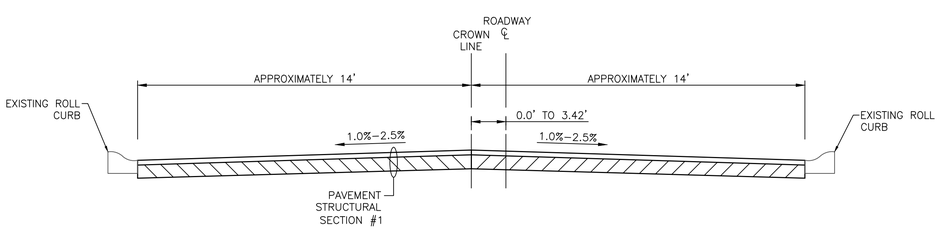
TYPICAL SECTION
NTS
FLORENCE BLVD STA 11+56.38 TO STA 12+80.10



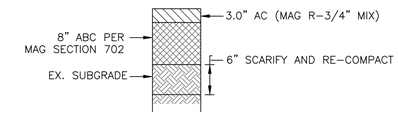
TYPICAL SECTION
NTS
FLORENCE BLVD STA 41+60.18 TO STA 50+69.90



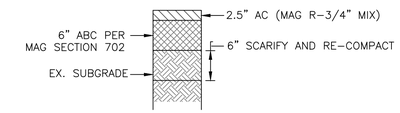
TYPICAL SECTION
NTS
FLORENCE BLVD STA 12+80.10 TO STA 15+87.70



TYPICAL SECTION
NTS
FLORENCE BLVD STA 15+87.70 TO STA 38+56.26



PAVEMENT STRUCTURAL SECTION #1
NTS



PAVEMENT STRUCTURAL SECTION #2
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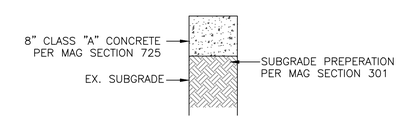

PAVEMENT STRUCTURAL SECTION #3
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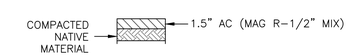

PAVEMENT STRUCTURAL SECTION #4
NTS

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CERTIFICATE NO. 49457
JONATHAN D. LASSUY
Date Signed 09/14/17
ARIZONA U.S.A.
Expires 3/31/2018

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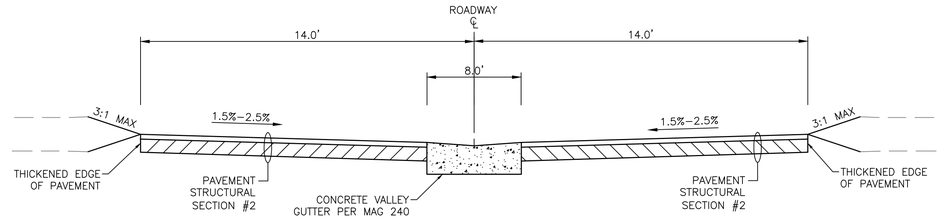
FLORENCE GARDENS
PHASES IV AND V

DETAIL SHEET

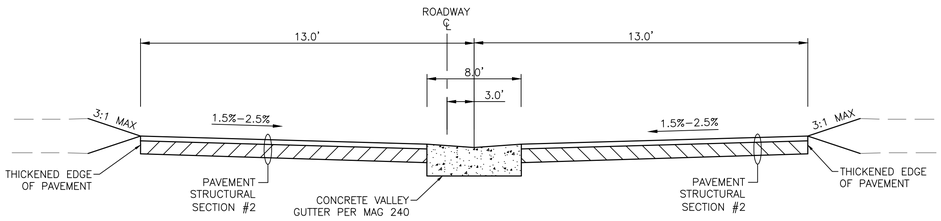
DESIGNED BY	JDL	TOWN PROJECT NOS. T–08 & T–09
DRAWN BY	RW	
DRAWING NO.	DT01	SHEET 9 OF 51



TYPICAL SECTION

NTS

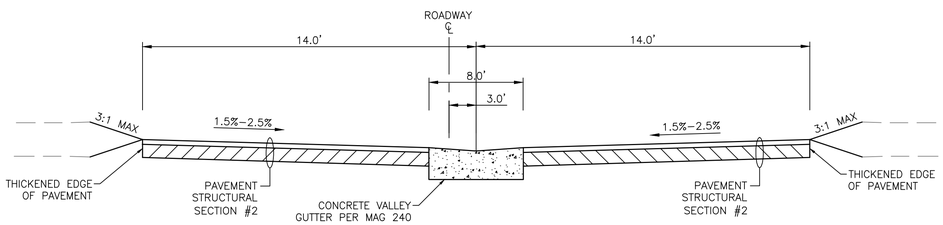
COLORADO AVE, MCFARLAND BLVD, MISSISSIPPI ST (STA 11+00.00 TO STA 13+43.34), ALABAMA CT, IDAHO AVE (SOUTH), WASHINGTON ST, CALIFORNIA AVE, LANCASTER CIR (STA 21+74.11 TO STA 24+89.82)



TYPICAL SECTION

NTS

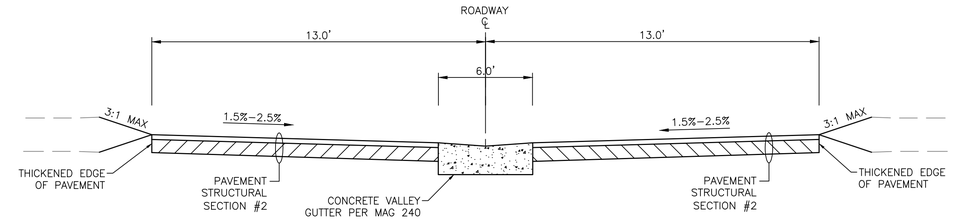
LANCASTER CIR STA 10+34.00 TO STA 19+77.27



TYPICAL SECTION

NTS

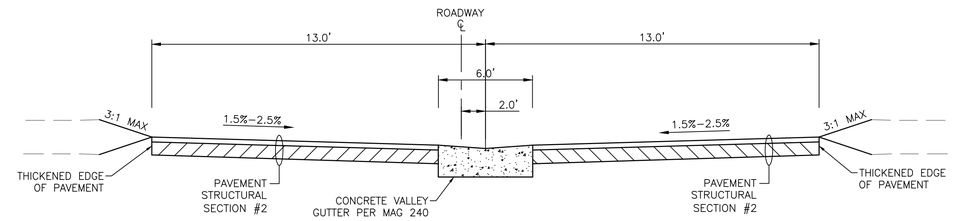
IDAHO AVE (NORTH), COCONINO AVE



TYPICAL SECTION

NTS

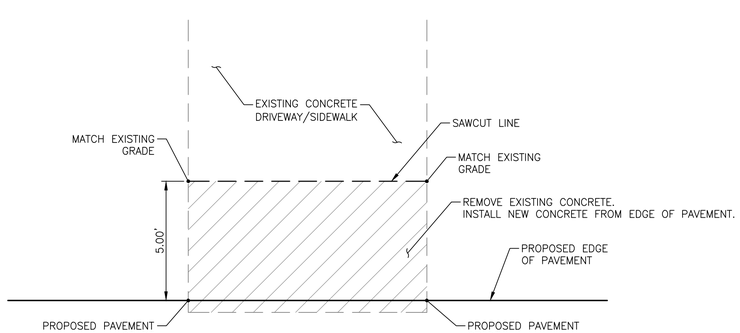
PENNSYLVANIA AVE, MISSISSIPPI AVE (STA 10+17.65 TO STA 11+00.00)



TYPICAL SECTION

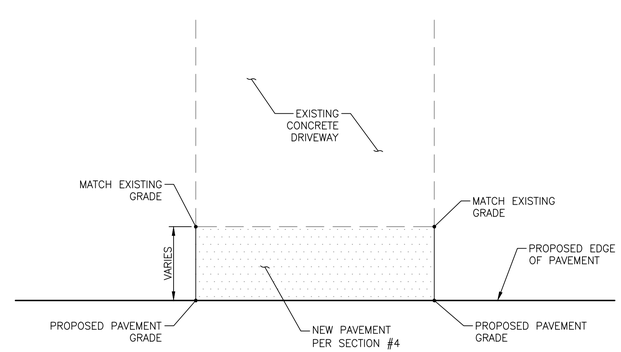
NTS

YUMA CT



DRIVEWAY/SIDEWALK MODIFICATION DETAIL

NTS



NEW PAVEMENT AT EXISTING DRIVEWAY DETAIL

NTS

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Expires 3/31/2018

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PHASES IV AND V

DETAIL SHEET

DESIGNED BY	JDL	TOWN PROJECT NOS. T–08 & T–09
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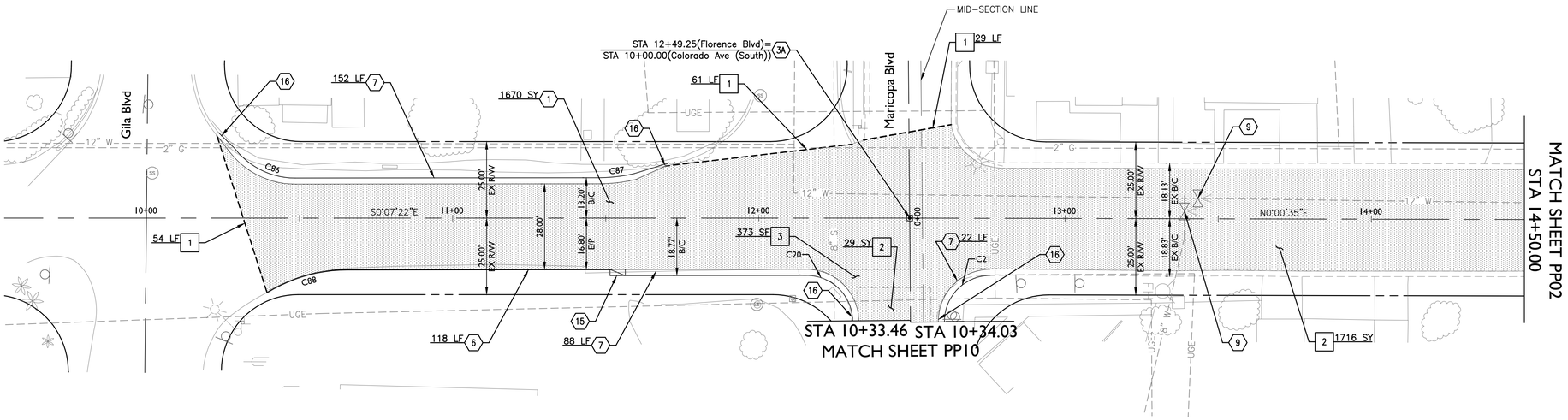
DRAWING NO.	DT02	SHEET 10 OF 51

CONSTRUCTION NOTES

1	3.0" AC Pavement over 8" ABC per Structural Section #1	1670 SY
3A	Survey Marker per MAG Detail 120-1 Type "A"	1 EA
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	118 LF
7	4" Roll Curb and Gutter per MAG Detail 220-1, Type "C"	262 LF
9	Adjust Valve Box and Cover to Grade per MAG Detail 391-1 Type "C"	2 EA
15	Curb Termination per MAG Detail 222	1 EA
16	5' Transition: 4" Roll Curb to Ribbon Curb	4 EA
1	Sawcut AC Pavement	144 LF
2	Remove Pavement Section	1745 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	373 SF



CURVE TABLE AT BACK OF CURB				
CURVE	LENGTH	RADIUS	CHORD	DELTA
C20	23.45'	15.00'	21.14'	089°35'28"
C21	23.61'	15.00'	21.25'	090°11'08"
C86	22.77'	25.00'	21.99'	052°10'30"
C87	11.73'	50.00'	11.70'	013°26'29"

CURVE TABLE AT EDGE OF PAVEMENT				
CURVE	LENGTH	RADIUS	CHORD	DELTA
C88	27.59'	50.00'	27.24'	031°37'04"

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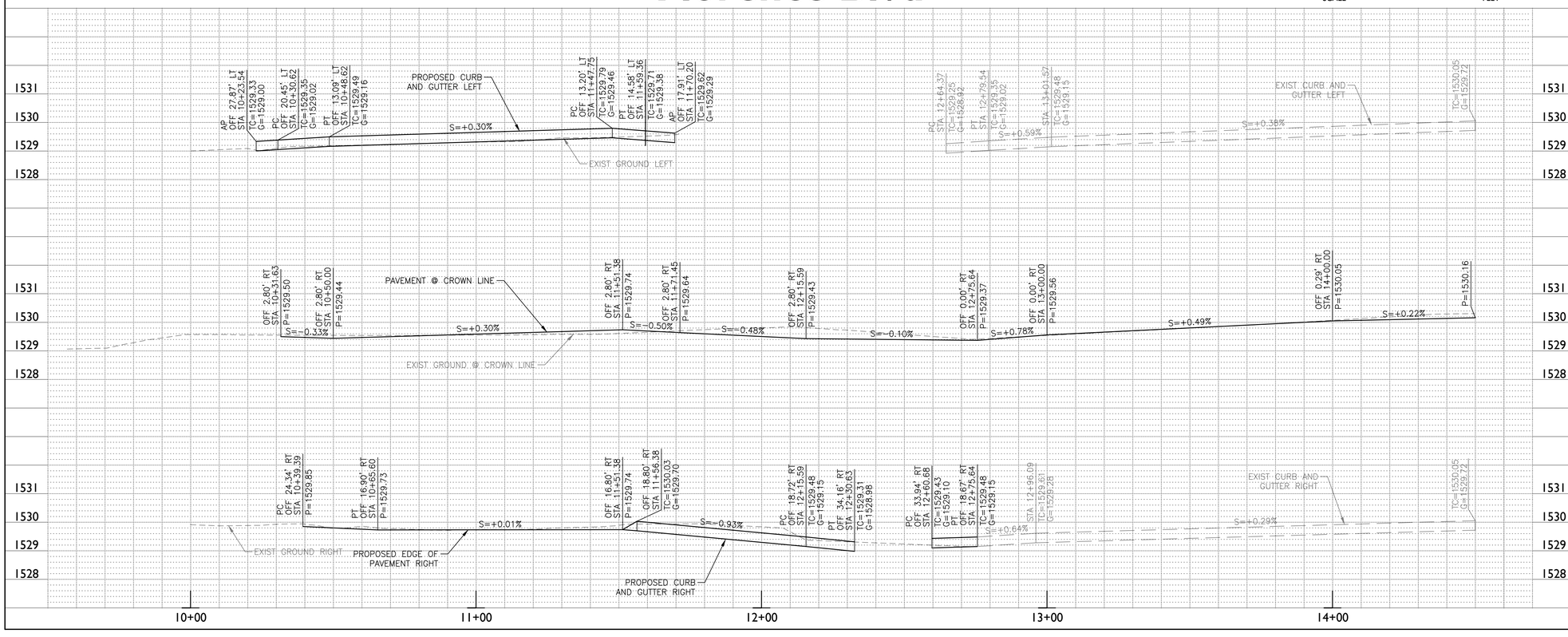
SCALE 20 0 20 40 FEET



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PAVEMENT REPLACEMENT SHEET

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DRAWING NO.	PP01	SHEET 11 OF 51

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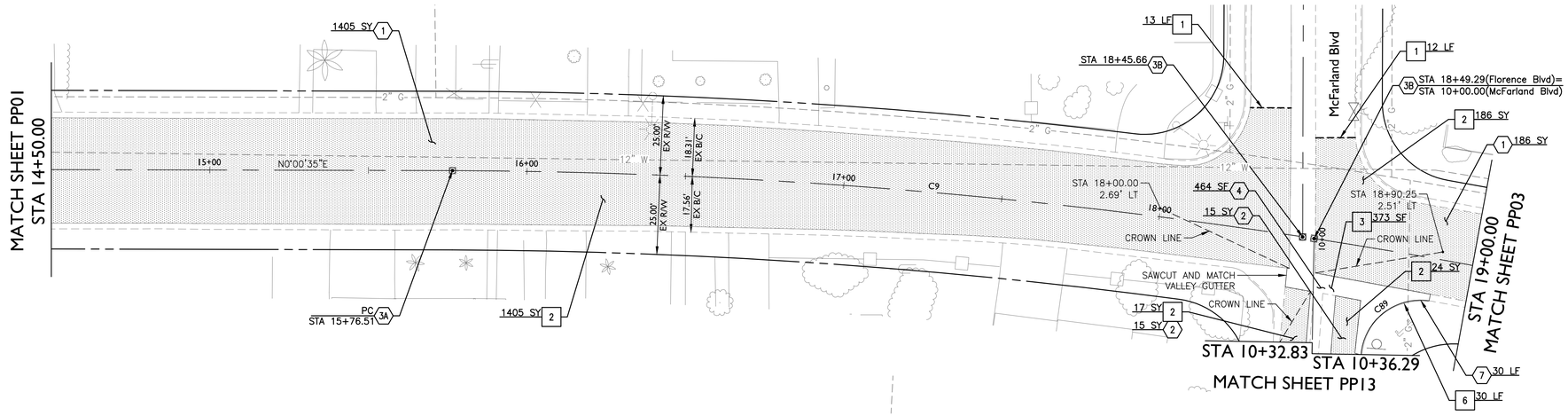

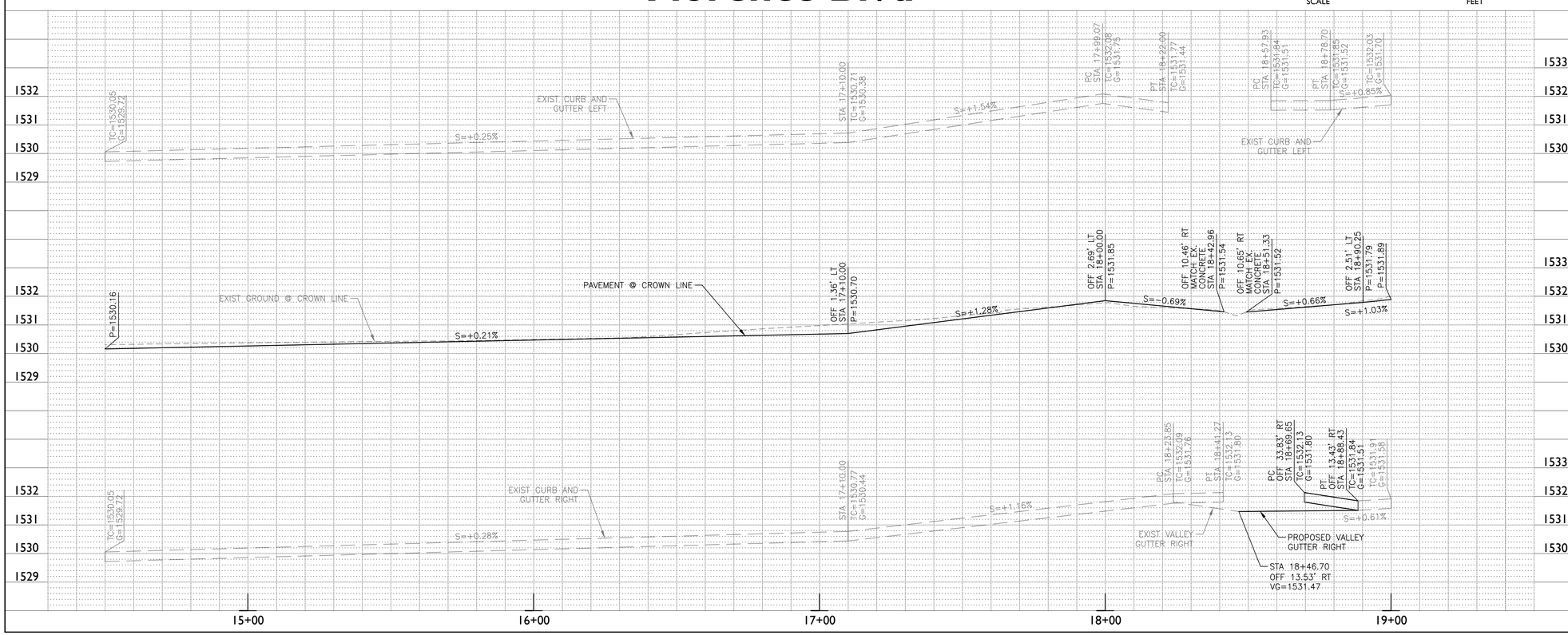

SCALE 20 0 20 40 FEET

CONSTRUCTION NOTES

1	3.0" AC Pavement over 8" ABC per Structural Section #1	1591 SY
2	2.5" AC Pavement over 6" ABC per Structural Section #2	30 SY
3A	Survey Marker per MAG Detail 120-1 Type "A"	1 EA
3B	Survey Marker per MAG Detail 120-1 Type "B"	2 EA
4	Valley Gutter per MAG Detail 240	464 SF
7	4" Roll Curb and Gutter per MAG Detail 220-1, Type "C"	30 LF
1	Sawcut AC Pavement	25 LF
2	Remove Pavement Section	1632 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	373 SF
6	Remove Concrete Curb and Gutter	30 LF

CURVE TABLE AT CENTERLINE				
CURVE	LENGTH	RADIUS	CHORD	DELTA
C9	411.00'	1822.94'	410.13'	012°55'05"

CURVE TABLE AT BACK OF CURB				
CURVE	LENGTH	RADIUS	CHORD	DELTA
C89	30.75'	18.74'	27.42'	094°01'36"

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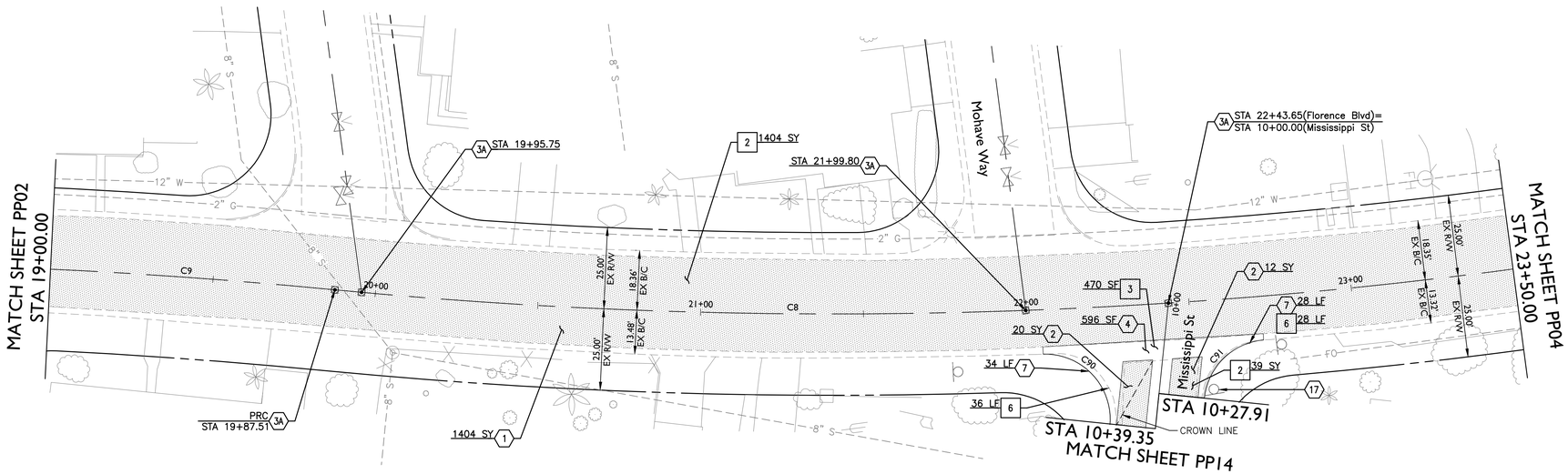
PAVEMENT REPLACEMENT SHEET

DESIGNED BY	JDL	TOWN PROJECT NOS. T-08 & T-09
DRAWN BY	RW	
DRAWING NO.	PP02	SHEET 12 OF 51



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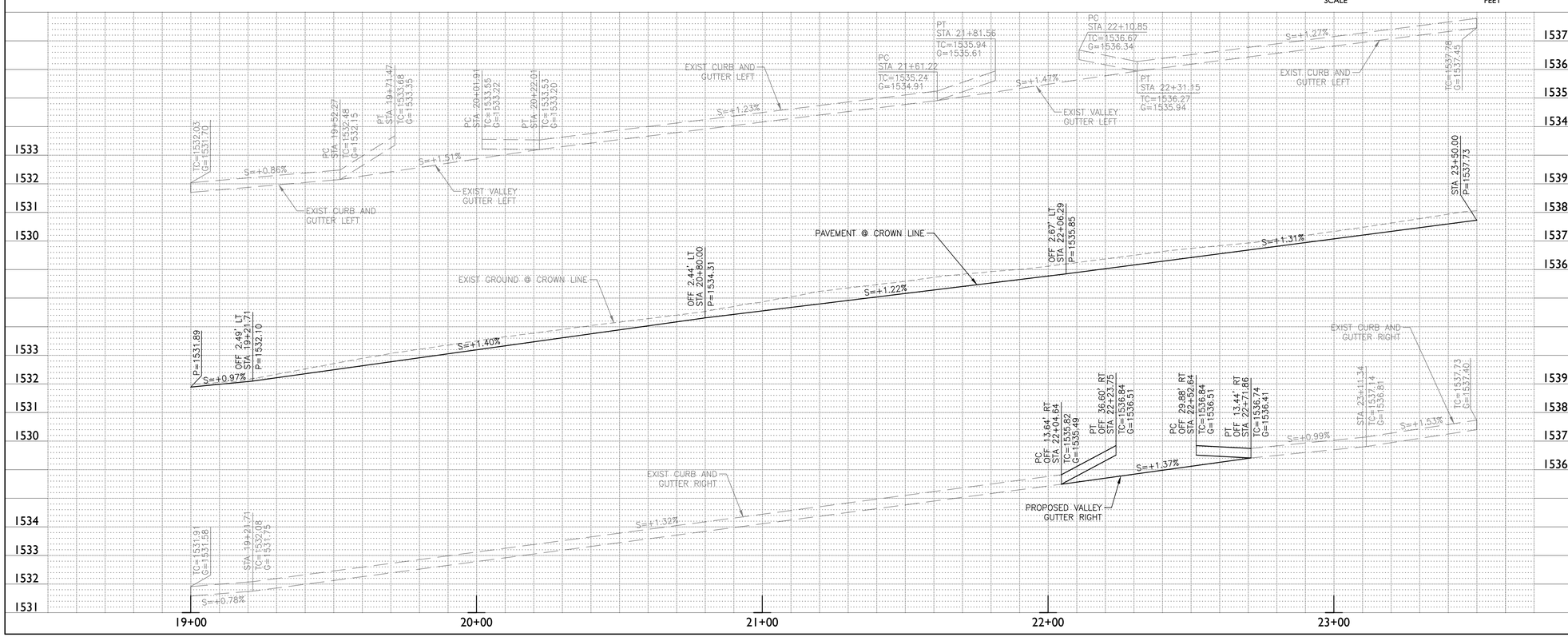

CONSTRUCTION NOTES

1	3.0" AC Pavement over 8" ABC per Structural Section #1	1404 SY
2	2.5" AC Pavement over 6" ABC per Structural Section #2	32 SY
3A	Survey Marker per MAG Detail 120-1 Type "A"	4 EA
4	Valley Gutter per MAG Detail 240	596 SF
7	4" Roll Curb and Gutter per MAG Detail 220-1, Type "C"	62 LF
17	Remove and Reset Existing Street Sign	1 EA
2	Remove Pavement Section	1443 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	470 SF
6	Remove Concrete Curb and Gutter	64 LF

SCALE 20 0 20 40 FEET

CURVE TABLE AT CENTERLINE

CURVE	LENGTH	RADIUS	CHORD	DELTA
C8	370.58'	1584.14'	369.74'	013°24'12"
C9	411.00'	1822.94'	410.13'	012°55'05"

CURVE TABLE AT BACK OF CURB

CURVE	LENGTH	RADIUS	CHORD	DELTA
C90	34.03'	20.00'	30.07'	097°29'22"
C91	27.64'	20.00'	25.49'	079°11'06"

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PAVEMENT REPLACEMENT SHEET

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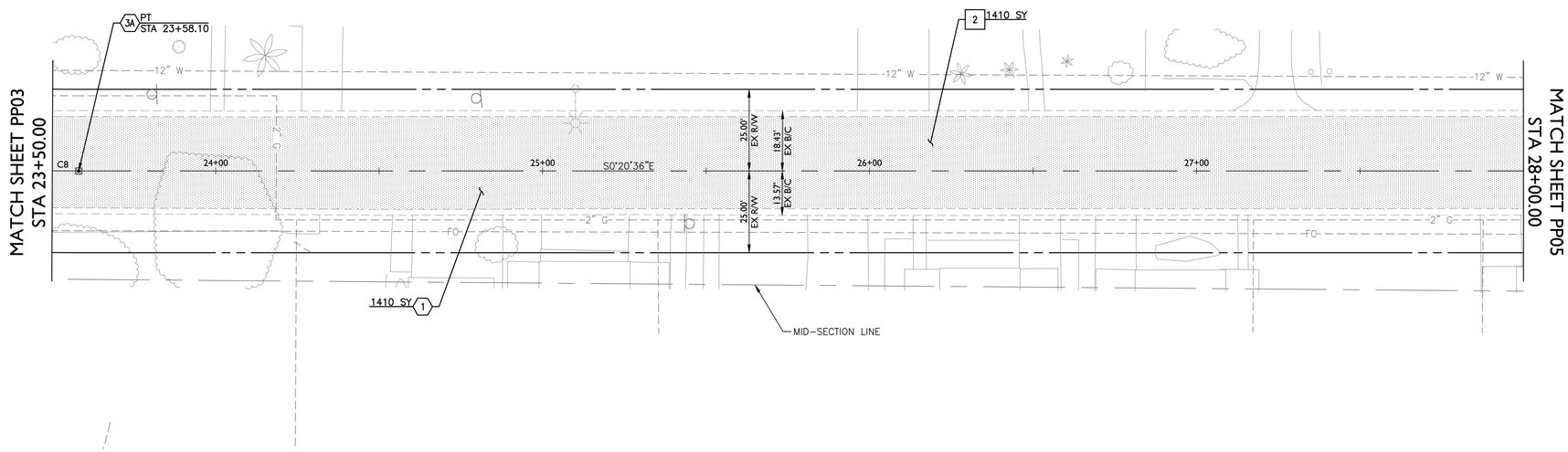
DRAWING NO.	PP03	SHEET 13 OF 51

CONSTRUCTION NOTES

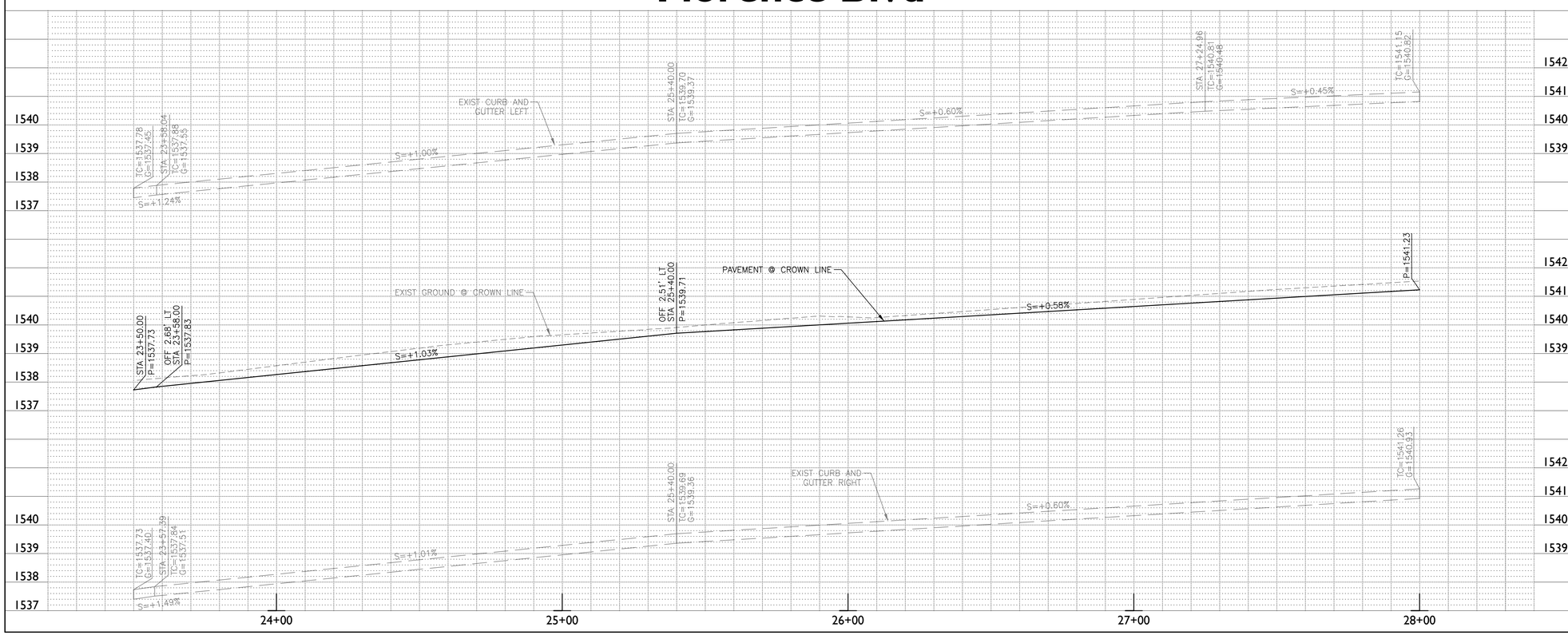
1	3.0" AC Pavement over 8" ABC per Structural Section #1	1410 SY
3A	Survey Marker per MAG Detail 120-1 Type "A"	1 EA
2	Remove Pavement Section	1410 SY



CURVE TABLE AT CENTERLINE				
CURVE	LENGTH	RADIUS	CHORD	DELTA
C8	370.58'	1584.14'	369.74'	013°24'12"

Florence Blvd

20 0 20 40
SCALE FEET



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PHASES IV AND V

PAVEMENT REPLACEMENT SHEET

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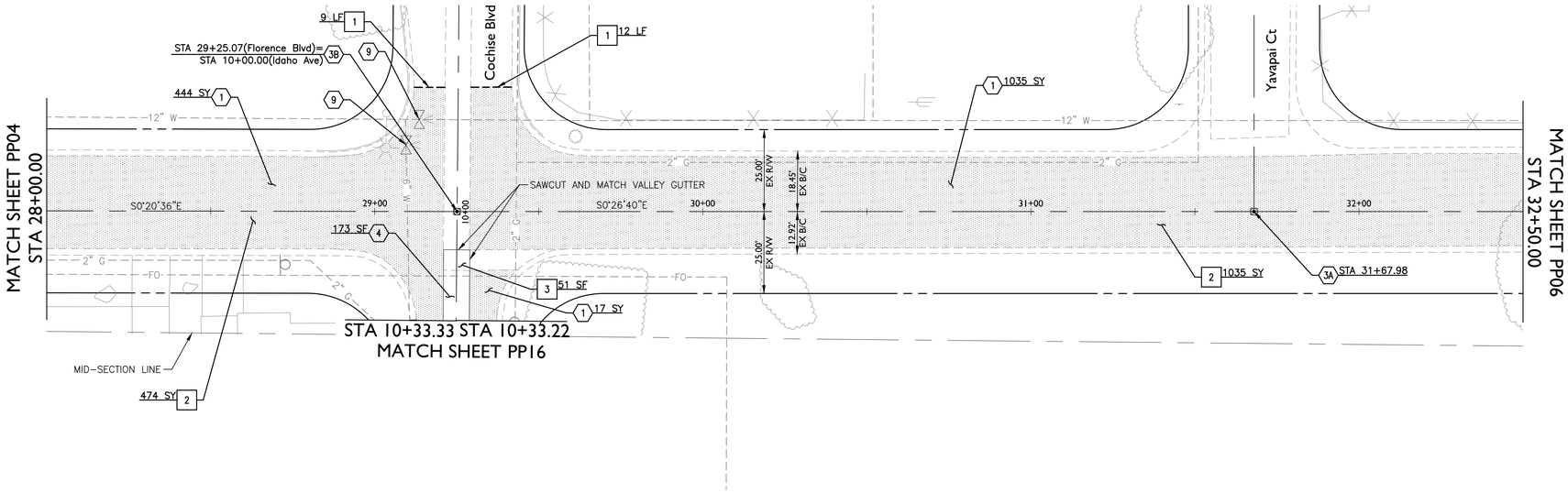
DRAWING NO.	PP04	SHEET 14 OF 51



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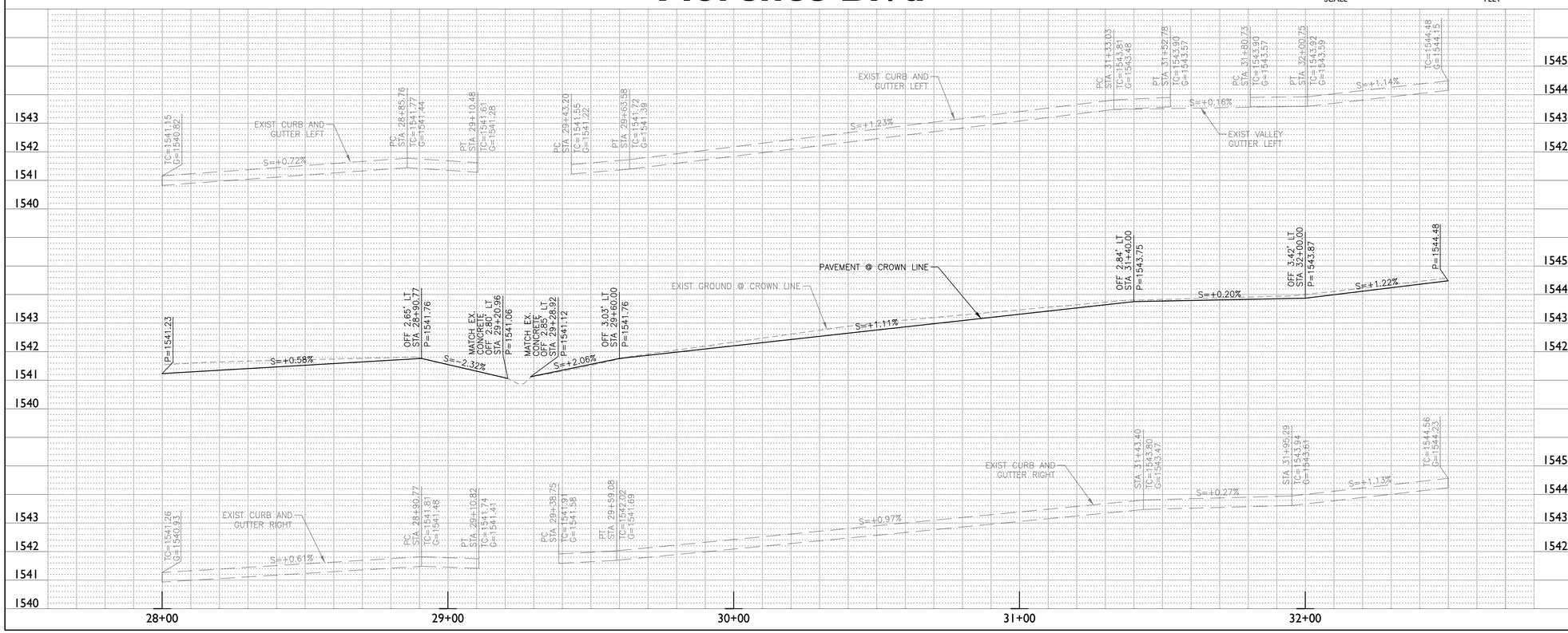

CONSTRUCTION NOTES

1	3.0" AC Pavement over 8" ABC per Structural Section #1	1496 SY
3A	Survey Marker per MAG Detail 120-1 Type "A"	1 EA
3B	Survey Marker per MAG Detail 120-1 Type "B"	1 EA
4	Valley Gutter per MAG Detail 240	173 SF
9	Adjust Valve Box and Cover to Grade per MAG Detail 391-1 Type "C"	2 EA
1	Sawcut AC Pavement	21 LF
2	Remove Pavement Section	1509 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	51 SF

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PAVEMENT REPLACEMENT SHEET

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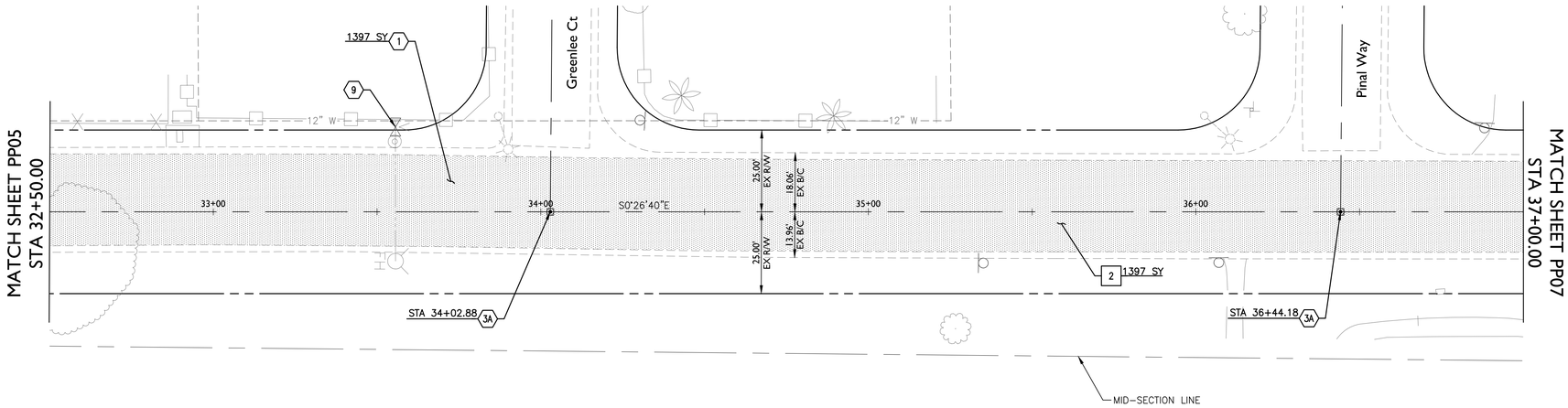
DRAWING NO.	PP05	SHEET 15 OF 51

CONSTRUCTION NOTES

1	3.0" AC Pavement over 8" ABC per Structural Section #1	1397 SY
3A	Survey Marker per MAG Detail 120-1 Type "A"	2 EA
9	Adjust Valve Box and Cover to Grade per MAG Detail 391-1 Type "C"	1 EA
2	Remove Pavement Section	1397 SY



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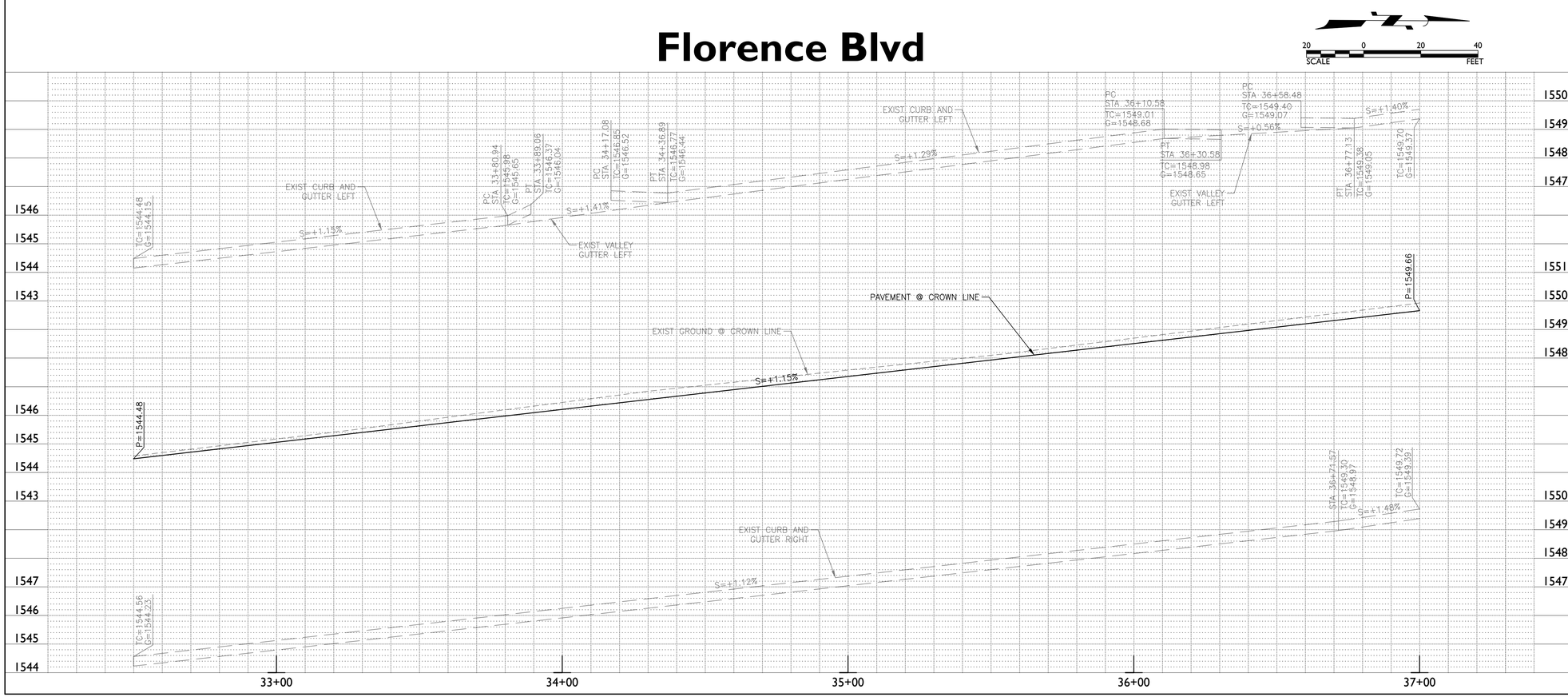

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PAVEMENT REPLACEMENT SHEET

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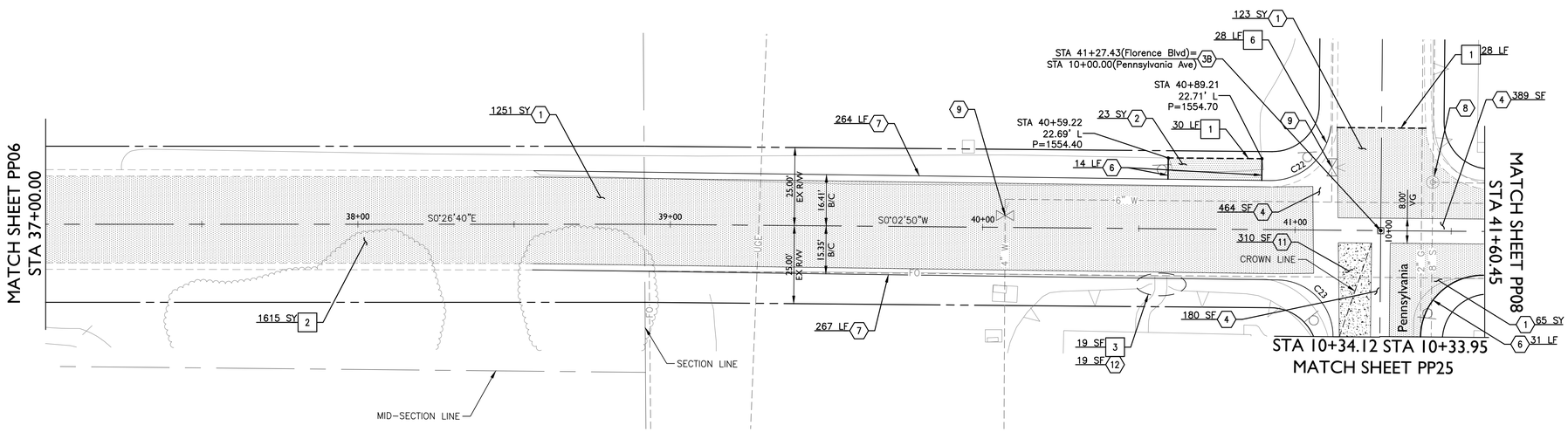

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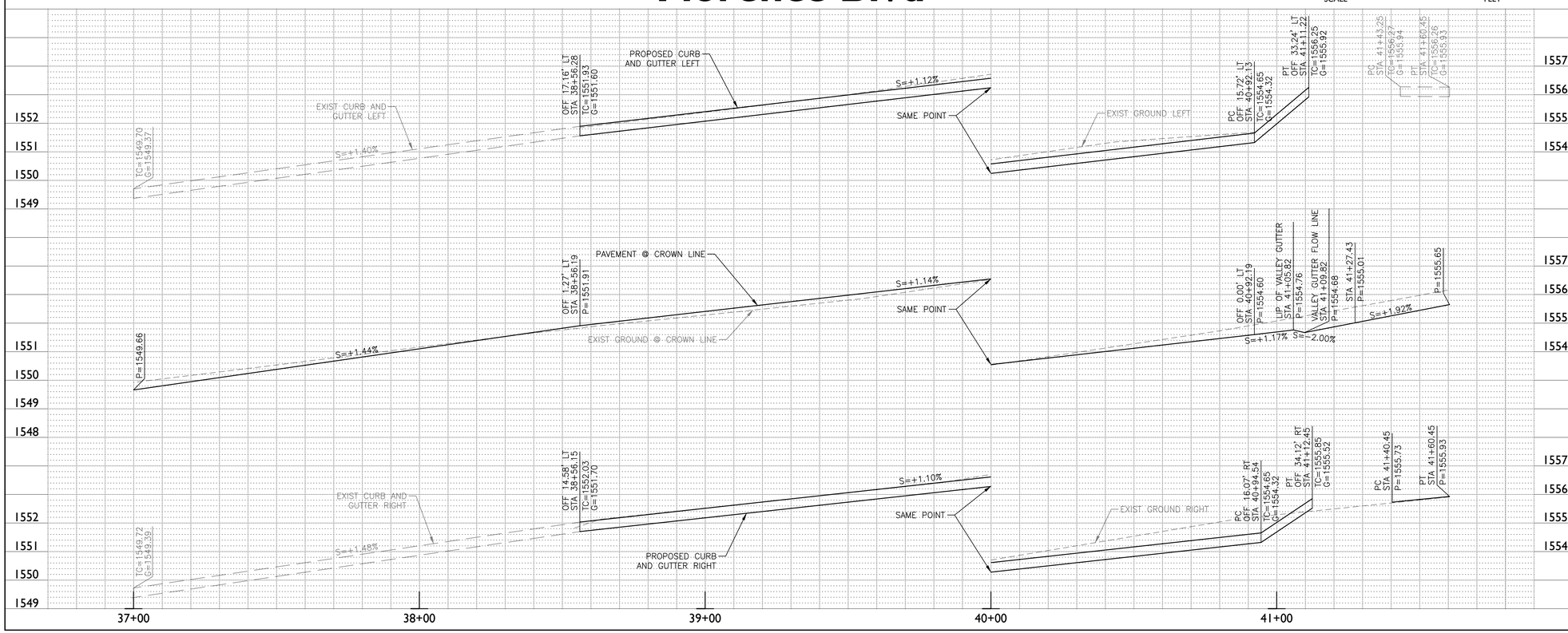

CONSTRUCTION NOTES

1	3.0" AC Pavement over 8" ABC per Structural Section #1	1439 SY
2	2.5" AC Pavement over 6" ABC per Structural Section #2	23 SY
3B	Survey Marker per MAG Detail 120-1 Type "B"	1 EA
4	Valley Gutter per MAG Detail 240	1033 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	45 LF
7	4" Roll Curb and Gutter per MAG Detail 220-1, Type "C"	531 LF
8	Adjust Manhole to Grade per MAG Detail 422	1 EA
9	Adjust Valve Box and Cover to Grade per MAG Detail 391-1 Type "C"	2 EA
11	8" Thick Concrete per Structural Section #3	310 SF
12	Sidewalk per MAG Detail 230 (See Sheet DT02)	19 SF
1	Sawcut AC Pavement	58 LF
2	Remove Pavement Section	1615 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	19 SF
6	Remove Concrete Curb and Gutter	28 LF

CURVE TABLE AT BACK OF CURB

CURVE	LENGTH	RADIUS	CHORD	DELTA
C22	28.39'	19.36'	25.92'	084°02'03"
C23	28.24'	18.00'	25.43'	089°52'36"

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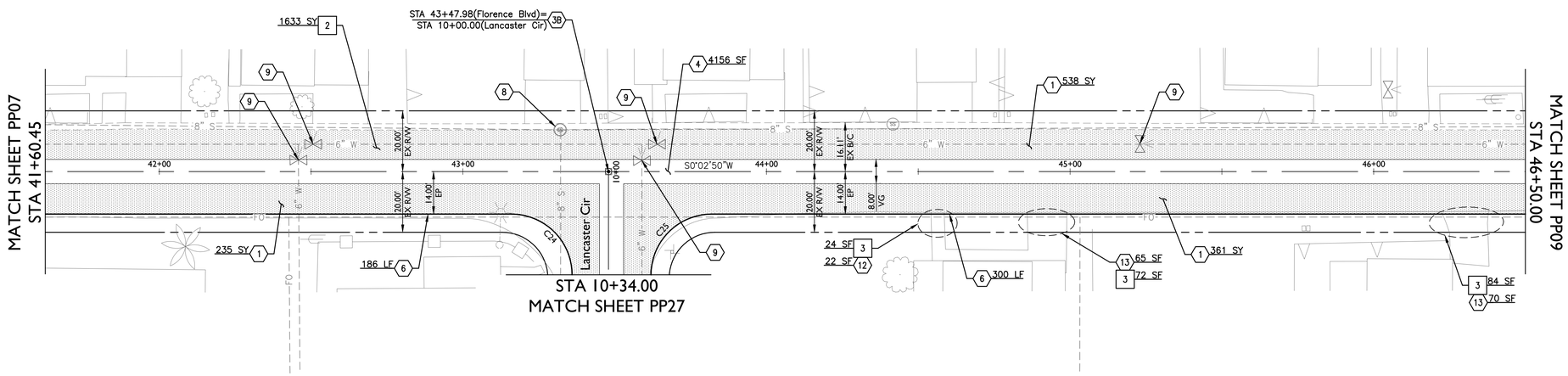
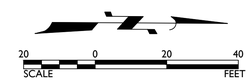
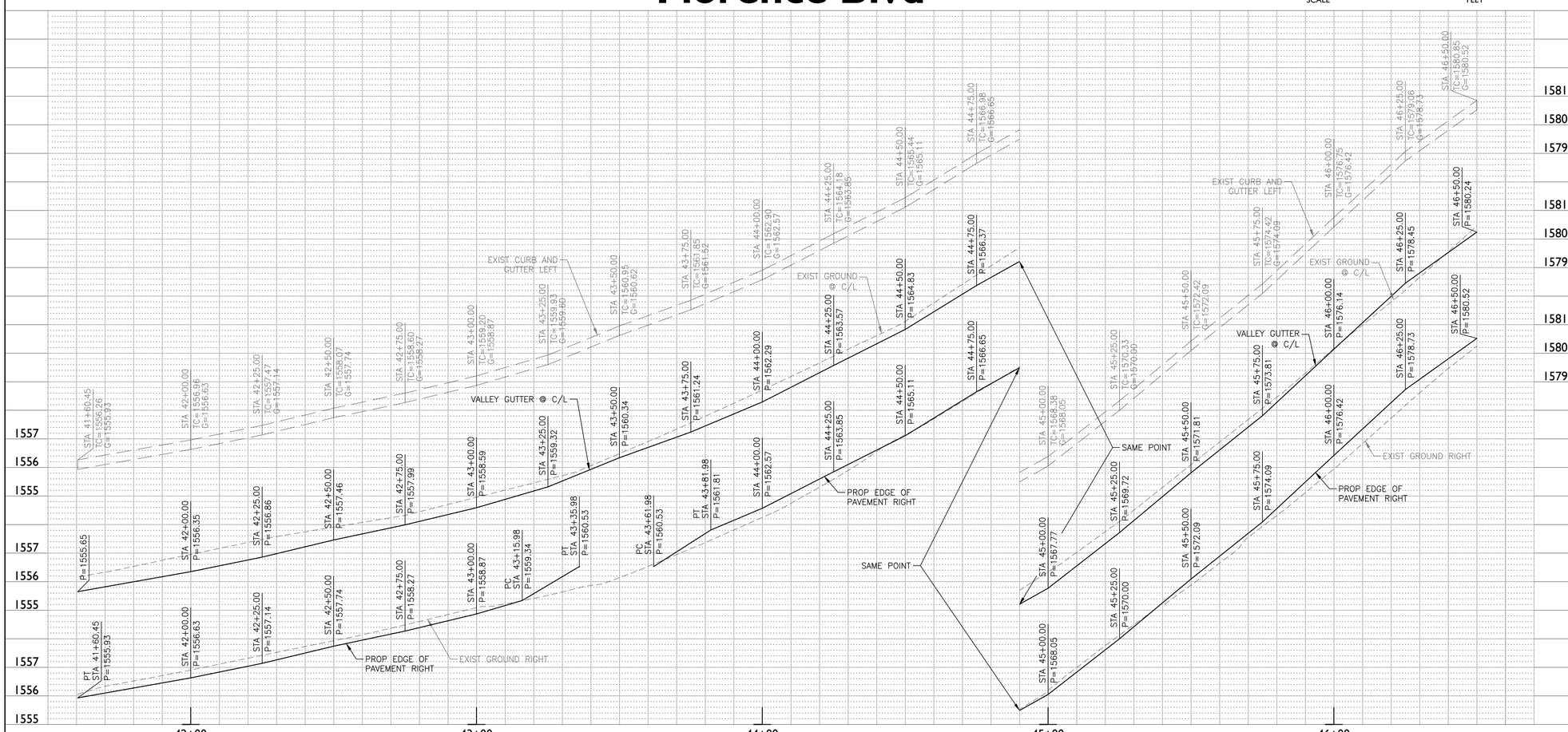
DRAWN BY	RW	
DRAWING NO.	PP07	SHEET 17 OF 51



Florence Blvd





CONSTRUCTION NOTES

1	3.0" AC Pavement over 8" ABC per Structural Section #1	1134 SY
3B	Survey Marker per MAG Detail 120-1 Type "B"	1 EA
4	Valley Gutter per MAG Detail 240	4156 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	486 LF
8	Adjust Manhole to Grade per MAG Detail 422	1 EA
9	Adjust Valve Box and Cover to Grade per MAG Detail 391-1 Type "C"	5 EA
12	Sidewalk per MAG Detail 230 (See Sheet DT02)	22 SF
13	5" Thick Concrete Driveway per MAG Detail 250 (See Sheet DT02)	135 SF
2	Remove Pavement Section	1633 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	180 SF

CURVE TABLE AT EDGE OF PAVEMENT				
CURVE	LENGTH	RADIUS	CHORD	DELTA
C24	31.42'	20.00'	28.28'	090°00'01"
C25	31.42'	20.00'	28.28'	089°59'59"

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CERTIFICATE NO. 49457
JONATHAN D. LASSUY
Date Signed 03/16/17
Expires 3/31/2018

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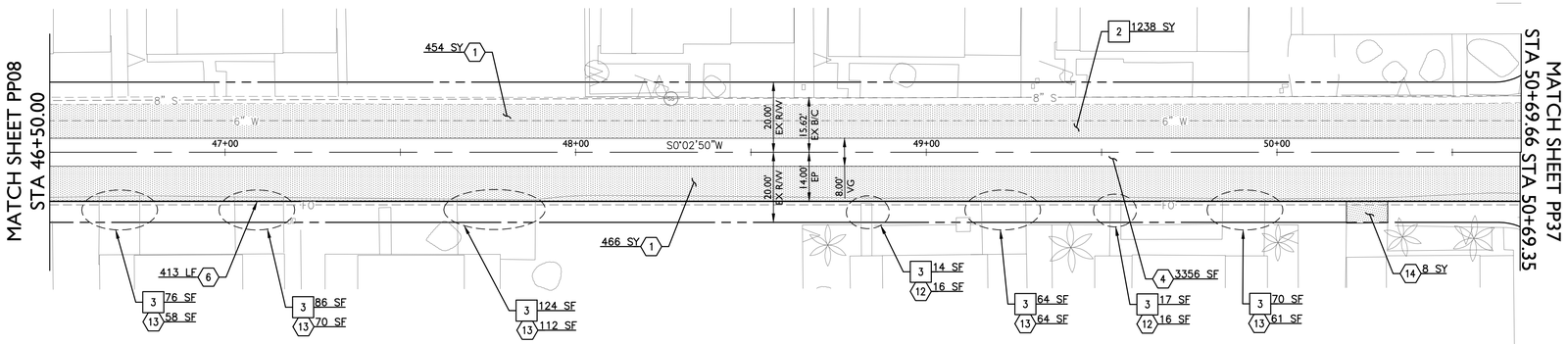
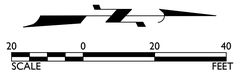
FLORENCE GARDENS
PHASES IV AND V

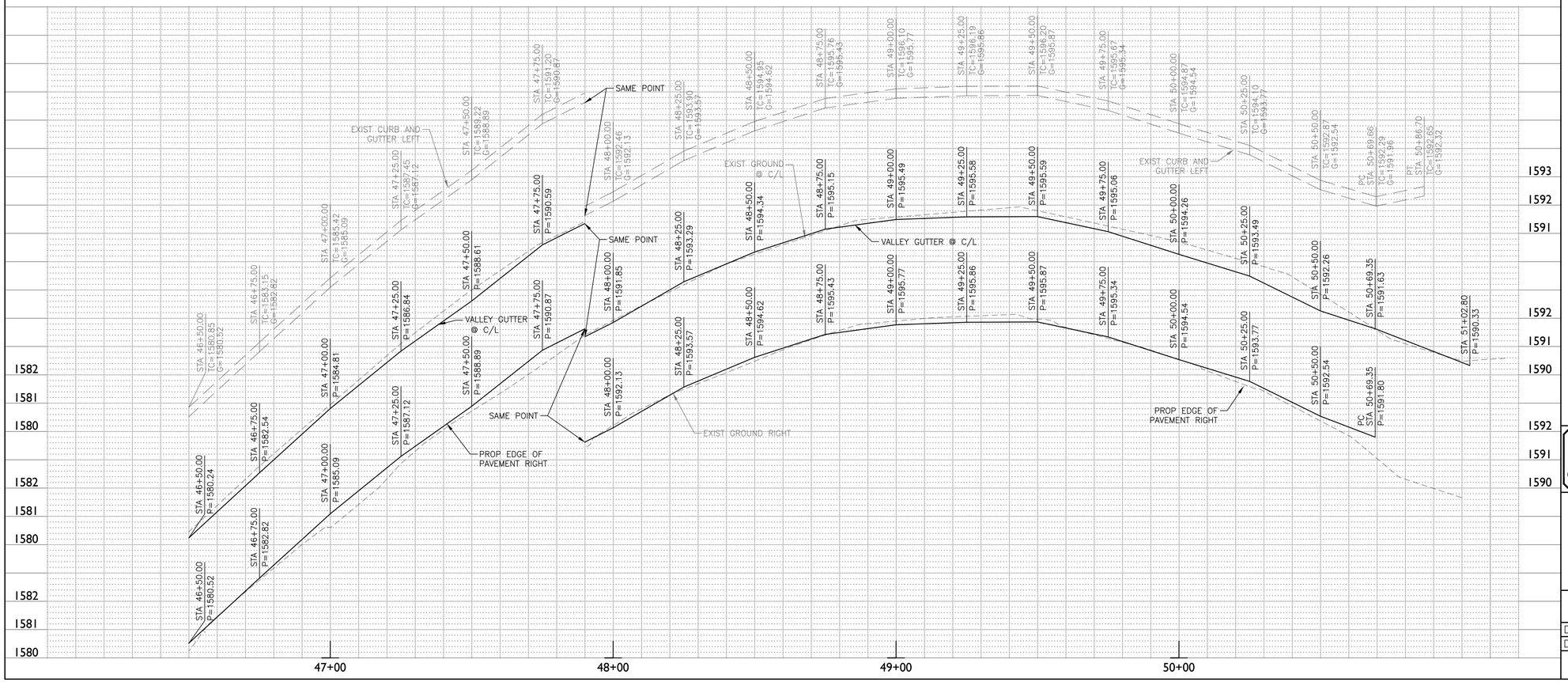
PAVEMENT REPLACEMENT SHEET

DESIGNED BY	JDL	TOWN PROJECT NOS. T-08 & T-09
DRAWN BY	RW	
DRAWING NO.	PP08	SHEET 18 OF 51



Florence Blvd





CONSTRUCTION NOTES

1	3.0" AC Pavement over 8" ABC per Structural Section #1	920 SY
4	Valley Gutter per MAG Detail 240	3356 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	413 LF
12	Sidewalk per MAG Detail 230 (See Sheet DT02)	32 SF
13	5" Thick Concrete Driveway per MAG Detail 250 (See Sheet DT02)	365 SF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	8 SY
2	Remove Pavement Section	1238 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	451 SF

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PAVEMENT REPLACEMENT SHEET

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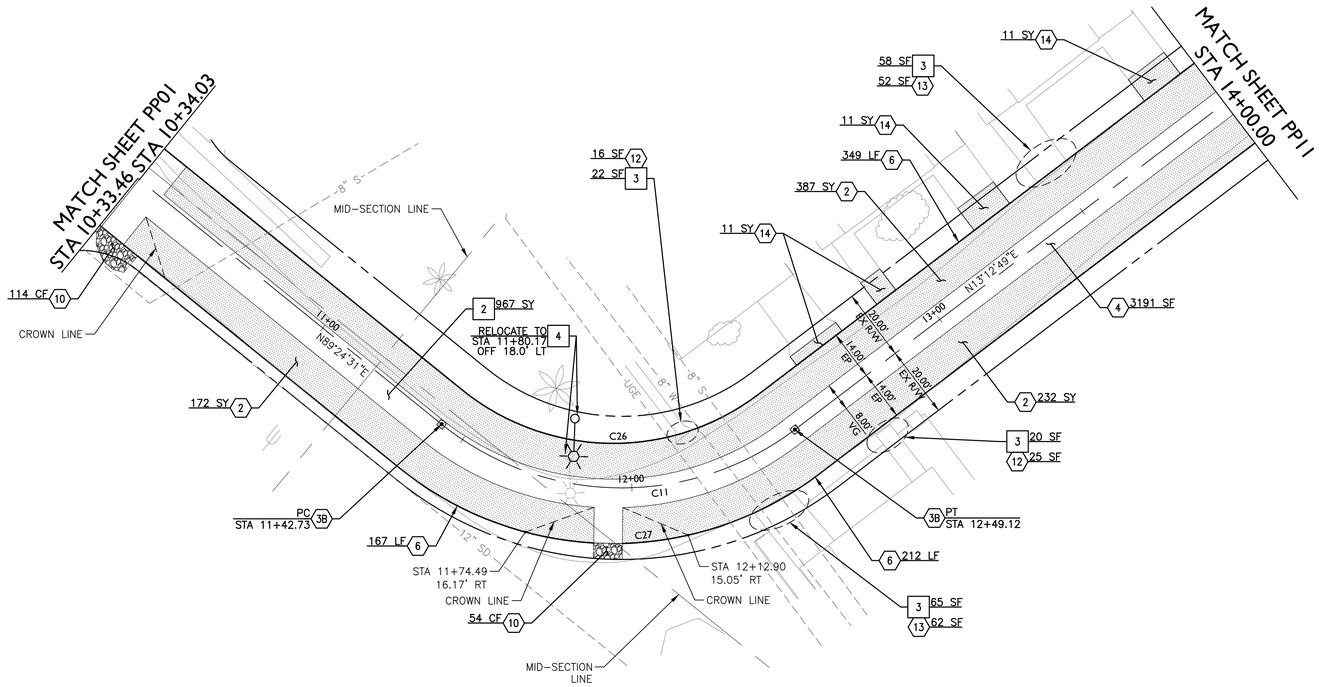
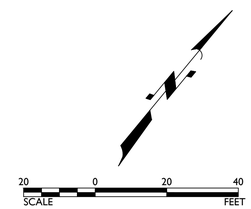
DRAWN BY	RW	
DRAWING NO.	PP09	SHEET 19 OF 51

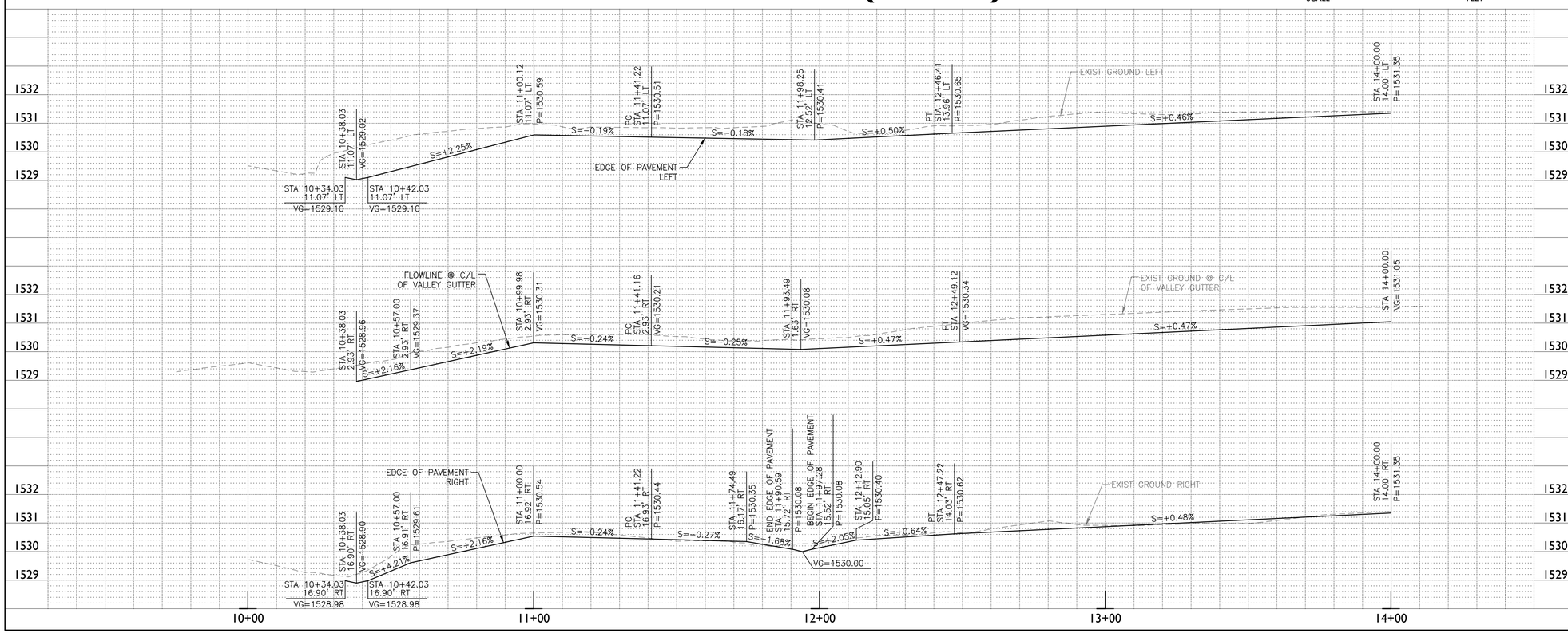


Colorado Ave (South)



CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	791 SY
3B	Survey Marker per MAG Detail 120-1 Type "B"	2 EA
4	Valley Gutter per MAG Detail 240	3191 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	728 LF
10	18" Thick Dumped Riprap, D50=6"	168 CF
12	Sidewalk per MAG Detail 230 (See Sheet DT02)	41 SF
13	5" Thick Concrete Driveway per MAG Detail 250 (See Sheet DT02)	114 SF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	33 SY
2	Remove Pavement Section	967 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	165 SF
4	Relocate Street Light	1 EA



CURVE TABLE AT CENTERLINE				
CURVE	LENGTH	RADIUS	CHORD	DELTA
C11	106.39'	80.00'	98.72'	076°11'42"

CURVE TABLE AT EDGE OF PAVEMENT				
CURVE	LENGTH	RADIUS	CHORD	DELTA
C26	89.10'	67.00'	82.68'	076°11'42"
C27	126.34'	95.00'	117.23'	076°11'42"

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PHASES IV AND V

PAVEMENT REPLACEMENT SHEET

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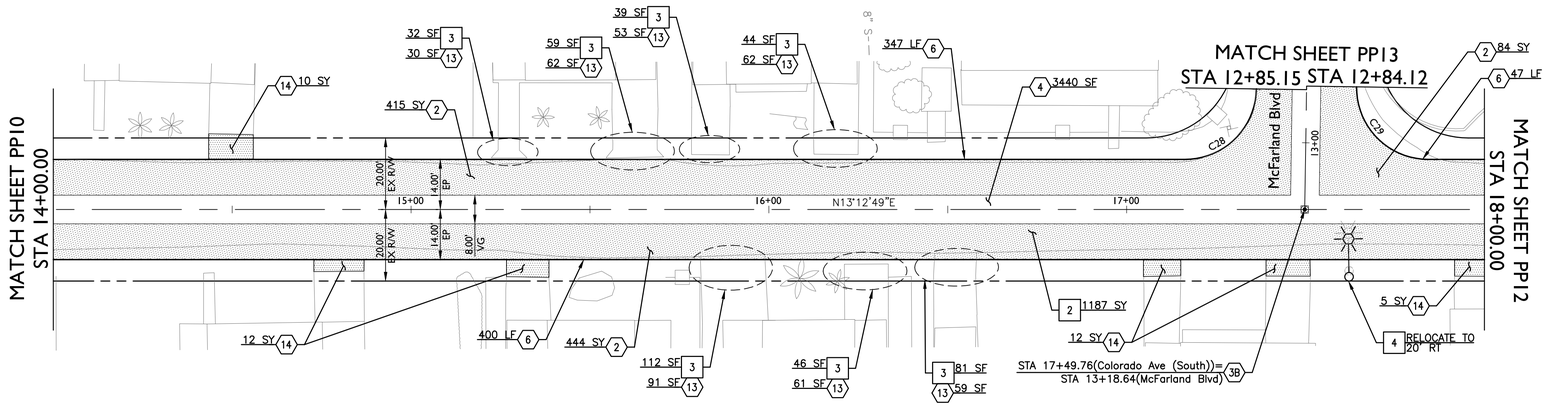
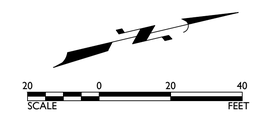
DRAWN BY	RW	
DRAWING NO.	PP10	SHEET 20 OF 51

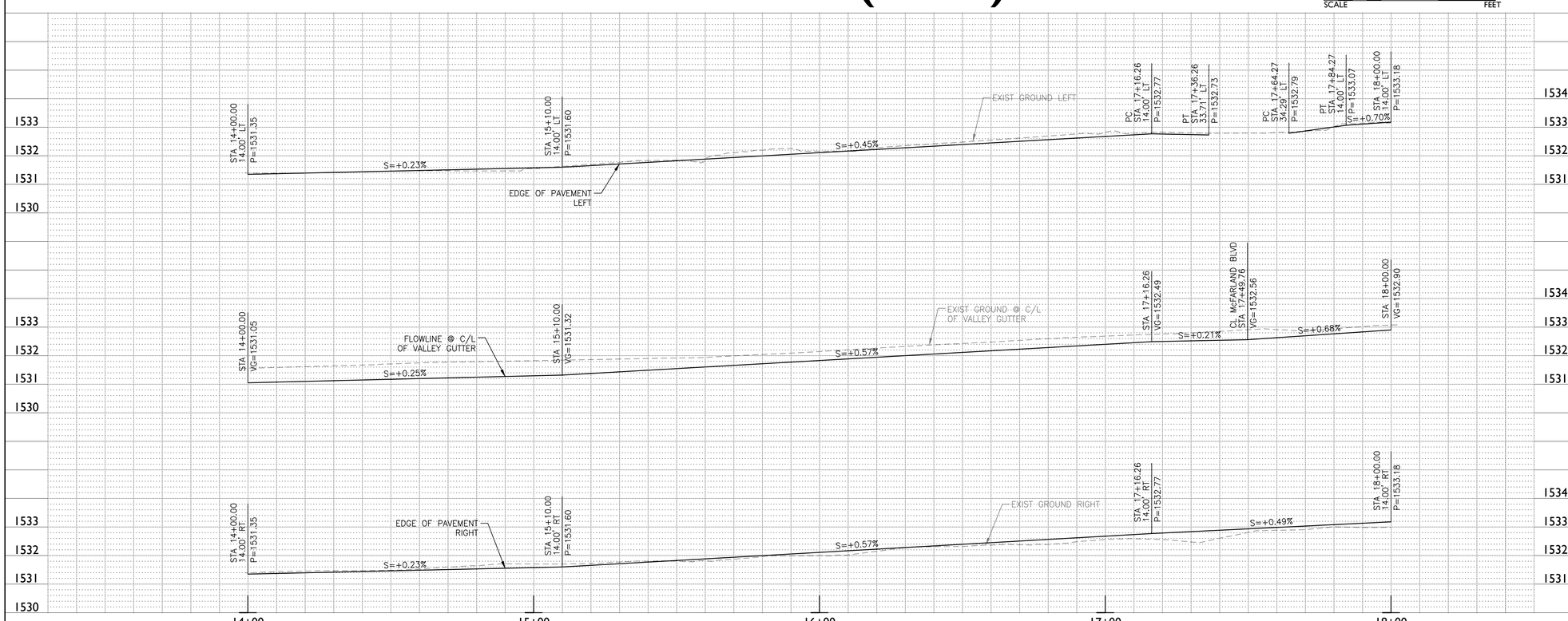
CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	943 SY
3B	Survey Marker per MAG Detail 120-1 Type "B"	1 EA
4	Valley Gutter per MAG Detail 240	3440 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	794 LF
13	5" Thick Concrete Driveway per MAG Detail 250 (See Sheet DT02)	418 SF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	39 SY
2	Remove Pavement Section	1187 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	413 SF
4	Relocate Street Light	1 EA



Colorado Ave (South)





CURVE TABLE AT EDGE OF PAVEMENT				
CURVE	LENGTH	RADIUS	CHORD	DELTA
C28	31.12'	20.00'	28.08'	089°09'24"
C29	31.71'	20.00'	28.49'	090°50'36"

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PHASES IV AND V

PAVEMENT REPLACEMENT SHEET

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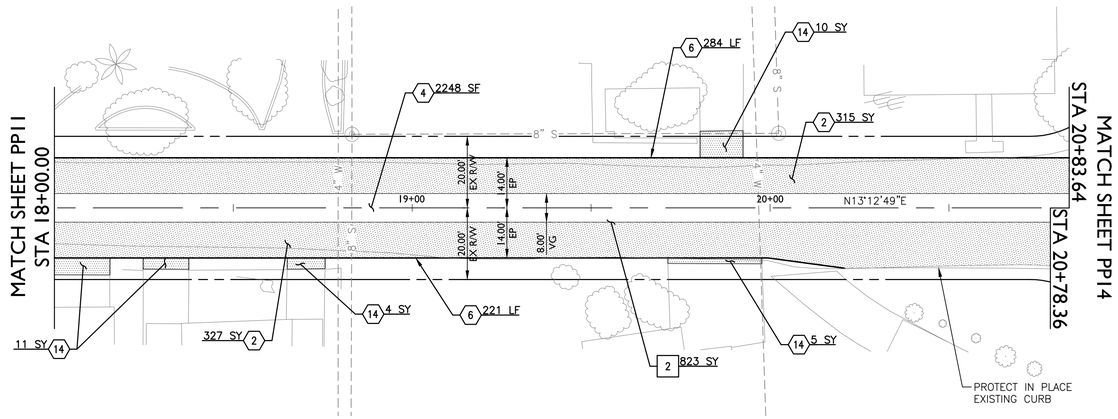
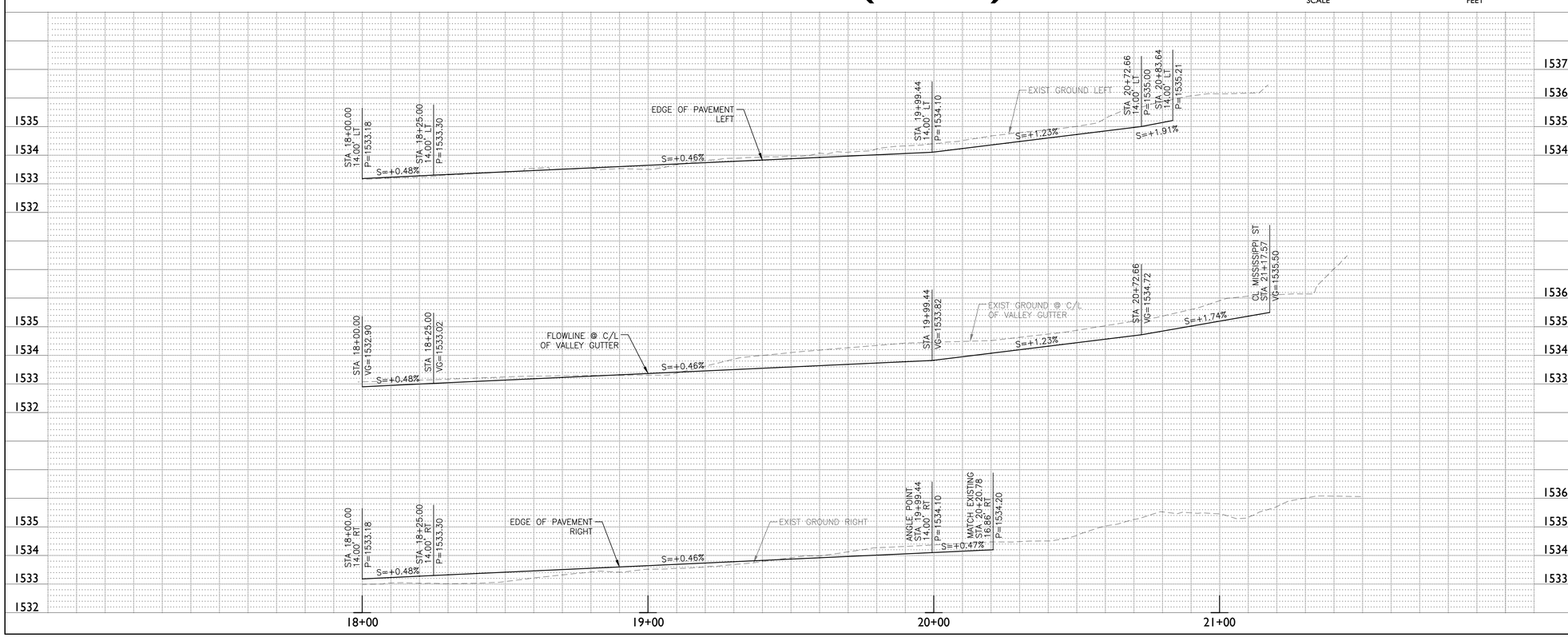
DRAWING NO.	PP11	SHEET 21 OF 51

CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	642 SY
4	Valley Gutter per MAG Detail 240	2248 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	505 LF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	30 SY
2	Remove Pavement Section	823 SY



Colorado Ave (South)



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PAVEMENT REPLACEMENT SHEET

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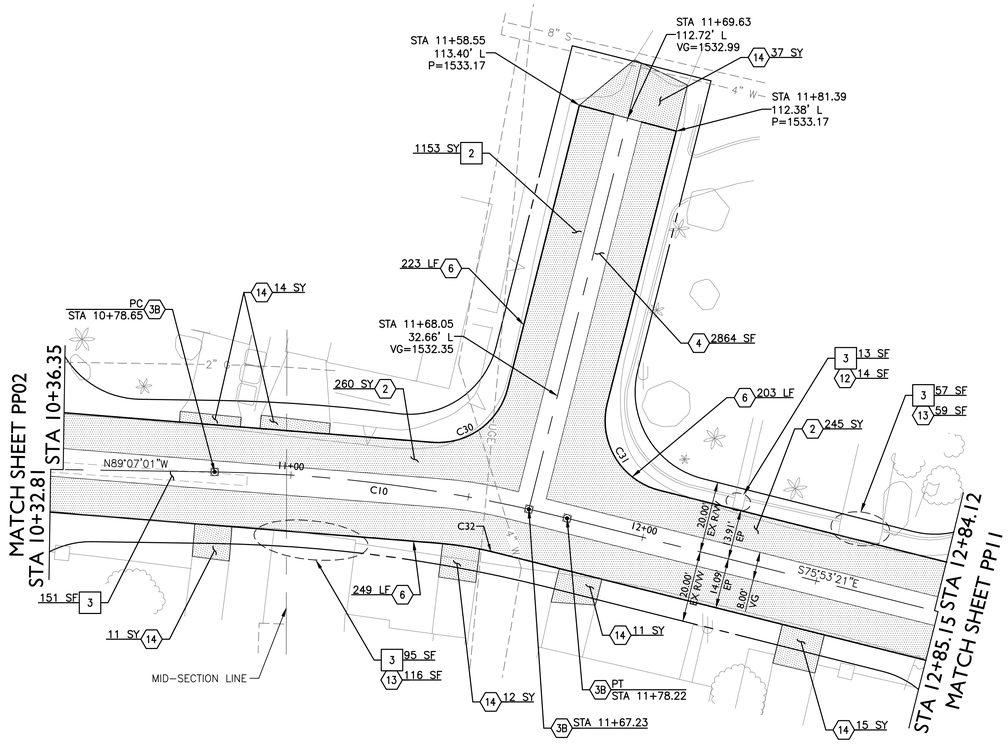
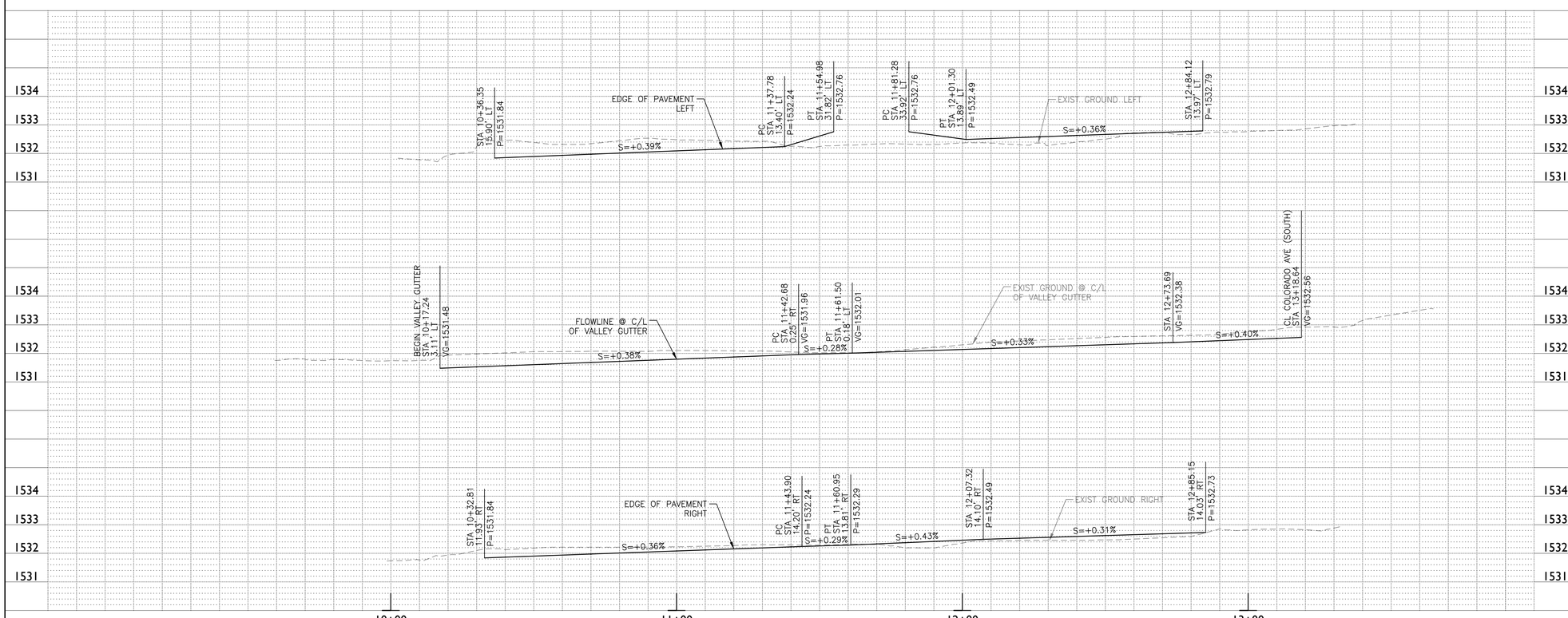
DRAWING NO.	PP12	SHEET 22 OF 51



McFarland Blvd



CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	505 SY
3B	Survey Marker per MAG Detail 120-1 Type "B"	3 EA
4	Valley Gutter per MAG Detail 240	2864 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	675 LF
12	Sidewalk per MAG Detail 230 (See Sheet DT02)	14 SF
13	5" Thick Concrete Driveway per MAG Detail 250 (See Sheet DT02)	175 SF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	100 SY
2	Remove Pavement Section	1153 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	316 SF

CURVE TABLE AT CENTERLINE

CURVE	LENGTH	RADIUS	CHORD	DELTA
C10	99.56'	431.22'	99.34'	013°13'44"

CURVE TABLE AT EDGE OF PAVEMENT

CURVE	LENGTH	RADIUS	CHORD	DELTA
C30	28.06'	20.00'	25.82'	080°23'53"
C31	31.46'	20.00'	28.32'	090°08'03"
C32	16.52'	100.00'	16.51'	009°28'03"

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PHASES IV AND V

PAVEMENT REPLACEMENT SHEET

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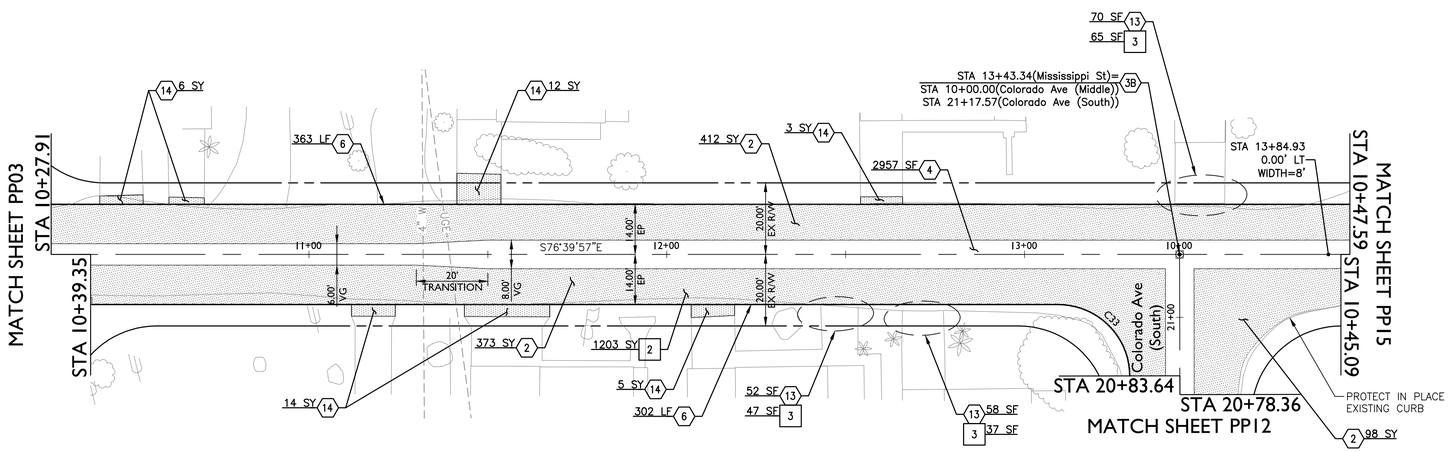
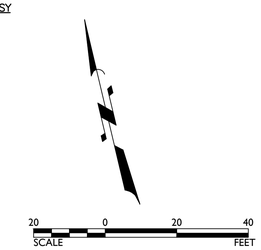
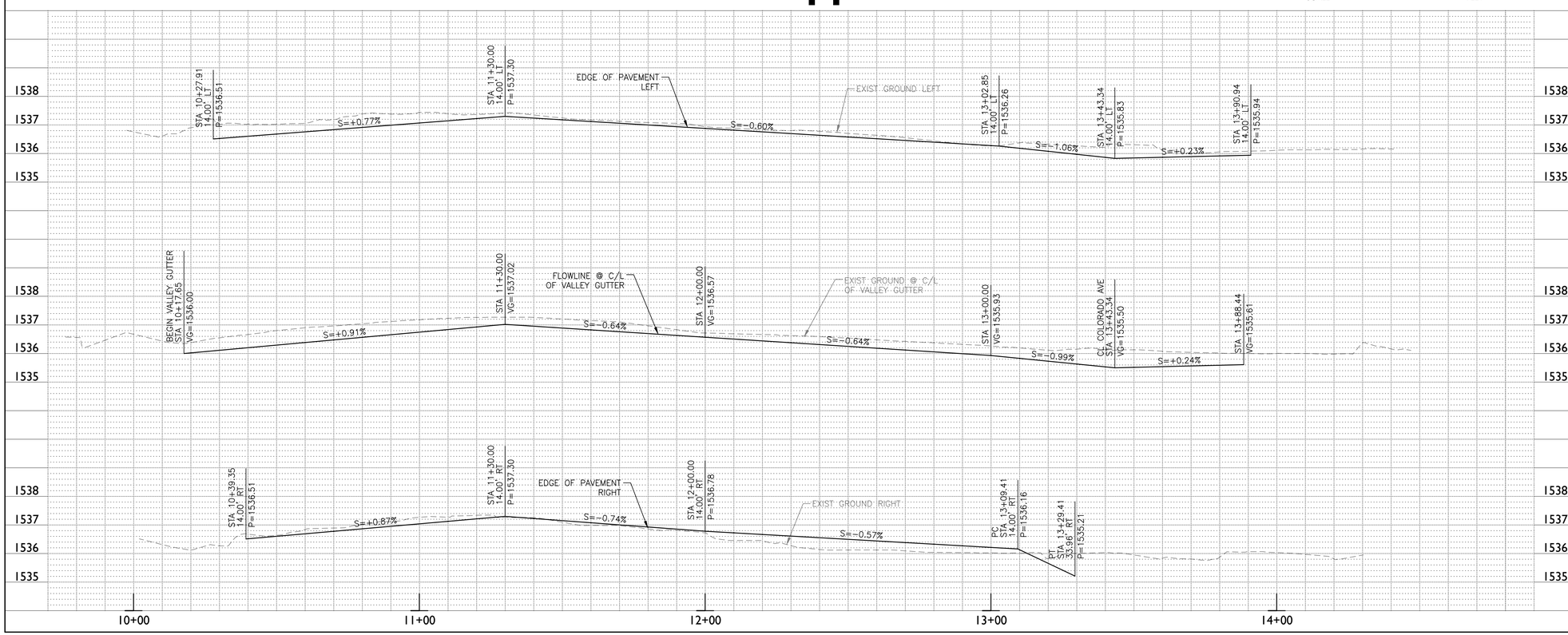
DRAWING NO.	PP13	SHEET 23 OF 51



Mississippi St





CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	883 SY
3B	Survey Marker per MAG Detail 120-1 Type "B"	1 EA
4	Valley Gutter per MAG Detail 240	2957 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	665 LF
13	5" Thick Concrete Driveway per MAG Detail 250 (See Sheet DT02)	180 SF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	40 SY
2	Remove Pavement Section	1203 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	149 SF

CURVE TABLE AT EDGE OF PAVEMENT

CURVE	LENGTH	RADIUS	CHORD	DELTA
C33	31.37'	20.00'	28.25'	089°52'46"

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PAVEMENT REPLACEMENT SHEET

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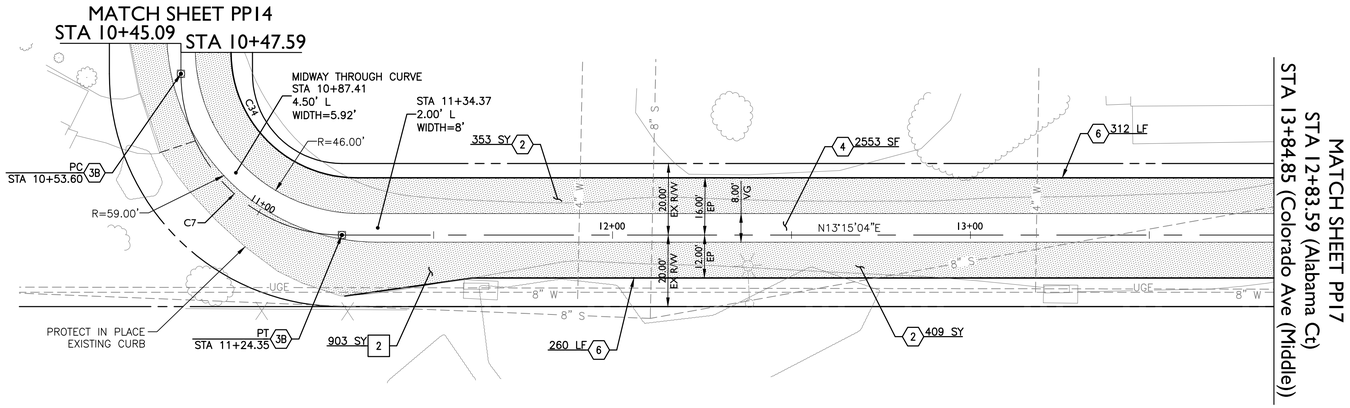
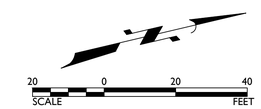
DRAWING NO.	PP14	SHEET 24 OF 51

CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	762 SY
3B	Survey Marker per MAG Detail 120-1 Type "B"	2 EA
4	Valley Gutter per MAG Detail 240	2553 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	572 LF
2	Remove Pavement Section	903 SY

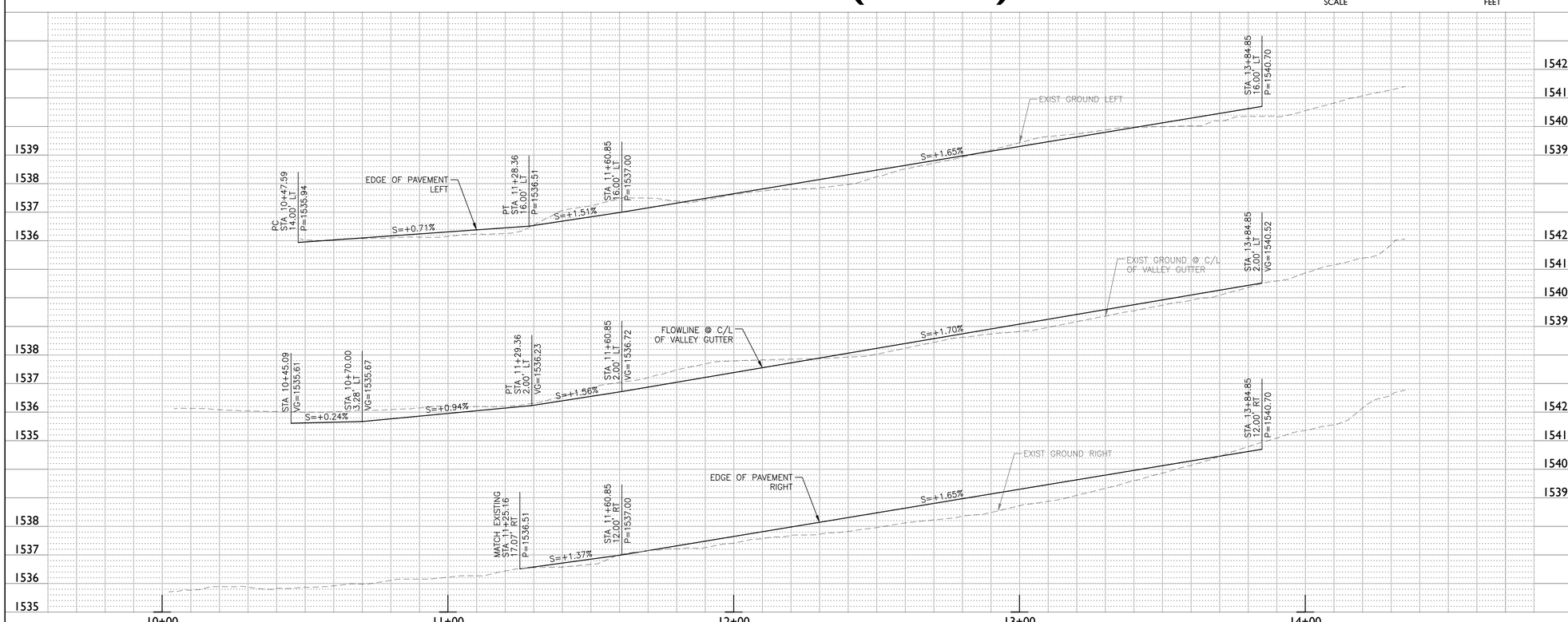


Colorado Ave (Middle)



CURVE TABLE AT CENTERLINE				
CURVE	LENGTH	RADIUS	CHORD	DELTA
C7	70.75'	45.00'	63.69'	090°04'59"

CURVE TABLE AT EDGE OF PAVEMENT				
CURVE	LENGTH	RADIUS	CHORD	DELTA
C34	55.03'	35.00'	49.53'	090°04'59"



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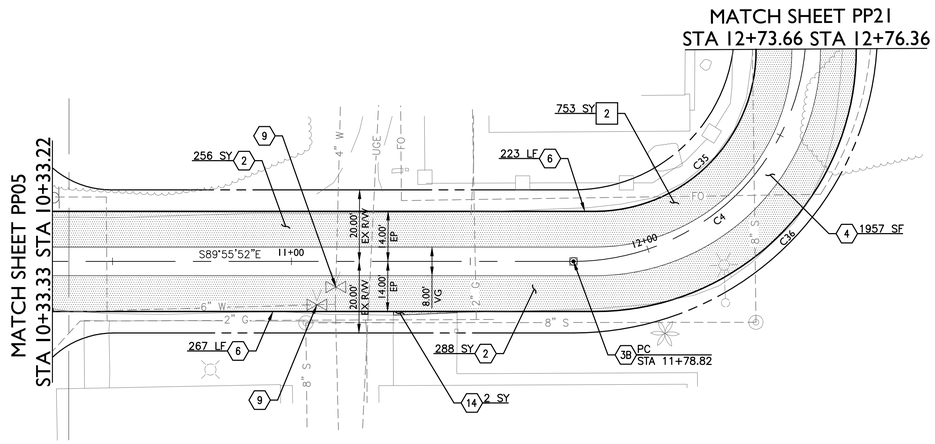
PHASES IV AND V

PAVEMENT REPLACEMENT SHEET

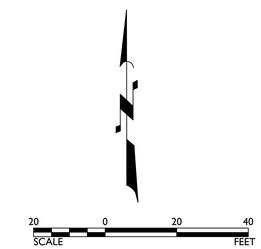
DESIGNED BY	JDL	TOWN PROJECT NOS. T-08 & T-09
DRAWN BY	RW	
DRAWING NO.	PP15	SHEET 25 OF 51

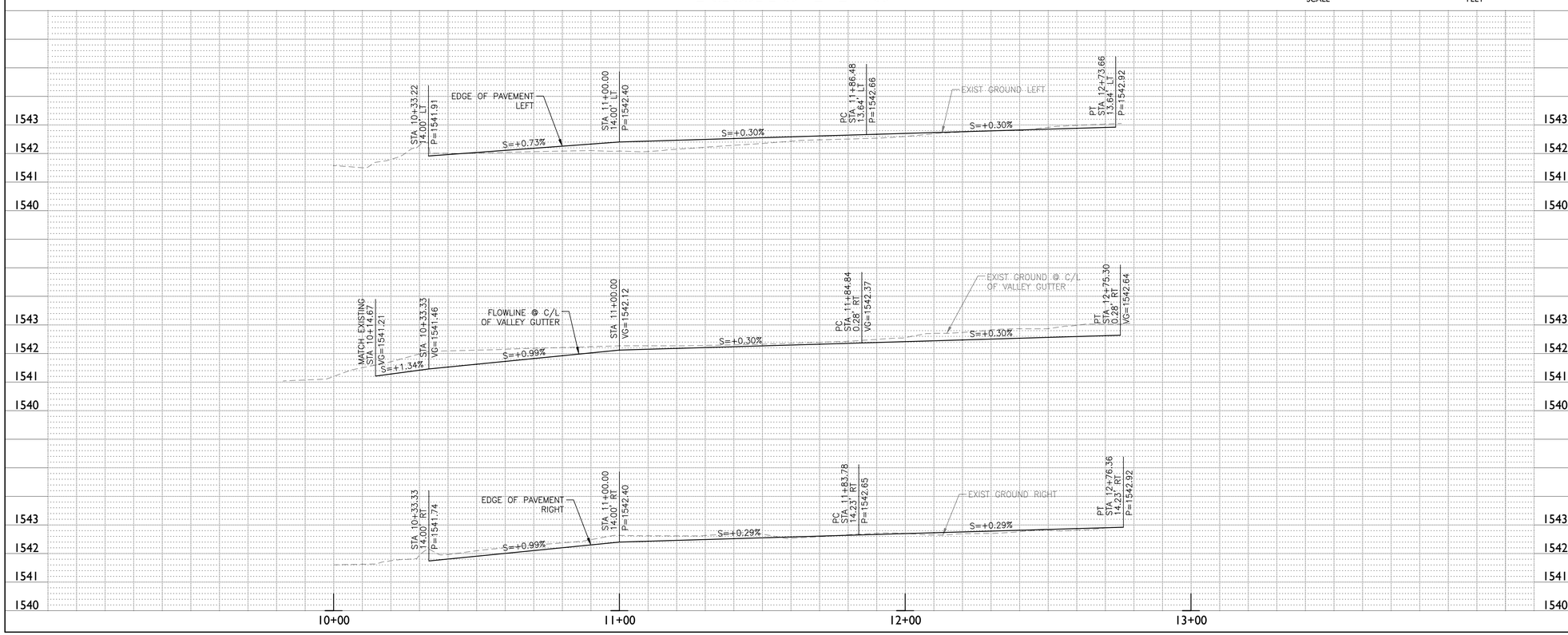
CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	544 SY
3B	Survey Marker per MAG Detail 120–1 Type "B"	1 EA
4	Valley Gutter per MAG Detail 240	1957 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	490 LF
9	Adjust Valve Box and Cover to Grade per MAG Detail 391–1 Type "C"	2 EA
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	2 SY
2	Remove Pavement Section	753 SY



Idaho Ave





CURVE TABLE AT CENTERLINE				
CURVE	LENGTH	RADIUS	CHORD	DELTA
C4	102.50'	65.00'	92.20'	090°20'55"

CURVE TABLE AT EDGE OF PAVEMENT				
CURVE	LENGTH	RADIUS	CHORD	DELTA
C35	70.96'	45.00'	63.83'	090°20'55"
C36	115.11'	73.00'	103.55'	090°20'55"

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Registered Professional Engineer (Civil)
CERTIFICATE NO. 49457
JONATHAN D. LASSUY
Date Signed 09/14/17
Arizona, U.S.A.
Expires 3/31/2018

TOWN OF FLORENCE

EPS GROUP
2045 S. Vineyard Ave, Suite 101
Mesa, AZ 85210
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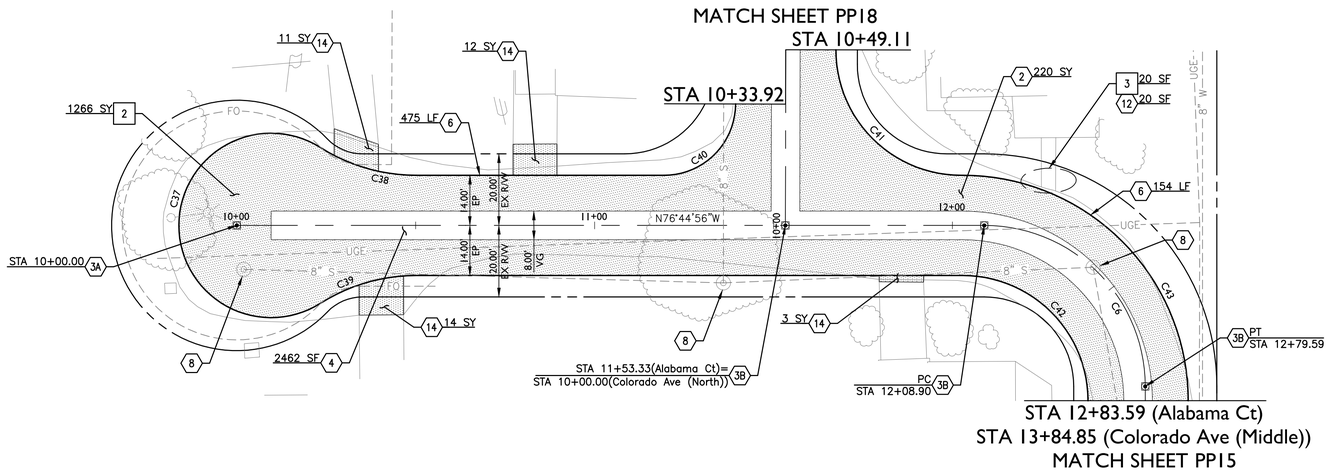
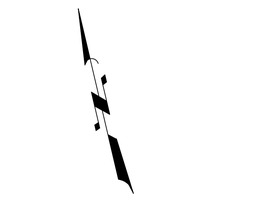
FLORENCE GARDENS
PHASES IV AND V

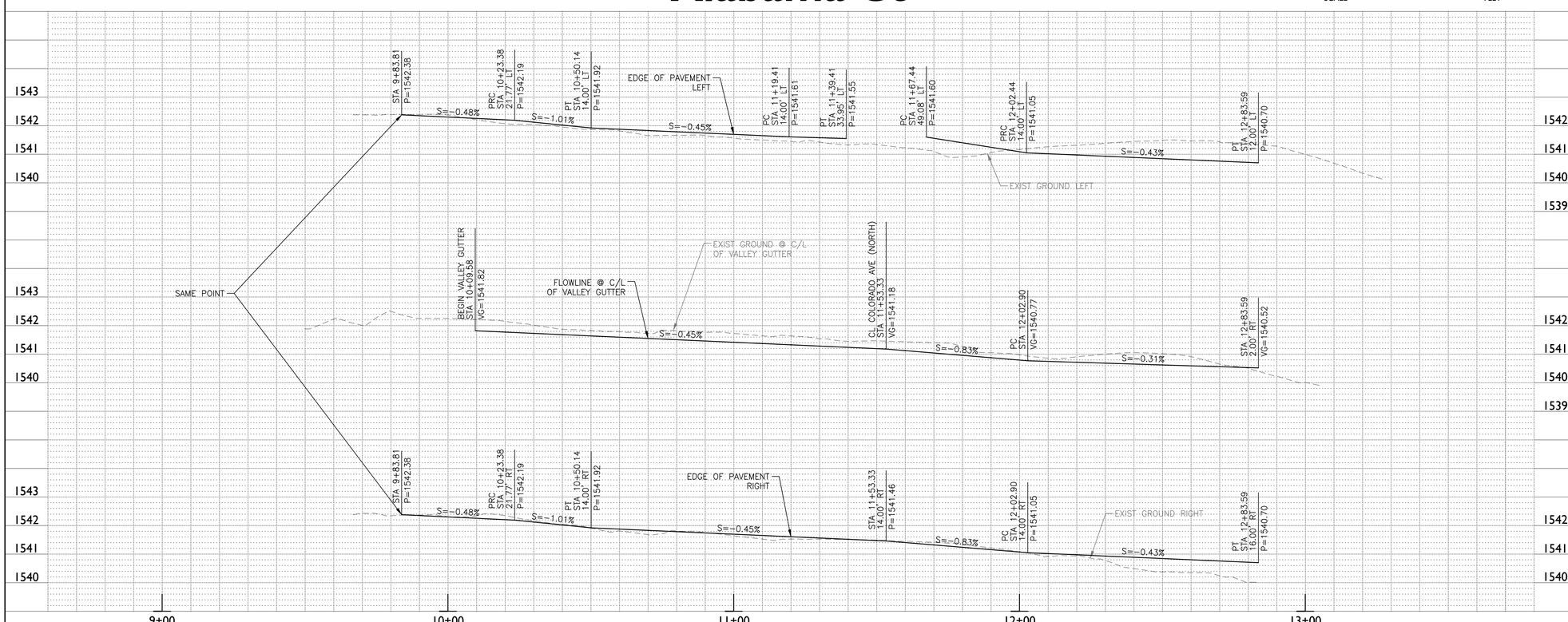
PAVEMENT REPLACEMENT SHEET

DESIGNED BY	JDL	TOWN PROJECT NOS. T–08 & T–09
DRAWN BY	RW	
DRAWING NO.	PP16	SHEET 26 OF 51



Alabama Ct





CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	220 SY
3A	Survey Marker per MAG Detail 120-1 Type "A"	1 EA
3B	Survey Marker per MAG Detail 120-1 Type "B"	3 EA
4	Valley Gutter per MAG Detail 240	2462 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	629 LF
8	Adjust Manhole to Grade per MAG Detail 422	3 EA
12	Sidewalk per MAG Detail 230 (See Sheet DT02)	20 SF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	40 SY
2	Remove Pavement Section	1266 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	20 SF

CURVE TABLE AT CENTERLINE

CURVE	LENGTH	RADIUS	CHORD	DELTA
C6	70.69'	45.00'	63.64'	090°00'00"

CURVE TABLE AT EDGE OF PAVEMENT

CURVE	LENGTH	RADIUS	CHORD	DELTA
C37	110.08'	25.77'	43.54'	244°43'58"
C38	28.24'	50.00'	27.87'	032°21'58"
C39	28.25'	50.00'	27.87'	032°22'00"
C40	31.37'	20.00'	28.25'	089°52'04"
C41	55.06'	35.00'	49.55'	090°07'56"
C42	54.98'	35.00'	49.50'	090°00'00"
C43	98.96'	63.00'	89.10'	090°00'00"

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PHASES IV AND V

PAVEMENT REPLACEMENT SHEET

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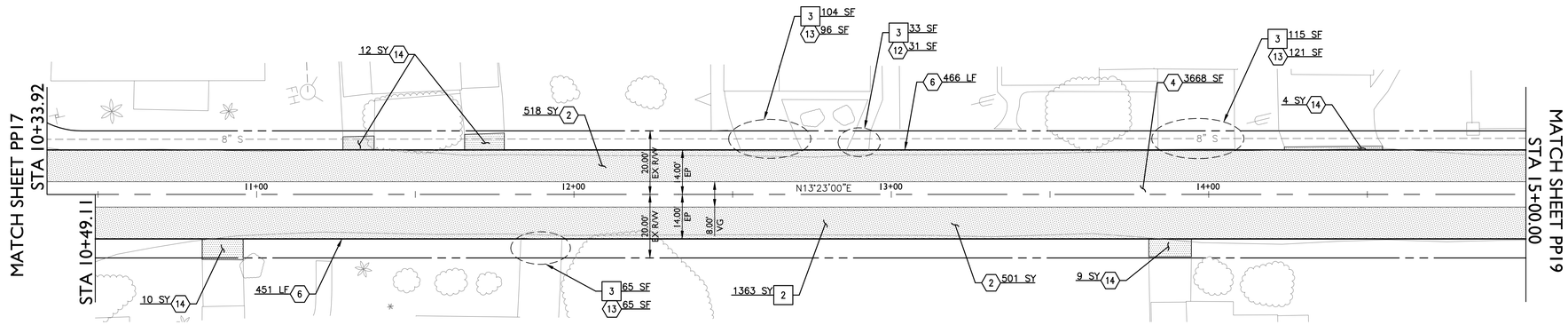
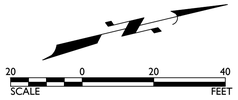
DRAWING NO.	PP17	SHEET 27 OF 51

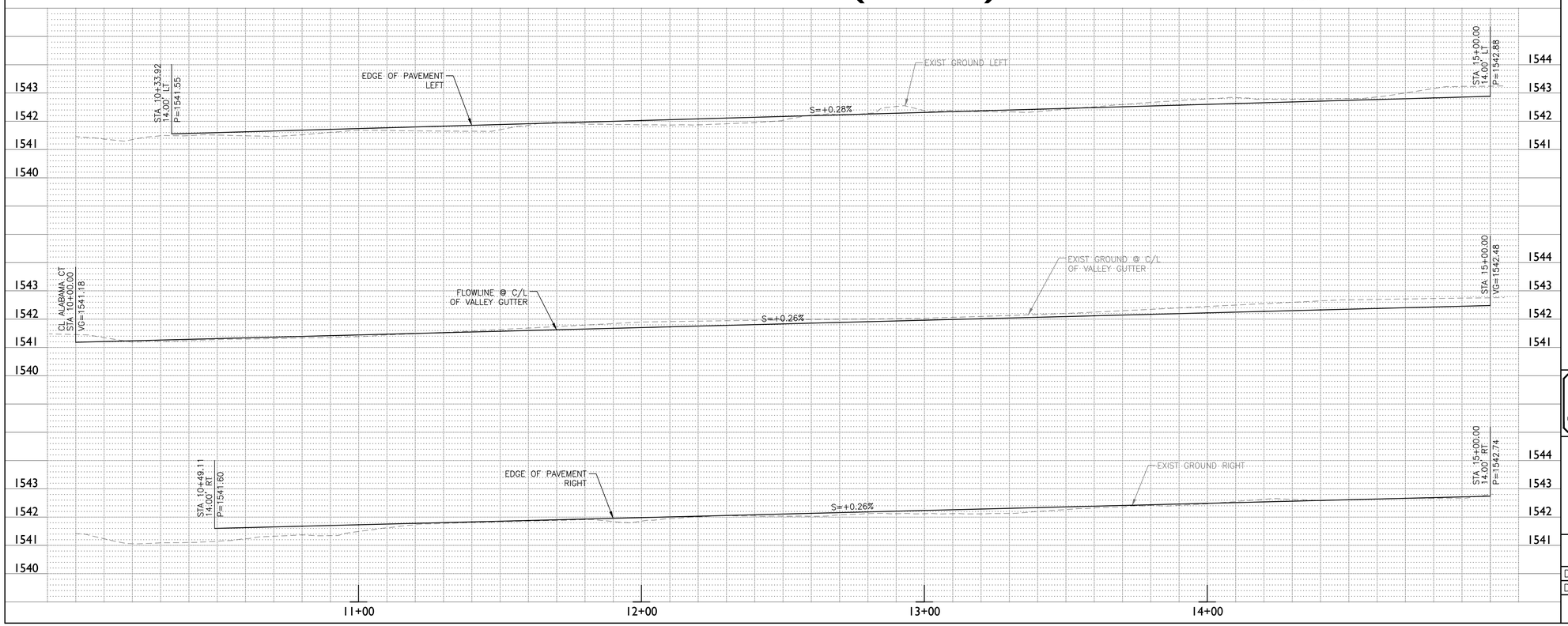
CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	1019 SY
4	Valley Gutter per MAG Detail 240	3668 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	917 LF
12	Sidewalk per MAG Detail 230 (See Sheet DT02)	31 SF
13	5" Thick Concrete Driveway per MAG Detail 250 (See Sheet DT02)	282 SF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	35 SY
2	Remove Pavement Section	1363 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	317 SF



Colorado Ave (North)





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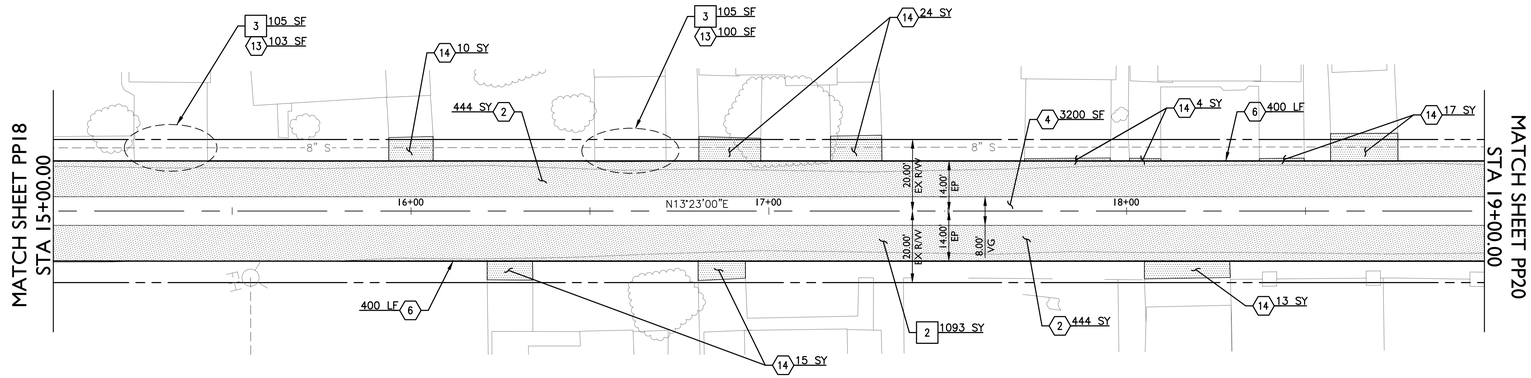
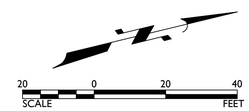
DRAWING NO.	PP18	SHEET 28 OF 51

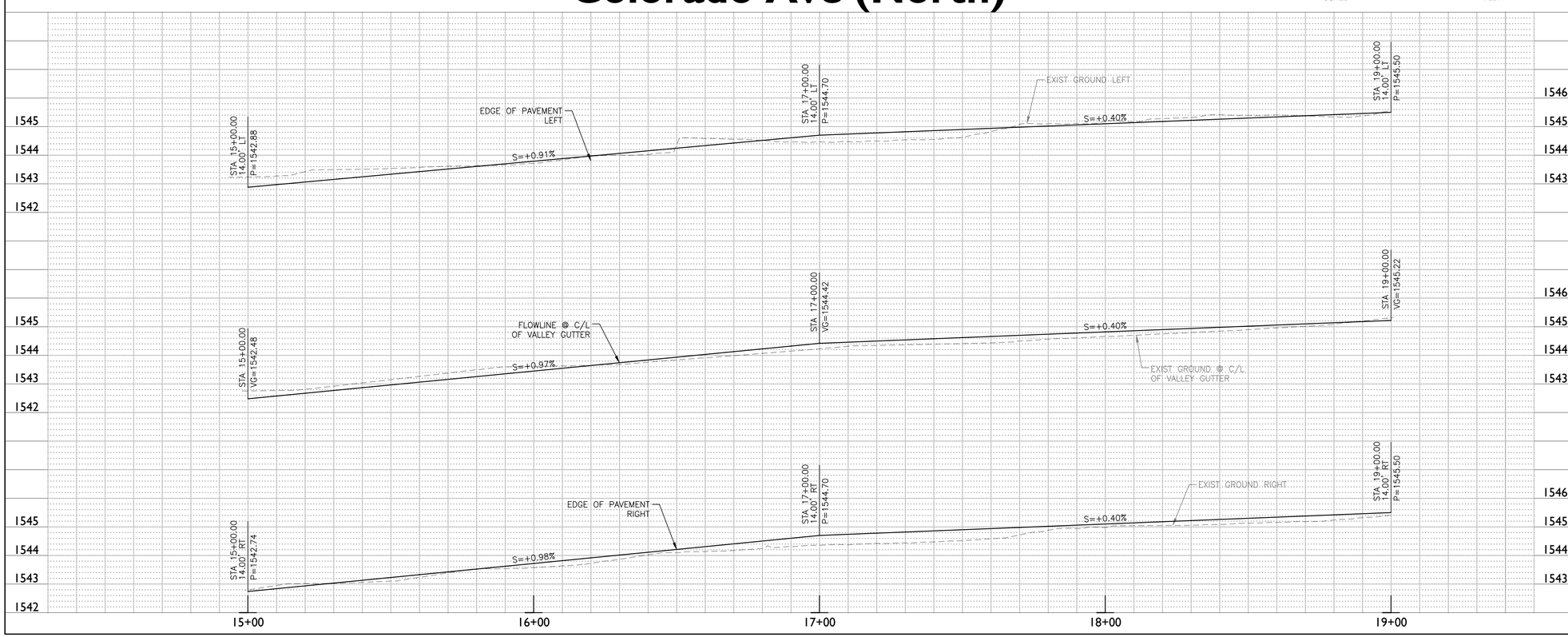
CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	888 SY
4	Valley Gutter per MAG Detail 240	3200 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	800 LF
13	5" Thick Concrete Driveway per MAG Detail 250 (See Sheet DT02)	203 SF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	83 SY
2	Remove Pavement Section	1093 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	210 SF



Colorado Ave (North)





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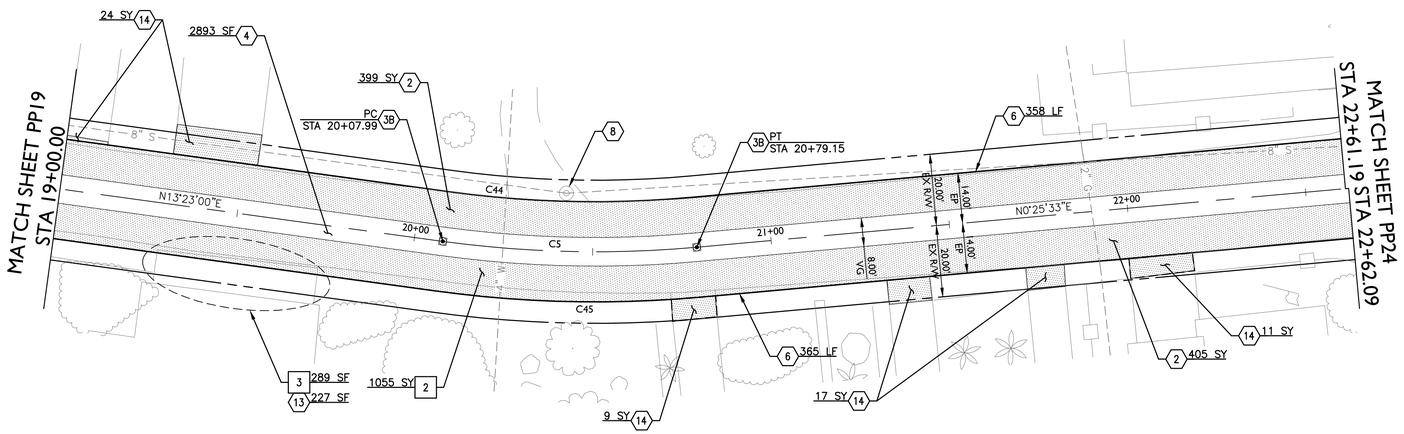
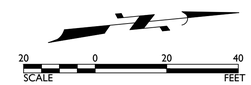
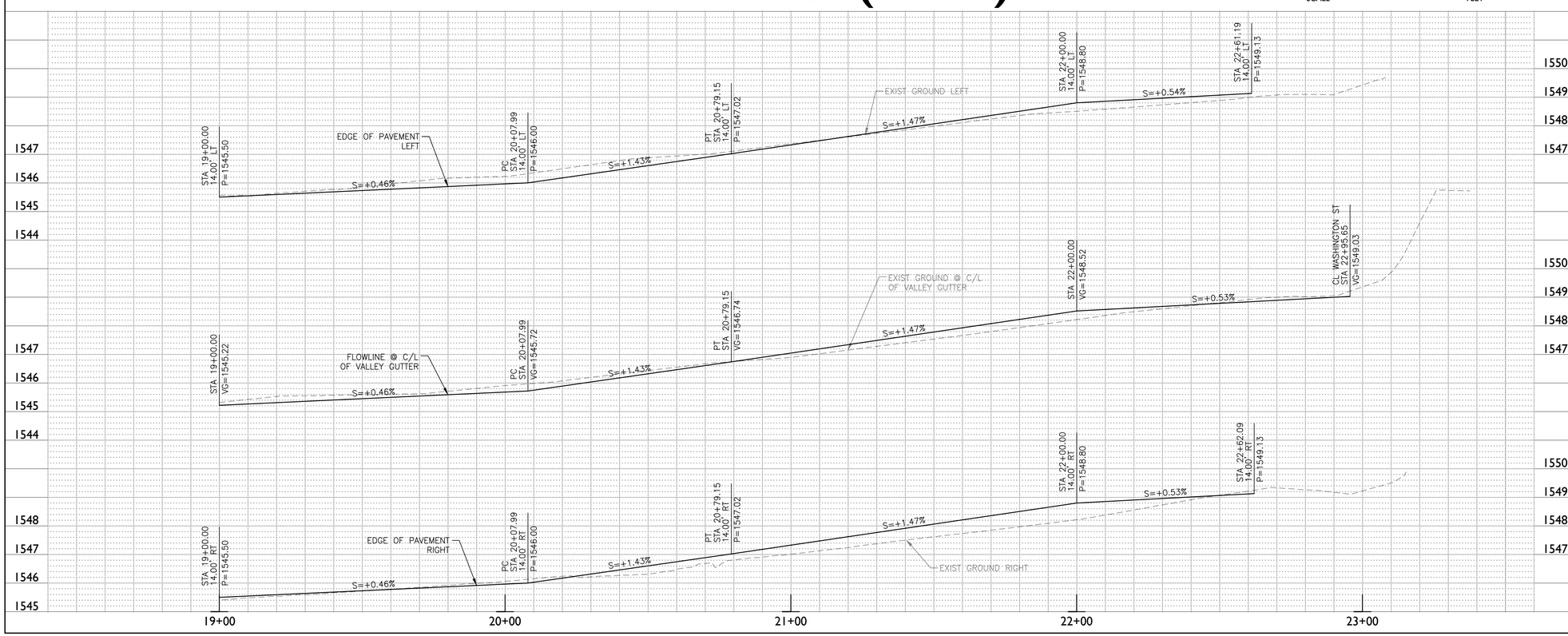


Colorado Ave (North)





CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	804 SY
3B	Survey Marker per MAG Detail 120-1 Type "B"	2 EA
4	Valley Gutter per MAG Detail 240	2893 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	723 LF
8	Adjust Manhole to Grade per MAG Detail 422	1 EA
13	5" Thick Concrete Driveway per MAG Detail 250 (See Sheet DT02)	227 SF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	61 SY
2	Remove Pavement Section	1055 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	289 SF

CURVE TABLE AT CENTERLINE

CURVE	LENGTH	RADIUS	CHORD	DELTA
C5	71.16'	314.64'	71.00'	012°57'27"

CURVE TABLE AT EDGE OF PAVEMENT

CURVE	LENGTH	RADIUS	CHORD	DELTA
C44	67.99'	300.64'	67.84'	012°57'27"
C45	74.32'	328.64'	74.16'	012°57'27"

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PHASES IV AND V

PAVEMENT REPLACEMENT SHEET

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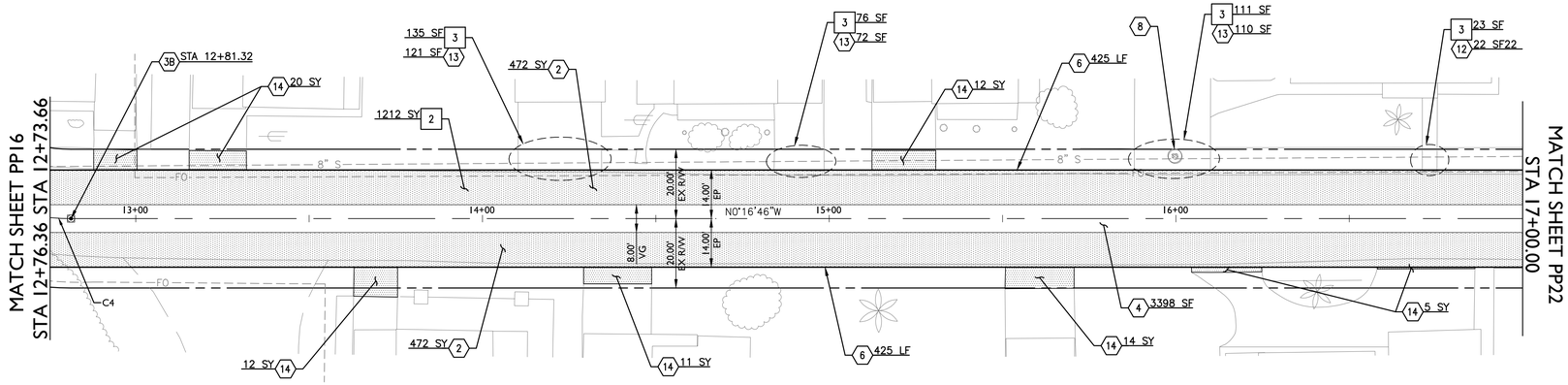
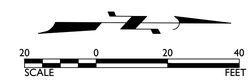
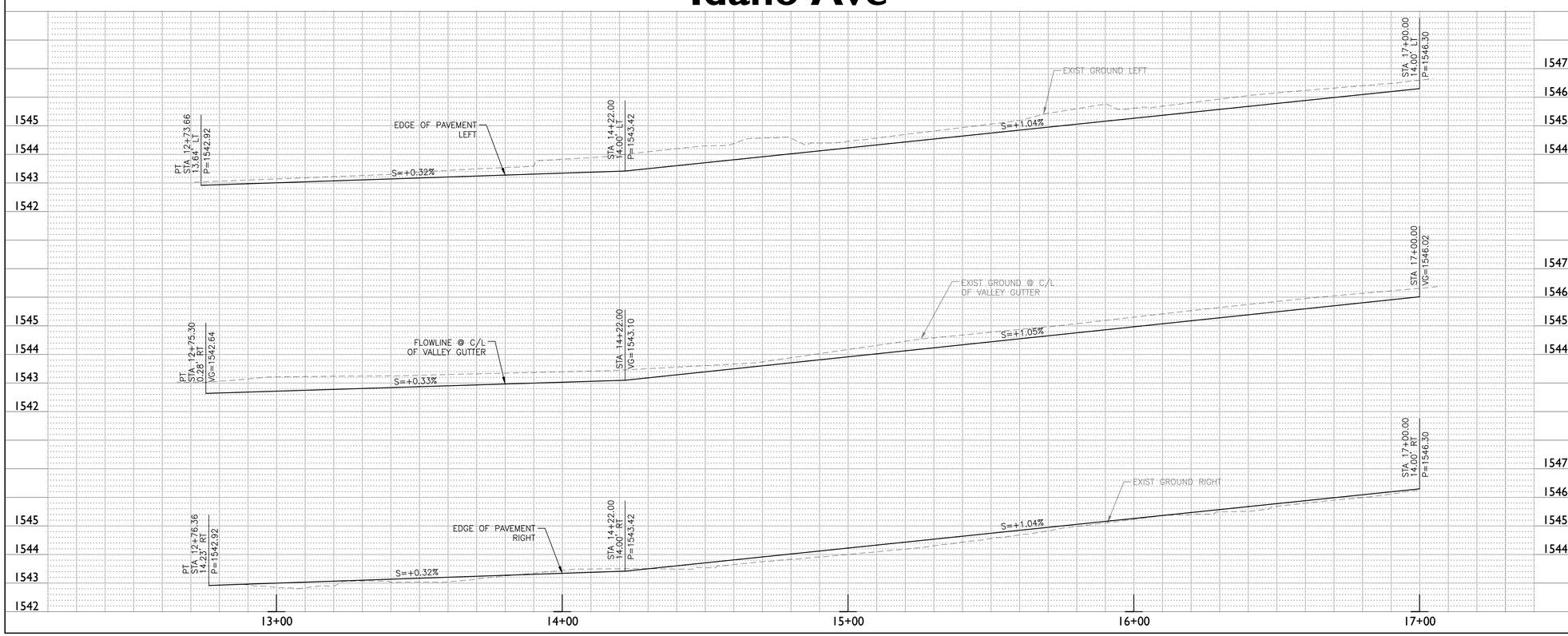


Idaho Ave





CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	944 SY
3B	Survey Marker per MAG Detail 120-1 Type "B"	1 EA
4	Valley Gutter per MAG Detail 240	3398 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	850 LF
8	Adjust Manhole to Grade per MAG Detail 422	1 EA
12	Sidewalk per MAG Detail 230 (See Sheet DT02)	22 SF
13	5" Thick Concrete Driveway per MAG Detail 250 (See Sheet DT02)	303 SF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	74 SY
2	Remove Pavement Section	1212 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	345 SF

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FLORENCE GARDENS
PHASES IV AND V

PAVEMENT REPLACEMENT SHEET

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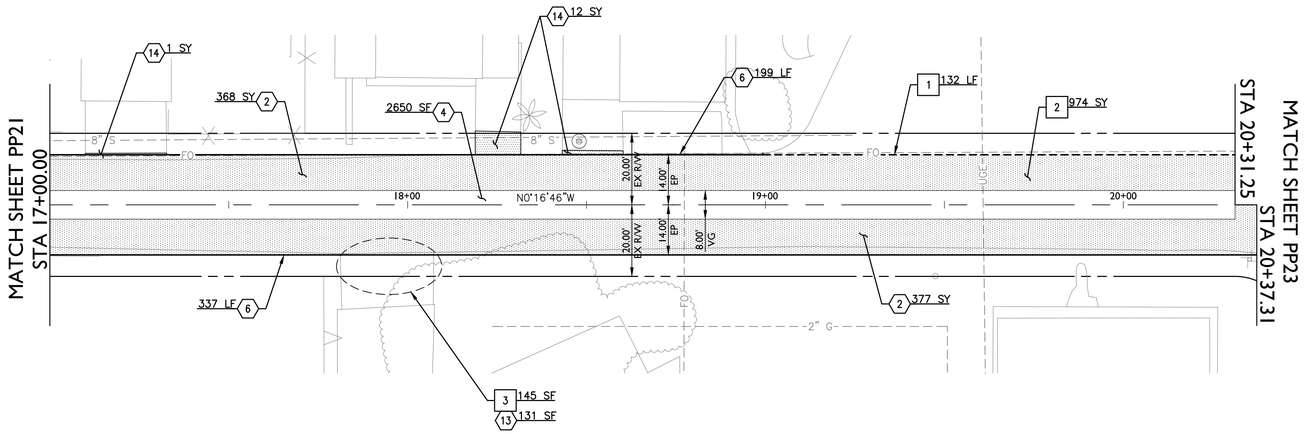
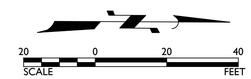
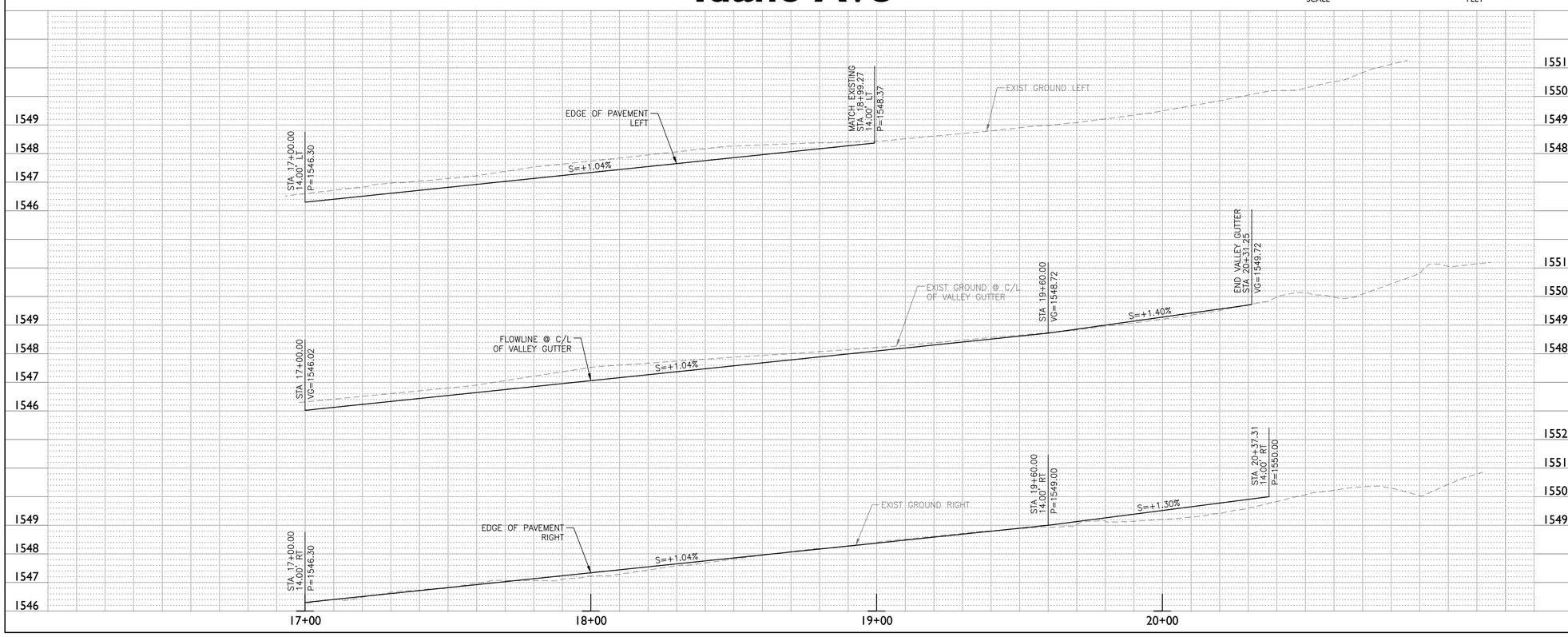


Idaho Ave





CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	745 SY
4	Valley Gutter per MAG Detail 240	2650 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	536 LF
13	5" Thick Concrete Driveway per MAG Detail 250 (See Sheet DT02)	131 SF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	13 SY
1	Sawcut AC Pavement	132 LF
2	Remove Pavement Section	974 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	145 SF

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PHASES IV AND V

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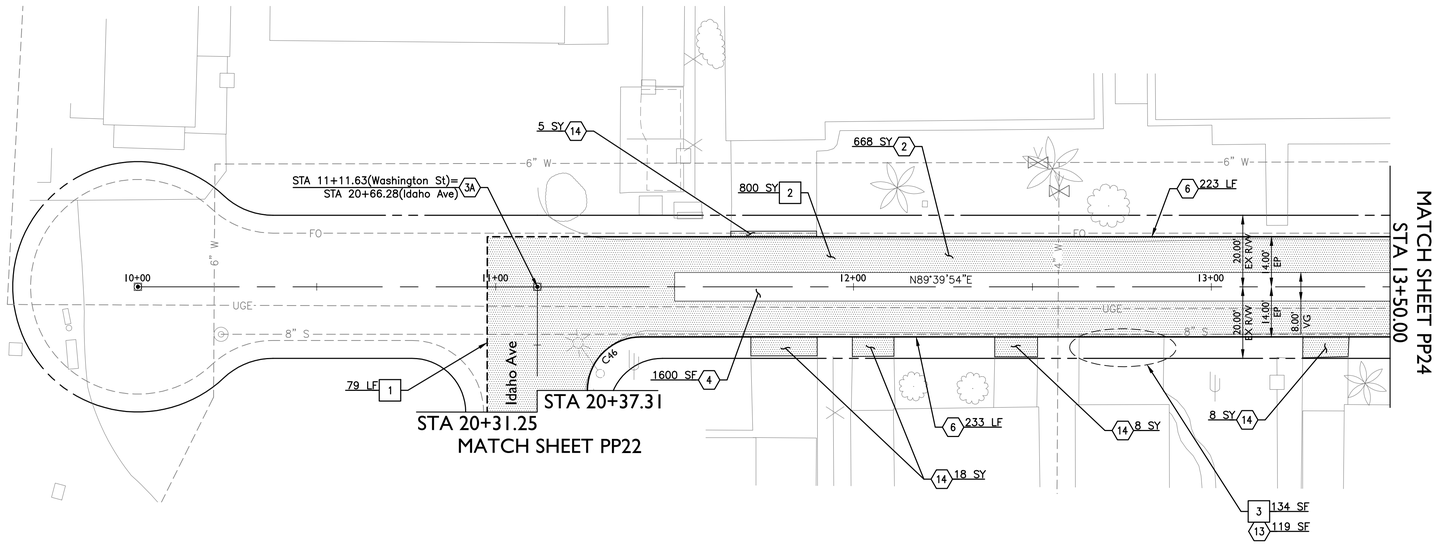
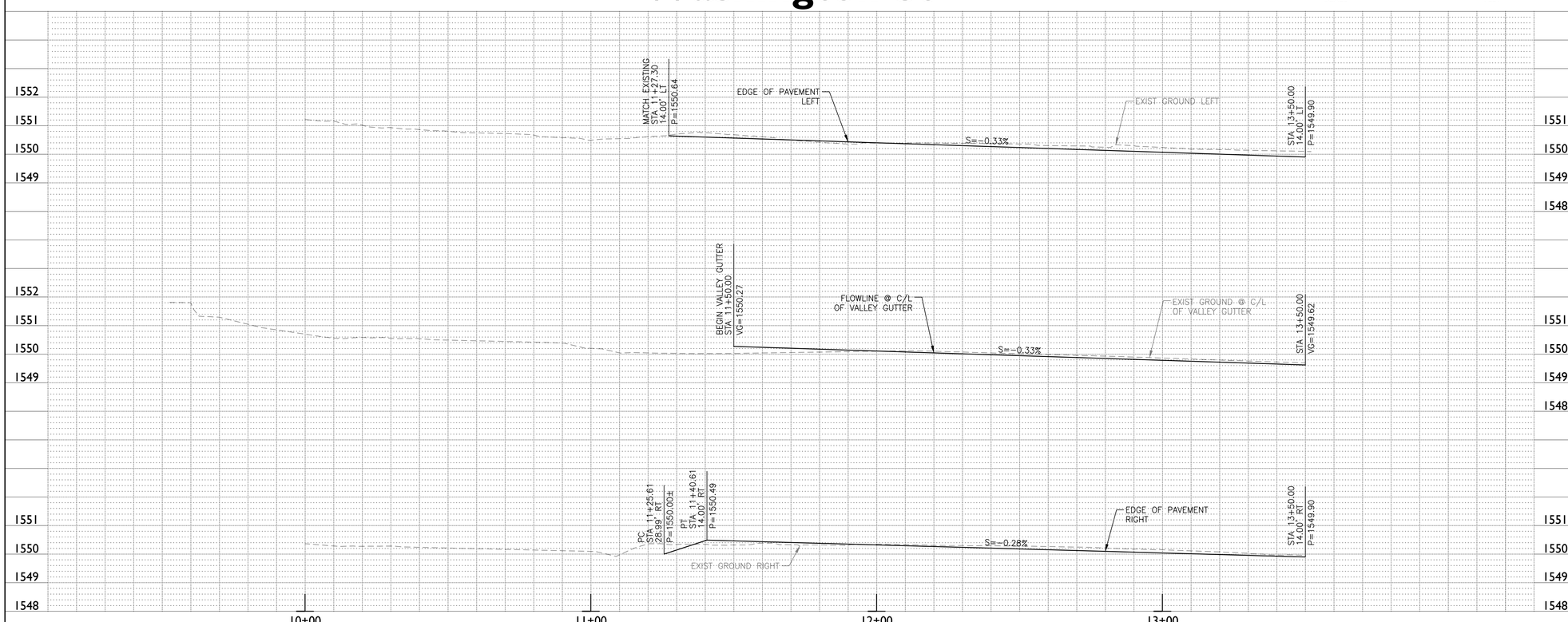


Washington St



CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	668 SY
3A	Survey Marker per MAG Detail 120-1 Type "A"	1 EA
4	Valley Gutter per MAG Detail 240	1600 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	456 LF
13	5" Thick Concrete Driveway per MAG Detail 250 (See Sheet DT02)	119 SF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	39 SY
1	Sawcut AC Pavement	79 LF
2	Remove Pavement Section	800 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	134 SF

CURVE TABLE AT EDGE OF PAVEMENT

CURVE	LENGTH	RADIUS	CHORD	DELTA
C46	23.55'	15.00'	21.20'	089°56'41"

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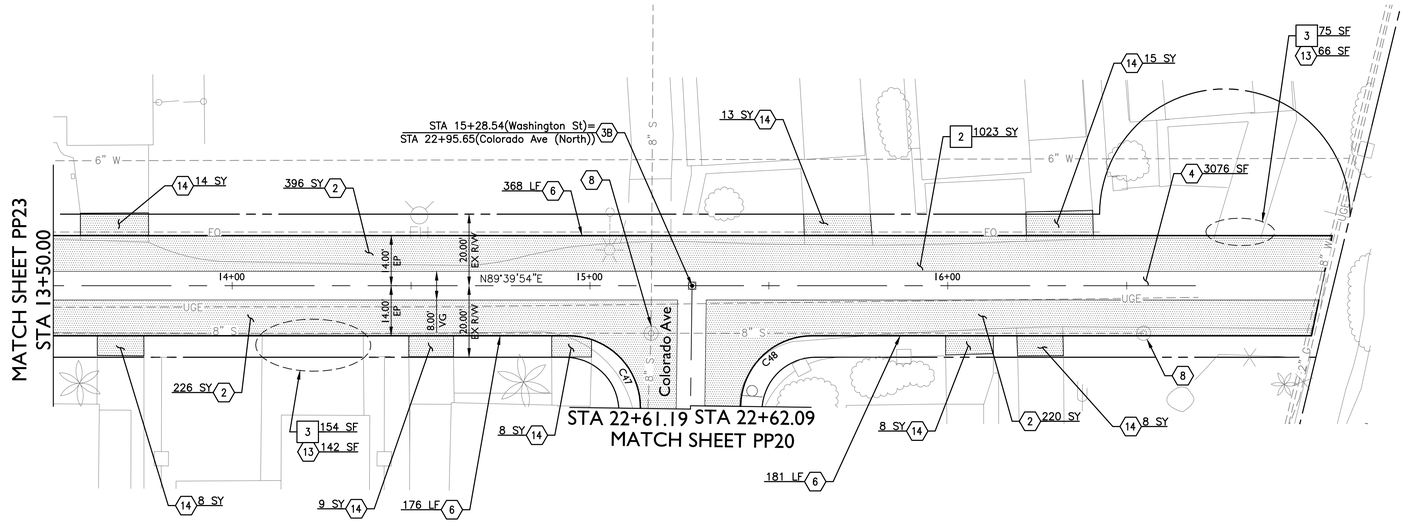
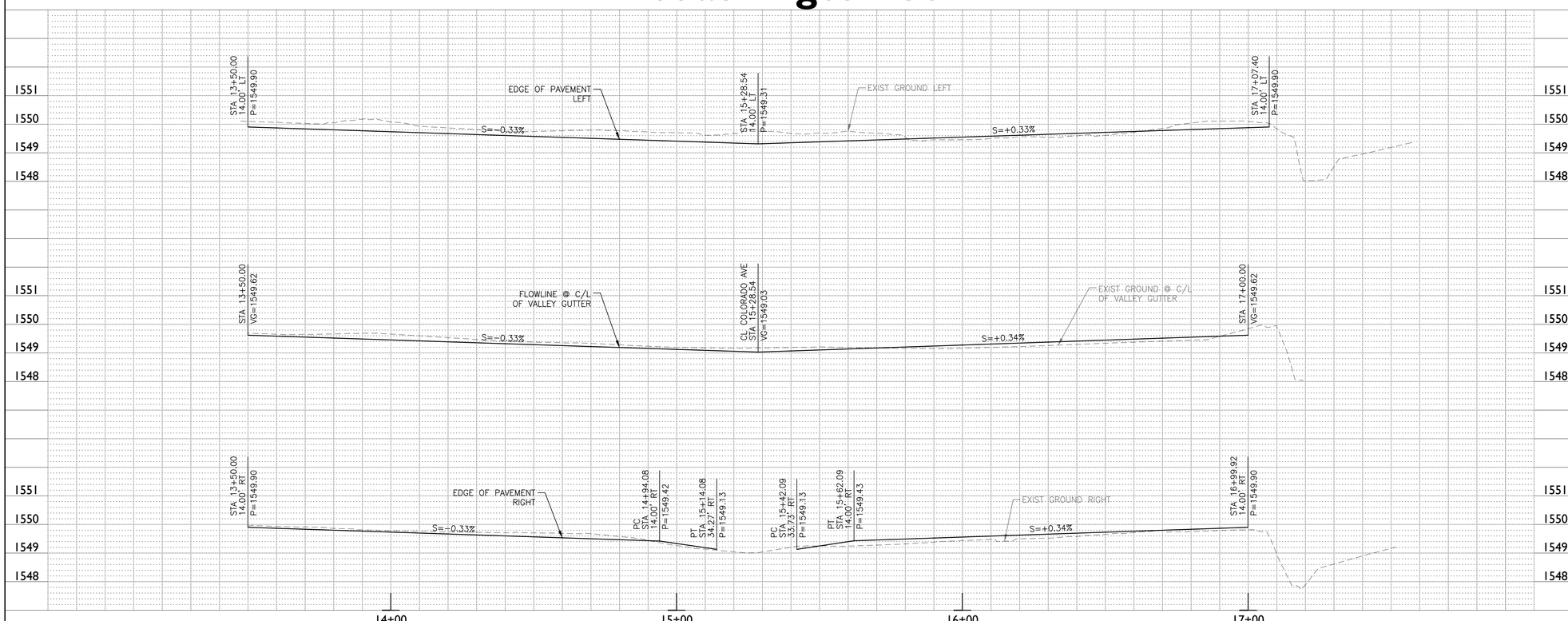


Washington St



CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	842 SY
3B	Survey Marker per MAG Detail 120-1 Type "B"	1 EA
4	Valley Gutter per MAG Detail 240	3076 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	725 LF
8	Adjust Manhole to Grade per MAG Detail 422	2 EA
13	5" Thick Concrete Driveway per MAG Detail 250 (See Sheet DT02)	208 SF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	83 SY
2	Remove Pavement Section	1023 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	229 SF

CURVE TABLE AT EDGE OF PAVEMENT

CURVE	LENGTH	RADIUS	CHORD	DELTA
C47	31.68'	20.00'	28.47'	090°45'39"
C48	31.15'	20.00'	28.10'	089°14'21"

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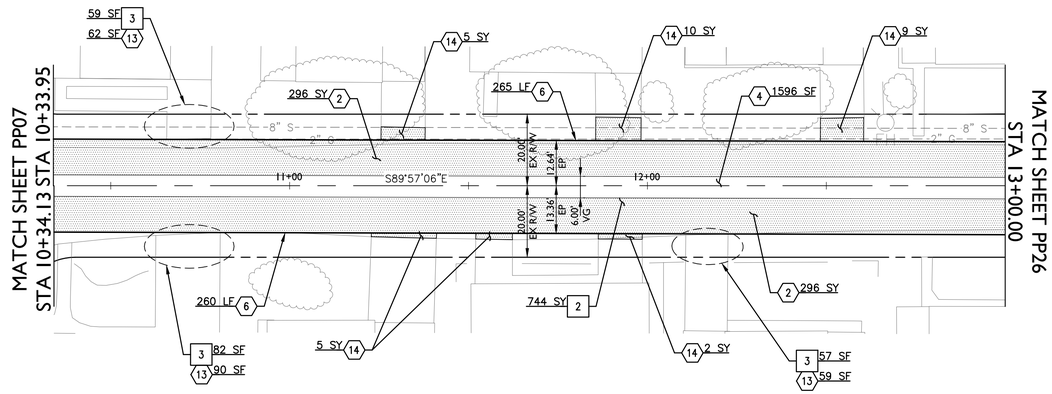
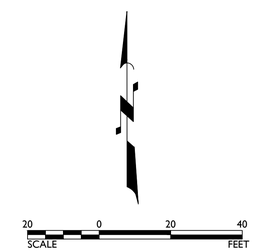
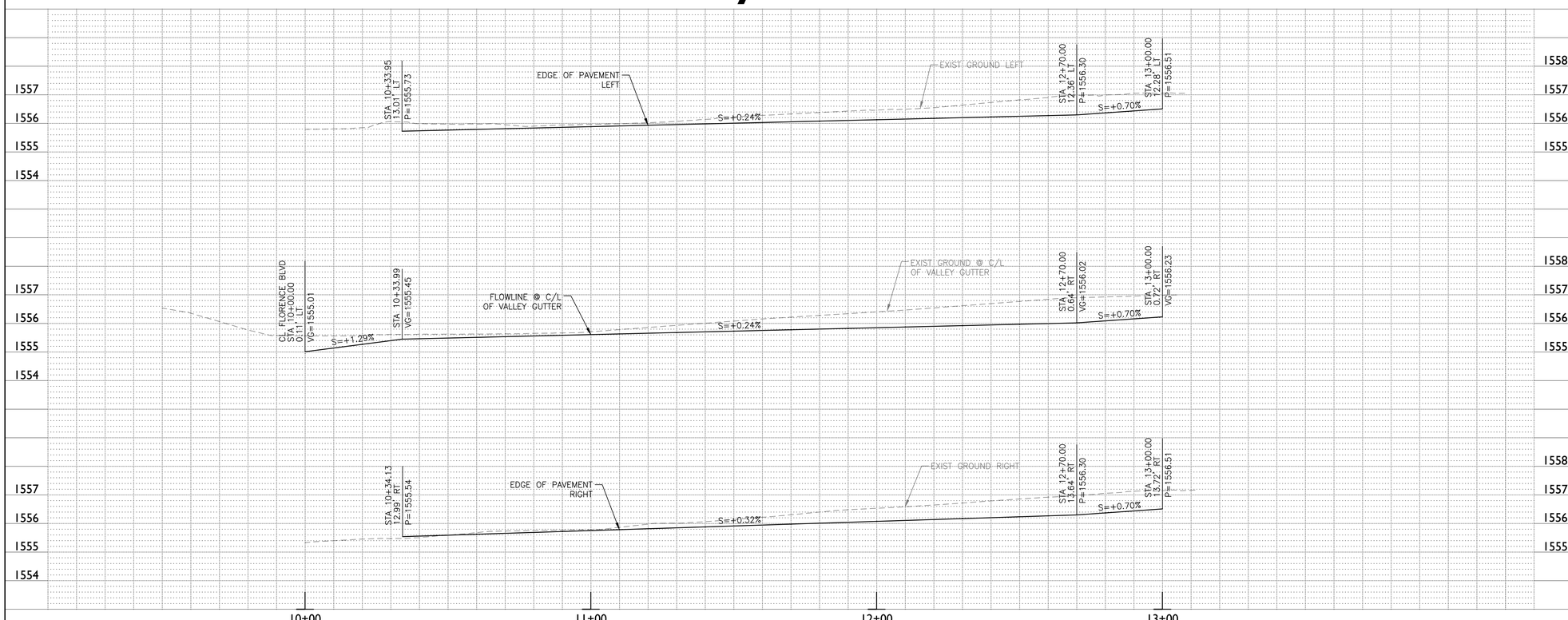
CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	592 SY
4	Valley Gutter per MAG Detail 240	1596 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	525 LF
13	5" Thick Concrete Driveway per MAG Detail 250 (See Sheet DT02)	211 SF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	31 SY
2	Remove Pavement Section	744 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	198 SF



Pennsylvania Ave





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Registered Professional Engineer (Civil)
CERTIFICATE NO. 49457
JONATHAN D. LASSUY
Date Signed 03/14/18
ARIZONA, U.S.A.
Expires 3/31/2018

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FLORENCE GARDENS PHASES IV AND V

PAVEMENT REPLACEMENT SHEET

DESIGNED BY	JDL	TOWN PROJECT NOS. T-08 & T-09
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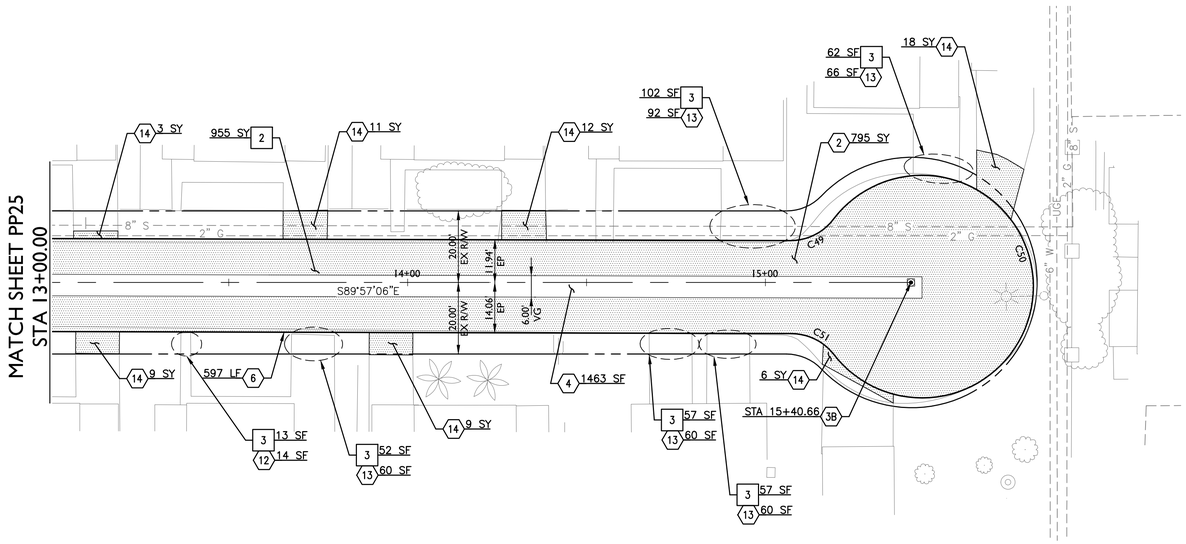
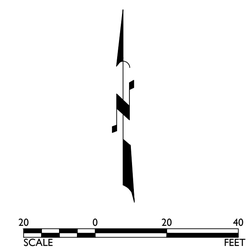
DRAWING NO. PP25 | SHEET 35 OF 51

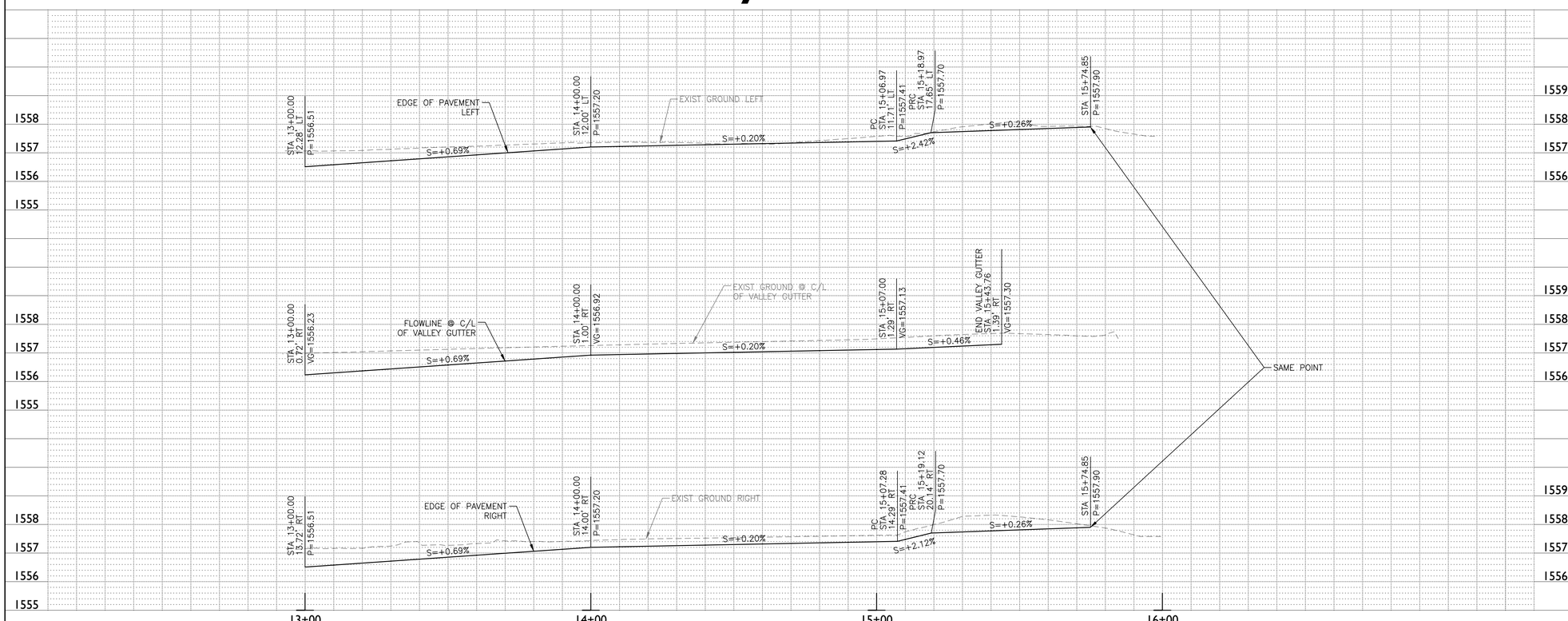


Pennsylvania Ave



CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	795 SY
3B	Survey Marker per MAG Detail 120-1 Type "B"	1 EA
4	Valley Gutter per MAG Detail 240	1463 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	597 LF
12	Sidewalk per MAG Detail 230 (See Sheet DT02)	14 SF
13	5" Thick Concrete Driveway per MAG Detail 250 (See Sheet DT02)	338 SF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	68 SY
2	Remove Pavement Section	955 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	343 SF



CURVE TABLE AT EDGE OF PAVEMENT				
CURVE	LENGTH	RADIUS	CHORD	DELTA
C49	13.87'	15.00'	13.39'	052°59'53"
C50	154.88'	31.11'	37.78'	285°13'19"
C51	13.67'	15.00'	13.20'	052°13'26"

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FLORENCE GARDENS
PHASES IV AND V

PAVEMENT REPLACEMENT SHEET

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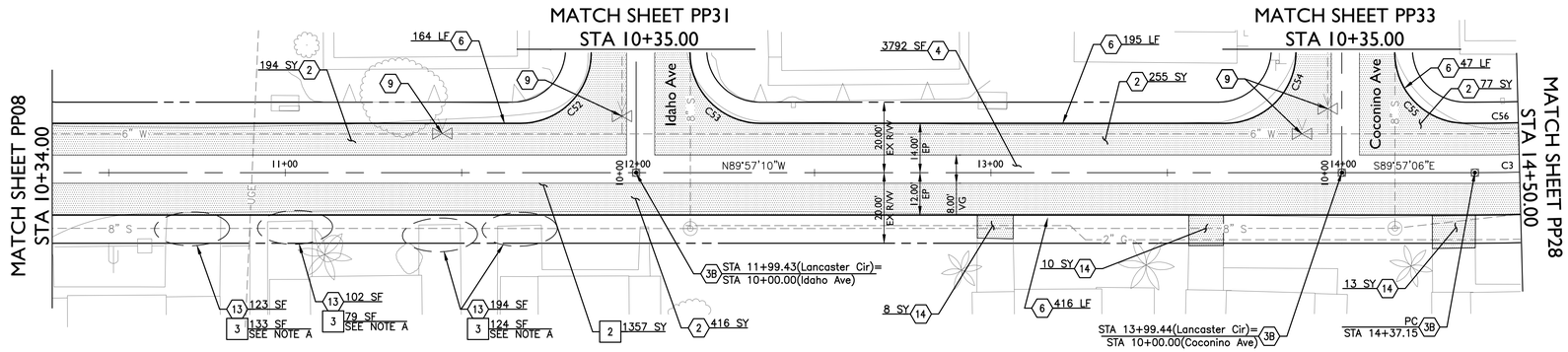
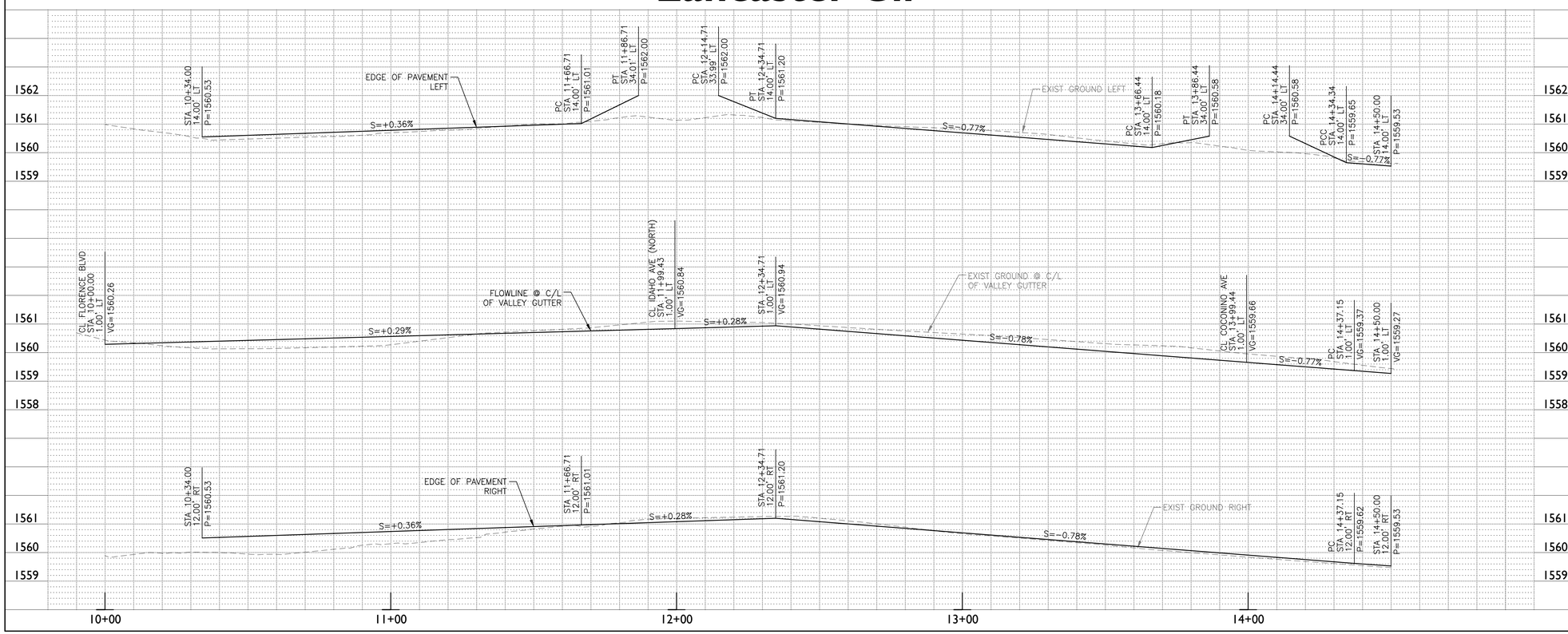
DRAWING NO.	PP26	SHEET 36 OF 51



NOTE A:
MATCH EXISTING CONCRETE DRIVEWAY
GRADES AT RIGHT-OF-WAY LINE.

Lancaster Cir

SCALE 20 0 20 40 FEET



CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	942 SY
3B	Survey Marker per MAG Detail 120-1 Type "B"	3 EA
4	Valley Gutter per MAG Detail 240	3792 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	822 LF
9	Adjust Valve Box and Cover to Grade per MAG Detail 391-1 Type "C"	4 EA
13	5" Thick Concrete Driveway per MAG Detail 250 (See Sheet DT02)	419 SF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	31 SY
2	Remove Pavement Section	1357 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	336 SF

CURVE TABLE AT CENTERLINE

CURVE	LENGTH	RADIUS	CHORD	DELTA
C3	736.96'	550.00'	683.05'	076°46'20"

CURVE TABLE AT CENTERLINE

CURVE	LENGTH	RADIUS	CHORD	DELTA
C3	736.96'	550.00'	683.05'	076°46'20"
C52	31.42'	20.00'	28.29'	090°01'20"
C53	31.41'	20.00'	28.28'	089°58'40"
C54	31.42'	20.00'	28.28'	090°00'00"
C55	31.31'	20.00'	28.21'	089°41'56"
C56	196.02'	536.05'	194.93'	020°57'07"

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FLORENCE GARDENS
PHASES IV AND V

PAVEMENT REPLACEMENT SHEET

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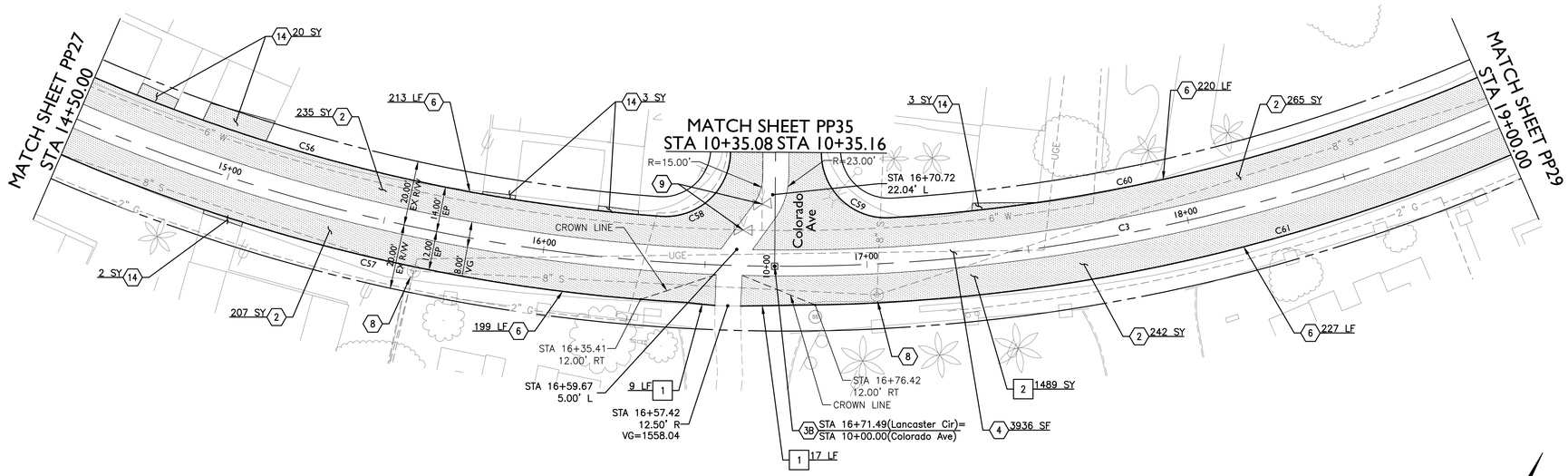
DRAWING NO.	PP27	SHEET 37 OF 51



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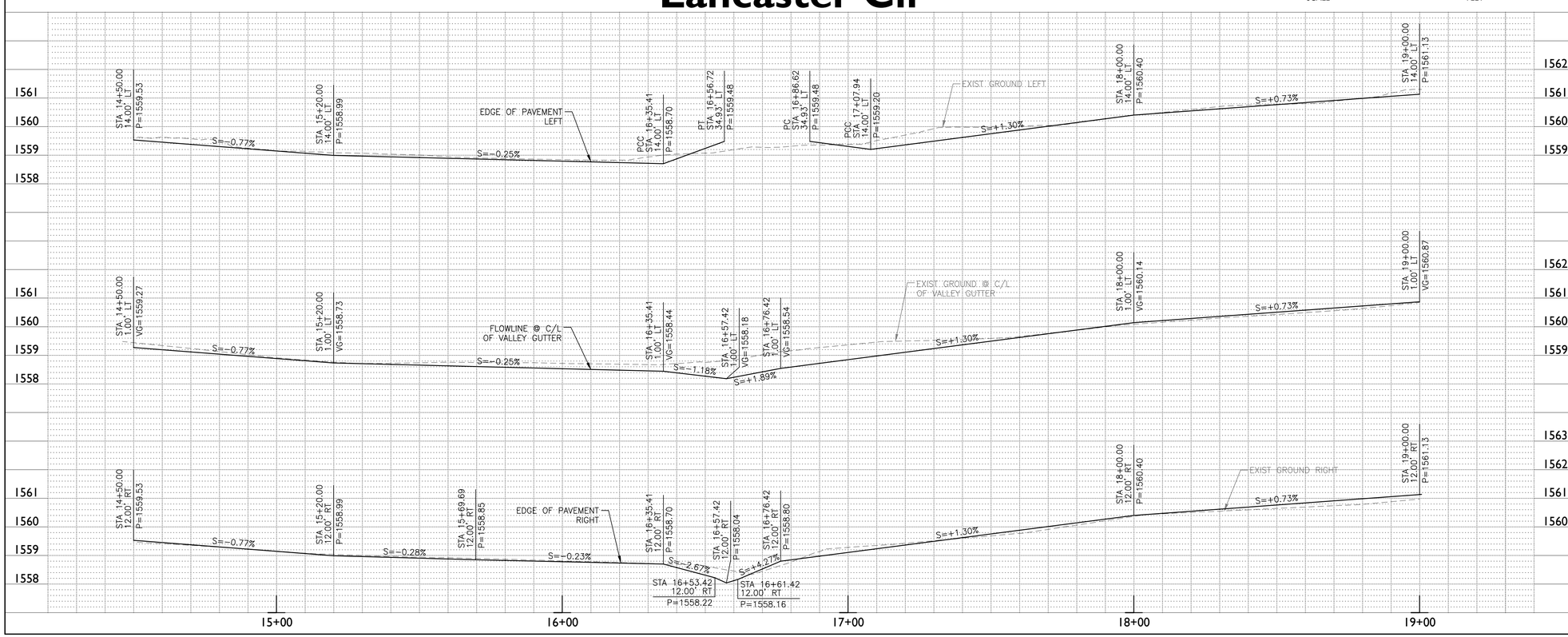

CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2		949 SY
3B	Survey Marker per MAG Detail 120-1 Type "B"		1 EA
4	Valley Gutter per MAG Detail 240		3936 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"		859 LF
8	Adjust Manhole to Grade per MAG Detail 422		2 EA
9	Adjust Valve Box and Cover to Grade per MAG Detail 391-1 Type "C"		2 EA
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)		28 SY
	1	Sawcut AC Pavement	26 LF
	2	Remove Pavement Section	1489 SY

SCALE 20 0 20 40 FEET

CURVE TABLE AT CENTERLINE

CURVE	LENGTH	RADIUS	CHORD	DELTA
C3	736.96'	550.00'	683.05'	076°46'20"

CURVE TABLE AT EDGE OF PAVEMENT

CURVE	LENGTH	RADIUS	CHORD	DELTA
C56	196.02'	536.05'	194.93'	020°57'07"
C57	212.25'	562.67'	210.99'	021°36'47"
C58	32.73'	20.00'	29.20'	093°46'40"
C59	32.73'	20.00'	29.20'	093°46'42"
C60	204.20'	535.97'	202.96'	021°49'44"
C61	305.72'	561.97'	301.96'	031°10'10"

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PHASES IV AND V

PAVEMENT REPLACEMENT SHEET

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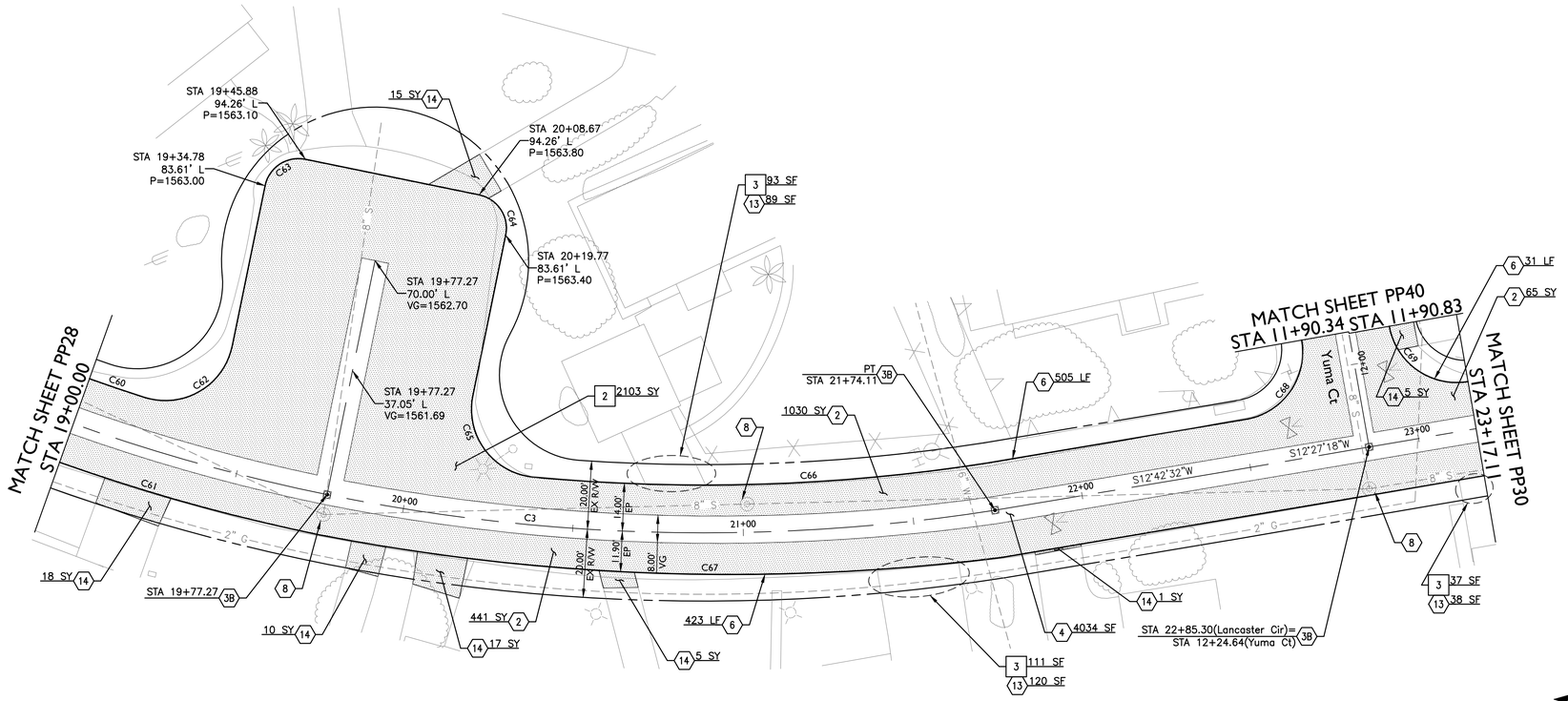

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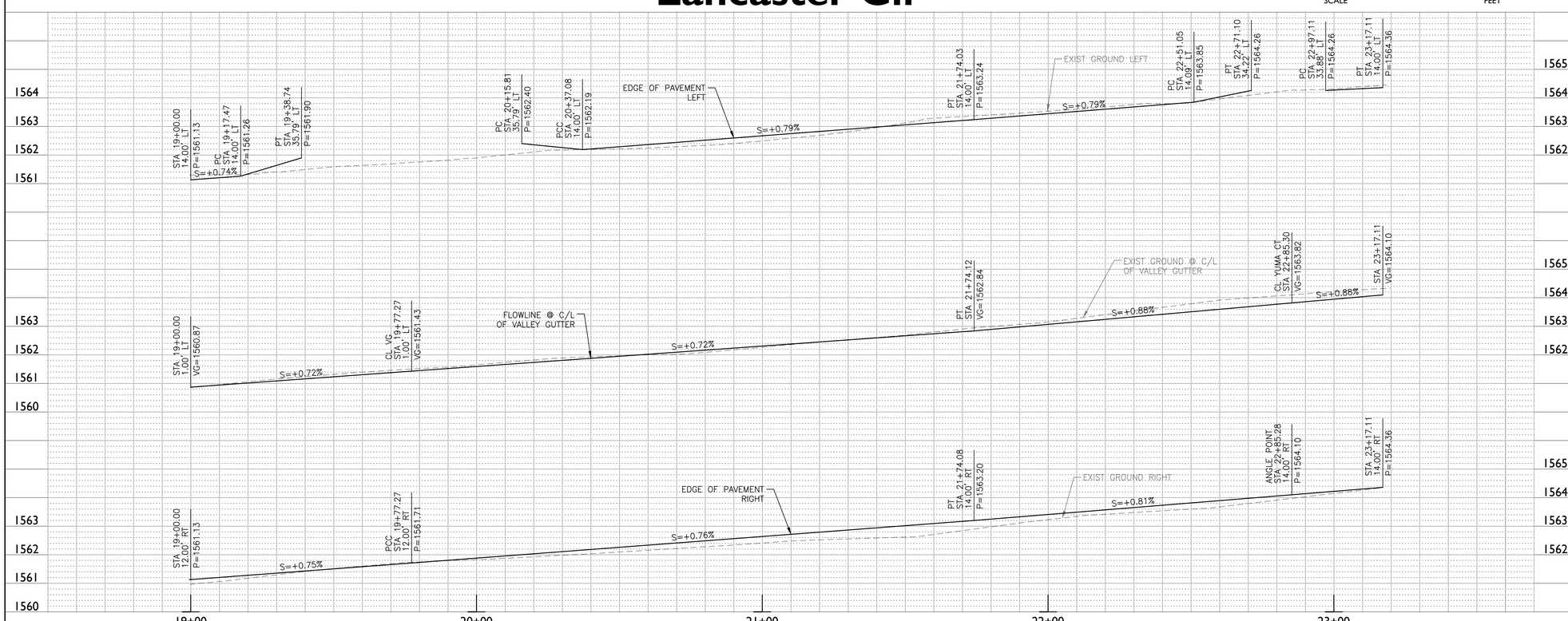

CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	1536 SY
3B	Survey Marker per MAG Detail 120-1 Type "B"	3 EA
4	Valley Gutter per MAG Detail 240	4034 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	959 LF
8	Adjust Manhole to Grade per MAG Detail 422	3 EA
13	5" Thick Concrete Driveway per MAG Detail 250 (See Sheet DT02)	247 SF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	71 SY
2	Remove Pavement Section	2103 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	241 SF

CURVE TABLE AT CENTERLINE

CURVE	LENGTH	RADIUS	CHORD	DELTA
C3	736.96'	550.00'	683.05'	076°46'20"

CURVE TABLE AT EDGE OF PAVEMENT

CURVE	LENGTH	RADIUS	CHORD	DELTA
C60	204.20'	535.97'	202.96'	021°49'44"
C61	305.72'	561.97'	301.96'	031°10'10"
C62	33.59'	20.00'	29.78'	096°13'47"
C63	15.71'	10.00'	14.14'	090°00'00"
C64	15.71'	10.00'	14.14'	090°00'00"
C65	33.59'	20.00'	29.78'	096°13'51"
C66	133.46'	536.05'	133.12'	014°15'54"
C67	201.38'	632.32'	200.53'	018°14'51"
C68	31.59'	20.00'	28.41'	090°30'32"
C69	31.29'	20.00'	28.20'	089°38'33"

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FLORENCE GARDENS
PHASES IV AND V

PAVEMENT REPLACEMENT SHEET

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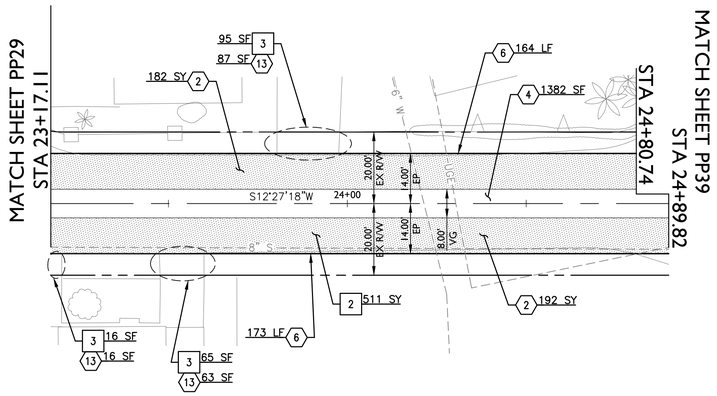

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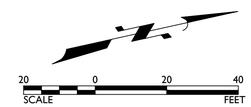

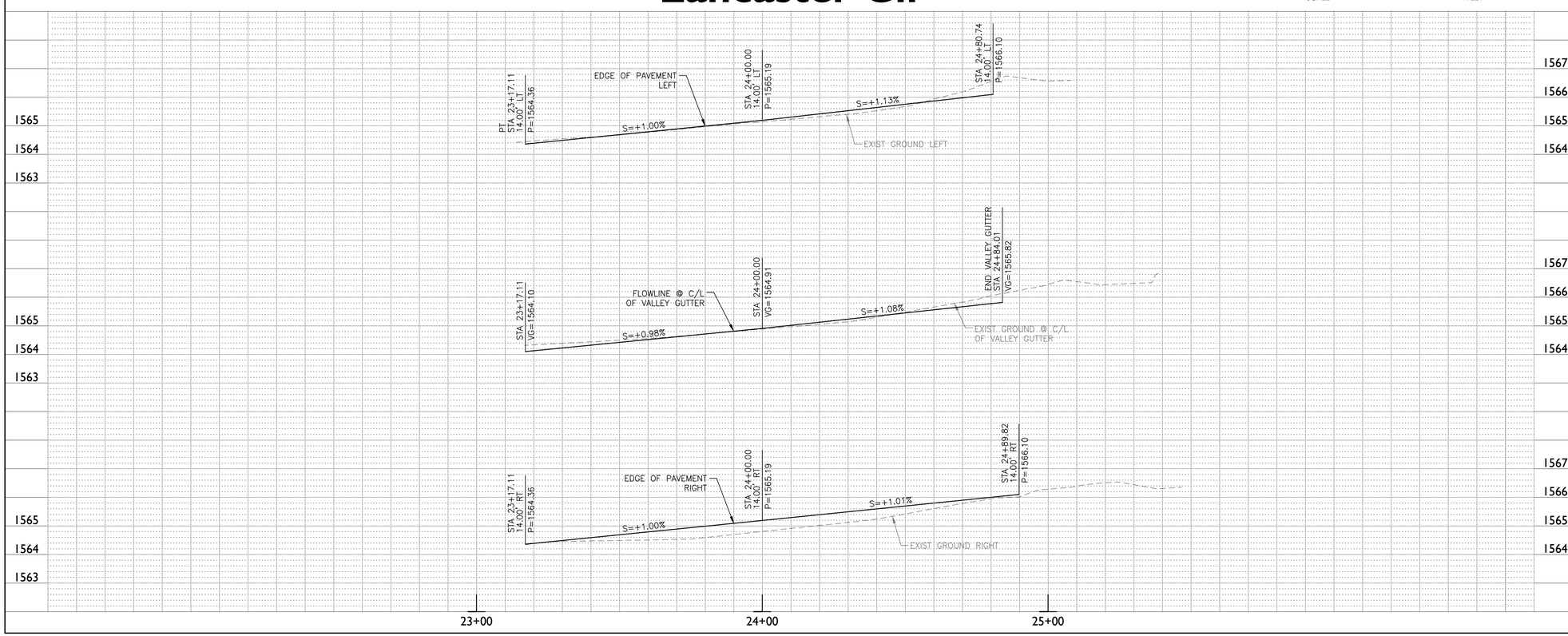

CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	374 SY
4	Valley Gutter per MAG Detail 240	1382 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	337 LF
13	5" Thick Concrete Driveway per MAG Detail 250 (See Sheet DT02)	166 SF
2	Remove Pavement Section	511 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	176 SF

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PAVEMENT REPLACEMENT SHEET

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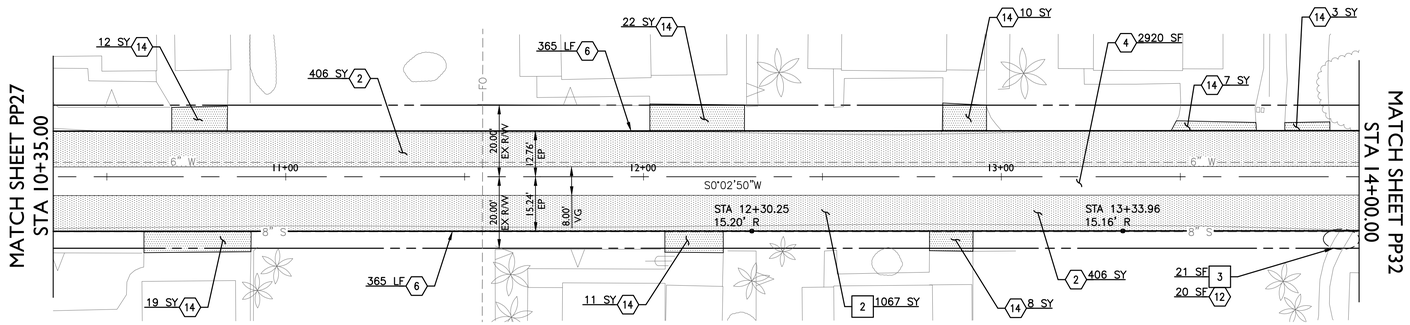
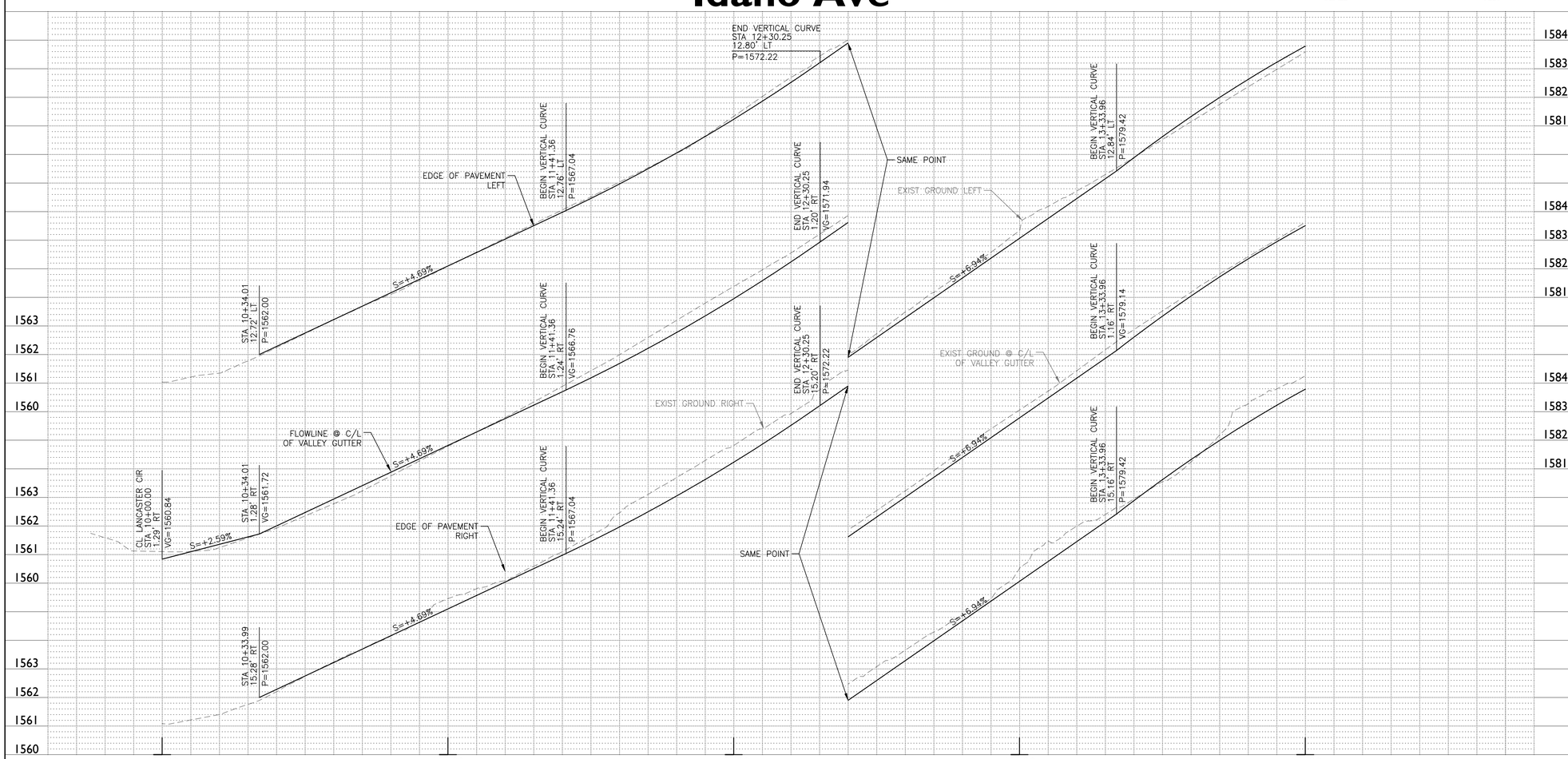
DRAWING NO.	PP30	SHEET 40 OF 51



Idaho Ave



SCALE 20 0 20 40 FEET

CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	812 SY
4	Valley Gutter per MAG Detail 240	2920 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	730 LF
12	Sidewalk per MAG Detail 230 (See Sheet DT02)	20 SF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	92 SY
2	Remove Pavement Section	1067 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	21 SF

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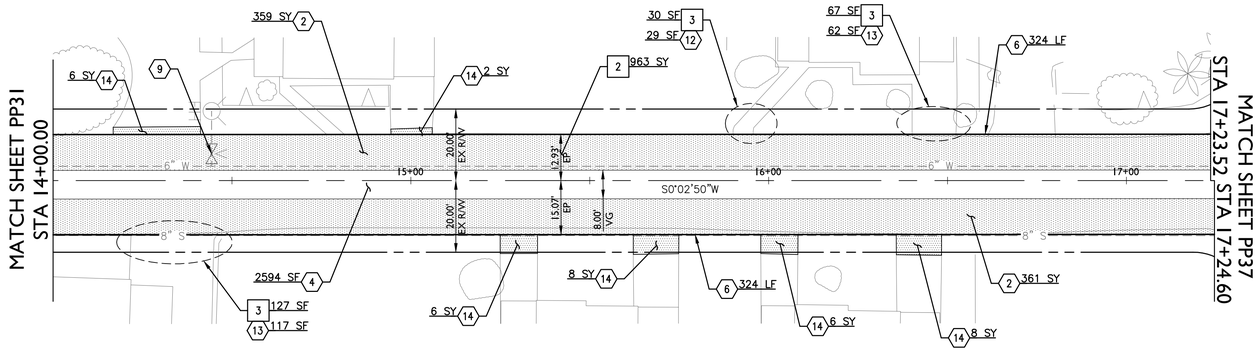
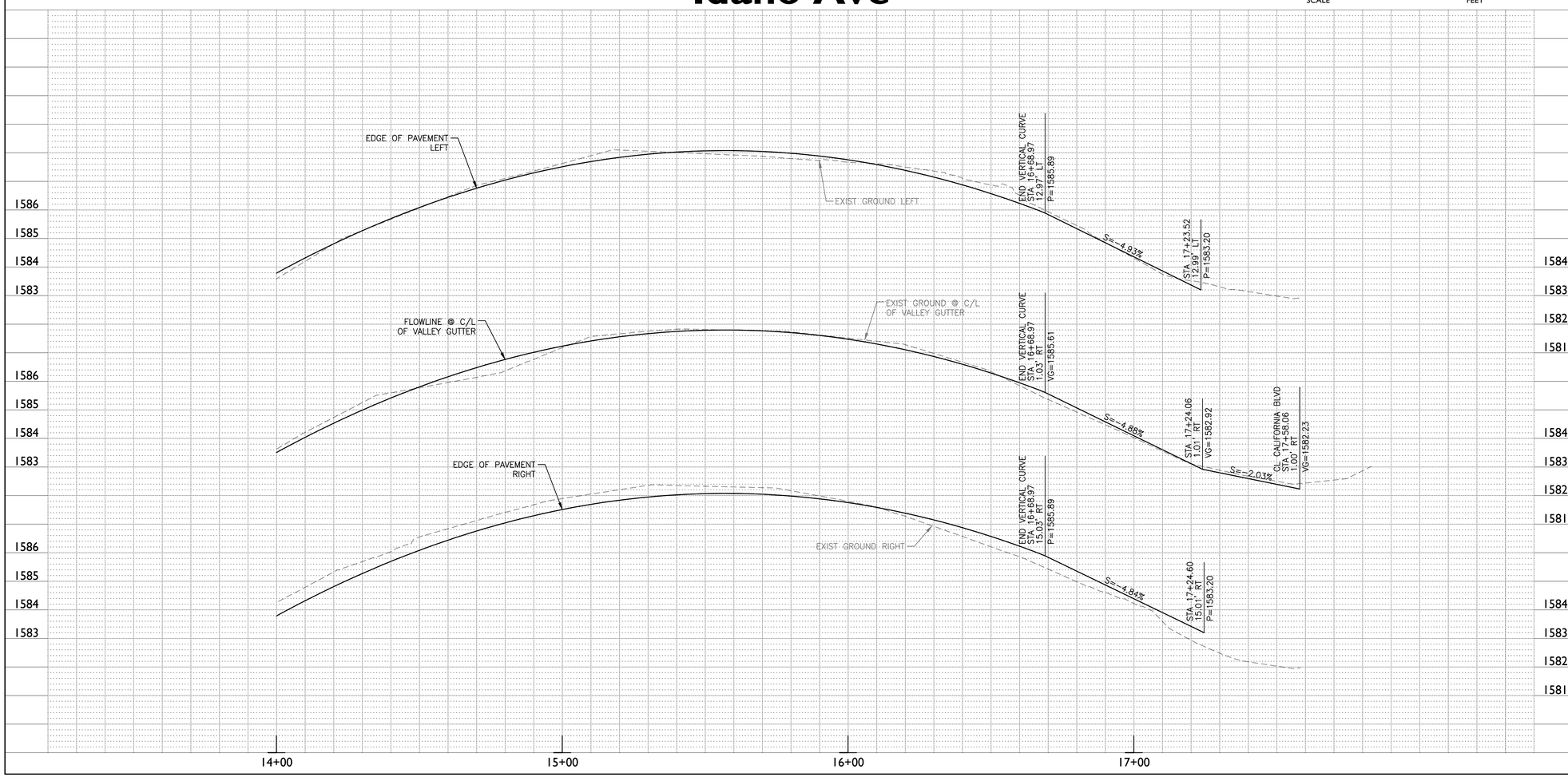


Idaho Ave



CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	720 SY
4	Valley Gutter per MAG Detail 240	2594 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	648 LF
9	Adjust Valve Box and Cover to Grade per MAG Detail 391–1 Type "C"	1 EA
12	Sidewalk per MAG Detail 230 (See Sheet DT02)	29 SF
13	5" Thick Concrete Driveway per MAG Detail 250 (See Sheet DT02)	179 SF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	36 SY
2	Remove Pavement Section	963 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	224 SF

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PHASES IV AND V

PAVEMENT REPLACEMENT SHEET

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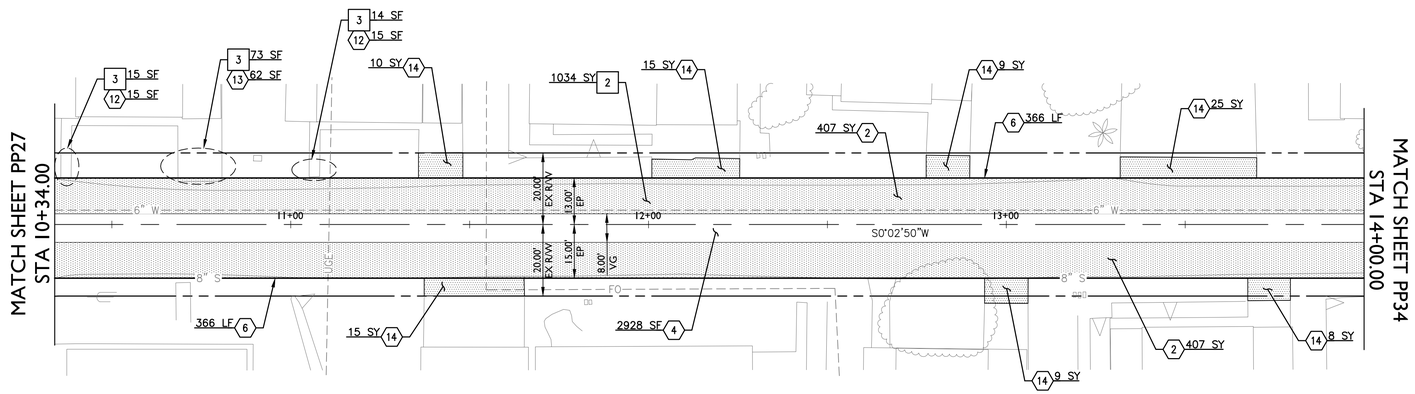
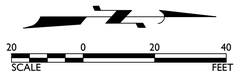
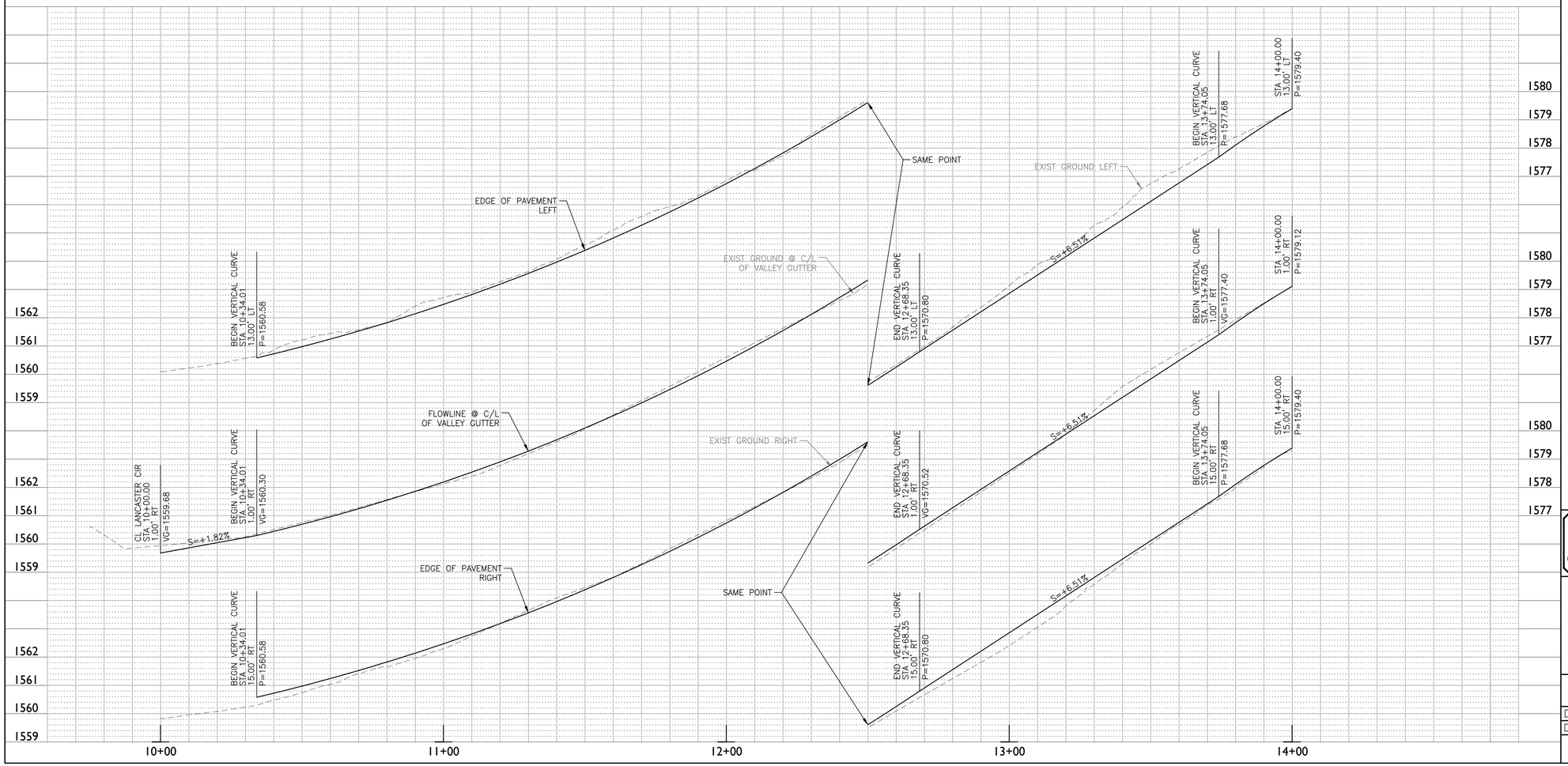


Coconino Ave





CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	814 SY
4	Valley Gutter per MAG Detail 240	2928 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	732 LF
12	Sidewalk per MAG Detail 230 (See Sheet DT02)	30 SF
13	5" Thick Concrete Driveway per MAG Detail 250 (See Sheet DT02)	62 SF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	91 SY
2	Remove Pavement Section	1034 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	102 SF

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PHASES IV AND V

PAVEMENT REPLACEMENT SHEET

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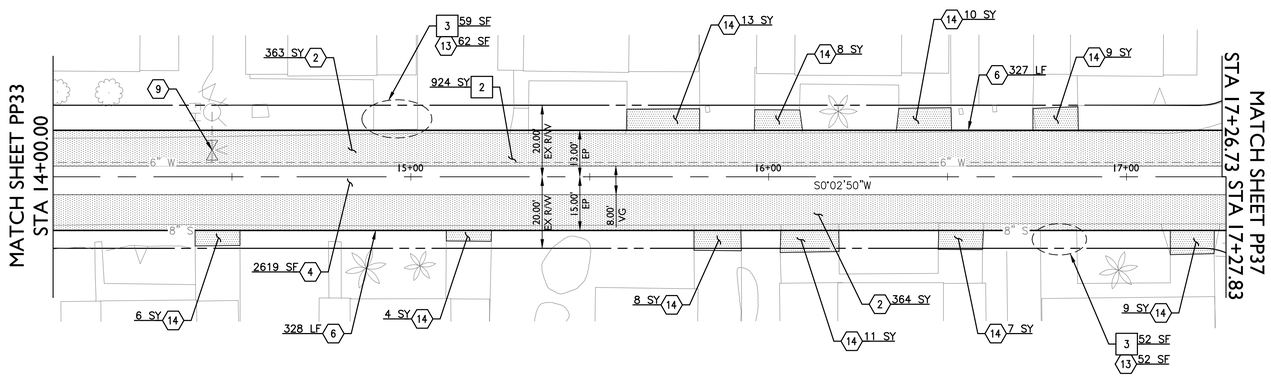
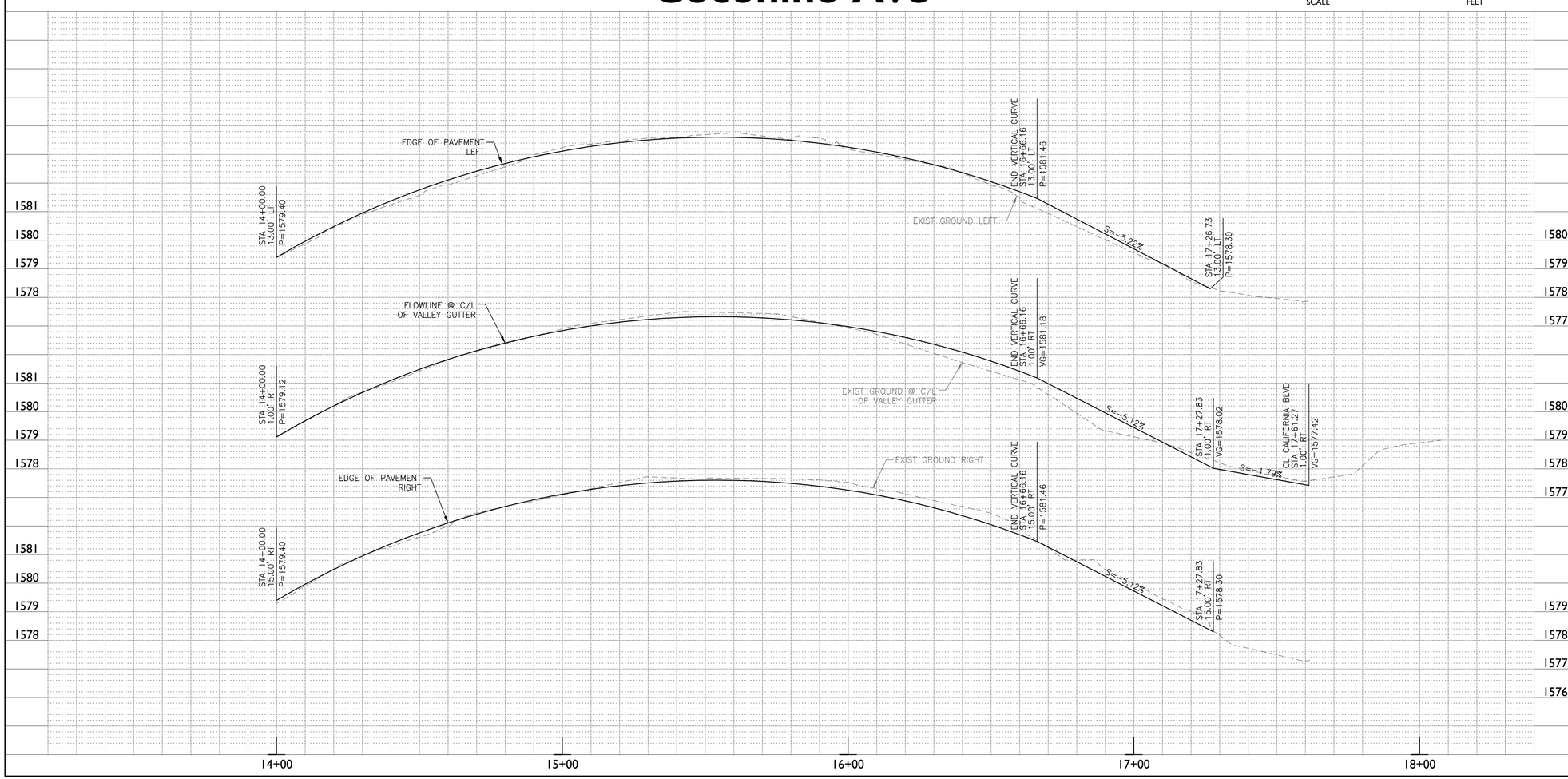
DRAWING NO.	PP33	SHEET 43 OF 51



Coconino Ave



CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	727 SY
4	Valley Gutter per MAG Detail 240	2619 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	655 LF
9	Adjust Valve Box and Cover to Grade per MAG Detail 391–1 Type "C"	1 EA
13	5" Thick Concrete Driveway per MAG Detail 250 (See Sheet DT02)	114 SF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	85 SY
2	Remove Pavement Section	924 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	111 SF

Call at least two full working days before you begin excavation.
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In Maricopa County: (602)263-1100

TOWN OF FLORENCE

Registered Professional Engineer (Civil)
CERTIFICATE NO. 49457
JONATHAN D. LASSUY
Date Signed 09/14/17
ARIZONA U.S.A.
Expires 3/31/2018

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Mesa, AZ 85210
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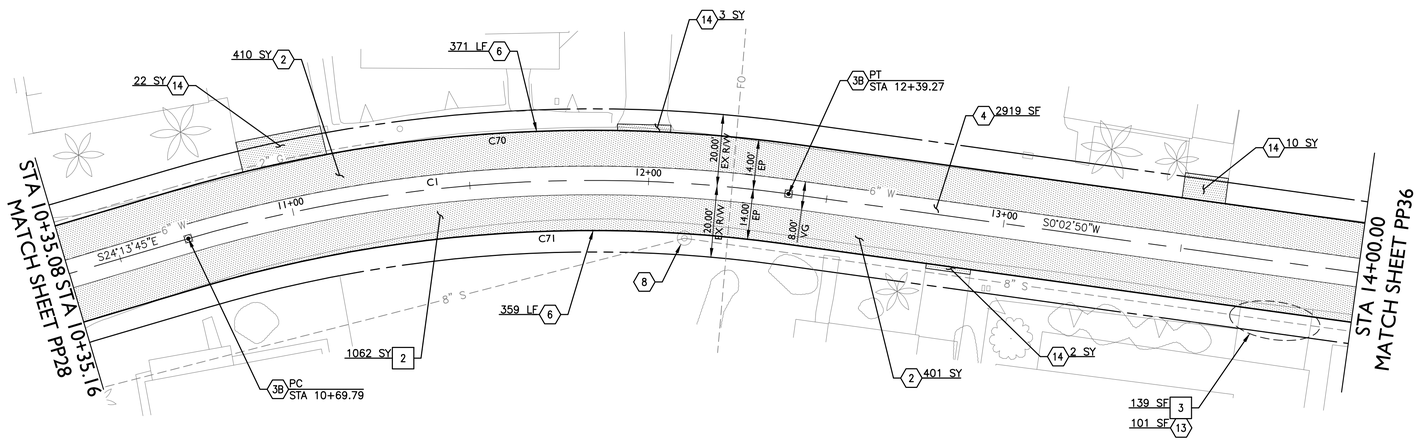
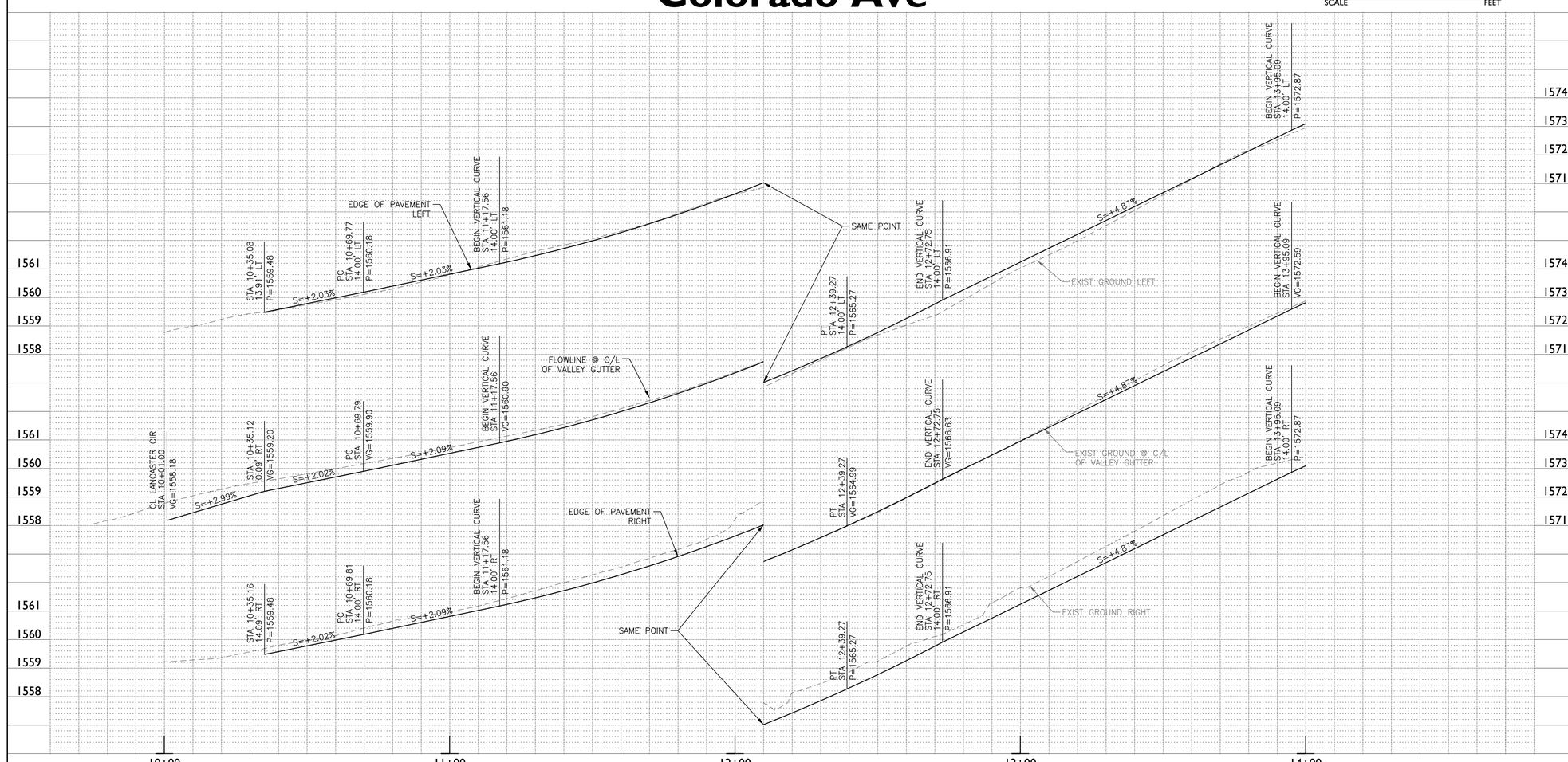
FLORENCE GARDENS
PHASES IV AND V

PAVEMENT REPLACEMENT SHEET

DESIGNED BY	JDL	TOWN PROJECT NOS. T–08 & T–09
DRAWN BY	RW	
DRAWING NO.	PP34	SHEET 44 OF 51



Colorado Ave



20 0 20 40
SCALE FEET

CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	811 SY
3B	Survey Marker per MAG Detail 120-1 Type "B"	2 EA
4	Valley Gutter per MAG Detail 240	2919 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	730 LF
8	Adjust Manhole to Grade per MAG Detail 422	1 EA
13	5" Thick Concrete Driveway per MAG Detail 250 (See Sheet DT02)	101 SF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	37 SY
2	Remove Pavement Section	1062 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	139 SF

CURVE TABLE AT CENTERLINE

CURVE	LENGTH	RADIUS	CHORD	DELTA
C1	169.48'	400.00'	168.22'	024°16'35"

CURVE TABLE AT EDGE OF PAVEMENT

CURVE	LENGTH	RADIUS	CHORD	DELTA
C70	175.43'	413.99'	174.12'	024°16'45"
C71	163.53'	385.99'	162.31'	024°16'26"

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PAVEMENT REPLACEMENT SHEET

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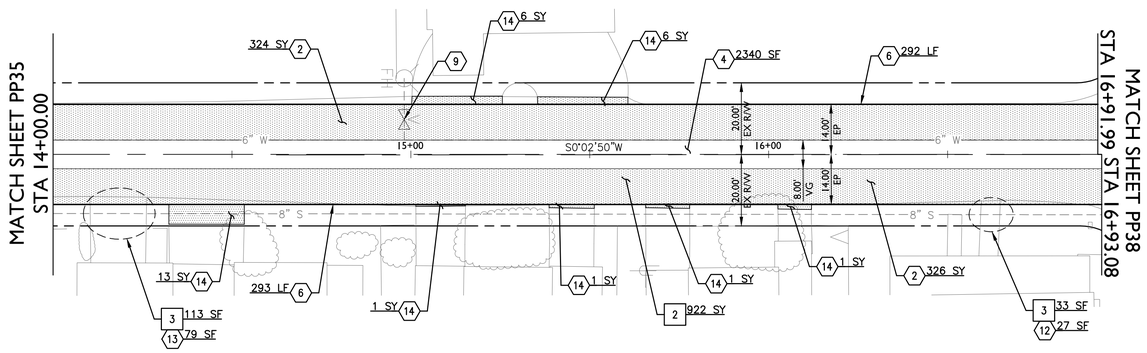
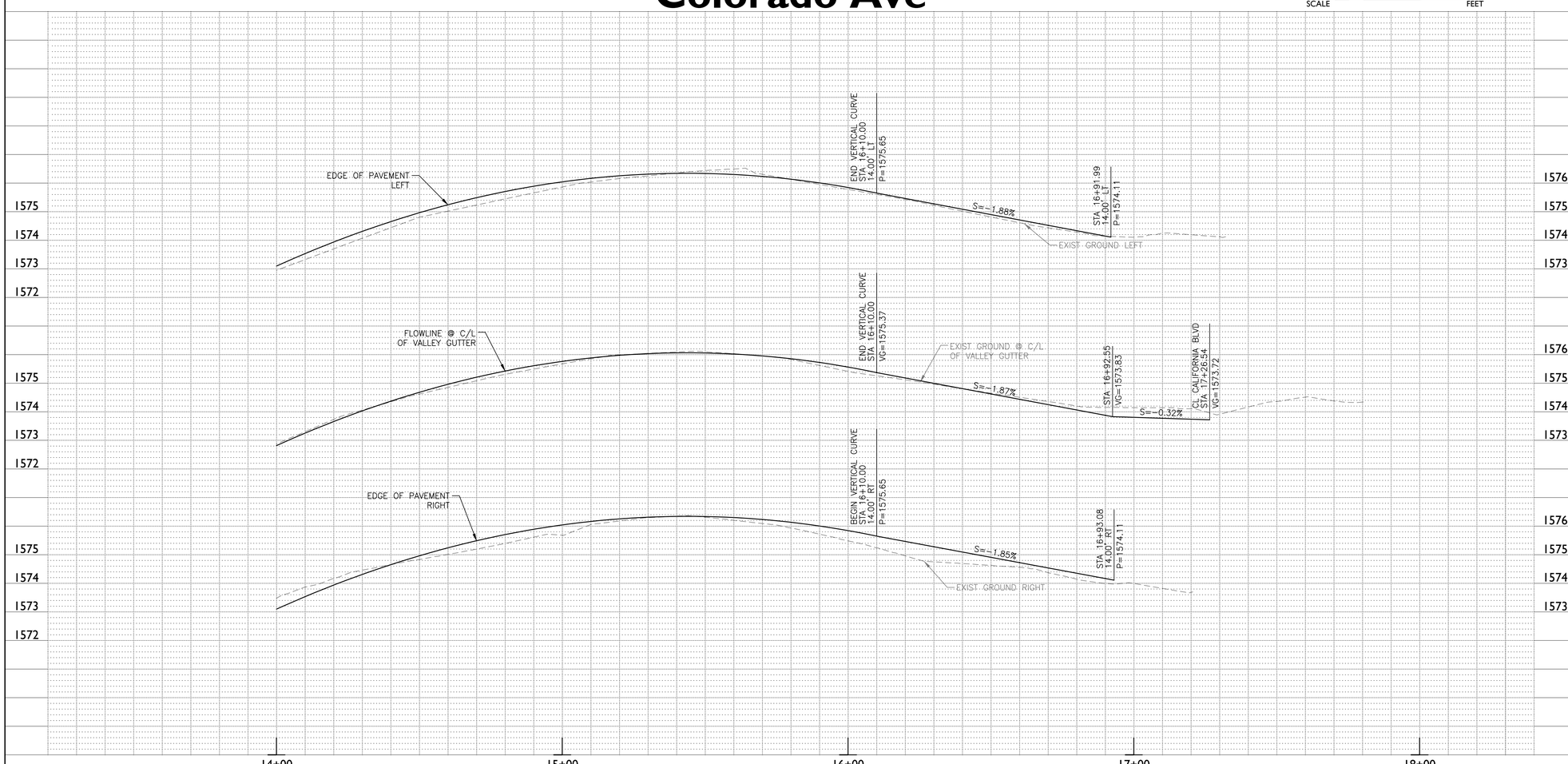


Colorado Ave



SCALE 20 0 20 40 FEET

CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	650 SY
4	Valley Gutter per MAG Detail 240	2340 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	585 LF
9	Adjust Valve Box and Cover to Grade per MAG Detail 391–1 Type "C"	1 EA
12	Sidewalk per MAG Detail 230 (See Sheet DT02)	27 SF
13	5" Thick Concrete Driveway per MAG Detail 250 (See Sheet DT02)	79 SF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	29 SY
2	Remove Pavement Section	922 SY
3	Remove Concrete (Valley Gutter/Sidewalk/Driveway)	146 SF

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PAVEMENT REPLACEMENT SHEET

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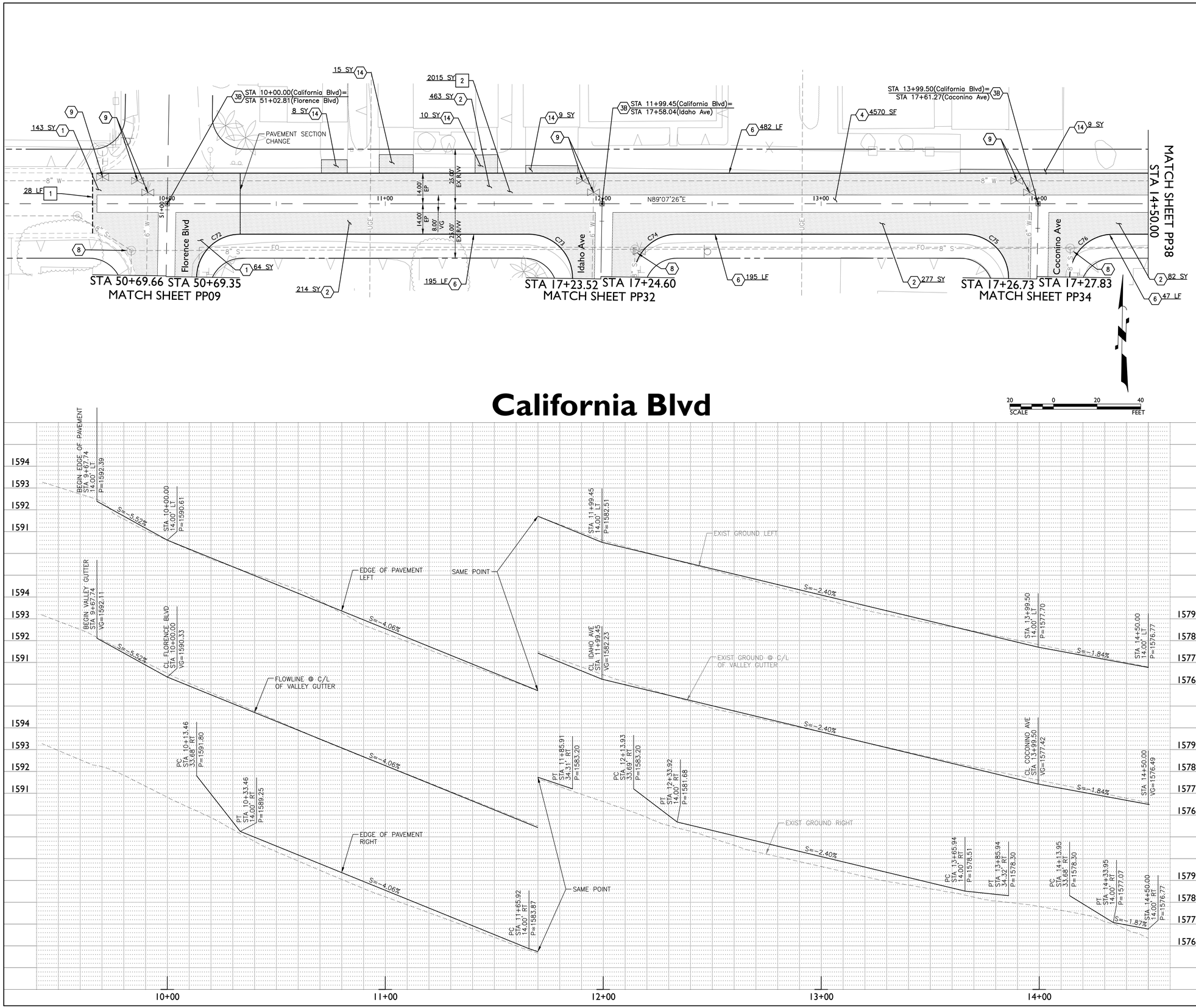
DRAWING NO.	PP36	SHEET 46 OF 51



California Blvd

CONSTRUCTION NOTES

1	3.0" AC Pavement over 8" ABC per Structural Section #1	207 SY
2	2.5" AC Pavement over 6" ABC per Structural Section #2	1036 SY
3B	Survey Marker per MAG Detail 120–1 Type "B"	3 EA
4	Valley Gutter per MAG Detail 240	4570 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	919 LF
8	Adjust Manhole to Grade per MAG Detail 422	3 EA
9	Adjust Valve Box and Cover to Grade per MAG Detail 391–1 Type "C"	7 EA
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	51 SY
1	Sawcut AC Pavement	28 LF
2	Remove Pavement Section	2015 SY

CURVE TABLE AT EDGE OF PAVEMENT

CURVE	LENGTH	RADIUS	CHORD	DELTA
C72	31.09'	20.00'	28.06'	089°04'37"
C73	31.73'	20.00'	28.51'	090°54'05"
C74	31.10'	20.00'	28.06'	089°05'55"
C75	31.74'	20.00'	28.51'	090°55'24"
C76	31.09'	20.00'	28.06'	089°04'36"

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PHASES IV AND V

PAVEMENT REPLACEMENT SHEET

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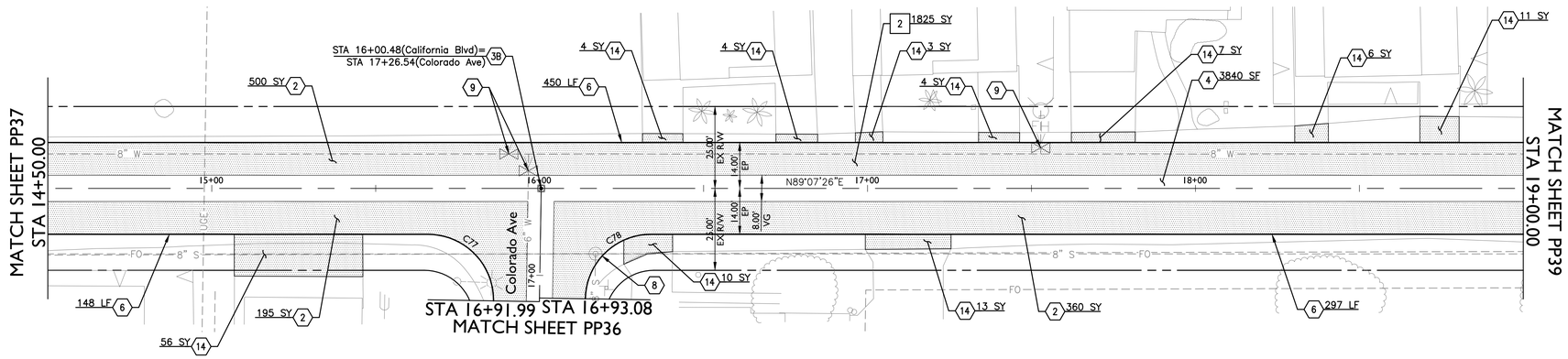

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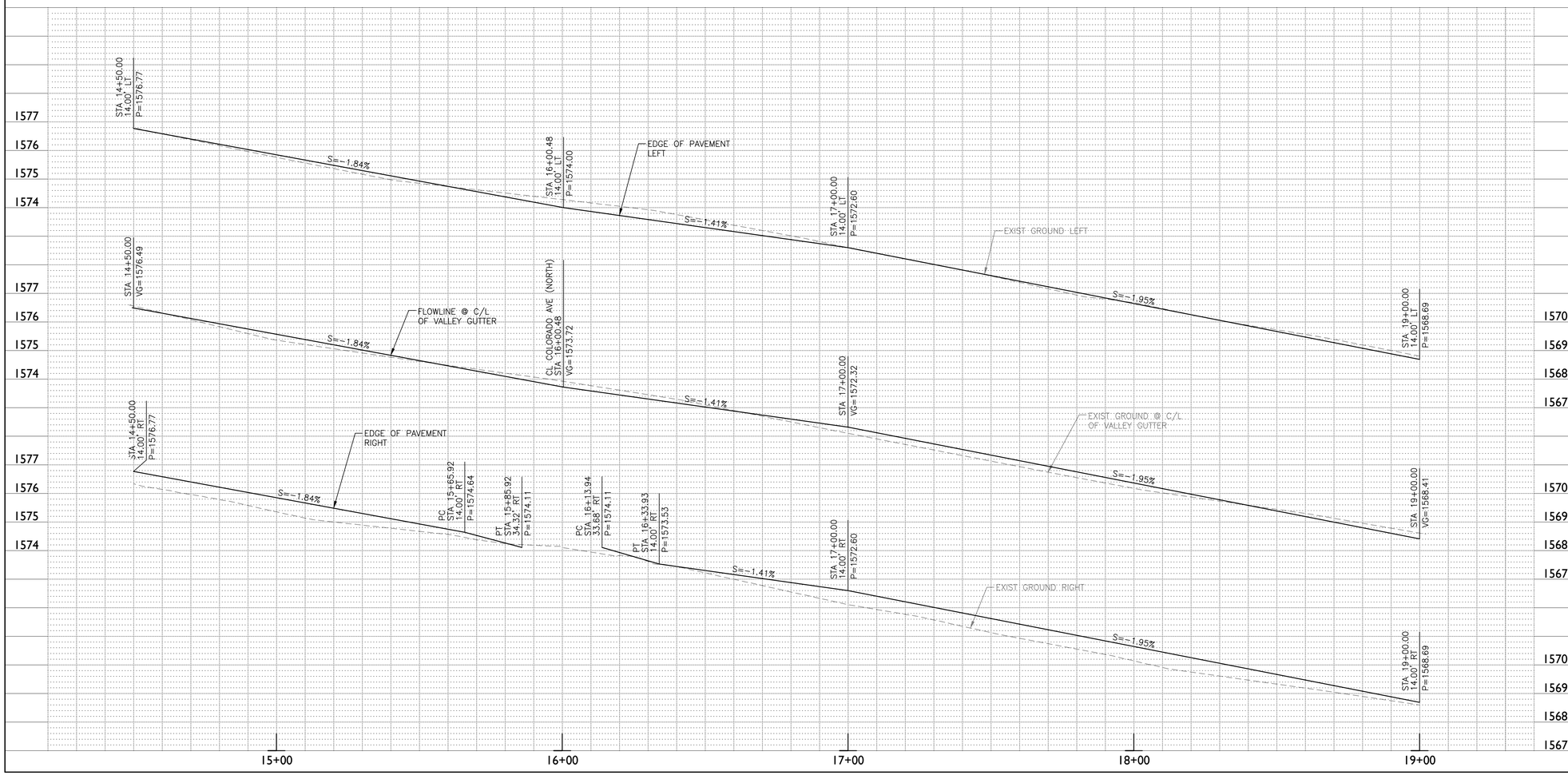

CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	1055 SY
3B	Survey Marker per MAG Detail 120-1 Type "B"	1 EA
4	Valley Gutter per MAG Detail 240	3840 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	895 LF
8	Adjust Manhole to Grade per MAG Detail 422	1 EA
9	Adjust Valve Box and Cover to Grade per MAG Detail 391-1 Type "C"	3 EA
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	118 SY
2	Remove Pavement Section	1825 SY

CURVE TABLE AT EDGE OF PAVEMENT				
CURVE	LENGTH	RADIUS	CHORD	DELTA
C77	31.74'	20.00'	28.51'	090°55'25"
C78	31.09'	20.00'	28.06'	089°04'35"

SCALE 20 0 20 40 FEET

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PAVEMENT REPLACEMENT SHEET

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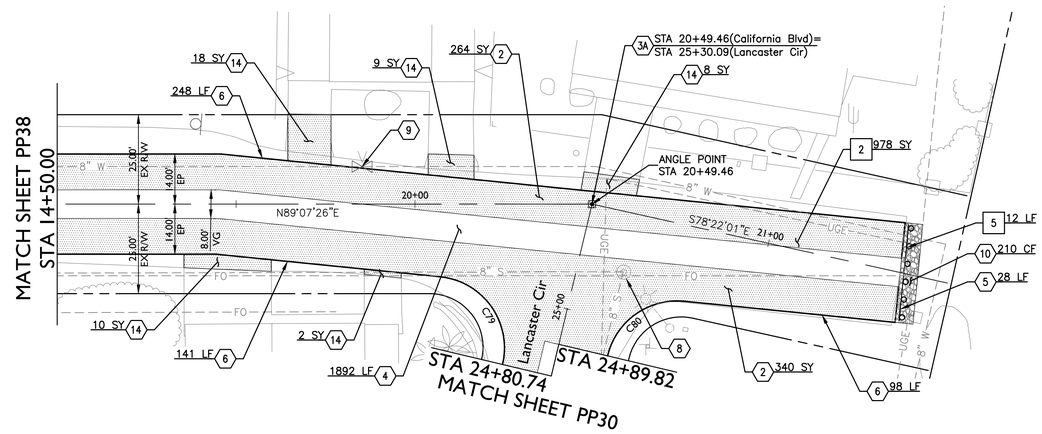

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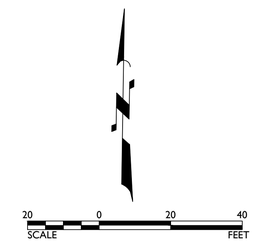

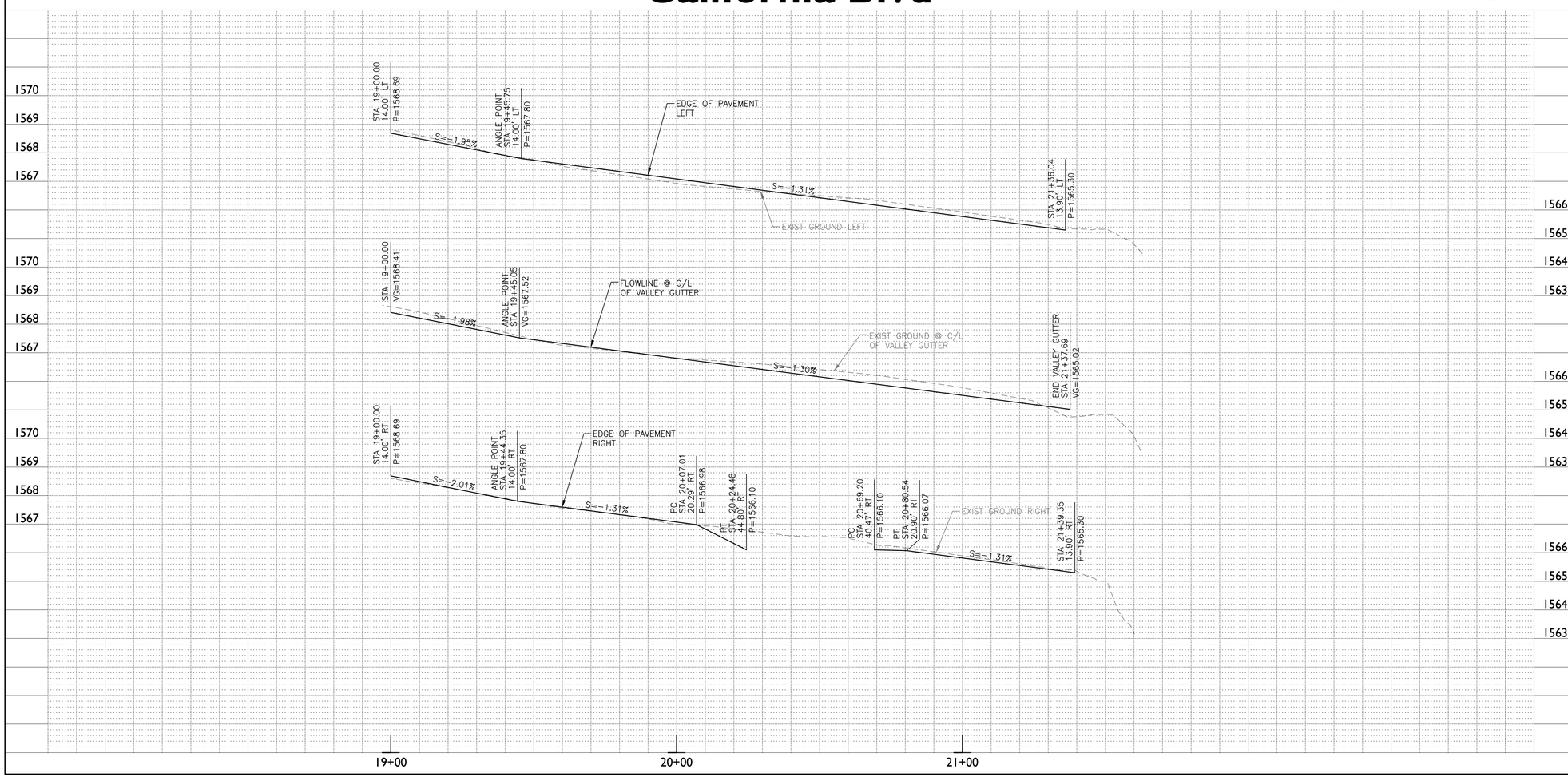

CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	604 SY
3A	Survey Marker per MAG Detail 120-1 Type "A"	1 EA
4	Valley Gutter per MAG Detail 240	1892 SF
5	Barricades per MAG Detail 130 Type "A"	28 LF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	487 LF
8	Adjust Manhole to Grade per MAG Detail 422	1 EA
9	Adjust Valve Box and Cover to Grade per MAG Detail 391-1 Type "C"	1 EA
10	18" Thick Dumped Riprap, D50=6"	210 CF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	47 SY
2	Remove Pavement Section	978 SY
5	Remove Barricade	12 LF

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FLORENCE GARDENS
PHASES IV AND V

PAVEMENT REPLACEMENT SHEET

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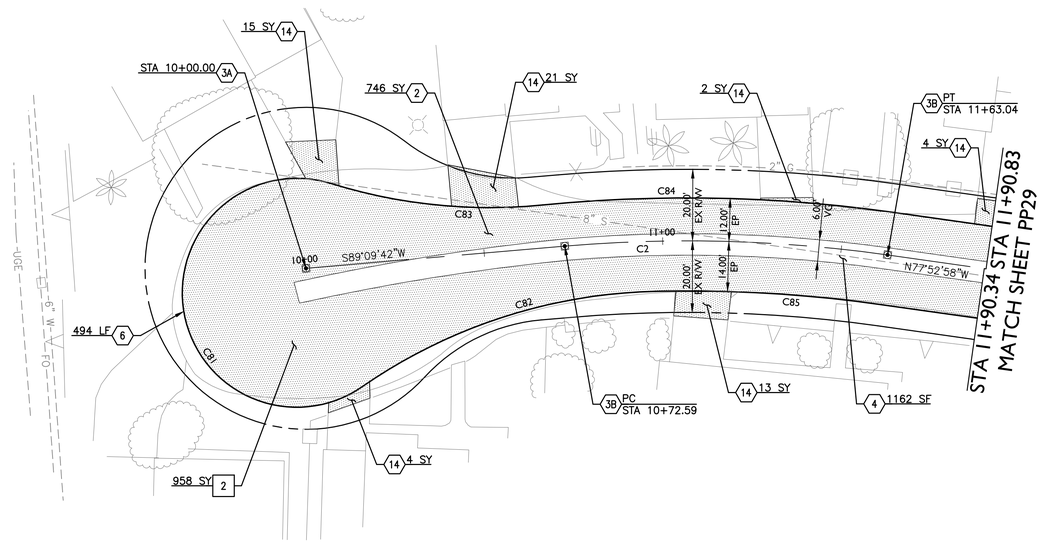
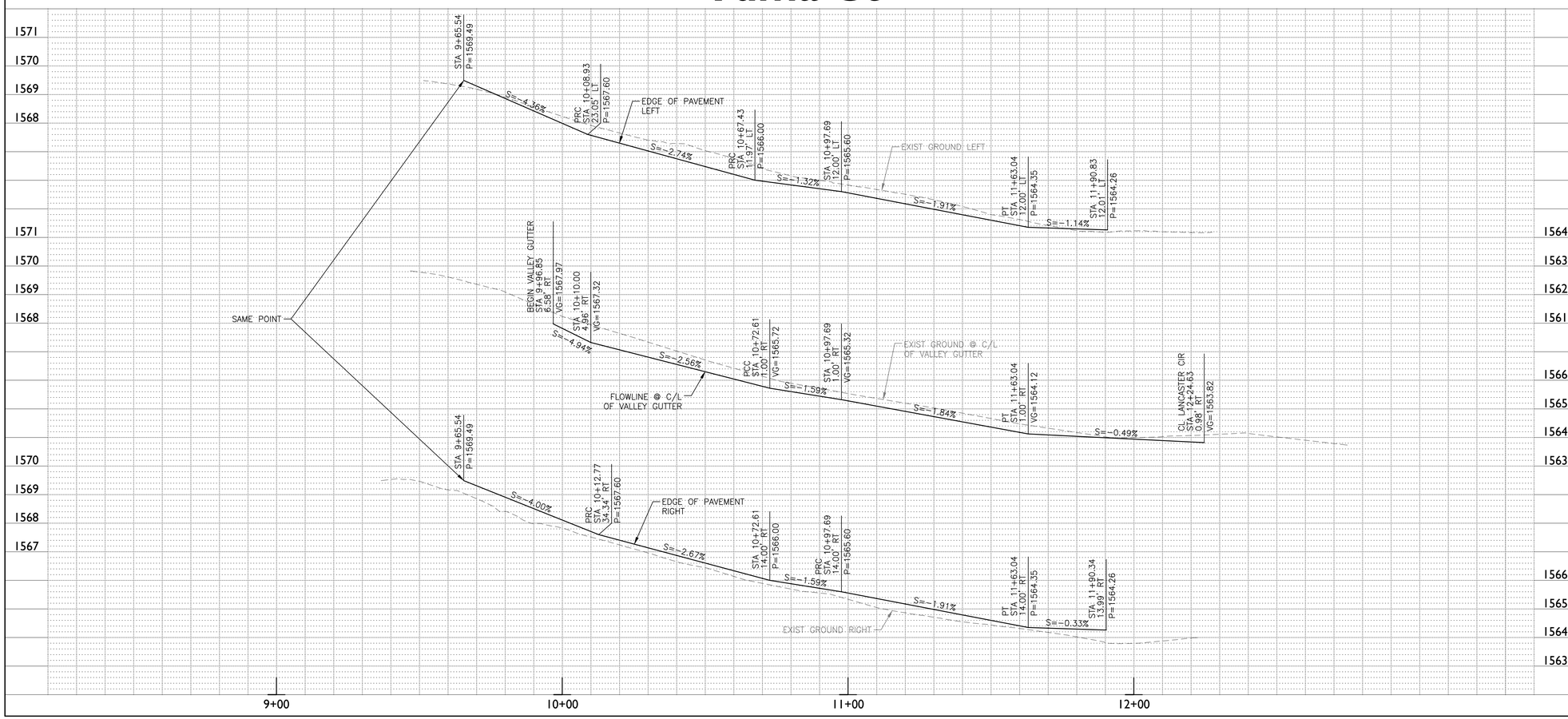


Yuma Ct



SCALE 20 0 20 40 FEET

CONSTRUCTION NOTES

2	2.5" AC Pavement over 6" ABC per Structural Section #2	746 SY
3A	Survey Marker per MAG Detail 120-1 Type "A"	1 EA
3B	Survey Marker per MAG Detail 120-1 Type "B"	2 EA
4	Valley Gutter per MAG Detail 240	1162 SF
6	Thickened Edge of Pavement per MAG Detail 201 Type "A"	494 LF
14	1.5" AC Pavement over Compacted Native Material per Structural Section #4. (See Sheet DT02)	59 SY
2	Remove Pavement Section	958 SY

CURVE TABLE AT CENTERLINE

CURVE	LENGTH	RADIUS	CHORD	DELTA
C2	90.45'	400.00'	90.25'	012°57'20"

CURVE TABLE AT EDGE OF PAVEMENT

CURVE	LENGTH	RADIUS	CHORD	DELTA
C81	129.58'	32.00'	57.52'	232°00'28"
C82	87.51'	150.00'	86.28'	033°25'36"
C83	59.94'	150.00'	59.54'	022°53'39"
C84	98.32'	412.00'	98.09'	013°40'25"
C85	63.06'	386.00'	62.99'	009°21'39"

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FLORENCE GARDENS PHASES IV AND V

PAVEMENT REPLACEMENT SHEET

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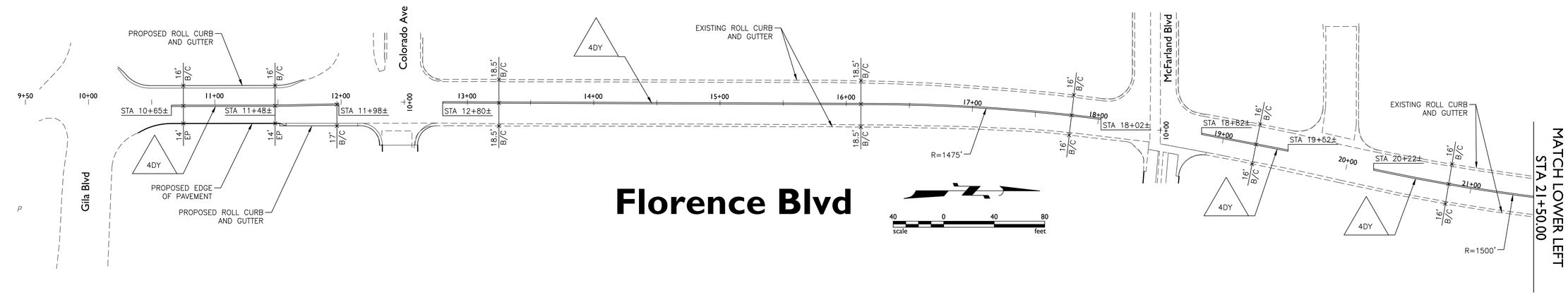

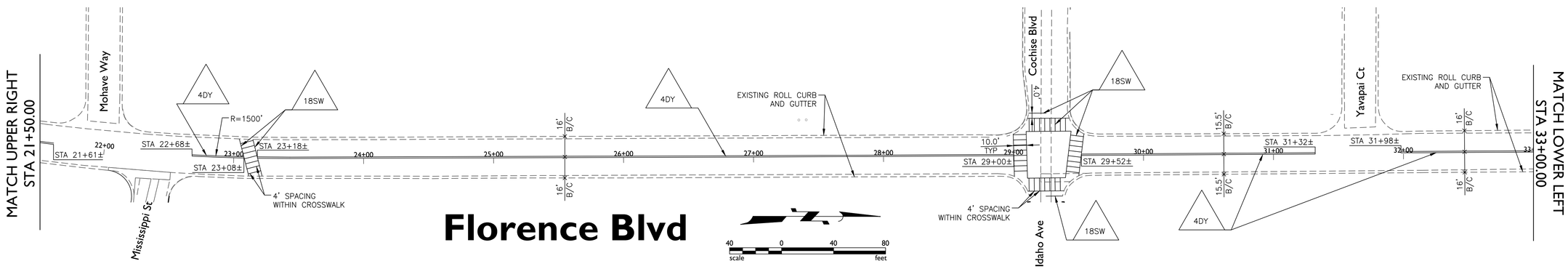

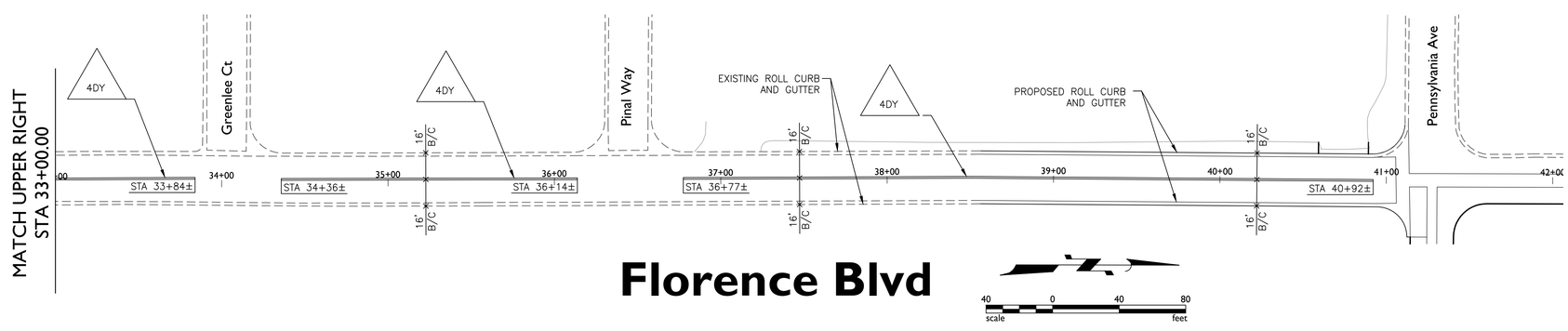

PAVEMENT MARKING LEGEND

4DY	4" SOLID DOUBLE YELLOW LINE
18SW	18" SOLID WHITE LINE

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PHASES IV AND V

PAVEMENT MARKING SHEET

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