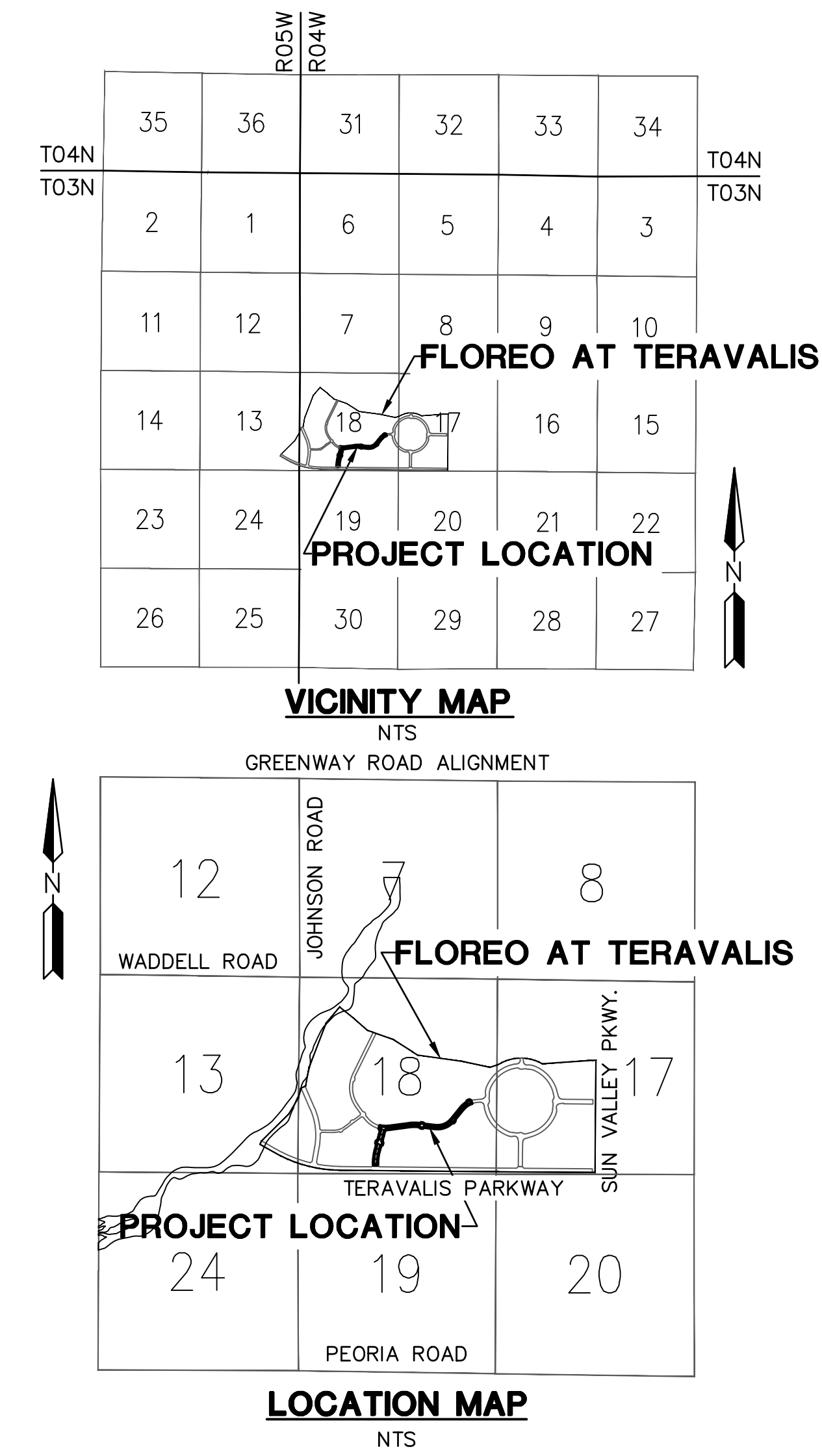


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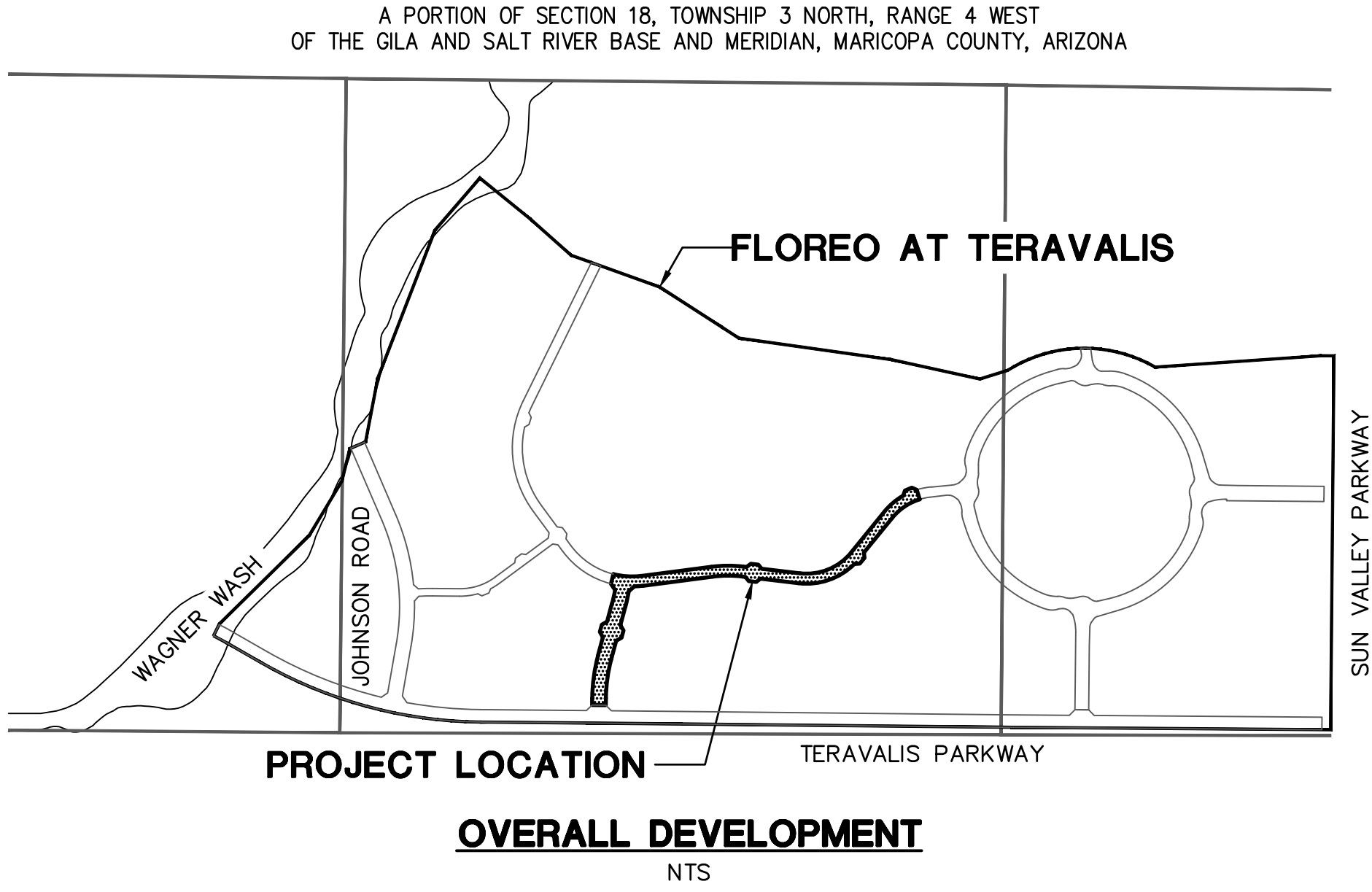
UTILITY COMPANIES		DATE SUBMITTED
ELECTRIC	ARIZONA PUBLIC SERVICE	8/26/21
TELEPHONE	CENTURY LINK	8/26/21
CATV	COX COMMUNICATIONS	8/26/21
WATER	CITY OF BUCKEYE	8/26/21
SEWER	CITY OF BUCKEYE	8/26/21
GAS	SOUTHWEST GAS	8/26/21

CITY OF BUCKEYE GENERAL PERMITTING NOTES

- ALL CONSTRUCTION IN THE PUBLIC RIGHTS-OF-WAY OR IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION AS AMENDED BY THE LATEST VERSION OF THE CITY OF BUCKEYE DESIGN STANDARDS. IF THERE IS A CONFLICT, THE CITY OF BUCKEYE STANDARDS WILL GOVERN.
- THE APPROVAL OF THE PLANS IS VALID FOR ONE (1) YEAR FROM THE DATE OF THE CITY ENGINEER'S SIGNATURE. IF AN ENCROACHMENT PERMIT FOR THE CONSTRUCTION HAS NOT BEEN ISSUED WITHIN ONE (1) YEAR, THE PLANS MUST BE RESUBMITTED TO THE CITY FOR REAPPROVAL.
- A CITY OF BUCKEYE INSPECTOR WILL INSPECT ALL WORKS WITHIN THE CITY OF BUCKEYE RIGHTS-OF-WAY AND IN EASEMENTS. NOTIFY THE CITY 24 HOURS PRIOR TO THE INSPECTION BY CALLING (623) 349-6248.
- CITY PERMITS ARE REQUIRED FOR ALL WORK IN PUBLIC RIGHTS-OF-WAY AND EASEMENTS GRANTED FOR PUBLIC PURPOSES. A CITY PERMIT WILL BE ISSUED BY THE CITY ONLY AFTER ALL FEES HAVE BEEN PAID AND THE PERMIT HAS AN APPROVED MARICOPA COUNTY ENVIRONMENTAL SERVICES DUST PERMIT AND AN APPROVED STORM WATER POLLUTION PREVENTION PLAN ATTACHED. THE SWPPP SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.
- COPIES OF ALL PERMITS AND MOST RECENT APPROVED PLANS MUST BE RETAINED ON-SITE AND BE AVAILABLE FOR INSPECTION AT ALL TIMES. FAILURE TO PRODUCE THE REQUIRED PERMITS AND PLANS WILL RESULT IN IMMEDIATE SUSPENSION OF ALL WORK UNTIL PROPER PERMIT DOCUMENTATION AND/OR PLANS ARE OBTAINED. ALL OF THESE REQUIREMENTS APPLY TO ONSITE GRADING AND IMPROVEMENT PLANS.



FLOREO AT TERAVALIS COLLECTORS - PHASE 1 PAVING PLAN BUCKEYE, ARIZONA



ENGINEERS ESTIMATED PUBLIC QUANTITIES

NOTE: ENGINEERS ESTIMATED QUANTITIES ARE NOT FOR BIDDING PROPOSES. CONTRACTOR SHALL BASE THEIR BID ON THEIR OWN QUANTITY TAKEOFFS.

PAVING CONSTRUCTION

- | | | |
|----|---|----------|
| 2 | INSTALL SURVEY MONUMENT; MAG STD DTL 120 TYPE 'B'. | 27 EA |
| 5 | INSTALL PAVEMENT 3" AC OVER 8" ABC; SEE TYPICAL STREET SECTION ON DT03. | 5293 SY |
| 6 | INSTALL PAVEMENT 6" AC (2" OF A 12.5MM RESIDENTIAL OVER 4" OF A 19.0MM ARTERIAL SUPERPAVE) OVER 10" ABC; SEE TYPICAL SECTION ON SHEET DT03 | 11980 SY |
| 7 | INSTALL PAVEMENT 6" AC (2" OF A 12.5MM ARTERIAL SUPERPAVE OVER 4" OF A 19.0MM ARTERIAL SUPERPAVE) OVER 12" ABC; SEE TYP. SECTION ON SHEET DT03. | 14243 SY |
| 9 | CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A. | 10581 LF |
| 12 | CONSTRUCT 5' SIDEWALK; MAG STD DTL 230. | 60863 SF |
| 14 | CONSTRUCT SIDEWALK CURB RAMP; MAG STD DTL 235-2, TYPE 'B', SEE DT01 FOR DETAIL. | 4 EA |
| 16 | CONSTRUCT MID-BLOCK RAMP WITH 6" CURB; MAG STD DTL 238-2. | 2 EA |
| 17 | CONSTRUCT 6' CONCRETE VALLEY GUTTER & APRON; MAG STD DTL 240 WITH FIBER MESH. | 6191 SF |
| 19 | ADJUST WATER VALVE BOX & COVER PER MAG DTL 391-2. | 54 EA |
| 20 | ADJUST MANHOLE FRAME & COVER PER MAG STD DTL 422 AND COB DTL 41260. | 19 EA |
| 21 | INSTALL FIRE HYDRANT PAVEMENT MARKER; PER COB DTL 31440. | 20 EA |
| 25 | INSTALL BARRICADE; MAG STD DTL 130 TYPE "A". | 35 LF |
| 27 | CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A, WITH DEPRESSED LIP. | 7465 LF |
| 37 | CONSTRUCT 80 MM INTERLOCKING CONCRETE PAVERS PER COB DTL 632206; 10' MIN. LENGTH PER COB STD. DTL 63220. | 14 EA |
| 38 | INSTALL STREET SIGN POST; PER COB DTL 65120. | 35 EA |
| 41 | INSTALL 6" DIP SLEEVE NOT WITHIN THE STRUCTURAL SECTION OF THE STREET. SEE LANDSCAPE PLANS FOR DETAILS & PLAN VIEW FOR INVERTS. | 499 LF |
| 62 | CONSTRUCT 6" MOUNTABLE CURB & GUTTER, PER MAG STD DTL 220-2, TYPE E. | 35 LF |
| 63 | CONSTRUCT 2' CURB TRANSITION TYPE "E" TO TYPE "A" PER MAG STD DTL 220-2. | 2 EA |
| 64 | INSTALL CONCRETE PAVEMENT, CLASS A, 9" THICK FOR ACCESS RAMP LANDING. | 210 SF |

- | | | |
|----|---|---------|
| 65 | CONSTRUCT DIRECTIONAL SIDEWALK RAMPS PER COB STD DTL 63240. | 12 EA |
| 66 | CONSTRUCT DIRECTIONAL SIDEWALK RAMPS PER COB STD DTL 63240, MODIFIED FOR A SINGLE RAMP. | 6 EA |
| 67 | INSTALL 8" DIP SLEEVE NOT WITHIN THE STRUCTURAL SECTION OF THE STREET. SEE LANDSCAPE PLANS FOR DETAILS & PLAN VIEW FOR INVERTS. | 254 LF |
| 4 | PLACE LOOSE RIP-RAP D50=3", THICKNESS 8" ON FILTER FABRIC, MIRAFI EROSION PROTECTION GEO-TEXTILE OR APPROVED EQUIVALENT. COLOR PER DEVELOPER'S REPRESENTATIVE. SEE RIP RAP DETAIL ON DT03 | 16 SY |
| 5 | CONSTRUCT STORM DRAIN MANHOLE; MAG STD DTLS 424-2, 520 & 522. ADJUST RIM TO GRADE PER MAG DTL 422, COB DTL 41260. | 2 EA |
| 13 | INSTALL 18" RGRCP STORM DRAIN, CLASS IV | 280 LF |
| 15 | INSTALL 24" RGRCP STORM DRAIN, CLASS IV | 279 LF |
| 21 | INSTALL 36" RGRCP STORM DRAIN, CLASS IV | 141 LF |
| 22 | INSTALL 36" RGRCP STORM DRAIN, CLASS V | 336 LF |
| 24 | CONSTRUCT CATCH BASIN; PER COB DTL B-510A & B-510B; SIZE PER PLAN | 7 EA |
| 50 | PLACE LOOSE RIP-RAP D50=6", THICKNESS 15" ON FILTER FABRIC, MIRAFI EROSION PROTECTION GEO-TEXTILE OR APPROVED EQUIVALENT. COLOR PER DEVELOPER'S REPRESENTATIVE. SEE RIP RAP DETAIL ON DT03 | 13 SY |
| 51 | CONSTRUCT CONCRETE OUTLET HEADWALL PER COB STD DTLS 51200 WITH TRASH RACK PER COB STD DTL B-508 AND HANDRAIL PER COB STD B-110 | 3 EA |
| 62 | PLACE LOOSE RIP-RAP D50=6", THICKNESS 24" ON FILTER FABRIC, MIRAFI EROSION PROTECTION GEO-TEXTILE OR APPROVED EQUIVALENT. COLOR PER DEVELOPER'S REPRESENTATIVE. SEE PV04 FOR HEADWALL RIP-RAP DETAIL. | 52 SY |
| 83 | INSTALL ANGULAR LOOSE RIP-RAP PER MAG SPEC SECTION 220 D50=6" 15" THICK ON MIRAFI EROSION PROTECTION GEO-TEXTILE OR APPROVED EQUAL FABRIC TO HAVE APPARENT OPENING SIZE OF 0.425MM, PERMITTIVITY OF 50 gal/min/ft AND WOVEN GRADATION PER TABLE 6.4 OF 2013 DRAINAGE DESIGN MANUAL FOR MARICOPA COUNTY, ARIZONA (HYDRAULICS). | 2417 SY |

ENGINEER

HILGARTWILSON, LLC
2141 E. HIGHLAND AVENUE SUITE 250
PHOENIX, AZ 85016
PHONE: (602) 490-0535
FAX: (602) 368-2436
CONTACT: JOSHUA ROBINSON
EMAIL: JROBINSON@HILGARTWILSON.COM

LANDSCAPE ARCH.

ABLA
310 EAST RIO SALADO PARKWAY
TEMPE, ARIZONA 85281
CONTACT: BRIAN ROGERS
PHONE: (480)-530-0387
EMAIL: BRIAN.ROGERS@ABLASTUDIO.COM

BASIS OF BEARING

THE NORTH LINE OF NORTHEAST QUARTER OF SECTION 17, TOWNSHIP 1 SOUTH, RANGE 2 WEST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA. BEARING SOUTH 89°55'49" EAST

APPROVALS

DISCLAIMER:

THE CITY APPROVES THESE PLANS FOR CONCEPT ONLY AND ACCEPTS NO LIABILITY FOR ERRORS & OMISSIONS.

BY: _____ DATE _____
CITY OF BUCKEYE ENGINEER

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "AS - BUILT" INFORMATION SHOWN HEREON WAS OBTAINED UNDER MY DIRECT SUPERVISION AND IS CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ARIZONA REGISTERED LAND SURVEYOR / P.E. _____ DATE _____

ARIZONA REGISTRATION NUMBER _____

TELEPHONE NUMBER _____

OWNER/DEVELOPER

TRILLIUM LAND COMPANY, LLC
4150 N. DRINKWATER BLVD, SUITE 100
SCOTTSDALE, AZ 85251
CONTACT: HEATH MELTON
PHONE: (602) 834-9115
EMAIL: HEATH.MELTON@HOWARDHUGHES.COM
CONTACT: BRAD HINTON
PHONE: (602) 955-2424
EMAIL: BHINTON@ELDORADOHOLDINGS.NET

SHEET INDEX

CV01	COVER SHEET
DT01	KEY MAP & LEGEND
DT02	NOTES
DT03	NOTES & DETAILS
PV01-06	PAVING PLAN & PROFILE SHEETS
PV07-10	PAVING PLAN MEDIAN DETAILS
SD01-02	STORM DRAIN PROFILES
SD03	BOX CULVERT PLAN & PROFILE
SD04-06	BOX CULVERT NOTES & DETAILS

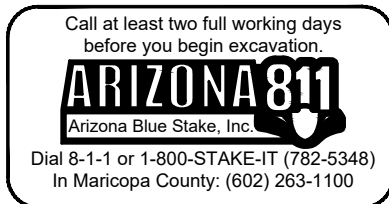
BENCHMARK

MDOT POINT NO. 30527-1, BEING A 3" BRASS CAP IN HANDHOLE, LOCATED AT THE INTERSECTION OF ELLIOT ROAD & RAINBOW VALLEY ROAD
HAVING AN ELEVATION OF 919.785" (NAVD88)

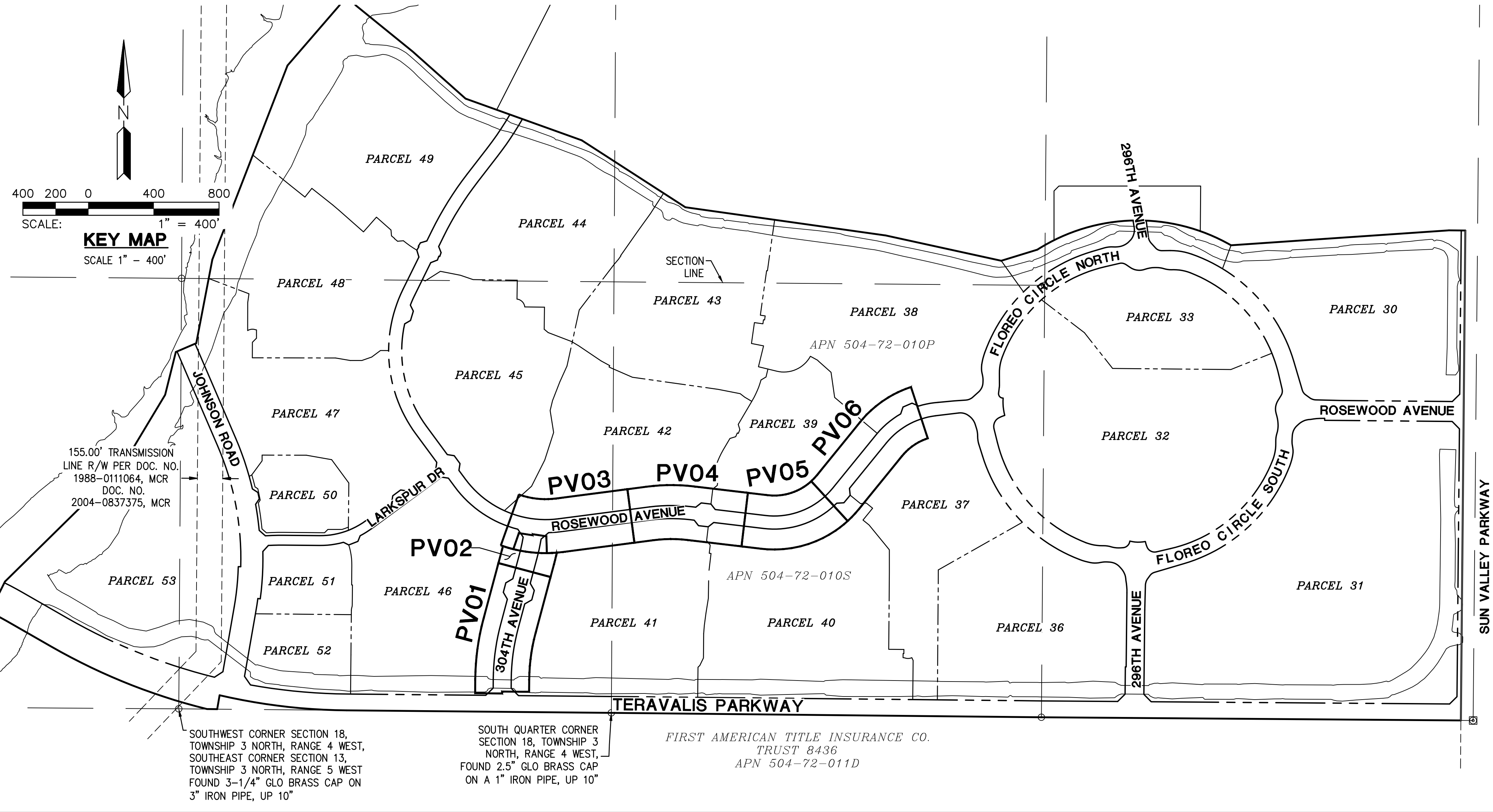
MANAGING ENGINEERING / SURVEYOR	HILGARTWILSON	PROJECT COORDINATOR	CHRISTINA SHAW	CHECKED	JR	CHECKED		DRAWING SCALES	AS SHOWN
DESIGN LAYOUT	MD	FIELD SURVEY							
PLAN TYPE	FLOREO AT TERAVALIS COLLECTORS - PHASE 1								
ENGINEER INFORMATION	HILGARTWILSON ENGINEER PLAN SURVEY MANAGE 2141 E HIGHLAND AVE., STE. 250 P. 602.490.0535 / F. 602.368.2436 PHOENIX, AZ 85016 WWW.HILGARTWILSON.COM								
PROJECT:	FLOREO AT TERAVALIS COLLECTORS - PHASE 1 NORTHEAST CORNER OF TERAVALIS PARKWAY & SUN VALLEY PARKWAY BUCKEYE, ARIZONA								
COB PROJECT PLAN STICKER									
REVISIONS:									
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL		SUBMITTAL: 3RD SUBMITTAL						
AS-BUILT SEAL	DESIGN SEAL		ORIGINAL PLAN DATE: Aug-21 LATEST REVISION DATE: Feb-23 PROJECT NUMBER: 1175 SHEET NUMBER: CV01 SHT. 1 OF 20						

FEMA FLOOD ZONE DESIGNATION

COMMUNITY NUMBER	PANEL # PANEL DATE	SUFFIX	DATE OF FIRM (INDEX DATE)	FIRM ZONE
040039	1605 10/16/2013	L	10/16/2013	AE, A, X



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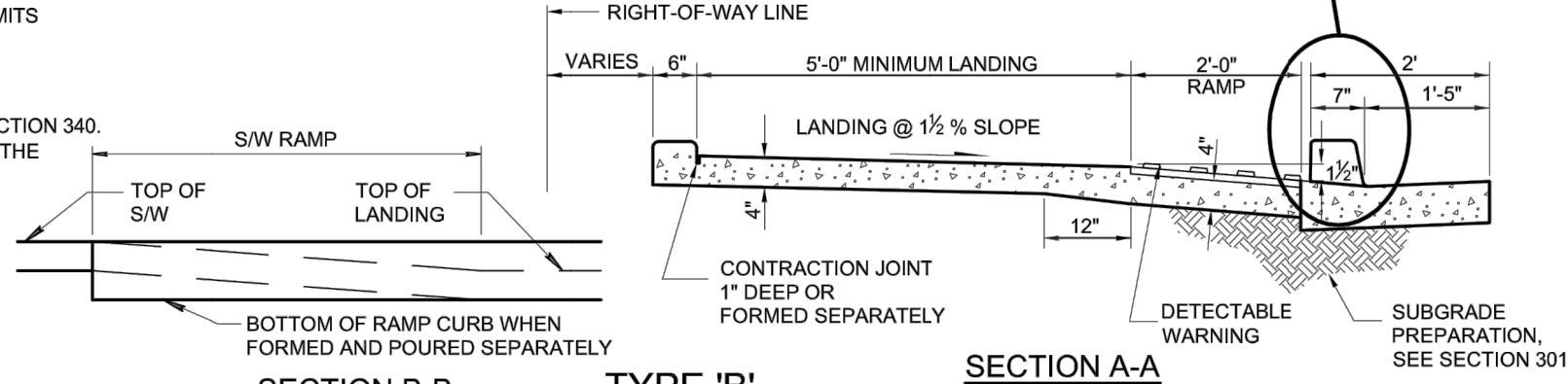
DETAIL NO.	MARICOPA ASSOCIATION OF GOVERNMENTS	STANDARD DETAIL	REVISION	DETAIL NO.
235-2		ENGLISH	01-01-2012	235-2
CURB RAMPS				

D (min)			
CURB HEIGHT	L (min)	S _c ≤ 1%	S _c ≤ 2%
4"	4.0'	4.0'	4.5'
6"	6.0'	6.0'	6.5'
7"	7.0'	6.5'	7.5'

S_c = MAXIMUM GUTTER SLOPE WITHIN RAMP LIMITS

NOTES:

1. CLASS "B" CONCRETE PER SECTION 725.
2. EXPANSION JOINTS SHALL CONFORM TO SECTION 340.
3. DETECTABLE WARNING IS TO COMPLY WITH THE JURISDICTIONAL AGENCY'S REQUIREMENTS.
4. INCREASE 'L' OR 'D' AS NEEDED TO HAVE THE TOP OF RAMP FORM A RADIAL LINE.
5. WHEN TOP OF RAMP IS LESS THAN 4" FROM CURB RETURN, EXTEND RAMP TO THE CURB RETURN.
6. DETAIL IS ADA COMPLIANT FOR S_c ≤ 2%.



LEGEND	
	PARCEL BOUNDARY
	CENTERLINE
	RIGHT-OF-WAY
	PROPERTY LINE
	SEWER LINE
	SEWER LINE (15" AND BIGGER)
	EX. SEWER LINE
	WATER LINE
	WATER LINE (16" AND BIGGER)
	EX WATER LINE
	EASEMENT LINE
	EX CABLE TELEVISION
	EX COMMUNICATIONS
	EX ELECTRIC
	IRRIGATION SLEEVE
	PROPOSED PARCEL BOUNDARY IN KEY MAP
	AC PAVEMENT
	EX AC PAVEMENT TO BE REMOVED
	FIRE HYDRANT VALVE AND TEE
	WATER METER
	WATER VALVE
	HEADWALL
	CATCH BASIN
	SEWER MANHOLE
	STORM DRAIN MANHOLE
	STREET LIGHT
	MONUMENT
	PAVING CONSTRUCTION NOTE
	DRAINAGE CONSTRUCTION NOTE
	DRYWELL
	BARRICADE

ABBREVIATIONS

ABC	AGGREGATE BASE COURSE	P	PAVEMENT
AC	ASPHALTIC CEMENT OR CONCRETE	PAE	PEDESTRIAN ACCESS EASEMENT
AHD	AHEAD SEWER STATION	PC	POINT OF CURVE
B/C	BACK OF CURB	PCC	POINT OF COMPOUND CURVE
BCR	BEGIN CURB RETURN	PH	PHASE
BK	BACK SEWER STATION	PI	POINT OF INTERSECTION
BLVD	BOULEVARD	PRC	POINT OF REVERSE CURVE
BOT	BOTTOM OF BASIN	PT	POINT OF TANGENCY
BW	BOTTOM OF WALL AT FINISH GRADE	PUE	PUBLIC UTILITY EASEMENT
C&G	CURB AND GUTTER	PVC	POLYVINYL CHLORIDE
C/L or CL	CENTERLINE	PVI	POINT OF VERTICAL INTERSECTION
CB	CATCH BASIN	PVMT	PAVEMENT
COVER	CLEAR COVER OVER PIPE	R	RADIUS
CTR	CENTER	R/W, ROW	RIGHT OF WAY
DE	DRAINAGE EASEMENT	RW	RECLAIMED WATER
DIP	DUCTILE IRON PIPE	RGRCP	RUBBER GASKET REINFORCED CONCRETE PIPE
DTL	DETAIL	RSB	REAR SETBACK
E	EAST OR EASTING	RT or R	RIGHT
EA	EACH	RY	REAR YARD ELEVATION
ECR	END CURB RETURN	S	SOUTH, SLOPE OR SEWER LINE
EOE	EMERGENCY OUTFALL ELEVATION	S/W or SW	SIDEWALK
EOP	EDGE OF PAVEMENT	SD	STORM DRAIN
ESMT	EASEMENT	SDMH	STORM DRAIN MANHOLE
FF	FINISH FLOOR	SG	SUBGRADE
FG	FINISH GRADE	SHLD	SHOULDER OF ROAD
FL	FLOW LINE GRADE	SL	SEWER LINE
FP	FINISH PAD	SMH	SEWER MANHOLE
FS	FINISH SURFACE	SPEC	SPECIFICATIONS
FSB	FRONT SETBACK	STA	STATION
FT	FOOT OR FEET	STD	STANDARD
G	GUTTER	SWR	SEWER
GA	QUAGE	TC	TOP OF CURB
GB	GRADE BREAK	TOH	TOP OF HEADWALL ELEVATION
GFF	GARAGE FINISH FLOOR	TRANS	TRANSMISSION OR TRANSITION
HDPE	HIGH DENSITY POLYETHYLENE	TF	TOP OF FOOTING
HGL	HYDRAULIC GRADE LINE	TG	TOP OF GRATE
HORIZ	HORIZONTAL	TL	TRUE LENGTH
HP	HIGH POINT	TRW	TOP OF RETAINING WALL
HWL	HIGH WATER ELEVATION	TS	TRUE SLOPE
ID	INSIDE DIAMETER	TW	TREATED WATER
INV	INVERT OR INVERSE	TYP	TYPICAL
IR	IRRIGATION	VC	VERTICAL CURVE
LF	LINEAR FEET	VCP	VITRIFIED CLAY PIPE
L/S	LANDSCAPE	VERT	VERTICAL
L.E.	LANDSCAPE EASEMENT	VG	VALLEY GUTTER
LT or L	LEFT	VNAE	VEHICULAR NON-ACCESS EASEMENT
M	MIDDLE	Vprov	VOLUME PROVIDED
MAG	MARICOPA ASSOCIATION OF GOVERNMENTS	VR	VERTICAL REALIGNMENT
MH	MANHOLE	Vreq	VOLUME REQUIRED
ML or M/L	MONUMENT LINE	V.T.	VISIBILITY TRIANGLE
MIN	MINIMUM	W	WEST OR WATER LINE
MUTE	MULTI-USE TRAIL EASEMENT	WE	WATER EASEMENT
N	NORTH OR NORTHING	W/L or WL	WATERLINE
NPI	NON-PAYABLE ITEM	WSE	WATER SURFACE ELEVATION
NTS	NOT TO SCALE	WT or WTL	WELL TRANSMISSION LINE
		WTR	WATER



PLAN NAME FLOREO AT TERAVALIS COLLECTORS - PHASE 1 KEY MAP, LEGEND & DETAILS			
ENGINEER INFORMATION			
		SUBMITTAL: 3RD SUBMITTAL	
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	AS-BUILT SEAL	
DESIGN SEAL		ORIGINAL PLAN DATE: Aug-21	
		LATEST REVISION DATE: Feb-23	
PROJECT NUMBER: 1175		SHEET NUMBER: DT01	
SHT. 2 OF 20		COB PLAN TRACKING #	
ENG-21-0288		COB PERMIT #	
ENG-21-0288			

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CITY OF BUCKEYE GENERAL CONSTRUCTION NOTES:

- CITY OF BUCKEYE BUILDING DEPARTMENT SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF ANY ON-SITE OR OFF-SITE CONSTRUCTION. PHONE 623-349-6248 FOR THE HOTLINE. ALL OTHERS FAX THE INSPECTION REQUEST FORM TO 623-349-6221, OR USE THE WEB BASED PERMIT PORTHOLE ACCESS TO SCHEDULE AN INSPECTION (WWW.BUCKEYE.AZ.GOV).
- ALL WORK AND MATERIALS MUST CONFORM WITH THESE SPECIFICATIONS, THE CURRENT UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION AS SPONSORED AND DISTRIBUTED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) AND AS AMENDED BY THE CITY OF BUCKEYE (COB).
- A PERMIT IS REQUIRED FROM THE COB FOR ALL CONSTRUCTION WITHIN THE RIGHTS-OF-WAY (ROW).
- THE CONTRACTOR WILL EXPOSE ALL EXISTING UTILITY LINES BEING TIED IN TO VERIFY THEIR LOCATION.
- THE CONTRACTOR WILL LOCATE, OR HAVE LOCATED, ALL EXISTING UNDERGROUND UTILITIES (ELECTRIC, TELEPHONE, PIPELINE, ETC.) AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND WILL ELIMINATE ALL CONFLICTS PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE TO CALL BLUE STAKE PRIOR TO STARTING ANY CONSTRUCTION. NO WORK SHALL BEGIN UNTIL BLUE STAKE IS COMPLETED. BLUE STAKE TELEPHONE NUMBER 602-263-1100 OR 1-800-STAKE-IT.
- A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO STARTING ANY WORK OR NEW PHASE OF WORK. THE CONTRACTOR, KEY SUB-CONTRACTORS, COB INSPECTOR AND REPRESENTATIVE OF THE CITY ENGINEER SHALL ATTEND THIS MEETING.
- ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE COB AND/OR ALL WORK AND MATERIAL NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- DISPOSAL OF EXCESS MATERIAL WITHOUT A PERMIT WITHIN THE COB LIMITS IS PROHIBITED. A USE PERMIT IS REQUIRED FOR DISPOSAL OR STOCKPILING OF MATERIALS WITHIN A RESIDENTIAL AREA. STOCKPILING OF EXCAVATED MATERIAL SHALL NOT EXCEED A HEIGHT OF 6 FEET ABOVE THE NATURAL GROUND ELEVATION. THE SLOPES ON ALL SIDES OF THE STOCKPILED EXCAVATED MATERIAL SHALL NOT EXCEED A 4:1 RATIO OF LENGTH TO HEIGHT.
- EXCAVATION CONTRACTORS MUST IDENTIFY LOCATION FOR DISPOSING OF EXCESS EXCAVATION MATERIAL ALONG WITH A LETTER FROM THE LAND OWNER, GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ANY CONSTRUCTION.
- TRAFFIC CONTROL SHALL BE PROVIDED AND MAINTAINED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE CITY OF PHOENIX BARRICADING MANUAL. MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION, M.A.G. UNIFORM STANDARD DETAIL 401, AND COB REQUIREMENTS. THE CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN AND BARRICADE PLAN TO THE COB FOR APPROVAL. WHERE THE CONSTRUCTION OF THE NEW IMPROVEMENTS ARE ADJACENT TO OR ADJACENT TO ANY EXISTING ROADWAY OR PEDESTRIAN FACILITIES, THE TRAFFIC CONTROL PLAN AND BARRICADE PLAN SHALL BE APPROVED BEFORE A PERMIT FOR THE WORK WILL BE ISSUED. THE CONTRACTOR SHALL INSTALL APPROVED BARRICADING AND TRAFFIC CONTROL, AS APPROVED BY THE COB, BEFORE WORK CAN TAKE PLACE. ALL OVERNIGHT BARRICADES SHALL BE LIT AND FUNCTIONING.
- A HAUL PLAN FOR MATERIAL IMPORT OR EXPORT SHALL BE REQUIRED FOR COB REVIEW AND APPROVAL PRIOR TO THE START OF HAULING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY AND FINAL CLEAN-UP OPERATION OF ADJACENT, EXISTING PAVED STREETS USED BY CONSTRUCTION TRAFFIC. THIS WORK INCLUDES STREET SWEEPING, POWER BROOM AND WATER AS NEEDED OR DIRECTED BY THE COB.
- ENVIRONMENTAL REQUIREMENTS
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL RELATED TO THE PROJECT CONSTRUCTION AND SHALL TAKE WHATEVER MEANS NECESSARY TO CONTROL ANY ABNORMAL CONDITIONS.
 - THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT PRIOR TO ENTERING PUBLIC STREETS AND TAKE WHATEVER MEASURES ARE NECESSARY TO INSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY AND FINAL CLEAN-UP OPERATIONS OF ADJACENT, EXISTING PAVED STREETS USED BY CONSTRUCTION TRAFFIC.
 - TEMPORARY DRAINAGE CONTROL MEASURES MAY BE REQUIRED DURING AND AFTER CONSTRUCTION UNTIL FINAL PROJECT BUILD-OUT IN ACCORDANCE WITH THE APPROVED PLANS AND IN ACCORDANCE WITH ANY ESTABLISHED OR REQUIRED BEST MANAGEMENT PRACTICES (BMP) AS PART OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MEET ALL REQUIREMENTS.
 - THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL AIR QUALITY PERMITS.
 - THE CONTRACTOR SHALL SUBMIT TO THE COB A COPY OF THEIR APPROVED COUNTY (AIR QUALITY) DUST CONTROL PLAN (SWPPP), AND PERMIT PRIOR TO THE START OF WORK.
- STREET CUTS: APPLICATIONS FOR STREET CUT PERMITS MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO APPROVAL OF IMPROVEMENT PLANS. THE PAVEMENT REPLACEMENT SECTION FOR ALL LONGITUDINAL AND TRANSVERSE TRENCHES LOCATED IN AN EXISTING PAVED STREET SHALL BE CONSTRUCTED IN ACCORDANCE M.A.G. UNIFORM STANDARD DETAIL NO. 200 "T" - TOP BACKFILL PAVEMENT SURFACE REPLACEMENT, MODIFIED AS FOLLOWS: THE MID OF THE REPLACED PAVEMENT SECTION EXTEND 1 FOOT BEYOND THE TRENCH SIDE EDGE LINE, ON EITHER SIDE OF THE TRENCH. THE DEPTH OF THE PERMANENT SURFACE REPLACEMENT SHALL BE A MINIMUM OF 3 INCHES OR MATCH THE EXISTING THICKNESS OF THE PAVEMENT, WHICHEVER IS GREATER. SAWCUT OR CONSTRUCTION JOINTS SHALL BE ADEQUATELY JACK OILED WITH A MINIMUM OF 95% COVERAGE. ASPHALT MATERIAL SHALL BE A COB APPROVED MIX DESIGN WITH COMPACTED LIFTS NO GREATER THAN 3 INCHES. SLURRY BACKFILLED OR OPEN TRENCHES EXISTING ROADWAYS MUST BE PROPERLY STEEL PLATED AND BARRICADED OVER NIGHT. STEEL PLATES TO BE MILLED :FLUSH WITH ROADWAY SURFACE PER NOTE 24. "COLD MIX" TEMPORARY ASPHALT PATCHES MUST BE REPLACED AS SOON AS POSSIBLE AND CANNOT REMAIN FOR MORE THAN 5 DAYS TIME OR AS REQUIRED BY THE COB. DURING THE 5 DAY PERIOD THE CONTRACTOR IS REQUIRED TO MAINTAIN THE PATCH TO WITHIN MAG STD SPEC 321.5.3. ASPHALT IN PLACE FOR LESS THAN 5 YEARS SHALL BE MILLED AND OVERLAYED A MINIMUM OF 20 FEET PAST TRENCH WALLS, AND IN THE CASE OF MULTIPLE STREET CUTS, THE CONTINUOUS MILL AND OVERLAY SHALL EXTEND A MINIMUM OF 2 FEET PAST END OF THE FURTHEST TRENCH WALLS.
- POTHOLES: NO POTHOLES SHALL BE DONE ON ANY STREET NEWER THAN 2 YEARS OLD. ALL POTHOLES IN EXISTING STREETS SHALL BE DONE USING WATER/AIR/VACUUM TYPE METHOD. POTHOLE SIZE SHALL BE LIMITED TO A 12 INCH BY 12 INCH SQUARE HOLE. REMOVAL MATERIAL CANNOT BE USED FOR BACK FILL. THE CONTRACTOR SHALL USE SLURRY PER MAG SEC. 728. PAVEMENT REPLACEMENT SHALL BE BY APPROVED HOT MIX ASPHALT ONLY. A 3 FOOT BY 3 FOOT PAVEMENT SLURRY SEAL SHALL BE APPLIED AFTER THE ASPHALT IS PLACED.
- AN APPROVED, UP-TO-DATE SET OF PLANS AND A RIGHT-OF-WAY PERMIT SHALL BE MAINTAINED ON THE JOB SITE AT ALL TIMES WHILE WORK IS IN PROGRESS. IF THE PLANS AND PERMITS ARE NOT ON SITE, THE WORK SHALL BE STOPPED UNTIL THE APPROVED PLANS ARE PROVIDED. DEVIATION FROM THE PLANS SHALL NOT BE ALLOWED WITHOUT THE COB'S APPROVAL.
- DAMAGE TO ANY AND ALL ITEMS CAUSED BY CONSTRUCTION OR CONSTRUCTION RELATED WORK SHALL BE REPLACED OR REPAIRED TO THE SAME OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
- ALL PARCEL CONSTRUCTION ACCESS LOCATIONS ARE SUBJECT TO THE CITY ENGINEER'S APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROPER AND ADEQUATE ACCESS ROADS INSIDE AND THROUGHOUT THE PARCEL ALLOWING FOR INSPECTION ACCESSIBILITY. THIS INCLUDES GRADING, GRAVEL FILL AND/OR TRENCH PLATES AS REQUIRED.
- THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE COB AND THE COB CONSULTANT & HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE COB.
- THE COB SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES UTILIZED IN CONNECTION WITH THE WORK. THE COB WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS COMPLYING WITH MAG OR COB REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CERTIFIED AS-BUILT RECORD DOCUMENTS TO THE COB FOR REVIEW AND APPROVAL. NO FINAL ACCEPTANCE SHALL BE ISSUED UNTIL "AS-BUILT" PLANS

CITY OF BUCKEYE GENERAL CONSTRUCTION NOTES (CONTINUED):

- CERTIFIED BY THE PROJECT ENGINEER/LAND SURVEYOR HAVE BEEN SUBMITTED AND ACCEPTED BY THE COB. FINAL CONSTRUCTION ACCEPTANCE OR THE RELEASE OF CERTIFICATE OF OCCUPANCIES SHALL NOT BE ISSUED UNTIL ALL AS-BUILT DRAWINGS AND OTHER REQUIRED DOCUMENTS PER THE COB'S FINAL PROJECT SUBMITTAL CHECKLIST HAVE BEEN REVIEWED AND APPROVED BY THE CITY ENGINEER.
- ARRANGEMENTS FOR CONSTRUCTION WATER CAN BE MADE BY CALLING THE WATER RESOURCE DEPARTMENT AT (623) 349-6800.
 - THE COB IS NOT RESPONSIBLE FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. ALSO, THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR RELOCATION OF UTILITIES.
 - ALL CONTRACTORS SHALL CONTRACT FOR TRASH PICKUP THROUGH A LICENSED CITY OF BUCKEYE SOLID WASTE HAULER (602-237-2078) AND DISPOSED OF AT THE SOUTHWEST REGIONAL LANDFILL IN BUCKEYE.
 - OPEN TRENCHES ACROSS DRIVEWAYS, STREETS AND CROSS-STREETS SHALL BE PLATED FOR OVERNIGHT, WEEKEND OR EXTENDED PERIODS, PER M.A.G. UNIFORM STANDARD DETAIL 211.
 - ALL ABC SHALL BE FROM AN ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) APPROVED SOURCE LIST.
 - LONGITUDINAL TRENCH BACKFILL IN EXISTING ARTERIAL, COLLECTOR, OR LOCAL ROADWAYS OR ADJACENT TO EXISTING ROADWAY (WHEN THE TRENCH EXCAVATION FALLS WITHIN 2 FEET OF EDGE OF PAVEMENT) SHALL REQUIRE ¾ SACK CLSM PER MAG SPEC 728 FULL DEPTH OR ABC FULL DEPTH AS DIRECTED BY THE COB. ABC BACKFILL COMPACTION SHALL BE BY AN APPROVED MECHANICAL METHOD (NO WATER SETTLING) WITH BACKFILL MATERIAL LIST AS FOLLOWS:
 - 12 INCH LIFTS (LOOSE) TO BE USED IN THE TOP 4 FEET OF THE TRENCH
 - 24 INCH LIFTS (LOOSE) TO BE USED FROM 1 FOOT OVER THE PIPE TO 4 FEET FROM THE TOP OF THE TRENCH PER MAG SEC. 601.4.
 - ALL BACKFILL WITHIN OR ADJACENT TO EXISTING ROADWAYS SHALL BE MECHANICALLY COMPACTED.
 - TRANSVERSE TRENCH BACKFILL IN ALL EXISTING ROADWAYS SHALL REQUIRE 100% FULL DEPTH HALF SACK CLSM PER MAG SPEC 728.
 - ALL MATERIAL SUBMITTALS INCORPORATED IN THE PROJECT SHALL BE SUBMITTED AT OR BEFORE THE PRE-CONSTRUCTION MEETING FOR REVIEW AND APPROVAL BY THE CITY ENGINEER.

HILGARTWILSON STANDARD ENGINEERING NOTES

- THESE PLANS ARE SUBJECT TO THE INTERPRETATION OF INTENT BY THE ENGINEER. ALL QUESTIONS REGARDING THESE PLANS SHALL BE PRESENTED TO THE ENGINEER. ANYONE WHO TAKES IT UPON THEMSELVES THE INTERPRETATION OF THE DRAWINGS OR MAKES REVISIONS TO THE SAME WITHOUT CONFERRING WITH THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR THE CONSEQUENCES THEREOF.
- THE ESTIMATED QUANTITIES SHOWN ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETENESS AND ACCURACY OF A DETAILED ESTIMATE BASED ON THESE PLANS, CURRENT CODES, AND SITE VISITATION.
- ALL EARTHWORK CONSTRUCTION SHALL CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS STANDARD DETAILS AND/OR SPECIFICATIONS INCLUDING ANY SUPPLEMENTS THERETO, AND ALL ADDENDA. THE CONTRACTOR IS TO FOLLOW THE RECOMMENDATION OF THE SOIL INVESTIGATION REPORT AND LETTER, AS PREPARED BY (ALPHA GEOTECHNICAL & MATERIALS, INC.), PHONE NO. (602) 453-3265, PROJECT NO. 20-G-11044, DATED FEB. 9, 2021.
- PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL THOROUGHLY SATISFY HIMSELF AS TO THE ACTUAL CONDITIONS, REQUIREMENTS OF THE WORK AND EXCESS OR DEFICIENCY IN QUANTITIES. NO CLAIMS SHALL BE MADE AGAINST THE OWNER/DEVELOPER OR ENGINEER FOR ANY EXCESS OR DEFICIENCY THEREIN, ACTUAL OR RELATIVE.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK, AND WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR COORDINATING THE RELOCATION OF UTILITIES, POWER POLES, ETC.
- THE CONTRACTOR SHALL MAKE NO CLAIM AGAINST THE OWNER OR THE SURVEYOR REGARDING ALLEGED INACCURACY OF CONSTRUCTION STAKES SET BY THE SURVEYOR UNLESS ALL SURVEY STAKES SET BY THE ENGINEER ARE MAINTAINED INTACT AND CAN BE VERIFIED AS TO THEIR ORIGIN. IF, IN THE OPINION OF THE SURVEYOR, THE STAKES ARE NOT MAINTAINED INTACT AND CANNOT BE VERIFIED AS TO THEIR ORIGIN, ANY REMEDIAL WORK REQUIRED TO CORRECT ANY ITEM OF IMPROPER CONSTRUCTION WORK SHALL BE PERFORMED AT THE SOLE EXPENSE OF THE RESPONSIBLE CONTRACTOR OR SUBCONTRACTOR.
- THE SURVEYOR WILL MAKE FIELD AS-BUILT MEASUREMENTS OF THE WORK UPON NOTIFICATION BY THE CLIENT OR HIS REPRESENTATIVE THAT THE WORK IS COMPLETE AND READY FOR AS-BUILT SURVEY. FOR PIPE WORK, THE CONTRACTOR IS RESPONSIBLE FOR LEAVING TRENCHES OPEN SO THAT AS-BUILTS CAN BE PERFORMED TO COMPLY WITH THE AGENCY'S REQUIREMENTS. (IF THE TRENCHES ARE BACKFILLED AND OBSCURED TO THE POINT THAT AS-BUILT MEASUREMENTS CANNOT BE PERFORMED, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO POT HOLE UTILITY TRENCHES AS NECESSARY TO COMPLETE AN AS-BUILT SURVEY.)
- EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN LOCATED ACCORDING TO INFORMATION PROVIDED BY THE AGENCY OPERATING EACH UTILITY. LOCATIONS SHOWN ARE APPROXIMATE ONLY, AND ARE NOT RELIABLE FOR CONSTRUCTION PURPOSES. CALL BLUE STAKE FOR FIELD LOCATION AT (602) 263-1100. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING UTILITIES ON THE SITE. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN OR NOT ON THE DRAWING, SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE. EXISTING SURFACE FEATURES AND FENCING SHALL BE REPLACED IN LIKE KIND.
- PRIOR TO CONSTRUCTION, THE ENGINEER AND APPLICABLE AGENCY MUST APPROVE ANY ALTERATION, OR VARIANCE FROM THESE PLANS. ANY VARIATIONS FROM THESE PLANS SHALL BE PROPOSED ON CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE ENGINEER.
- ANY INSPECTION BY THE CITY, COUNTY, ENGINEER, OR OTHER JURISDICTIONAL AGENCY, SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH APPLICABLE CODES AND AGENCY REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL STORM DRAIN PIPES, STORM WATER RETENTION PIPES AND DRAINAGE FACILITIES FROM DAMAGE DURING ALL STAGES OF CONSTRUCTION. THE DEPTH OF COVER ON THE STORM DRAIN PIPE IS DESIGNED FOR FINAL GRADE. THEREFORE, EXTRA CARE SUCH AS BERMING OVER PIPES, FLAGGING OR SIGNAGE SHOULD BE USED DURING CONSTRUCTION TO MAINTAIN COVER OR PROTECT THE PIPES.
- UNDERGROUND UTILITIES SHALL BE MARKED IN ACCORDANCE WITH SECTION 40-360 OF THE ARIZONA REVISED STATUTES AND LOCAL MUNICIPALITY REQUIREMENTS.


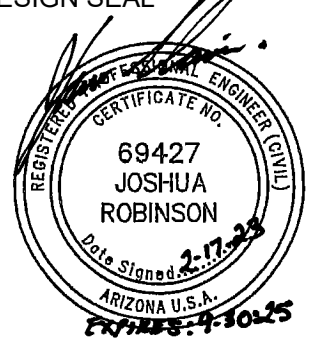
CITY OF BUCKEYE PAVING NOTES

- LOCATION OF ALL VALVES AND MANHOLES MUST BE REFERENCED AT ALL TIMES BY THE CONTRACTOR DURING CONSTRUCTION.
- SUBGRADE AND PAVING OPERATIONS SHALL NOT BEGIN UNTIL ALL UTILITY FRAME AND COVER LOCATIONS HAVE BEEN PROPERLY REFERENCED TO FACILITATE ADJUSTMENTS.
- BASE COURSE SHALL NOT BE PLACED ON SUBGRADE UNTIL ALL SUBGRADE REQUIREMENTS HAVE BEEN COMPLETED AND APPROVED BY THE CITY INSPECTOR.
- NO PAVING CONSTRUCTION SHALL COMMENCE UNTIL ALL UNDERGROUND UTILITIES WITHIN THE ROADWAY ARE COMPLETED, TESTED, APPROVED AND THE "TO PAVE" AS BUILT DRAWINGS ARE REVIEWED AND APPROVED BY THE CITY.
- BASE COURSE SHALL NOT BE PLACED ON SUBGRADE UNTIL BASE REQUIREMENTS HAVE BEEN COMPLETED TESTED AND APPROVED BY THE CITY.
- ALL RETURN TYPE DRIVEWAYS WITH CONCRETE PAVEMENT SHALL UTILIZE MAG CLASS A CONCRETE FUR ALL CONSTRUCTION WITHIN THE RIGHT-OF-WAY.
- ASPHALT AND CUTTERS SHALL BE WATER TESTED IN THE PRESENCE OF THE CITY'S AUTHORIZED REPRESENTATIVE TO ENSURE PROPER DRAINAGE, PRIOR TO FINAL APPROVAL BY THE CITY. WATER SHALL NOT POND MORE THAN 7/4 OF AN INCH. ANY PANELING THAT EXCEED THIS WILL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE EXACT POINT OF MATCHING, TERMINATION AND OVERLAY WILL BE DETERMINED IN THE FIELD BY THE CITY OF BUCKEYE ENGINEERING DEPARTMENT.
- NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT, AND SIDEWALKS HAVE BEEN SWEEP CLEAN OF ALL DIRT AND DEBRIS. ALL WATER SERVICE METER BOXES SHALL BE SET TO HAVE THE TOP OF THE BOX ELEVATION MATCH TOP OF SIDEWALK ELEVATION.
- ALL SLEEVING INSTALLED UNDER NEW STREETS SHALL BE DONE WITH SCH 80 PVC SLEEVING CONDUIT UNLESS OTHERWISE SPECIFIED.
- NO GRINDING OF CONCRETE IS ALLOWED IN THE CITY OF BUCKEYE. REVERSE FLOW IN CURB GUTTER, AND VALLEY GUTTER WILL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
- ALL JOINTS SHALL BE TACK COATED WITH A MINIMUM OF 95% COVERAGE OF THE JOINT.
- CONCRETE REPAIR WILL NOT BE ALLOWED IN THE CITY OF BUCKEYE. ALL DAMAGED CONCRETE SHALL BE REMOVED AND REPLACED TO THE NEAREST JOINT
- ALL ASPHALT JOINTS SHALL BE SEALED PRIOR TO THE FINAL WALK THROUGH.
- FIBER MESH IS REQUIRED IN ALL CONCRETE APRONS AND VALLEY GUTTERS.
- ALL MILLINGS FROM PUBLIC PROJECTS SHALL BE GIVEN TO THE CITY OF BUCKEYE PUBLIC WORKS DEPARTMENT
- HIGH SPOTS IN ASPHALT SHALL BE REMOVED AND REPLACED. REHEATING OR BURNING OF ASPHALT IS NOT ALLOWED IN BUCKEYE.
- ALL ASPHALT SHALL BE SAW CUT TO A CLEAN TRUE EDGE FUR THE FULL FACE OF THE SECTION PRIOR TO TYING IN. MILLED EDGES WILL BE EVALUATED BY THE CITY INSPECTOR FOR POSSIBLE ACCEPTANCE.
- AN RLS CERTIFIED AS BUILT PLAN OF ALL NEW CONCRETE CURB AND GUTTER, VALLEY GUTTER, DRAINAGE CONTROL STRUCTURES, SURVEY MONUMENT LOCATIONS AND ALL SIGNING AND STRINGING SHALL BE SUBMITTED PRIOR TO ACCEPTANCE OF THE COMPLETED RIGHT OF WAY IMPROVEMENTS.
- ALL IMPROVEMENT WORK SHALL BE APPROVED BY THE CITY INSPECTOR INCLUDING UTILITY ADJUSTMENTS, SURVEY MONUMENTS, SIGN BASES, PARKWAY GRADING, AND ANY REPAIR OR REPLACEMENTS.
- DURING ALL PAVING OPERATIONS AN ADDITIONAL LAB TECHNICIAN SHALL BE LOCATED AT THE ASPHALT PRODUCTION PLANT TO ENSURE APPROVED MATERIAL IS BEING USED IN THE ASPHALT MIX.
- NO NEWLY PAVED STREET CAN BE OPENED TO TRAFFIC WITHOUT APPROVAL OF THE CITY INSPECTOR.
- MATERIAL USED IN THE ASPHALT PROVIDED TO THE CITY SHALL BE 100% VIRGIN FROM AN APPROVED PIT. NO RECYCLED ASPHALT IS ALLOWED IN THE CITY OF BUCKEYE.



CITY OF BUCKEYE NOTES

ALL CURRENT CITY OF BUCKEYE GENERAL NOTES & UTILITY NOTES ARE ACCESSIBLE ON THE CITY'S WEBSITE AT www.buckeyeaz.gov, UNLESS OTHERWISE ATTACHED.

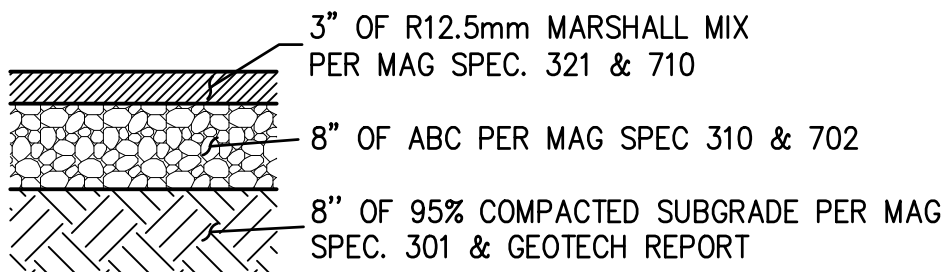
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ENGINEER INFORMATION  HILGARTWILSON		SUBMITTAL: 3RD SUBMITTAL	
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL		
AS-BUILT SEAL	DESIGN SEAL 	COB PLAN TRACKING # ENG-21-0288	COB PERMIT # ENG-21-0288
ORIGINAL PLAN DATE Aug-21	LATEST REVISION DATE Feb-23		
PROJECT NUMBER 1175	SHEET NUMBER DT02 SHT. 3 OF 20		

WATER & SEWER LOCATION NOTE:

THE PREFERRED LOCATION OF WATER, SEWER AND RECLAIMED WATER LINES ARE SHOWN ON THE TYPICAL STREET SECTIONS. THE LOCATION OF THESE LINES MAY BE MODIFIED AT THE TIME OF FINAL DESIGN, SUBJECT TO THE APPROVAL OF THE CITY OF BUCKEYE. WHERE PRACTICAL THE LINES SHALL BE CENTERED WITHIN A TRAFFIC LANE, IT IS UNDERSTOOD THAT SANITARY SEWER LINES WILL BE INSTALLED WITH STRAIGHT RUNS BETWEEN MANHOLES AND AS A RESULT WILL NOT BE AT A CONSISTENT OFFSET ON STREET CURVES. THE SANITARY SEWER LINES SHALL BE DESIGNED SUCH THAT MANHOLES ARE LOCATED OUTSIDE OF VEHICULAR WHEEL PATHS.

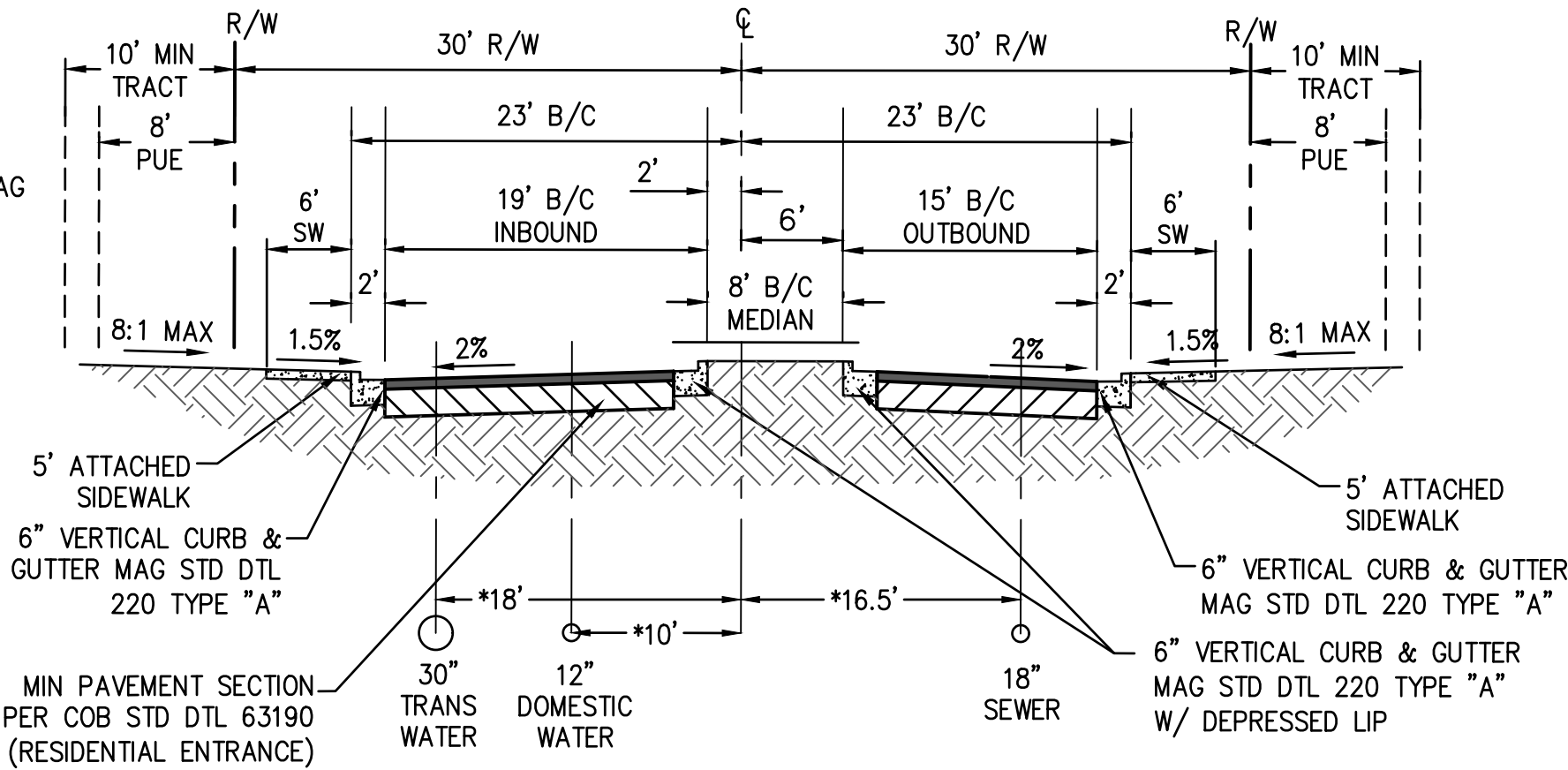
PAVEMENT SECTION NOTE

PAVEMENT SECTION SHALL BE THE GREATER OF THE APPLICABLE CITY OF BUCKEYE REQUIREMENTS PER CITY OF BUCKEYE EDS SECTION 6-3 OR THE APPROVED GEOTECHNICAL REPORT.



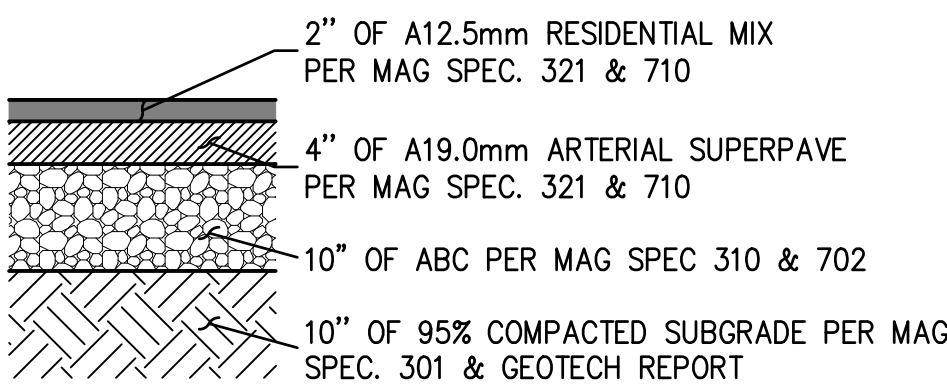
RESIDENTIAL ENTRANCE & MAJOR LOCAL STREET

PAVEMENT SECTION
(PER C.O.B. STD DTL 63190)
NTS



TYPICAL RESIDENTIAL ENTRANCE SECTION

PER COB STD DTL 63190
LARKSPUR DRIVE - AT INTERSECTIONS ONLY
FROM STA:11+71.13 TO STA:12+71.13
FROM STA:22+91.06 TO STA:23+91.06
(LOOKING EAST)
SCALE: N.T.S.
* WATER IF ON NORTH OR EAST SIDE OF STREET.
TRANSITION WATER IF ON NORTH OR EAST SIDE OF STREET.
SEWER IF ON SOUTH OR WEST SIDE OF STREET.



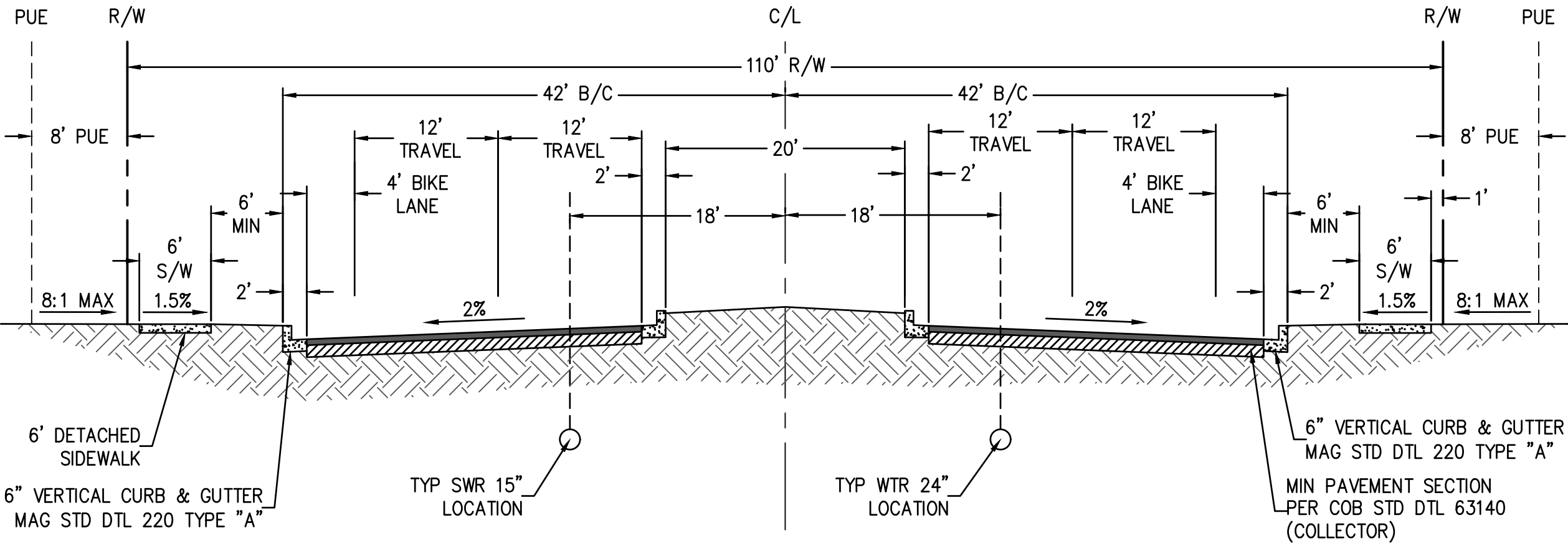
COLLECTOR

PAVEMENT SECTION
(PER C.O.B. STD DTL 63150)
NTS



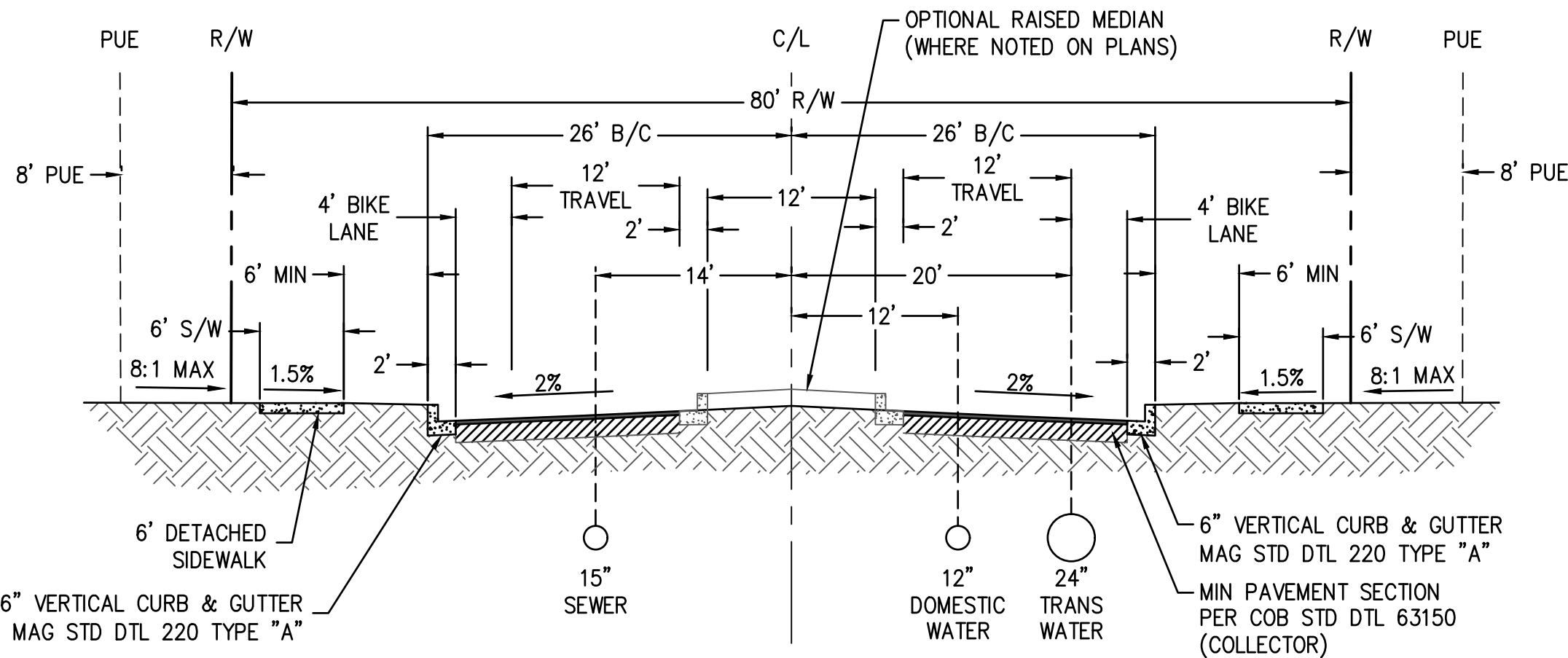
MAJOR COLLECTOR

PAVEMENT SECTION
(PER C.O.B. STD DTL 63140)
NTS



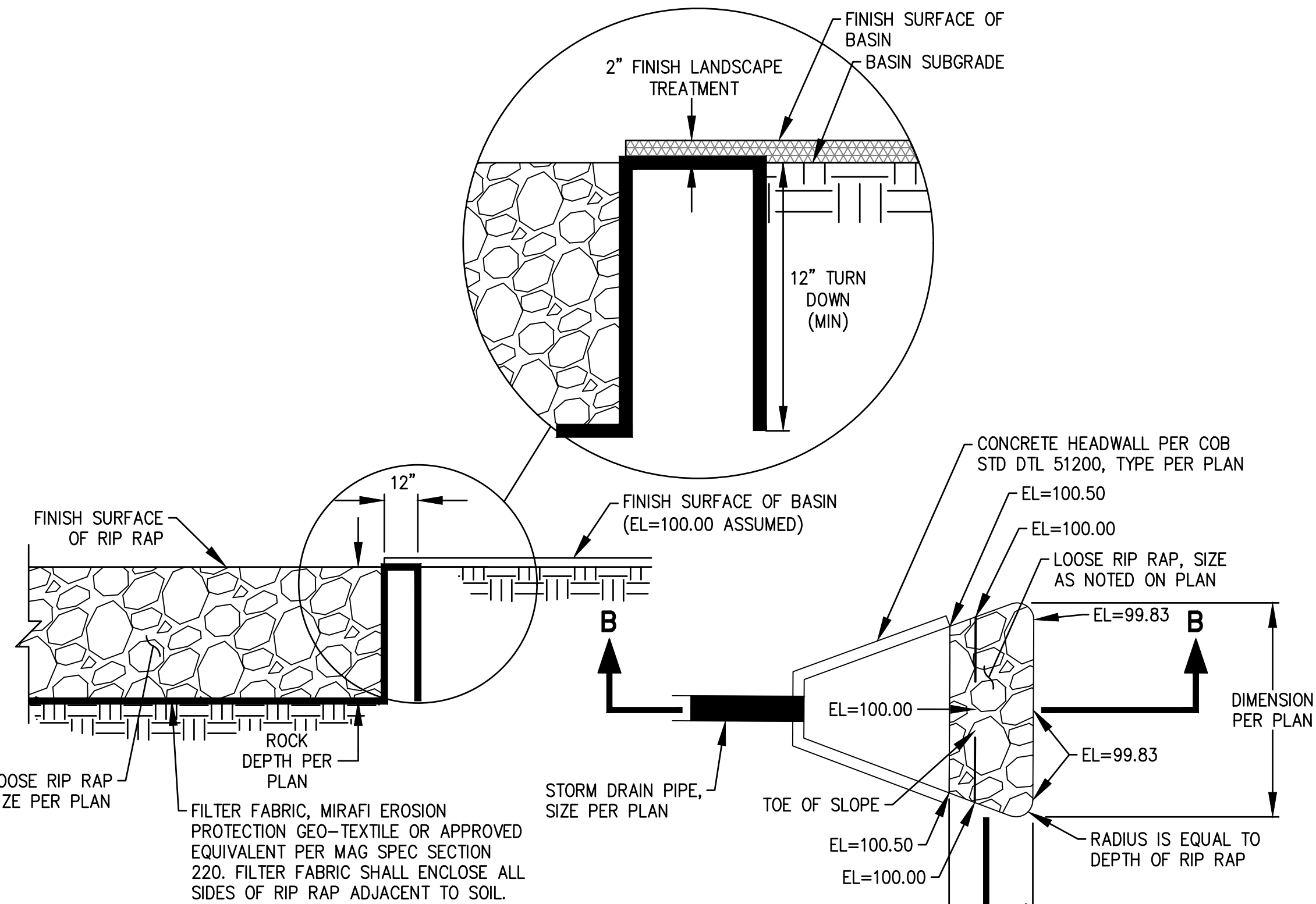
TYPICAL MAJOR COLLECTOR SECTION

PER COB STD DTL 63140
304TH AVENUE
(LOOKING NORTH & WEST)
SCALE: NTS

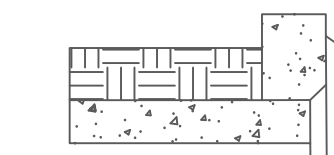


TYPICAL COLLECTOR SECTION

PER COB STD DTL 63150
ROSEWOOD AVE (WEST OF FLOREO CIRCLE)
(LOOKING NORTH & WEST)
SCALE: NTS



SECTION A





PLAN

SECTION B-B

RIP RAP DETAIL - HEADWALL

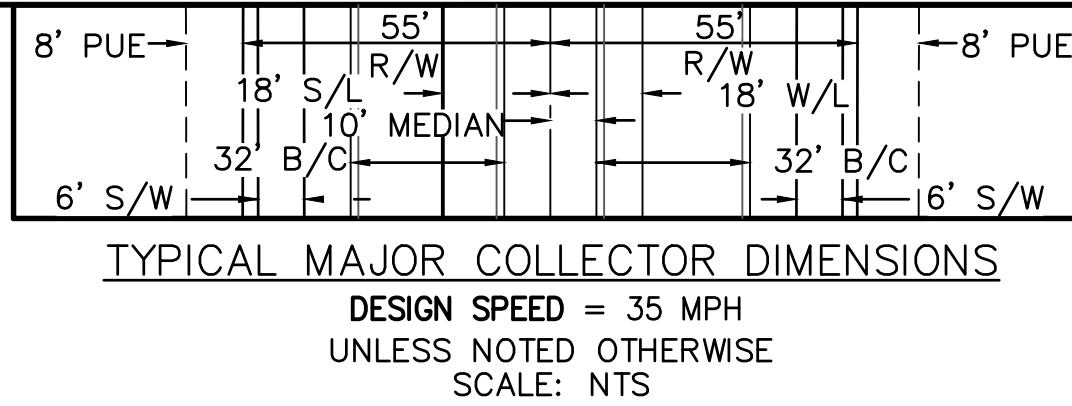
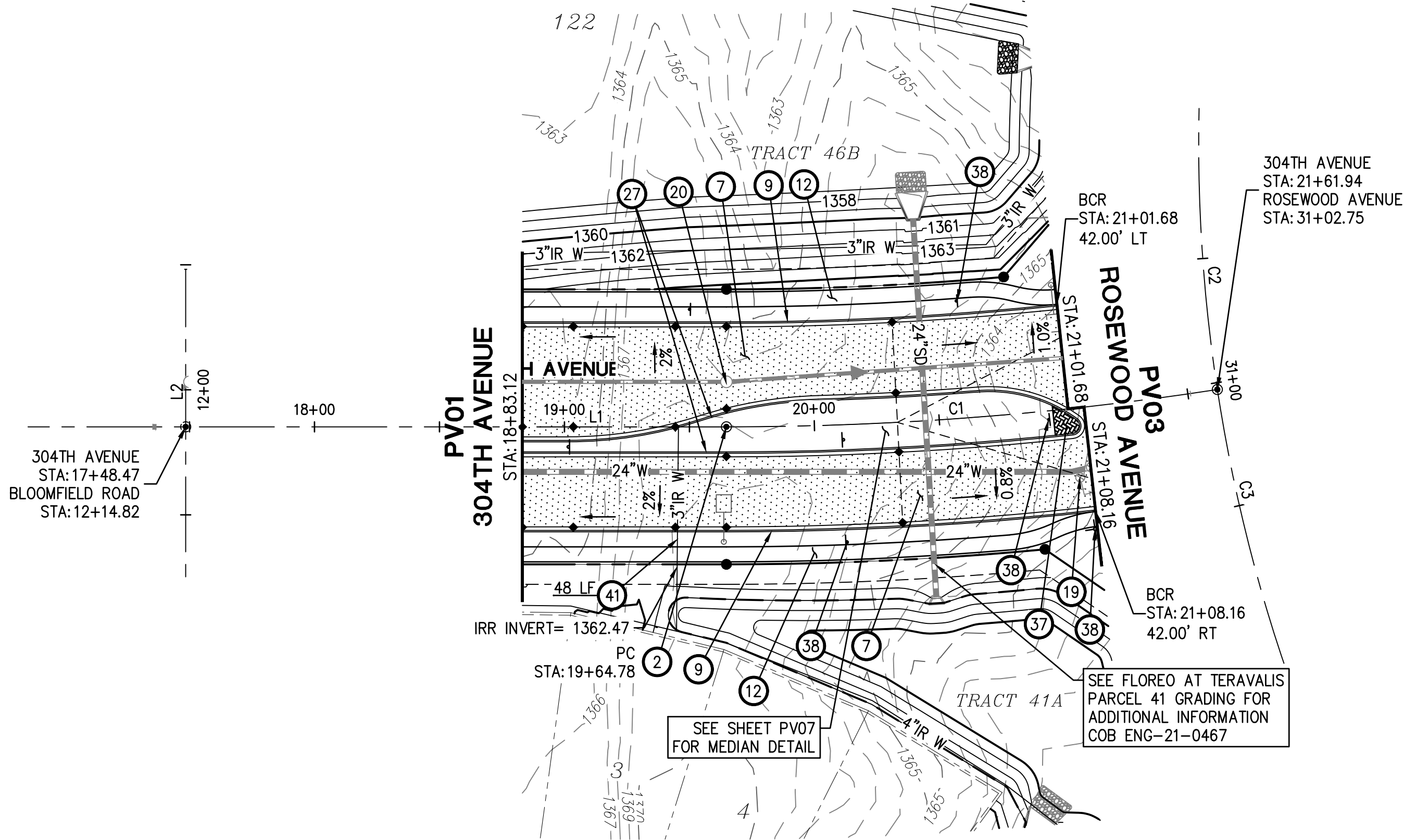
NTS

PLAN NAME
FLOREO AT TERAVALIS
COLLECTORS - PHASE 1
NOTES & DETAILS

ENGINEER INFORMATION		SUBMITTAL: 3RD SUBMITTAL
 HILGARTWILSON		
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	
AS-BUILT SEAL	DESIGN SEAL 	
ORIGINAL PLAN DATE Aug-21	LATEST REVISION DATE Feb-23	COB PLAN TRACKING # ENG-21-0288
PROJECT NUMBER 1175	SHEET NUMBER SHT. DT03 4 OF 20	COB PERMIT # ENG-21-0288

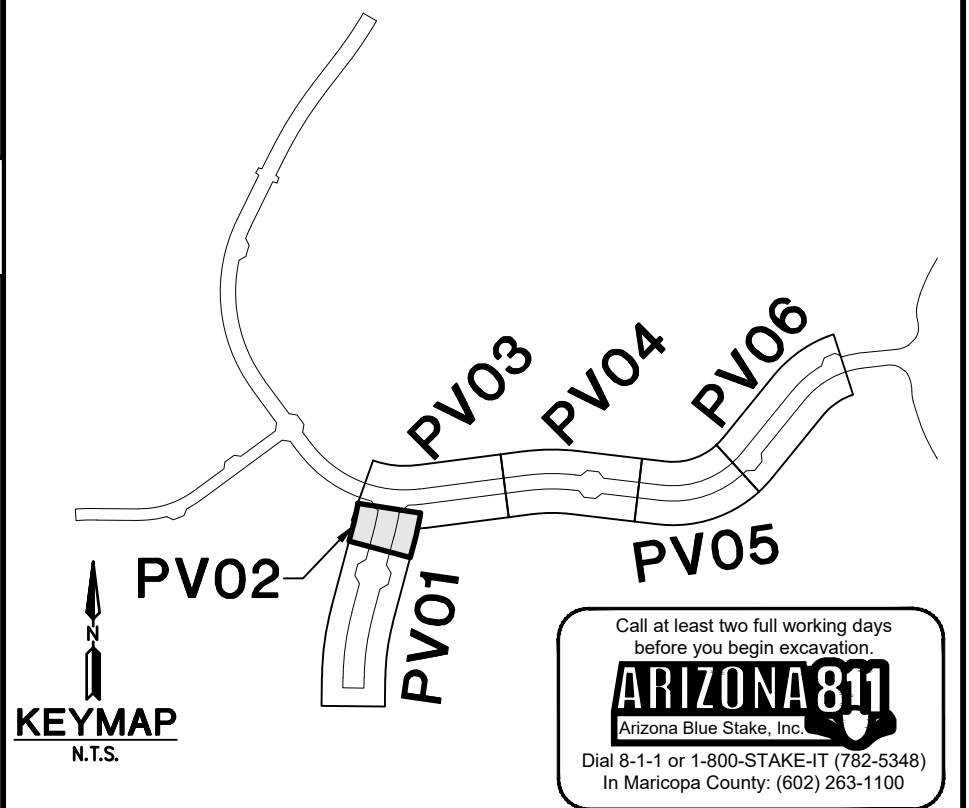
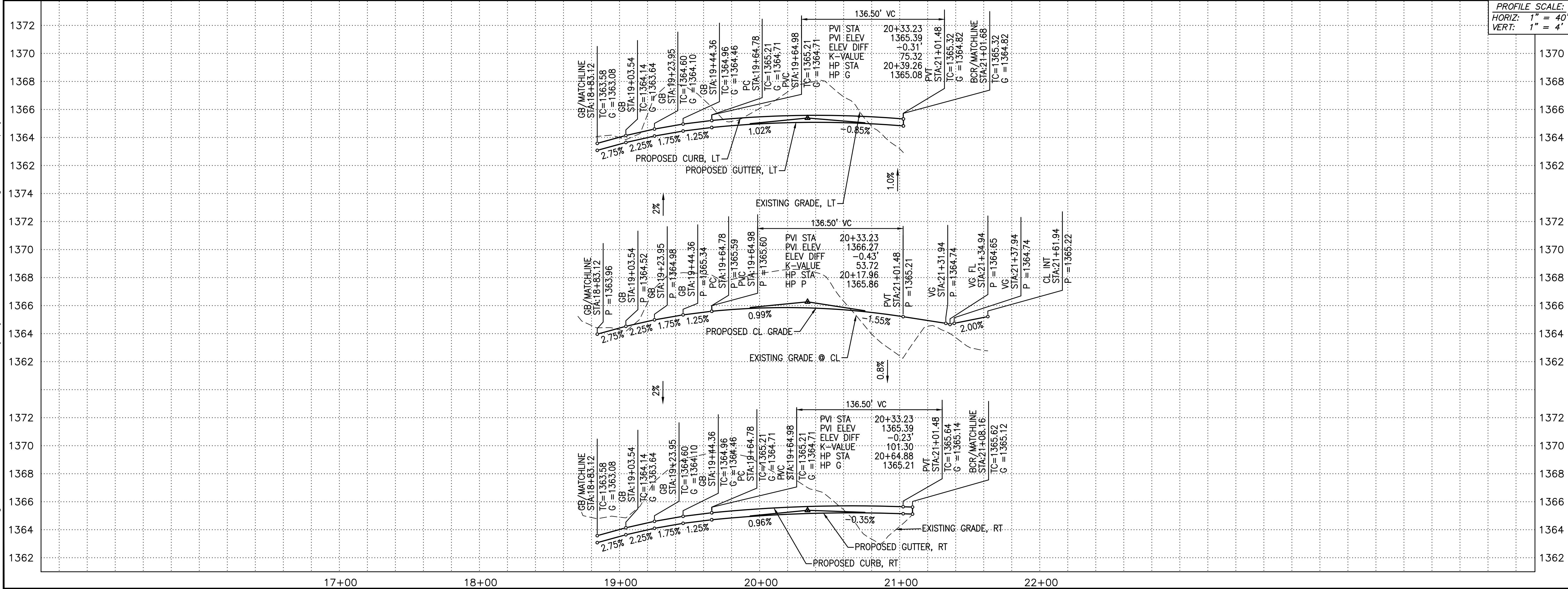
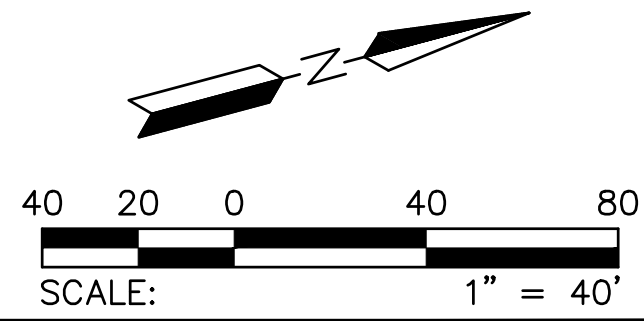
CURVE TABLE				LINE TABLE		
NO.	RADIUS	DELTA	LENGTH	NO.	DIRECTION	LENGTH
C1	1300.00'	8°41'23"	197.16'	L1	N14°59'49"E	216.31'
C2	650.00'	47°19'28"	536.88'	L2	N75°00'11"W	180.00'
C3	650.00'	13°42'57"	155.60'			


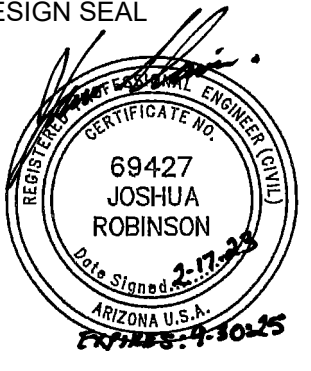
NOTE: ALL CURVES ARE MEASURED TO BACK OF CURB AND CENTERLINE.



PAVING CONSTRUCTION		
2	INSTALL SURVEY MONUMENT; MAG STD DTL 120 TYPE 'B'.	1 EA
7	INSTALL PAVEMENT 6" AC (2" OF A 12.5MM ARTERIAL SUPERPAVE OVER 4" OF A 19.0MM ARTERIAL SUPERPAVE) OVER 12" ABC; SEE TYP. SECTION ON SHEET DT03.	1521 SY
9	CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A.	444 LF
12	CONSTRUCT 5' SIDEWALK; MAG STD DTL 230.	2672 SF
19	ADJUST WATER VALVE BOX & COVER PER MAG DTL 391-2.	1 EA
20	ADJUST MANHOLE FRAME & COVER PER MAG STD DTL 422 AND COB DTL 41260.	1 EA
27	CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A, WITH DEPRESSED LIP.	454 LF
37	CONSTRUCT 80 MM INTERLOCKING CONCRETE PAVERS PER COB DTL 632206; 10' MIN. LENGTH PER COB STD. DTL. 63220.	1 EA
38	INSTALL STREET SIGN POST; PER COB DTL 65120.	4 EA
41	INSTALL 6" DIP SLEEVE NOT WITHIN THE STRUCTURAL SECTION OF THE STREET. SEE LANDSCAPE PLANS FOR DETAILS & PLAN VIEW FOR INVERTS.	48 LF

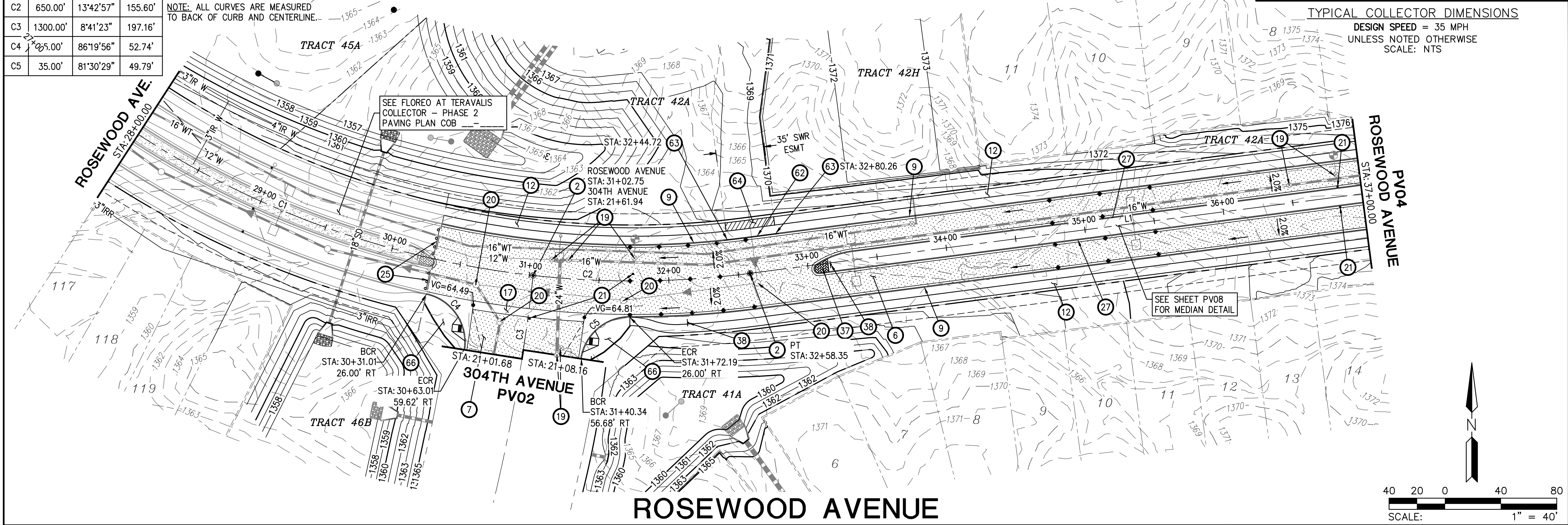
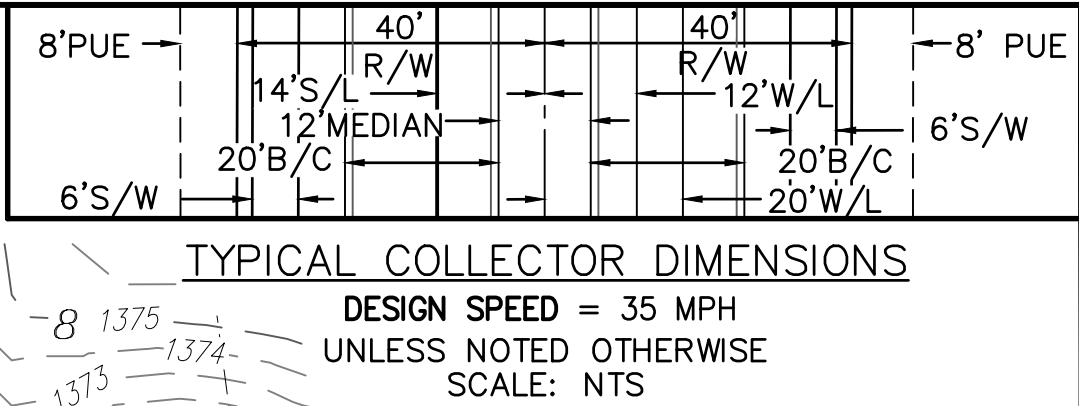
304TH AVENUE



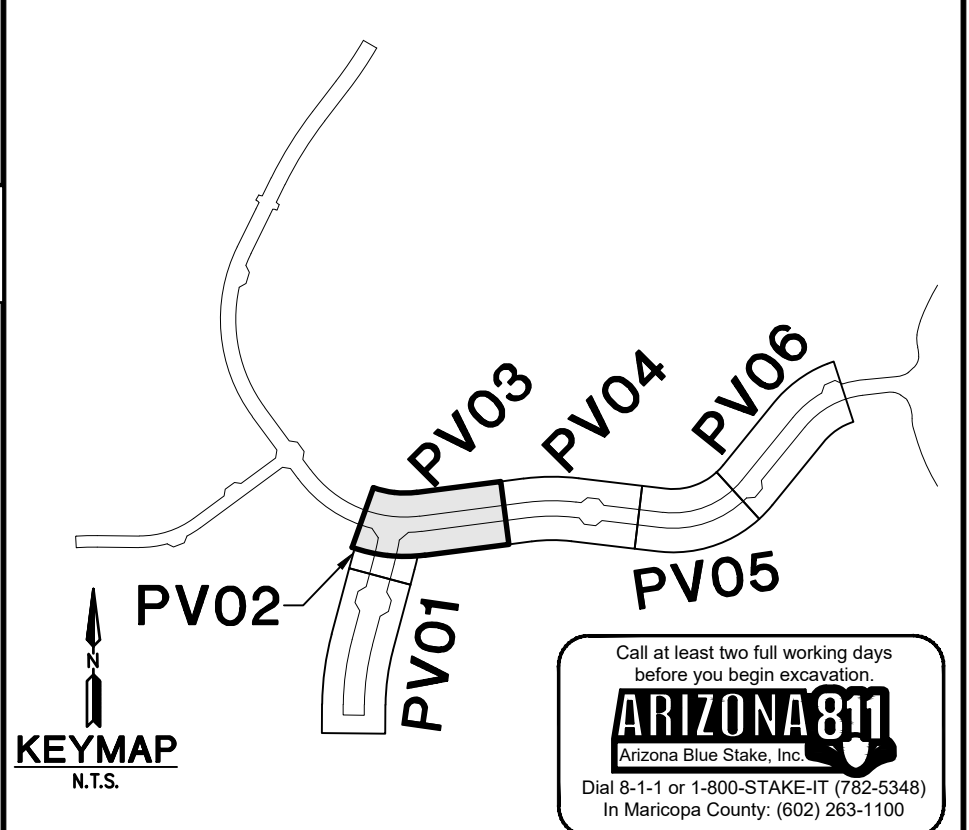
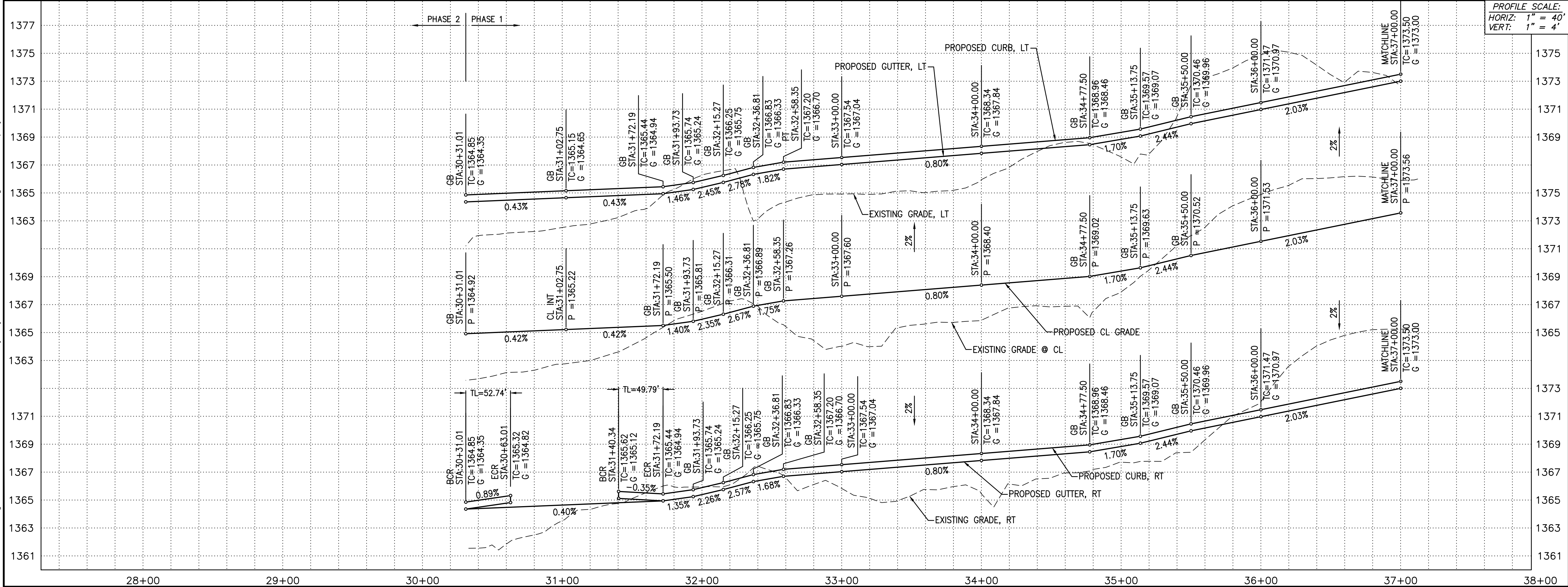
PLAN NAME		
FLOREO AT TERAVALIS COLLECTORS - PHASE 1 PAVING PLAN & PROFILE		
ENGINEER INFORMATION		
 HILGARTWILSON		
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL 3RD SUBMITTAL
AS-BUILT SEAL	DESIGN SEAL 	
ORIGINAL PLAN DATE Aug-21	LATEST REVISION DATE Feb-23	COB PLAN TRACKING # ENG-21-0288 COB PERMIT # ENG-21-0288
PROJECT NUMBER 1175	SHEET NUMBER PV02	
	SHT. 6 OF 20	

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CURVE TABLE				LINE TABLE		
NO.	RADIUS	DELTA	LENGTH	NO.	DIRECTION	LENGTH
C1	650.00'	47°19'28"	536.88'	L1	N82°35'29"E	561.68'
C2	650.00'	13°42'57"	155.60'	NOTE: ALL CURVES ARE MEASURED TO BACK OF CURB AND CENTERLINE.		
C3	1300.00'	8°41'23"	197.16'			
C4	255.00'	86°19'56"	52.74'			
C5	35.00'	81°30'29"	49.79'			



- PAVING CONSTRUCTION**
- ② INSTALL SURVEY MONUMENT; MAG STD DTL 120 TYPE 'B'. 2 EA
 - ⑥ INSTALL PAVEMENT 6" AC (2" OF A 12.5MM RESIDENTIAL OVER 4" OF A 19.0MM ARTERIAL SUPERPAVE) OVER 10" ABC; SEE TYPICAL SECTION ON SHEET DT03. 2870 SY
 - ⑦ INSTALL PAVEMENT 6" AC (2" OF A 12.5MM ARTERIAL SUPERPAVE OVER 4" OF A 19.0MM ARTERIAL SUPERPAVE) OVER 12" ABC; SEE TYP. SECTION ON SHEET DT03. 243 SY
 - ⑨ CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A. 1202 LF
 - ⑫ CONSTRUCT 5' SIDEWALK; MAG STD DTL 230. 6928 SF
 - ⑬ CONSTRUCT 6" CONCRETE VALLEY GUTTER & APRON; MAG STD DTL 240 WITH FIBER MESH. 956 SF
 - ⑲ ADJUST WATER VALVE BOX & COVER PER MAG DTL 391-2. 7 EA
 - ⑳ ADJUST MANHOLE FRAME & COVER PER MAG STD DTL 422 AND COB DTL 41260. 4 EA
 - ㉑ INSTALL FIRE HYDRANT PAVEMENT MARKER; PER COB DTL 31440. 4 EA
 - ㉕ INSTALL BARRICADE; MAG STD DTL 130 TYPE "A". 35 LF
 - ㉗ CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A, WITH DEPRESSED LIP. 795 LF
 - ㉟ CONSTRUCT 80 MM INTERLOCKING CONCRETE PAVERS PER COB DTL 632206; 10' MIN. LENGTH PER COB STD. DTL. 63220. 1 EA
 - ㉠ INSTALL STREET SIGN POST; PER COB DTL 65120. 2 EA
 - ㉡ CONSTRUCT 6" MOUNTABLE CURB & GUTTER, PER MAG STD DTL 220-2, TYPE E. 35 LF
 - ㉢ CONSTRUCT 2" CURB TRANSITION TYPE "E" TO TYPE "A" PER MAG STD DTL 220-2. 2 EA
 - ㉣ INSTALL CONCRETE PAVEMENT, CLASS A, 9" THICK FOR ACCESS RAMP LANDING. 210 SF
 - ㉤ CONSTRUCT DIRECTIONAL SIDEWALK RAMP PER COB STD DTL 63240, MODIFIED FOR A SINGLE RAMP. 2 EA



FLOREO AT TERAVALIS COLLECTORS - PHASE 1 PAVING PLAN & PROFILE

ENGINEER INFORMATION

HILGARTWILSON

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

AS-BUILT SEAL

DESIGN SEAL

69427 JOSHUA ROBINSON

ORIGINAL PLAN DATE Aug-21

LATEST REVISION DATE Feb-23

PROJECT NUMBER 1175

SHEET NUMBER 7 OF 20

COB PLAN TRACKING # ENG-21-0288

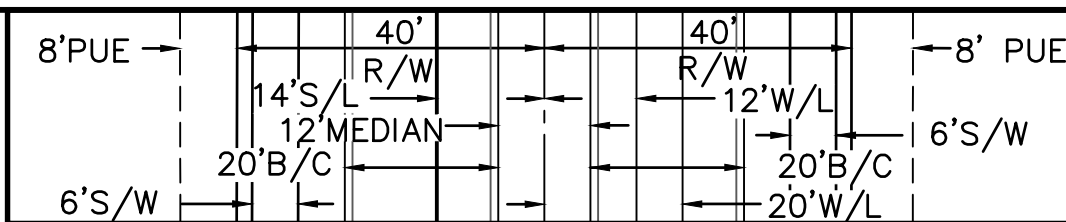
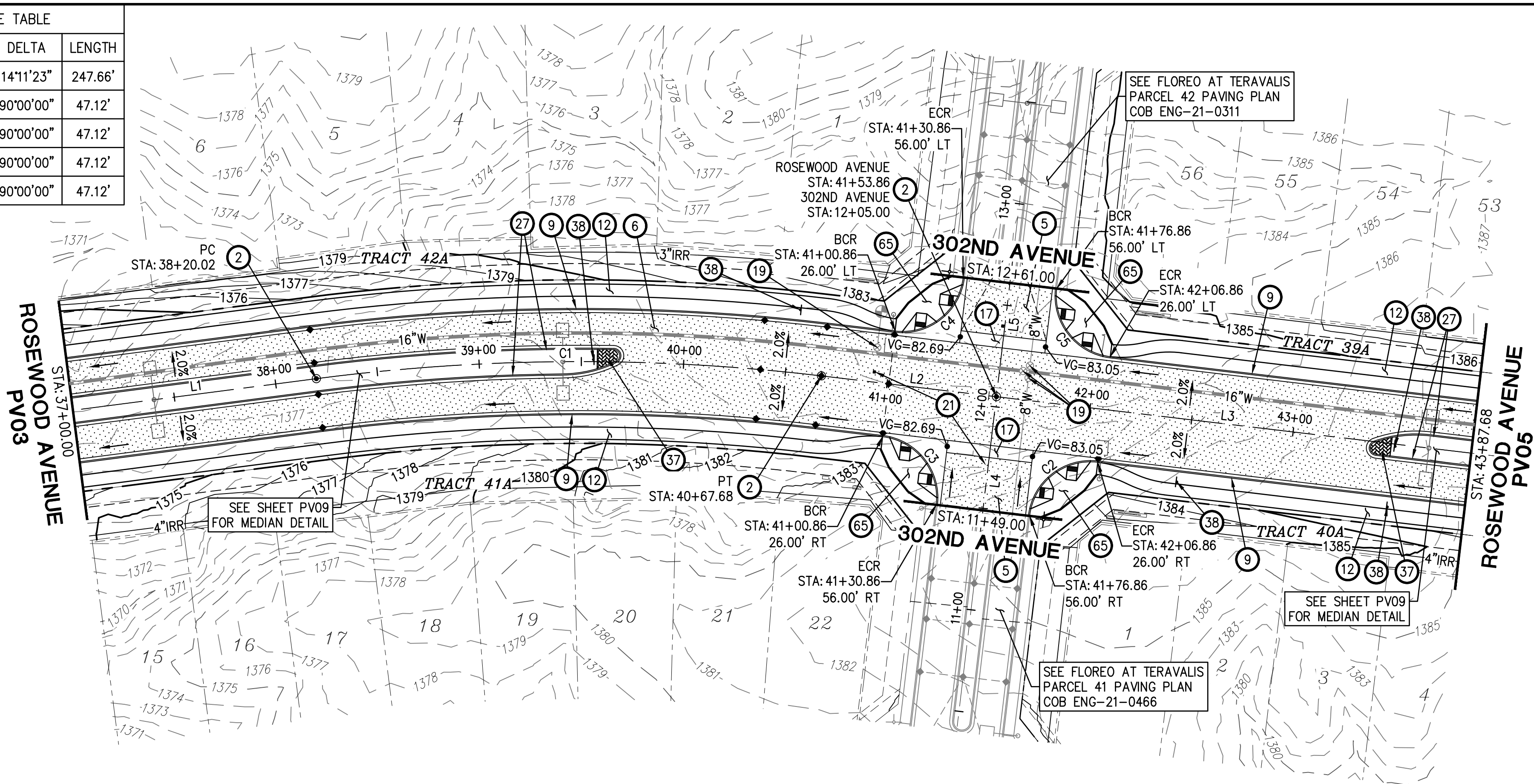
COB PERMIT # ENG-21-0288

3RD SUBMITTAL

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LINE TABLE			CURVE TABLE			
NO.	DIRECTION	LENGTH	NO.	RADIUS	DELTA	LENGTH
L1	N82°35'29"E	561.68'	C1	1000.00'	14°11'23"	247.66'
L2	N83°13'08"W	86.18'	C2	30.00'	90°00'00"	47.12'
L3	S83°13'08"E	368.82'	C3	30.00'	90°00'00"	47.12'
L4	S06°46'52"W	205.00'	C4	30.00'	90°00'00"	47.12'
L5	S06°46'52"W	216.69'	C5	30.00'	90°00'00"	47.12'

NOTE: ALL CURVES ARE MEASURED TO BACK OF CURB AND CENTERLINE.

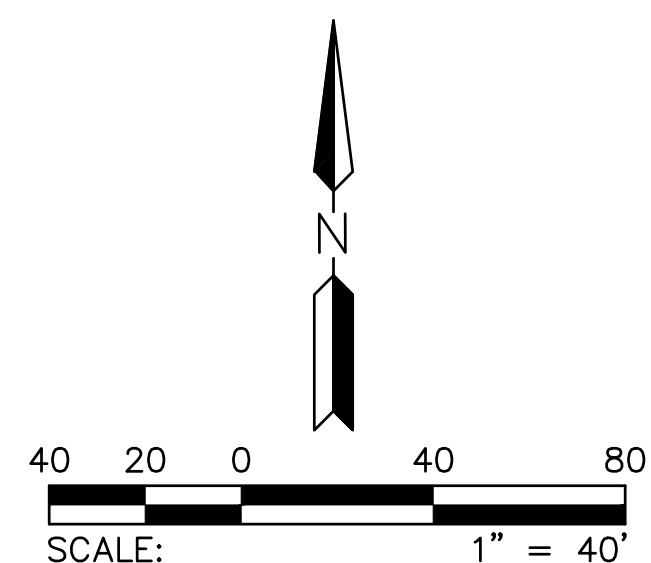


TYPICAL COLLECTOR DIMENSIONS

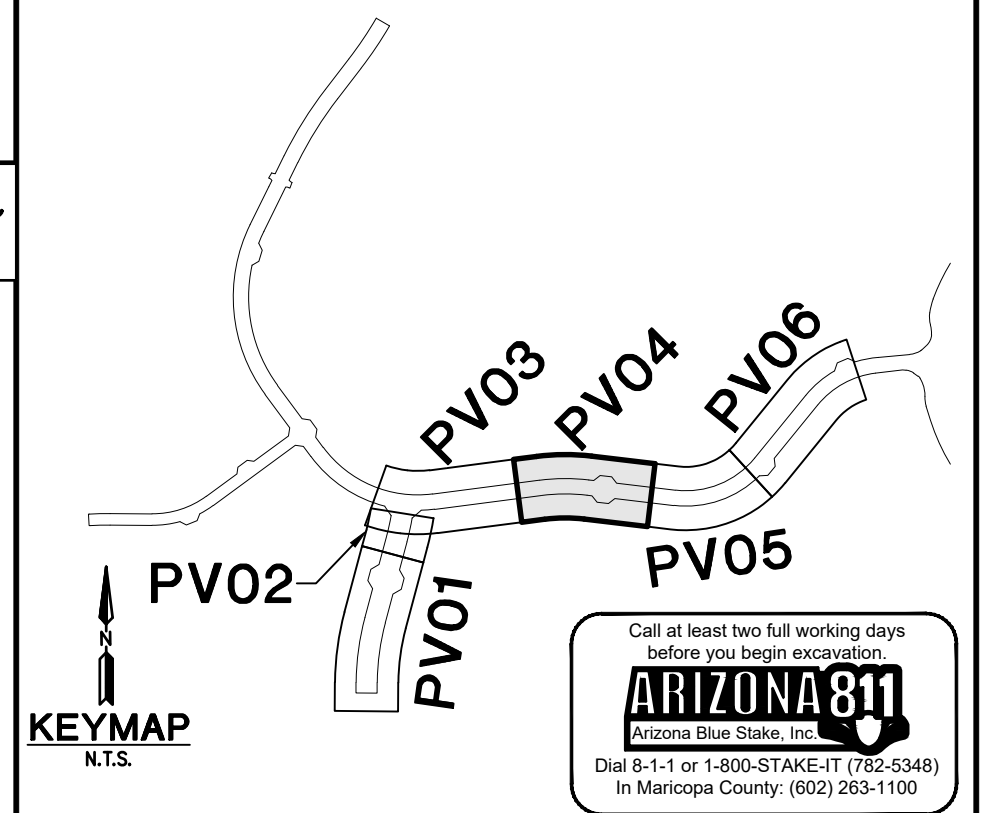
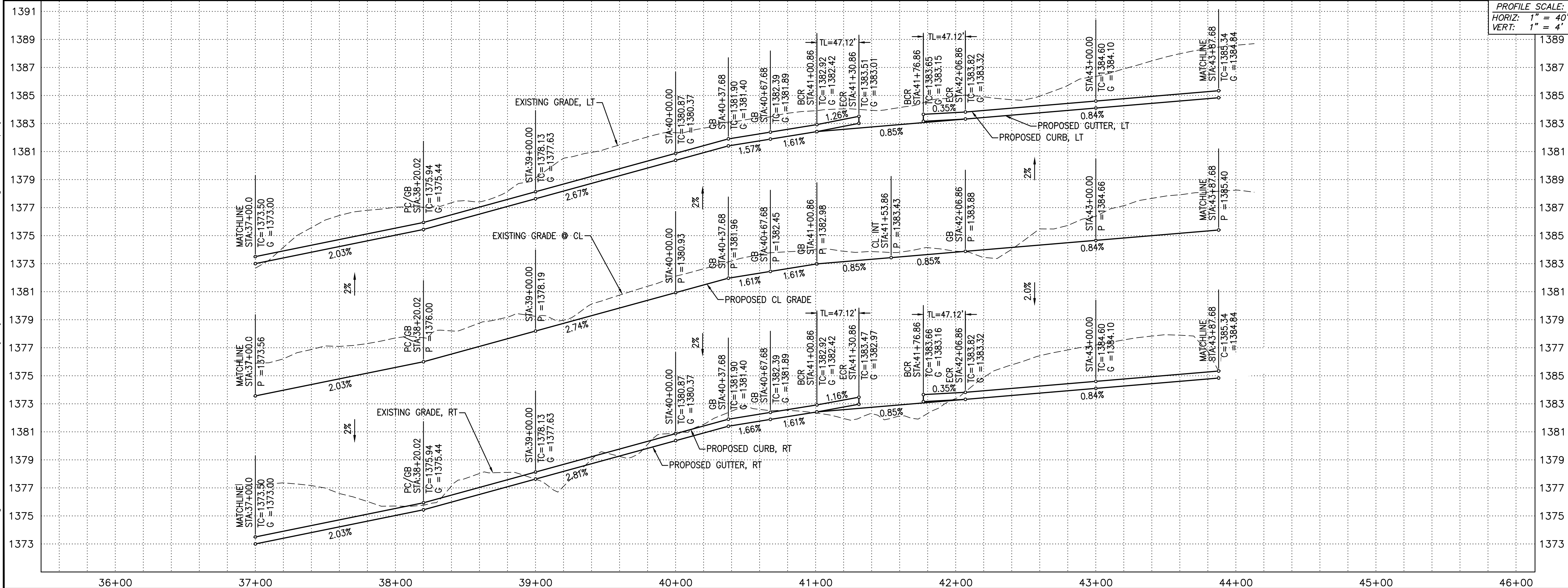
DESIGN SPEED = 35 MPH
UNLESS NOTED OTHERWISE
SCALE: NTS

PAVING CONSTRUCTION		
2	INSTALL SURVEY MONUMENT; MAG STD DTL 120 TYPE 'B'.	3 EA
5	INSTALL PAVEMENT 3" AC OVER 8" ABC; SEE TYPICAL STREET SECTION ON DT03.	242 SY
6	INSTALL PAVEMENT 6" AC (2" OF A 12.5MM RESIDENTIAL OVER 4" OF A 19.0MM ARTERIAL SUPERPAVE) OVER 10" ABC; SEE TYPICAL SECTION ON SHEET DT03	3114 SY
9	CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A.	1163 LF
12	CONSTRUCT 5' SIDEWALK; MAG STD DTL 230.	7006 SF
17	CONSTRUCT 6' CONCRETE VALLEY GUTTER & APRON; MAG STD DTL 240 WITH FIBER MESH.	1384 SF
19	ADJUST WATER VALVE BOX & COVER PER MAG DTL 391-2.	4 EA
21	INSTALL FIRE HYDRANT PAVEMENT MARKER; PER COB DTL 31440.	2 EA
27	CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A, WITH DEPRESSION LIP.	645 LF
37	CONSTRUCT 80 MM INTERLOCKING CONCRETE PAVERS PER COB DTL 632206; 10' MIN. LENGTH PER COB STD. DTL. 63220.	2 EA
38	INSTALL STREET SIGN POST; PER COB DTL 65120.	5 EA
65	CONSTRUCT DIRECTIONAL SIDEWALK RAMPS PER COB STD DTL 63240.	4 EA

ROSEWOOD AVENUE



PROFILE SCALE:
HORIZ: 1" = 40'
VERT: 1" = 4'

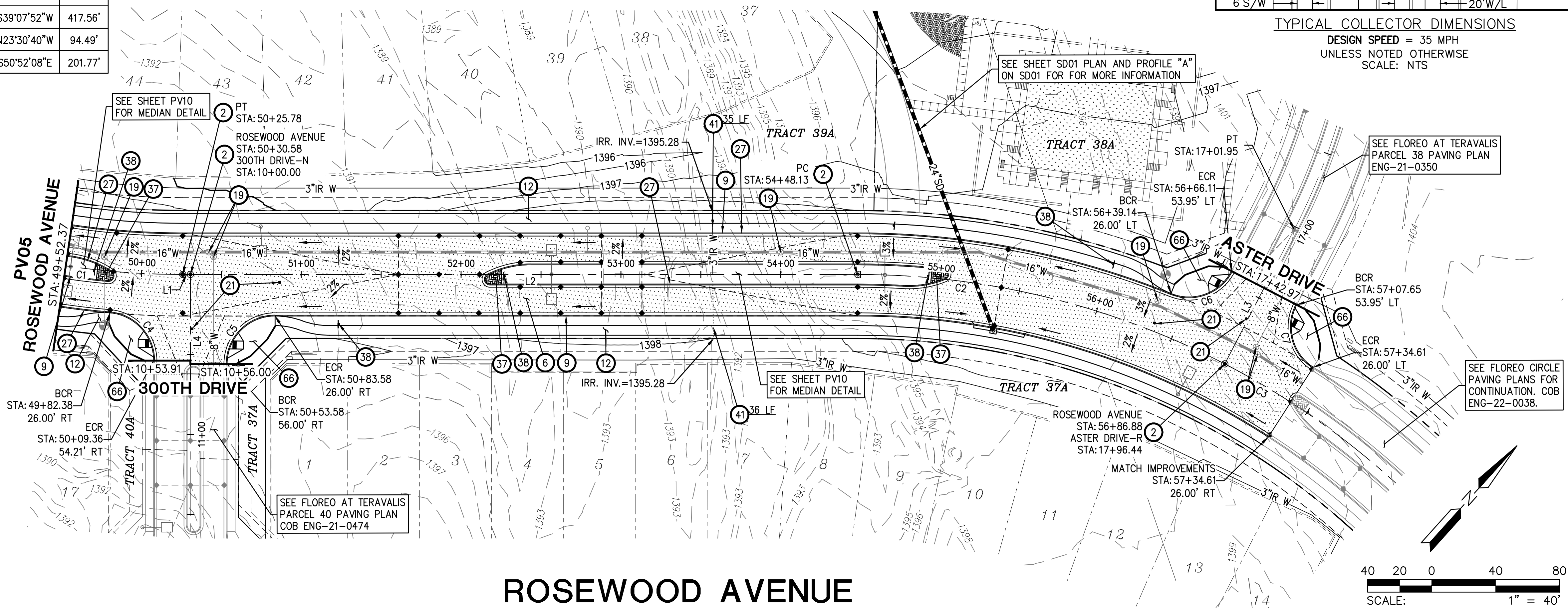


FLOREO AT TERAVALIS COLLECTORS - PHASE 1 PAVING PLAN & PROFILE		
ENGINEER INFORMATION		
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL 3RD SUBMITTAL
AS-BUILT SEAL	DESIGN SEAL 	
ORIGINAL PLAN DATE Aug-21	LATEST REVISION DATE Feb-23	COB PLAN TRACKING # ENG-21-0288 COB PERMIT # ENG-21-0288
PROJECT NUMBER 1175	SHEET NUMBER PV04 SHT. 8 OF 20	

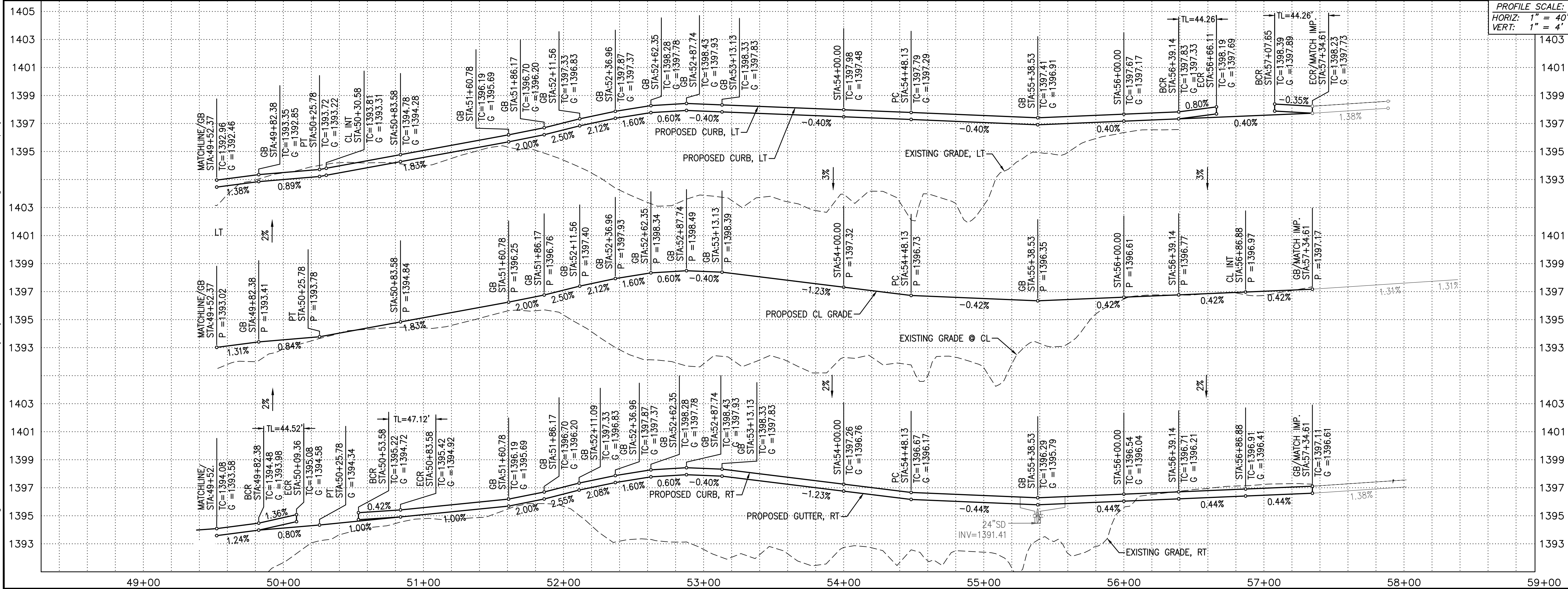
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CURVE TABLE				LINE TABLE		
NO.	RADIUS	DELTA	LENGTH	NO.	DIRECTION	LENGTH
C1	500.00'	57°39'01"	503.09'	L1	S39°07'52"W	4.80'
C2	500.00'	27°21'29"	238.74'	L2	S39°07'52"W	417.56'
C3	500.00'	23°12'09"	202.48'	L3	N23°30'40"W	94.49'
C4	30.00'	85°01'37"	44.52'	L4	S50°52'08"E	201.77'
C5	30.00'	90°00'00"	47.12'			
C6	30.00'	84°31'48"	44.26'			
C7	30.00'	84°31'48"	44.26'			

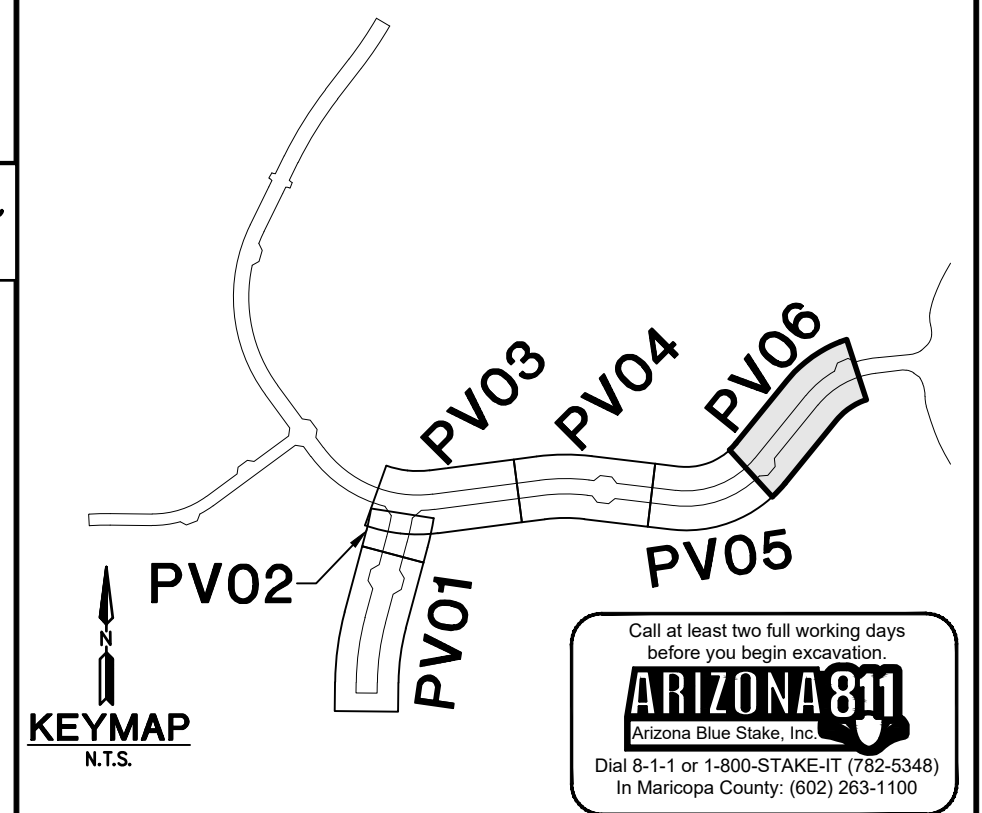
NOTE: ALL CURVES ARE MEASURED TO BACK OF CURB AND CENTERLINE.



ROSEWOOD AVENUE



PAVING CONSTRUCTION			
2	INSTALL SURVEY MONUMENT; MAG STD DTL 120 TYPE 'B'.	4	EA
6	INSTALL PAVEMENT 6" AC (2" OF A 12.5MM RESIDENTIAL OVER 4" OF A 19.0MM ARTERIAL SUPERPAVE) OVER 10" ABC; SEE TYPICAL SECTION ON SHEET DT03	3989	SY
9	CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A.	1113	LF
12	CONSTRUCT 5' SIDEWALK; MAG STD DTL 230.	8159	SF
19	ADJUST WATER VALVE BOX & COVER PER MAG DTL 391-2.	7	EA
21	INSTALL FIRE HYDRANT PAVEMENT MARKER; PER COB DTL 31440.	4	EA
27	CONSTRUCT 6" VERTICAL CURB & GUTTER, PER MAG STD DTL 220-1, TYPE A, WITH DEPRESSED LIP.	965	LF
37	CONSTRUCT 80 MM INTERLOCKING CONCRETE PAVERS PER COB DTL 632206; 10' MIN. LENGTH PER COB STD. DTL. 63220.	3	EA
38	INSTALL STREET SIGN POST; PER COB DTL 65120.	5	EA
41	INSTALL 6" DIP SLEEVE NOT WITHIN THE STRUCTURAL SECTION OF THE STREET. SEE LANDSCAPE PLANS FOR DETAILS & PLAN VIEW FOR INVERTS.	71	LF
66	CONSTRUCT DIRECTIONAL SIDEWALK RAMPS PER COB STD DTL 63240, MODIFIED FOR A SINGLE RAMP.	4	EA

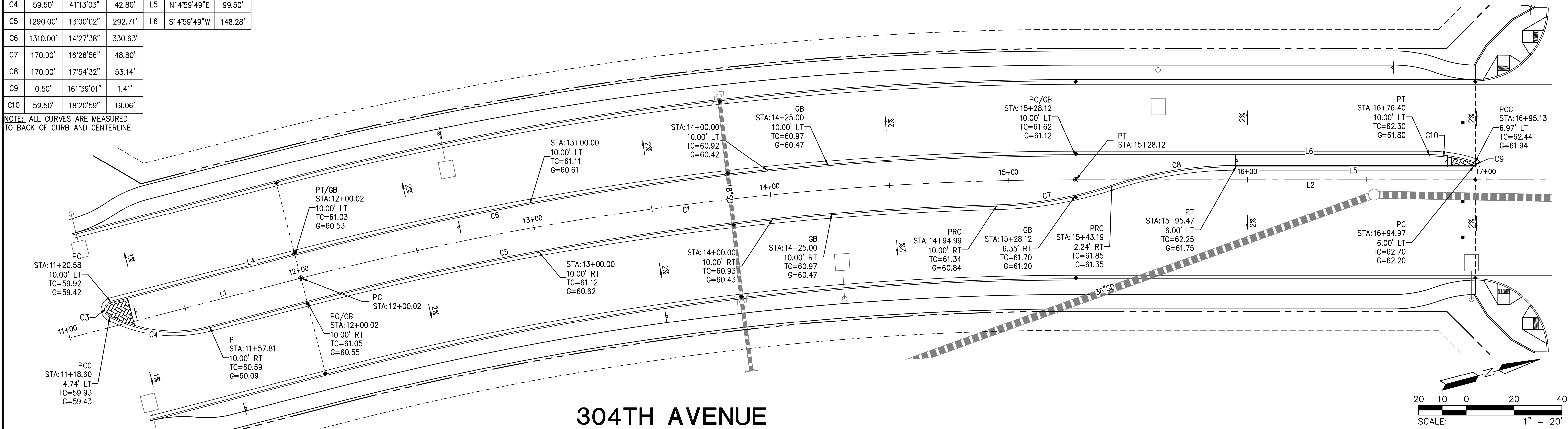


PROJECT INFORMATION			
PROJECT NAME FLOREO AT TERAVALIS COLLECTORS - PHASE 1 PAVING PLAN & PROFILE			
ENGINEER INFORMATION <div> <div> HILGARTWILSON </div> <div> COB PERMITTING APPROVED SEAL COB ENGINEERING APPROVED SEAL </div> </div>			
AS-BUILT SEAL DESIGN SEAL 		SUBMITTAL 3RD SUBMITTAL	
ORIGINAL PLAN DATE Aug-21		LATEST REVISION DATE Feb-23	
PROJECT NUMBER 1175		SHEET NUMBER PV06	
		SHT. 10 OF 20	
		COB PLAN TRACKING # ENG-21-0288	
		COB PERMIT # ENG-21-0288	

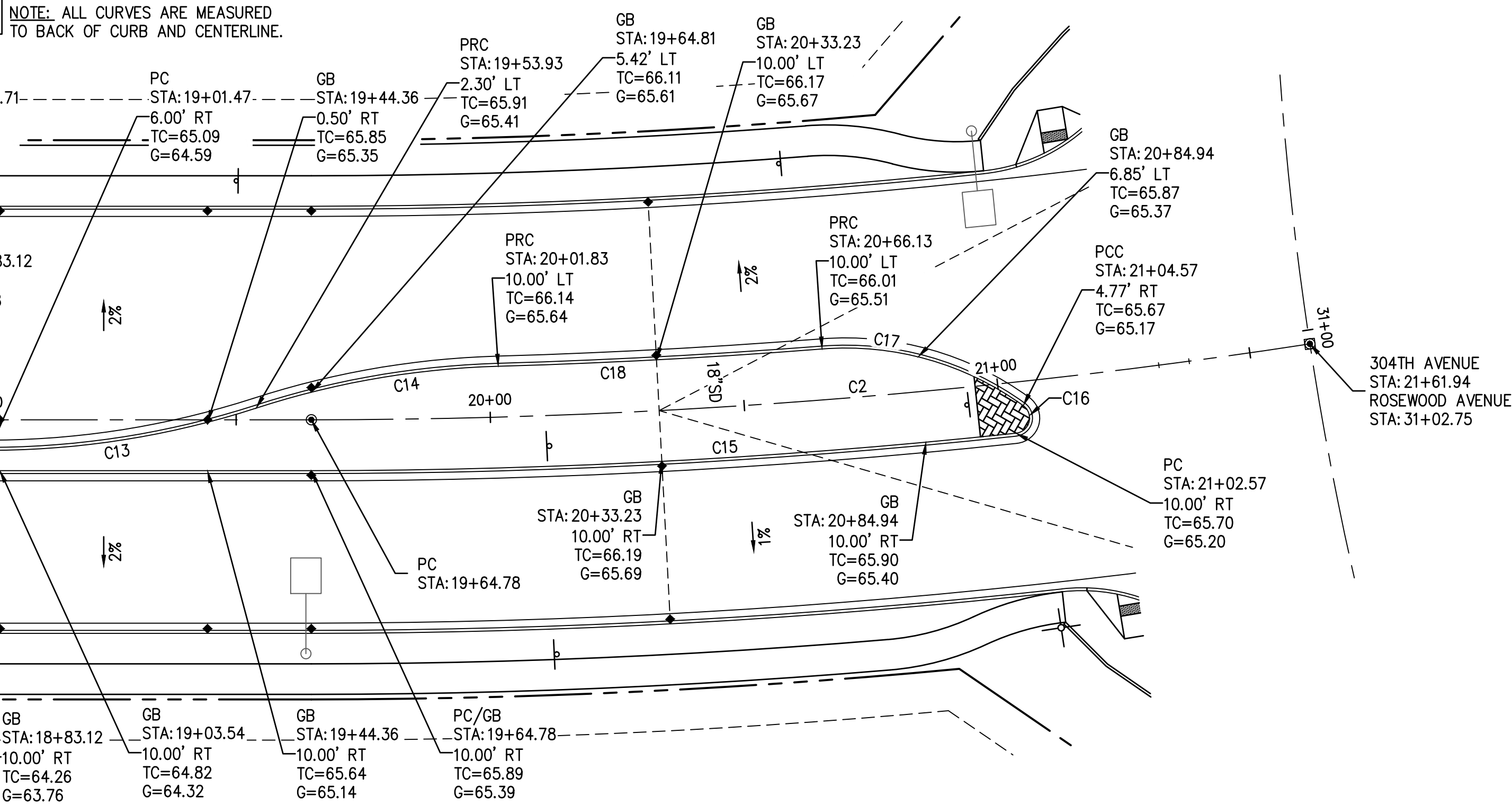
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CURVE TABLE				LINE TABLE		
NO.	RADIUS	DELTA	LENGTH	NO.	DIRECTION	LENGTH
C1	1300.00'	14°27'38"	328.10'	L1	N00°32'11"E	200.02'
C3	3.00'	138°46'57"	7.27'	L4	S00°32'11"W	79.44'
C4	59.50'	41°13'03"	42.80'	L5	N14°59'49"E	99.50'
C5	1290.00'	13°00'02"	292.71'	L6	S14°59'49"W	148.28'
C6	1310.00'	14°27'38"	330.63'			
C7	170.00'	16°26'56"	48.80'			
C8	170.00'	17°54'32"	53.14'			
C9	0.50'	161°39'01"	1.41'			
C10	59.50'	18°20'59"	19.06'			

NOTE: ALL CURVES ARE MEASURED TO BACK OF CURB AND CENTERLINE.



CURVE TABLE				CURVE TABLE				CURVE TABLE				CURVE TABLE				CURVE TABLE				LINE TABLE		
NO.	RADIUS	DELTA	LENGTH	NO.	RADIUS	DELTA	LENGTH	NO.	RADIUS	DELTA	LENGTH	NO.	RADIUS	DELTA	LENGTH	NO.	RADIUS	DELTA	LENGTH	NO.	DIRECTION	LENGTH
C2	1300.00'	8°41'23"	197.16'	C12	59.50'	18°20'59"	19.06'	C14	170.00'	16°20'27"	48.48'	C16	3.00'	137°58'22"	7.22'	C18	1290.00'	2°50'01"	63.80'	L3	N14°59'49"E	216.31'
C11	0.50'	161°39'01"	1.41'	C13	170.00'	17°58'26"	53.33'	C15	1310.00'	6°04'23"	138.85'	C17	59.50'	40°25'15"	41.98'	NOTE: ALL CURVES ARE MEASURED TO BACK OF CURB AND CENTERLINE.						



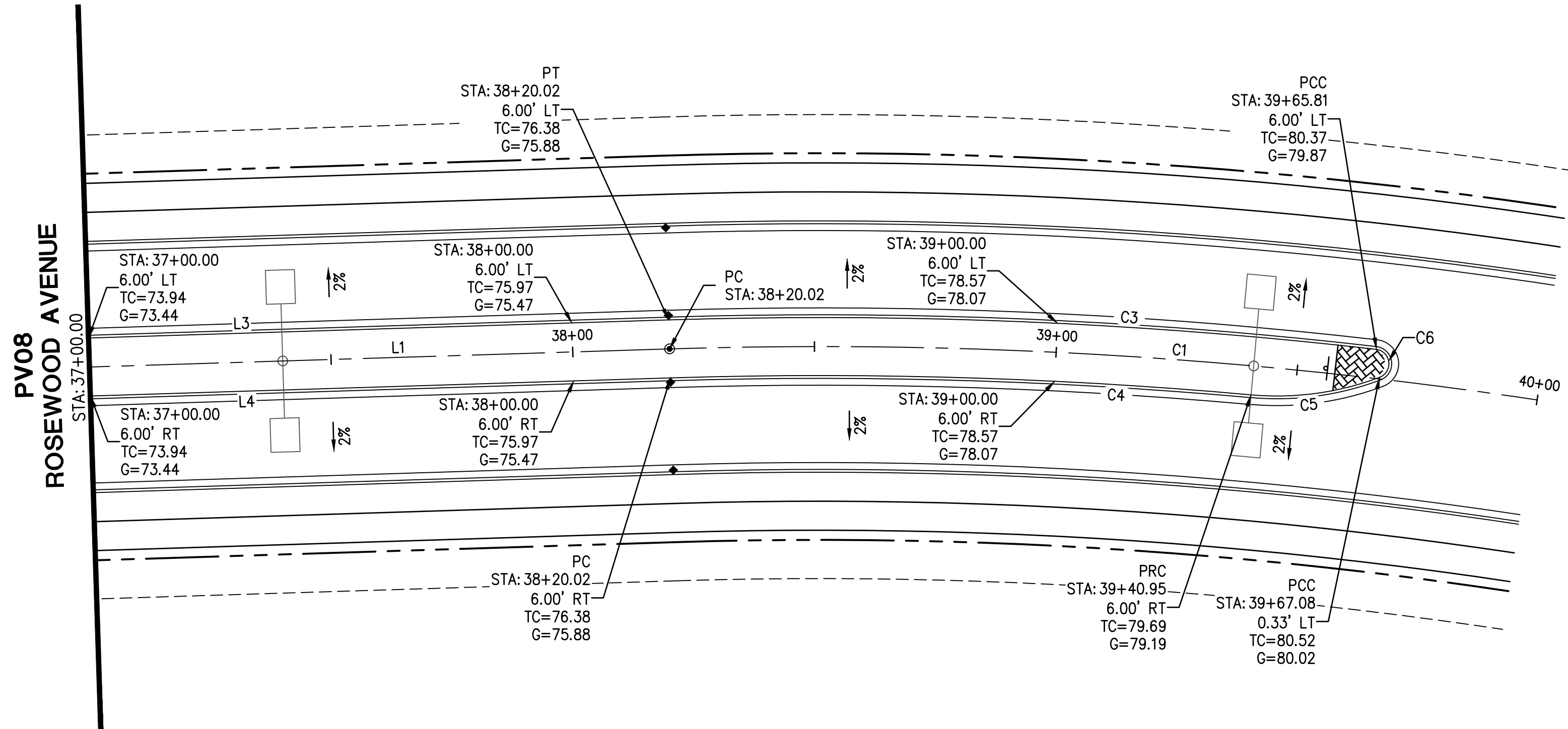
PLAN NAME FLOREO AT TERAVALIS COLLECTORS - PHASE 1 MEDIAN DETAILS			
ENGINEER INFORMATION HILGARTWILSON			
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL 3RD SUBMITTAL	COB PLAN TRACKING # ENG-21-0288
AS-BUILT SEAL	DESIGN SEAL		
ORIGINAL PLAN DATE Aug-21	LATEST REVISION DATE Feb-23	COB PERMIT # ENG-21-0288	
PROJECT NUMBER 1175	SHEET NUMBER PV07	SHT. 11 OF 20	

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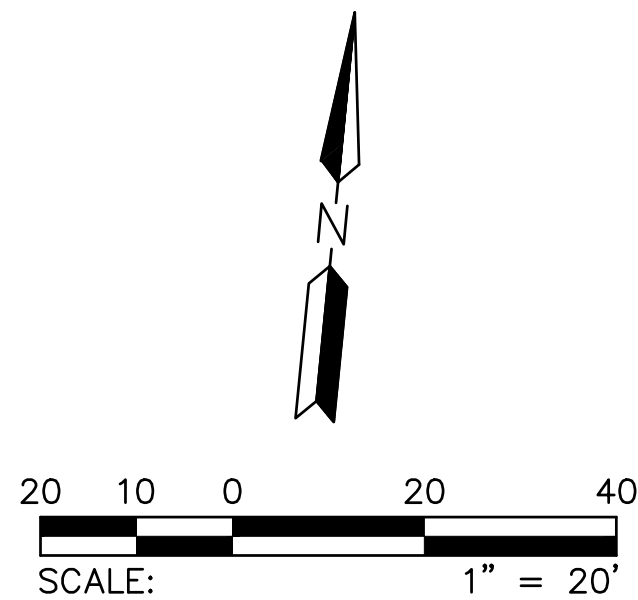
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CURVE TABLE				LINE TABLE		
NO.	RADIUS	DELTA	LENGTH	NO.	DIRECTION	LENGTH
C1	1000.00'	14°11'23"	247.66'	L1	N82°35'29"E	561.68'
C3	1005.41'	8°21'27"	146.66'	L3	N82°35'29"E	120.02'
C4	994.00'	6°55'43"	120.20'	L4	S82°35'29"W	120.02'
C5	60.00'	25°49'30"	27.04'			
C6	3.00'	150°50'54"	7.90'			

NOTE: ALL CURVES ARE MEASURED TO BACK OF CURB AND CENTERLINE.

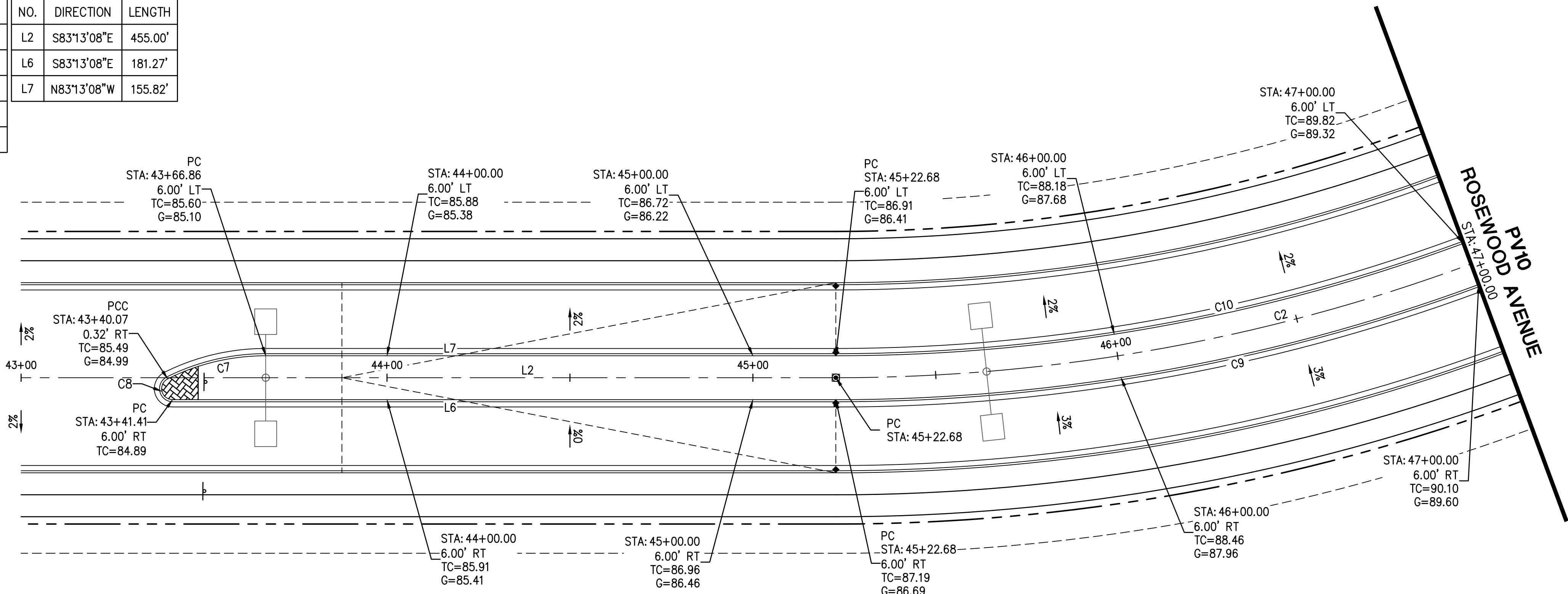


ROSEWOOD AVENUE

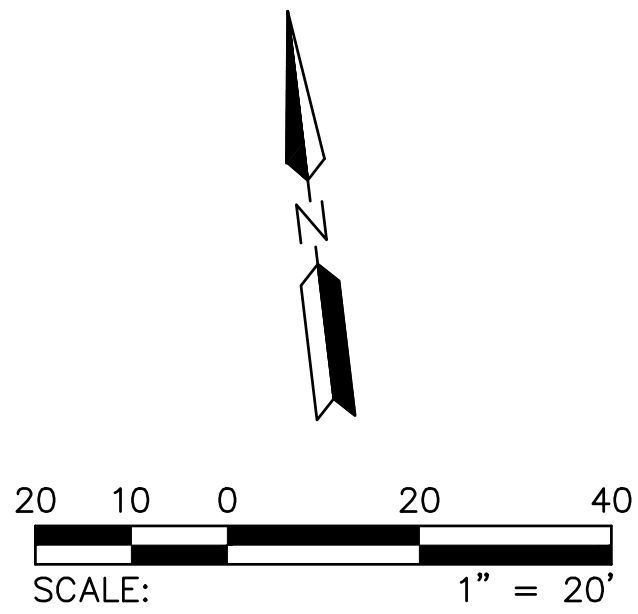


CURVE TABLE				LINE TABLE		
NO.	RADIUS	DELTA	LENGTH	NO.	DIRECTION	LENGTH
C2	500.00'	57°39'01"	503.09'	L2	S83°13'08"E	455.00'
C7	60.00'	26°31'31"	27.78'	L6	S83°13'08"E	181.27'
C8	3.00'	153°28'29"	8.04'	L7	N83°13'08"W	155.82'
C9	506.00'	20°19'10"	179.45'			
C10	494.00'	20°19'09"	175.19'			

NOTE: ALL CURVES ARE MEASURED TO BACK OF CURB AND CENTERLINE.



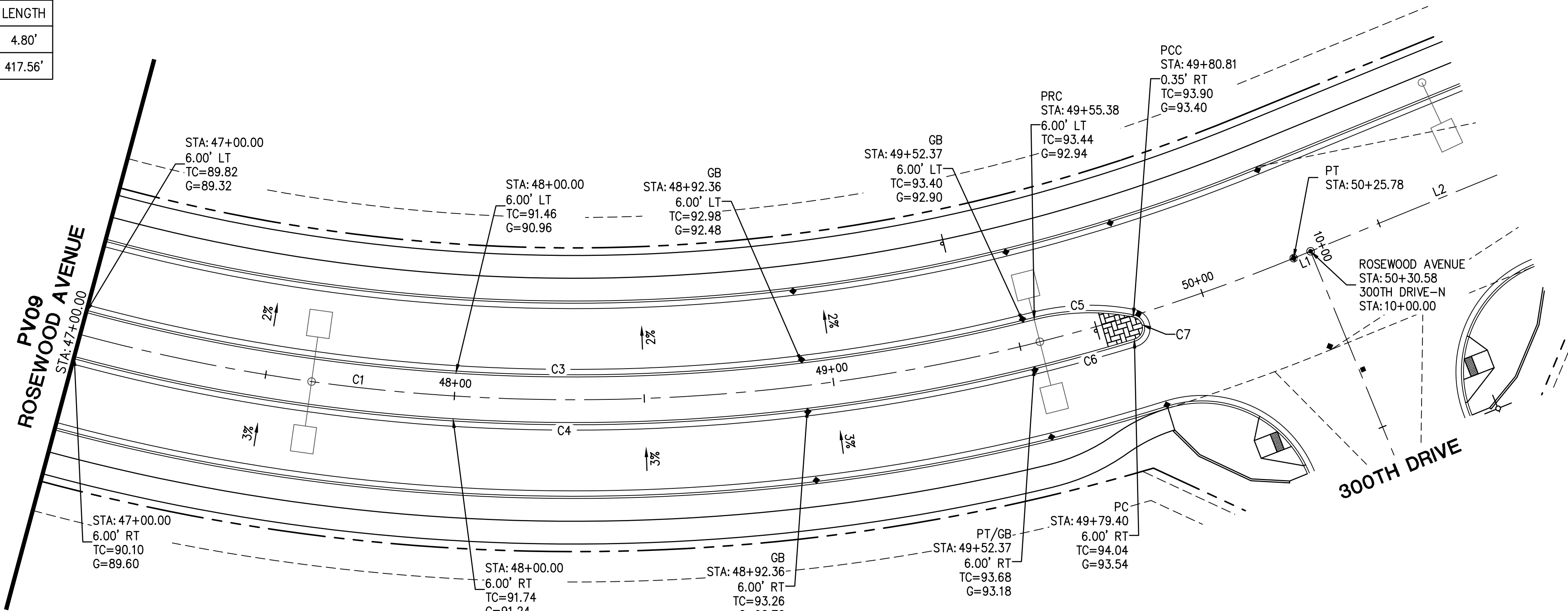
ROSEWOOD AVENUE



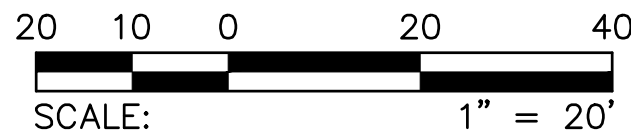
PLAN NAME FLOREO AT TERAVALIS COLLECTORS - PHASE 1 MEDIAN DETAILS		SUBMITTAL 3RD SUBMITTAL	
ENGINEER INFORMATION HILGARTWILSON		SUBMITTAL 3RD SUBMITTAL	
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL 3RD SUBMITTAL	
AS-BUILT SEAL	DESIGN SEAL 	SUBMITTAL 3RD SUBMITTAL	
ORIGINAL PLAN DATE Aug-21	LATEST REVISION DATE Feb-23	SUBMITTAL 3RD SUBMITTAL	
PROJECT NUMBER 1175	SHEET NUMBER PV09	SUBMITTAL 3RD SUBMITTAL	
SHT. 13 OF 20		SUBMITTAL 3RD SUBMITTAL	

CURVE TABLE				LINE TABLE		
NO.	RADIUS	DELTA	LENGTH	NO.	DIRECTION	LENGTH
C1	500.00'	57°39'01"	503.09'	L1	N39°07'52"E	4.80'
C3	494.00'	29°15'53"	252.32'	L2	N39°07'52"E	417.56'
C4	506.00'	28°55'10"	255.40'			
C5	59.50'	25°18'06"	26.28'			
C6	506.00'	3°05'49"	27.35'			
C7	3.00'	151°56'48"	7.96'			

NOTE: ALL CURVES ARE MEASURED TO BACK OF CURB AND CENTERLINE.

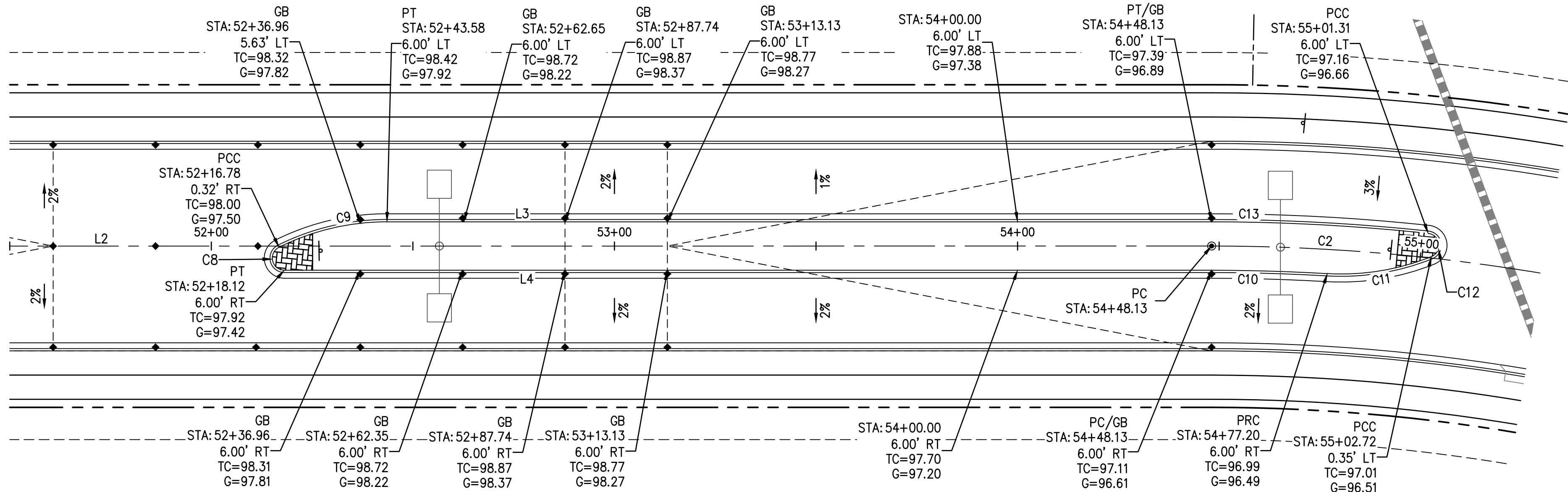


ROSEWOOD AVENUE

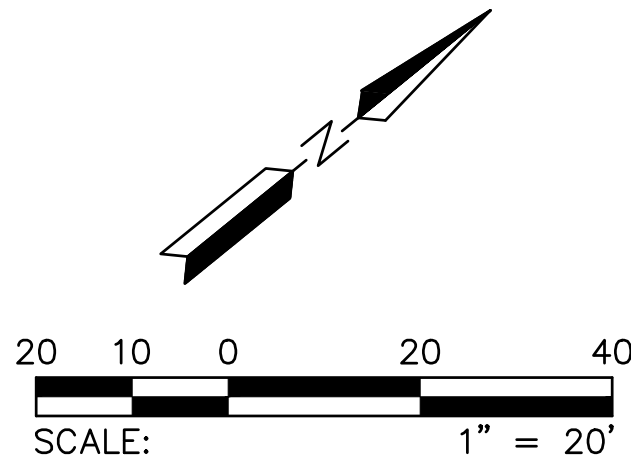


CURVE TABLE				CURVE TABLE				LINE TABLE		
NO.	RADIUS	DELTA	LENGTH	NO.	RADIUS	DELTA	LENGTH	NO.	DIRECTION	LENGTH
C2	500.00'	50°33'38"	441.22'	C11	60.00'	25°10'38"	26.37'	L2	N39°07'52"E	417.56'
C8	3.00'	153°28'29"	8.04'	C12	3.00'	152°03'35"	7.96'	L3	N39°07'52"E	204.56'
C9	60.00'	26°31'31"	27.78'	C13	506.00'	6°05'38"	53.82'	L4	S39°07'52"W	230.01'
C10	494.00'	3°19'51"	28.72'	NOTE: ALL CURVES ARE MEASURED TO BACK OF CURB AND CENTERLINE.						

NOTE: ALL CURVES ARE MEASURED TO BACK OF CURB AND CENTERLINE.



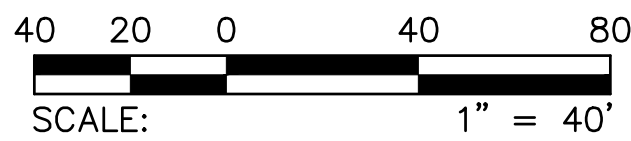
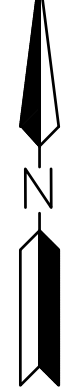
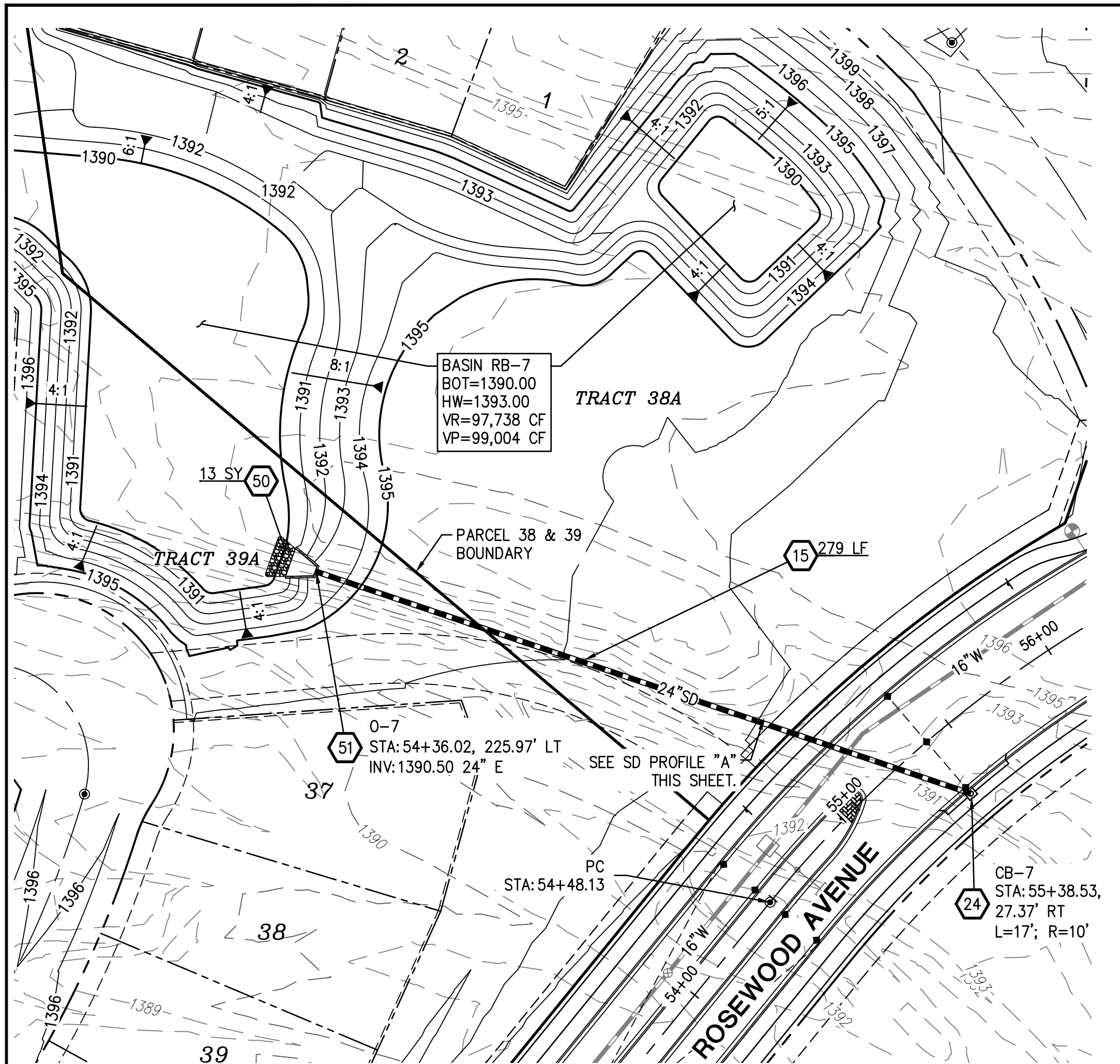
ROSEWOOD AVENUE



PLAN NAME FLOREO AT TERAVALIS COLLECTORS - PHASE 1 MEDIAN DETAILS	
ENGINEER INFORMATION HILGARTWILSON	
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL
ORIGINAL PLAN DATE Aug-21	LATEST REVISION DATE Feb-23
PROJECT NUMBER 1175	SHEET NUMBER PV10 14 OF 20
SUBMITTAL 3RD SUBMITTAL	
COB PLAN TRACKING # ENG-21-0288	
COB PERMIT # ENG-21-0288	

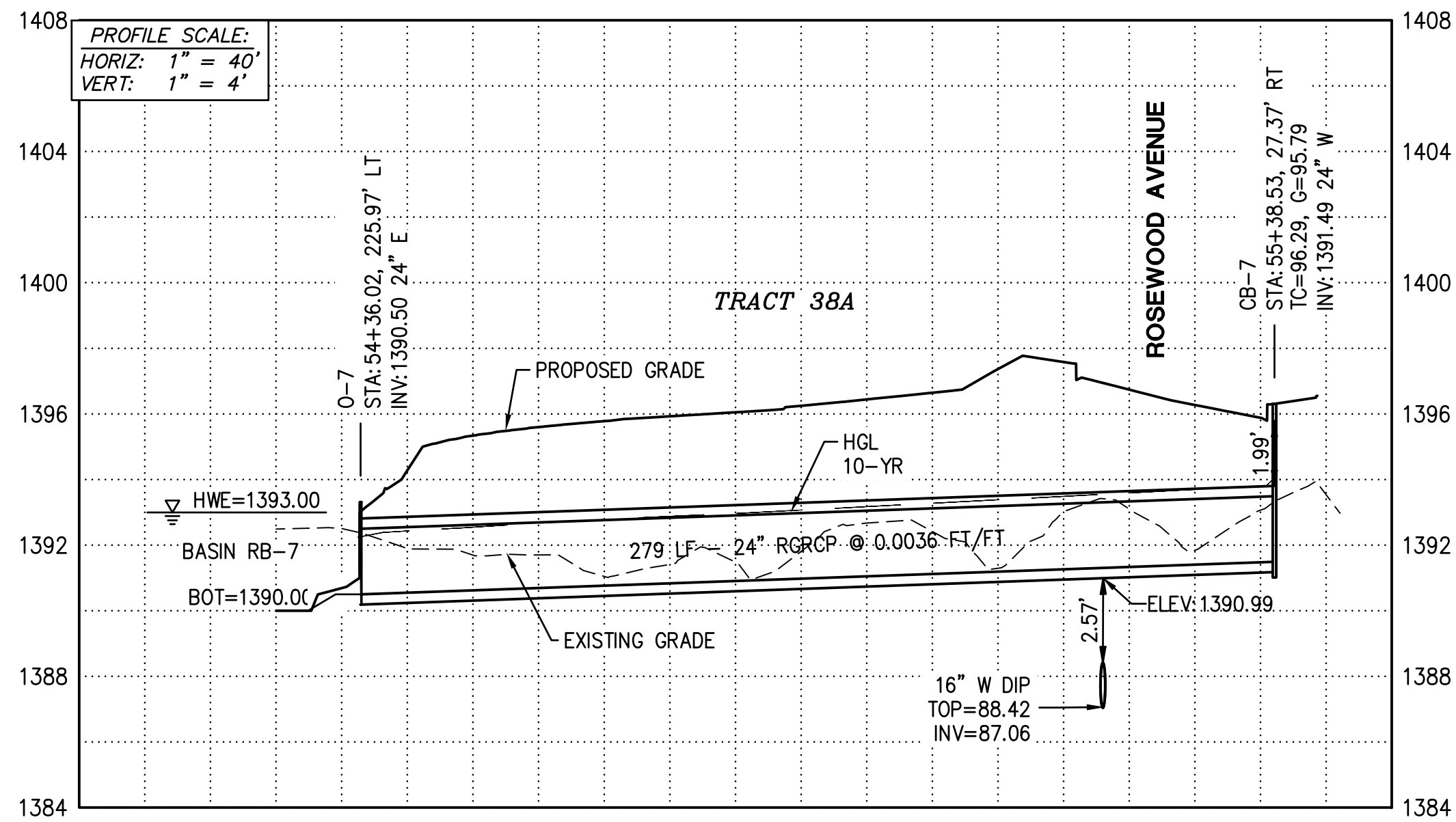
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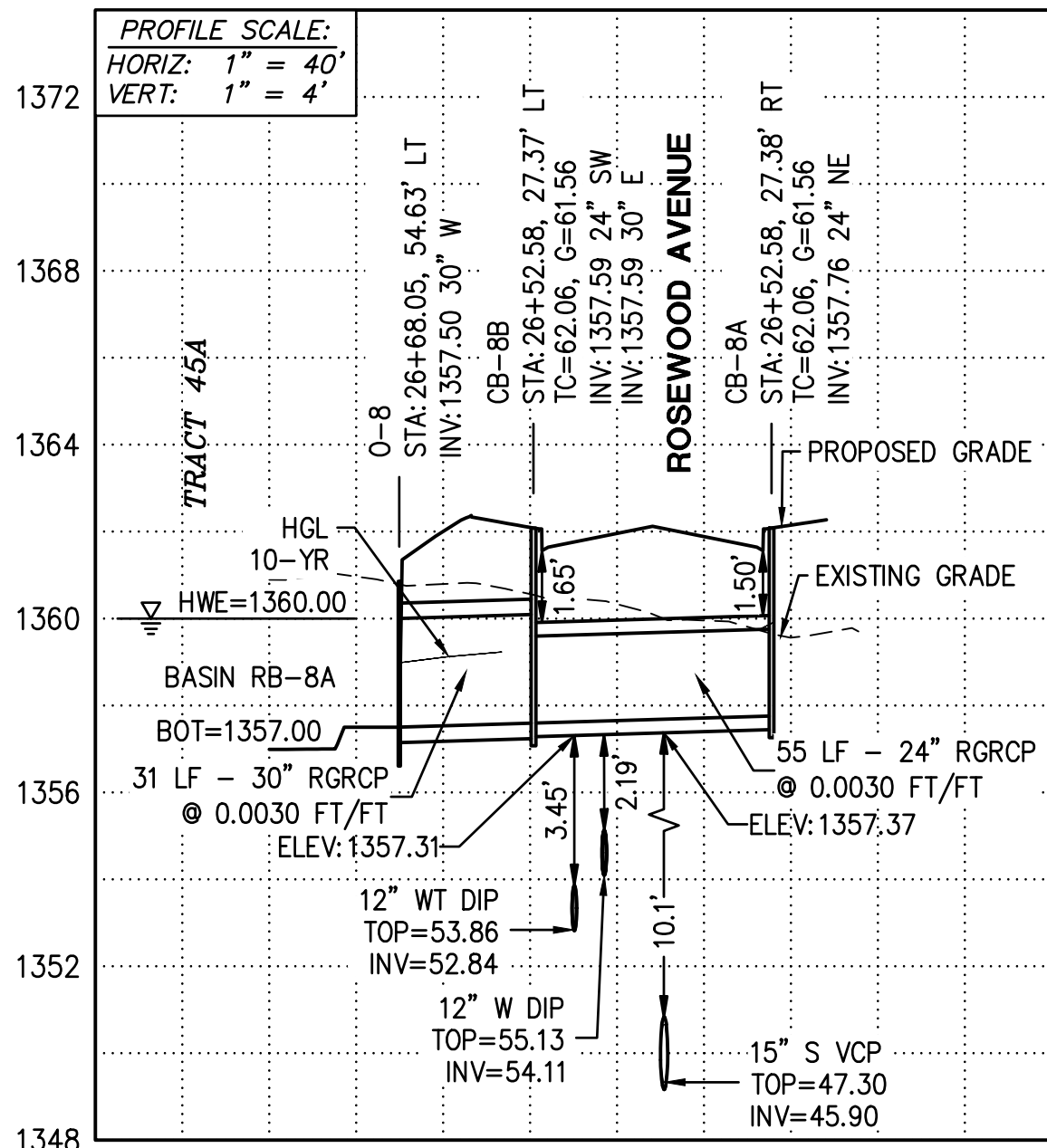
STORM DRAIN CONSTRUCTION

- | | | |
|----|--|--------|
| 15 | INSTALL 24" RGRCP STORM DRAIN, CLASS IV | 279 LF |
| 24 | CONSTRUCT CATCH BASIN; PER COB DTL B-510A & B-510B; SIZE PER PLAN | 1 EA |
| 50 | PLACE LOOSE RIP-RAP D50=6", THICKNESS 15" ON FILTER FABRIC. MIRAFI EROSION PROTECTION GEO-TEXTILE OR APPROVED EQUIVALENT. COLOR PER DEVELOPER'S REPRESENTATIVE. SEE RIP RAP DETAIL ON DT03 | 13 SY |
| 51 | CONSTRUCT CONCRETE OUTLET HEADWALL PER COB STD DTL 51200 WITH TRASH RACK PER COB STD DTL B-508 AND HANDRAIL PER COB STD B-110 | 1 EA |



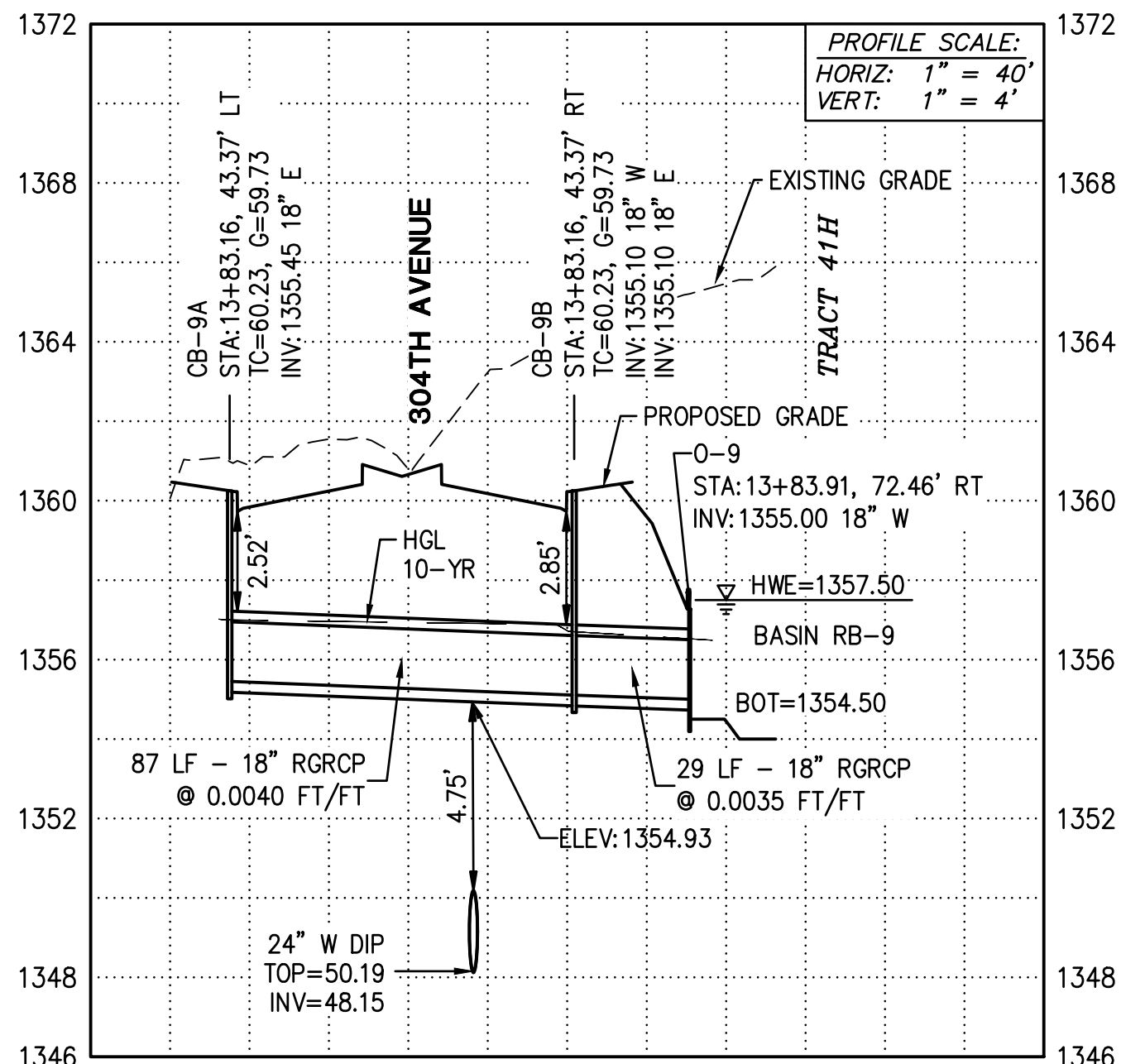
SD PROFILE 'A'

SEE PAVING SHEET PV01



SD PROFILE 'B'

SEE PAVING SHEET PV03

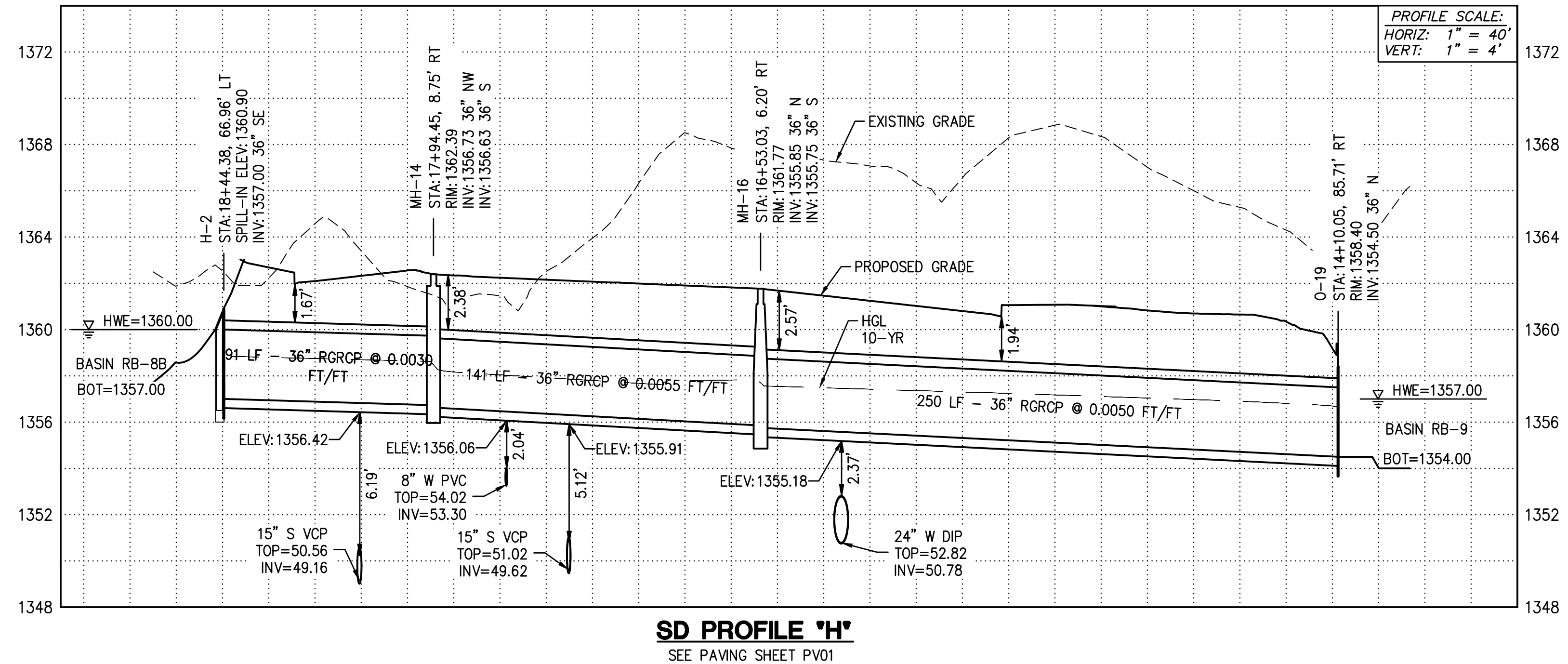
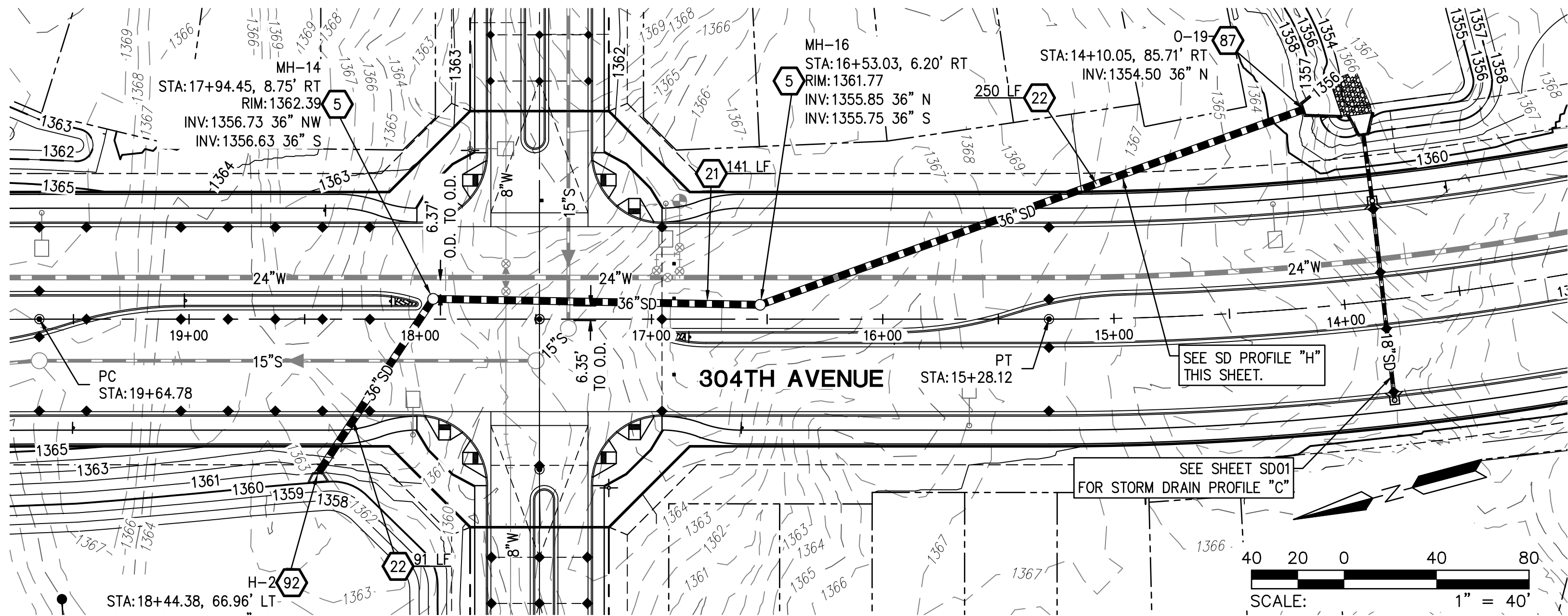


SD PROFILE 'C'

SEE PAVING SHEET PV01

PLAN NAME FLOREO AT TERAVALIS COLLECTORS - PHASE 1 STORM DRAIN PROFILES			
ENGINEER INFORMATION HILGARTWILSON		SUBMITTAL 3RD SUBMITTAL	
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL		
AS-BUILT SEAL	DESIGN SEAL 		
ORIGINAL PLAN DATE Aug-21	LATEST REVISION DATE Feb-23		
PROJECT NUMBER 1175	SHEET NUMBER SD01	SHT. 15 OF 20	COB PLAN TRACKING # ENG-21-0288 COB PERMIT # ENG-21-0288

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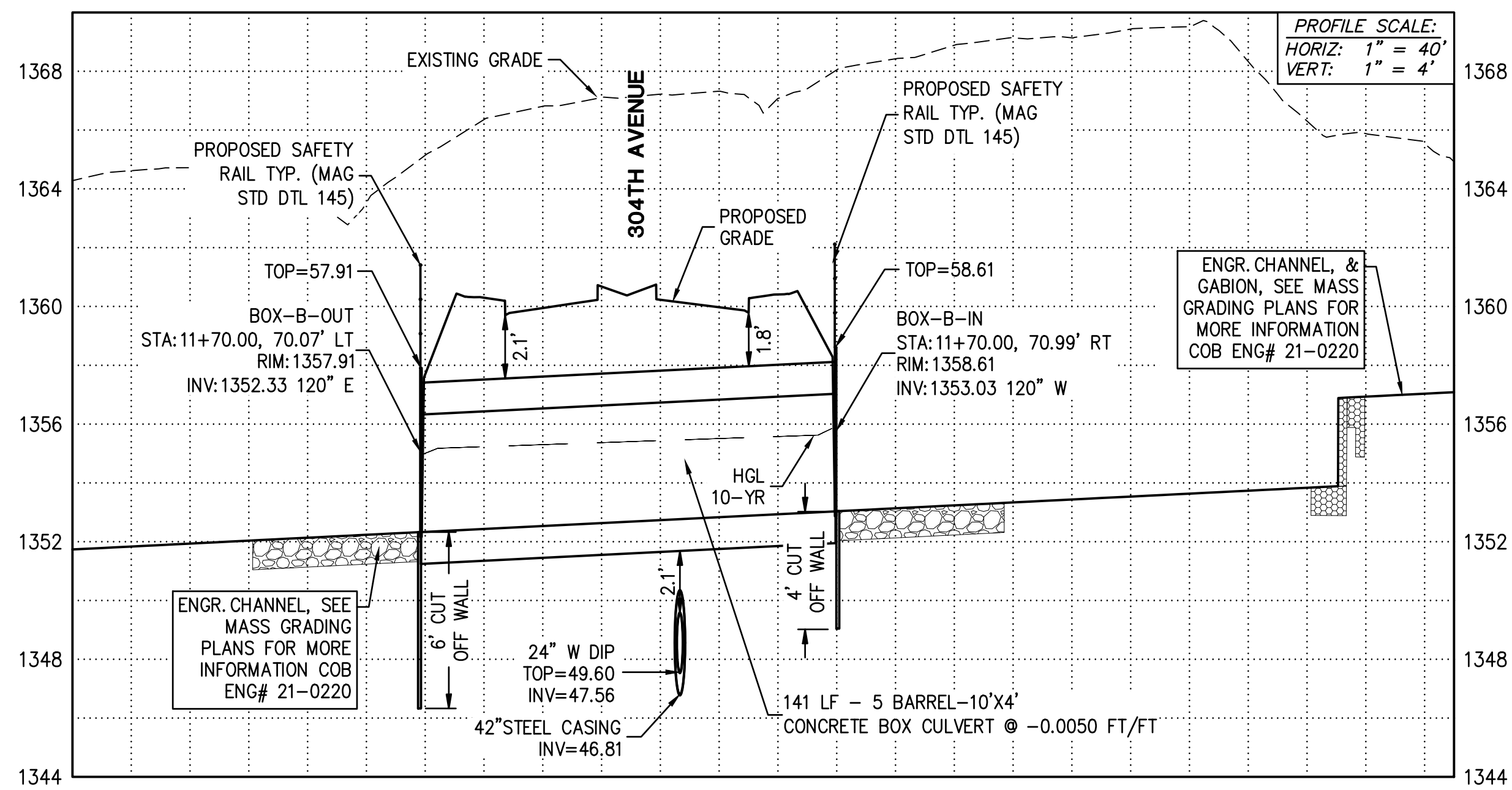
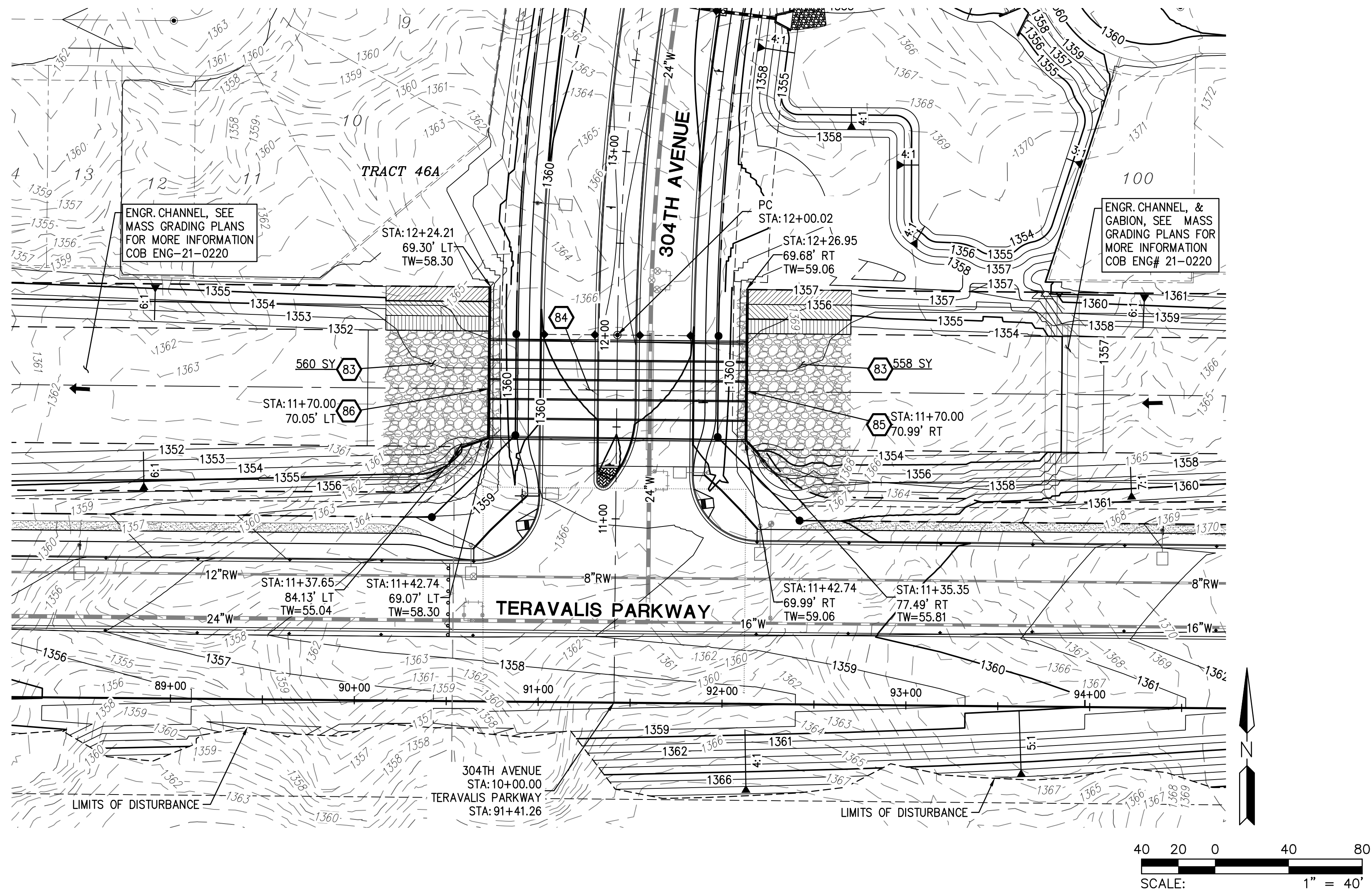


STORM DRAIN CONSTRUCTION			
5	CONSTRUCT STORM DRAIN MANHOLE; MAG STD DTL 424-2, 520 & 522, ADJUST RIM TO GRADE PER MAG DTL 422, COB DTL 41260.	2	EA
21	INSTALL 36" RGRCP STORM DRAIN, CLASS IV	141	LF
22	INSTALL 36" RGRCP STORM DRAIN, CLASS V	336	LF
87	CONSTRUCT CONCRETE HEADWALL MODIFIED FOR 2 PIPES PER COB STD DTL 51200 TYPE AS NOTED WITH TRASH RACK PER COB DTL B-508 AND HAND RAIL PER COB STD DTL B-110.	1	EA
92	CONSTRUCT DROP INLET PER MAG STD DTL 501-5, WITH TRASH RACK PER MAG STD DTL 502-2, SAFETY RAIL PER MAG STD DTL 145.	1	EA



PLAN NAME FLOEO AT TERAVALIS COLLECTORS - PHASE 1 STORM DRAIN PROFILES	
ENGINEER INFORMATION	
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL
ORIGINAL PLAN DATE Aug-21	LATEST REVISION DATE Feb-23
PROJECT NUMBER 1175	SHEET NUMBER SHT. SD02 16 OF 20
SUBMITTAL: 3RD SUBMITTAL	
COB PLAN TRACKING # ENG-21-0288	
COB PERMIT # ENG-21-0288	

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SD PROFILE 'A'
SEE PAVING SHEET PV01

- STORM DRAIN CONSTRUCTION
- 83 INSTALL ANGULAR LOOSE RIP-RAP PER MAG SPEC SECTION 220 D50=6" 15" THICK ON MIRAFI EROSION PROTECTION GEO-TEXTILE OR APPROVED EQUAL FABRIC TO HAVE APPARENT OPENING SIZE OF 0.425MM, PERMITIVITY OF 50 gd/min/ft AND WOVEN GRADATION PER TABLE 6.4 OF 2013 DRAINAGE DESIGN MANUAL FOR MARICOPA COUNTY, ARIZONA (HYDRAULICS). 1118 SY
 - 84 CONSTRUCT FIVE BARREL 10'X 4' BOX CULVERT SEE DETAIL ON SHEET SD03 AND SD04, SPECS AND ADOT STD DTL SD 6.05. 141 LF
 - 85 CONSTRUCT INLET WING PER ADOT STD DTL SD 6.08 (6:1 SLOPE ON WING WALLS) SEE DETAIL ON SHEET SD03 AND SD04, SAFETY RAIL PER MAG STD DTL 145. 1 EA
 - 86 CONSTRUCT OUTLET WING PER ADOT STD DTL SD 6.08 (6:1 SLOPE ON WING WALLS) SEE DETAIL ON SHEET SD03 AND SD04, SAFETY RAIL PER MAG STD DTL 145. 1 EA



PLAN NAME FLOREO AT TERAVALIS COLLECTORS - PHASE 1 BOX CULVERT-PLAN & PROFILE	
ENGINEER INFORMATION HILGARTWILSON	
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL
ORIGINAL PLAN DATE Aug-21	LATEST REVISION DATE Feb-23
PROJECT NUMBER 1175	SHEET NUMBER SD03 17 OF 20
SUBMITTAL 3RD SUBMITTAL	
COB PLAN TRACKING # ENG-21-0288	
COB PERMIT # ENG-21-0288	

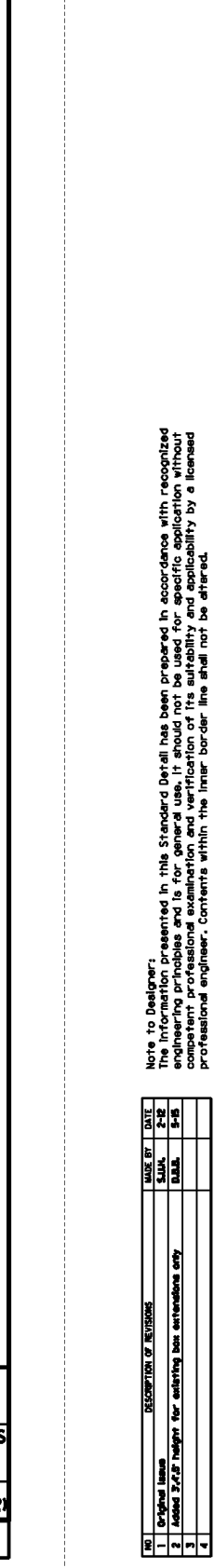
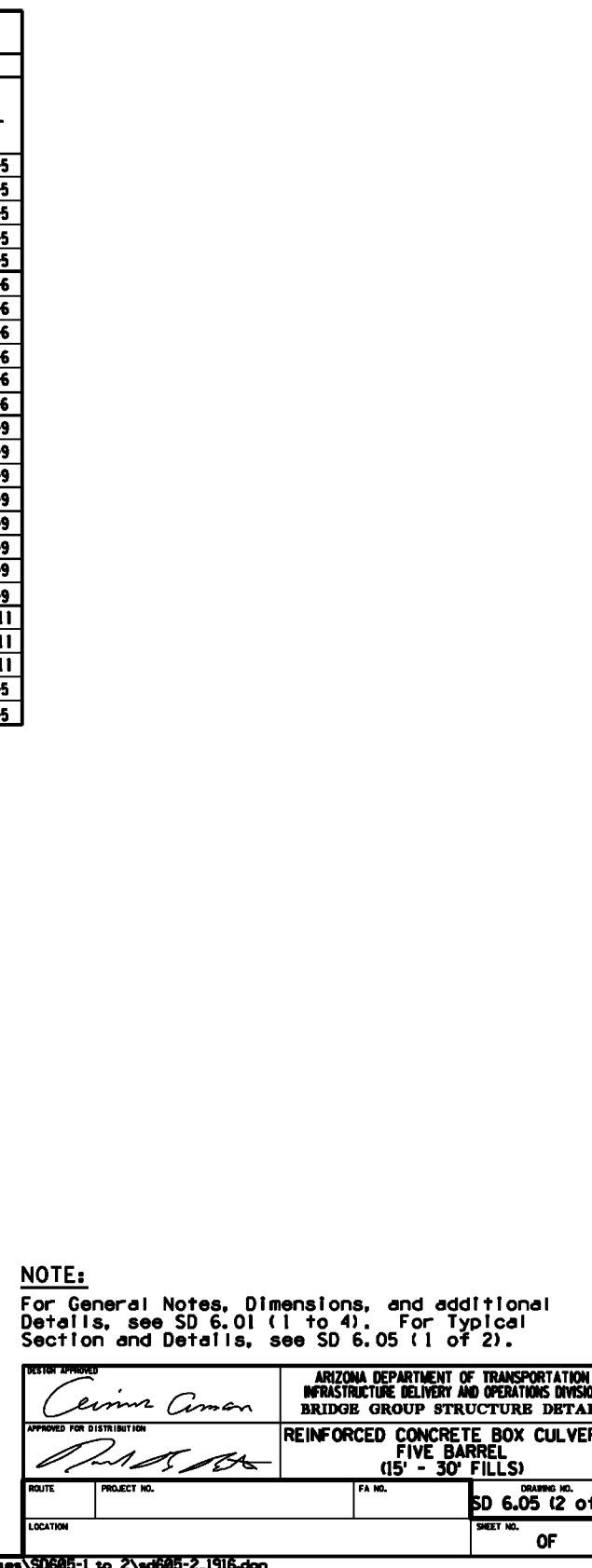
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		TABLE NO. IV 20-25° FILL																
Span S	Top of grade T	aa		bb		cc		dd		ee		ff		gg		hh		
		Radius ft.	Span ft.	Radius ft.	Span ft.	Radius ft.	Span ft.	Radius ft.	Span ft.	Radius ft.	Span ft.	Radius ft.	Span ft.	Radius ft.	Span ft.	Radius ft.	Span ft.	
6	3	11"	11"	12	42	41"	5	12	50	100	5	7	34	4	3	4	5	
	4	11"	11"	12	42	41"	5	12	50	100	5	7	34	4	3	4	5	
	5	11"	11"	12	42	41"	5	12	50	100	5	7	34	4	3	4	5	
	6	11"	11"	12	42	41"	5	12	50	100	5	7	34	4	3	4	5	
	7	11"	11"	12	42	41"	5	12	50	100	5	7	34	4	3	4	5	
	8	11"	11"	12	42	41"	5	12	50	100	5	7	34	4	3	4	5	
	9	11"	11"	12	42	41"	5	12	50	100	5	7	34	4	3	4	5	
	10	11"	11"	12	42	41"	5	12	50	100	5	7	34	4	3	4	5	
	11	11"	11"	12	42	41"	5	12	50	100	5	7	34	4	3	4	5	
	12	11"	11"	12	42	41"	5	12	50	100	5	7	34	4	3	4	5	
	10	3	14"	14"	15	52	51"	7	15	62	125	7	9	44	6	5	6	7
		4	14"	14"	15	52	51"	7	15	62	125	7	9	44	6	5	6	7
5		14"	14"	15	52	51"	7	15	62	125	7	9	44	6	5	6	7	
6		14"	14"	15	52	51"	7	15	62	125	7	9	44	6	5	6	7	
7		14"	14"	15	52	51"	7	15	62	125	7	9	44	6	5	6	7	
8		14"	14"	15	52	51"	7	15	62	125	7	9	44	6	5	6	7	
9		14"	14"	15	52	51"	7	15	62	125	7	9	44	6	5	6	7	
10		14"	14"	15	52	51"	7	15	62	125	7	9	44	6	5	6	7	
11		14"	14"	15	52	51"	7	15	62	125	7	9	44	6	5	6	7	
12		14"	14"	15	52	51"	7	15	62	125	7	9	44	6	5	6	7	
12		3	17"	17"	18	62	61"	9	18	72	150	9	11	54	8	7	8	9
		4	17"	17"	18	62	61"	9	18	72	150	9	11	54	8	7	8	9
	5	17"	17"	18	62	61"	9	18	72	150	9	11	54	8	7	8	9	
	6	17"	17"	18	62	61"	9	18	72	150	9	11	54	8	7	8	9	
	7	17"	17"	18	62	61"	9	18	72	150	9	11	54	8	7	8	9	
	8	17"	17"	18	62	61"	9	18	72	150	9	11	54	8	7	8	9	
	9	17"	17"	18	62	61"	9	18	72	150	9	11	54	8	7	8	9	
	10	17"	17"	18	62	61"	9	18	72	150	9	11	54	8	7	8	9	



Slope Height H	Skew Δ			0°			5°			10°			15°			20°		
	F	E	R	F	E	R	F	E	R	F	E	R	F	E	R	F	E	R
A	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
B	F	10	12	13	F	10	12	13	F	10	12	13	F	10	12	13	F	10
C	F	10	12	13	F	10	12	13	F	10	12	13	F	10	12	13	F	10
D	27	31	37	41	47	53	61	67	74	82	90	98	107	116	125	135	145	155
E	84	80	94	110	126	146	164	184	204	224	244	264	284	304	324	344	364	384
F	131	124	136	154	174	194	214	234	254	274	294	314	334	354	374	394	414	434
G	184	180	196	216	236	256	276	296	316	336	356	376	396	416	436	456	476	496
H	241	234	246	264	284	304	324	344	364	384	404	424	444	464	484	504	524	544
I	308	300	316	336	356	376	396	416	436	456	476	496	516	536	556	576	596	616
J	384	376	392	412	432	452	472	492	512	532	552	572	592	612	632	652	672	692
K	474	466	482	502	522	542	562	582	602	622	642	662	682	702	722	742	762	782
L	576	568	584	604	624	644	664	684	704	724	744	764	784	804	824	844	864	884
M	696	688	704	724	744	764	784	804	824	844	864	884	904	924	944	964	984	1004
N	836	828	844	864	884	904	924	944	964	984	1004	1024	1044	1064	1084	1104	1124	1144
O	996	988	1004	1024	1044	1064	1084	1104	1124	1144	1164	1184	1204	1224	1244	1264	1284	1304
P	1176	1168	1184	1204	1224	1244	1264	1284	1304	1324	1344	1364	1384	1404	1424	1444	1464	1484
Q	1384	1376	1392	1412	1432	1452	1472	1492	1512	1532	1552	1572	1592	1612	1632	1652	1672	1692
R	1636	1628	1644	1664	1684	1704	1724	1744	1764	1784	1804	1824	1844	1864	1884	1904	1924	1944

Slope Height H	Skew Δ			0°			5°			10°			15°			20°		
	F	E	R	F	E	R	F	E	R	F	E	R	F	E	R	F	E	R
A	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
B	F	10	12	13	F	10	12	13	F	10	12	13	F	10	12	13	F	10
C	F	10	12	13	F	10	12	13	F	10	12	13	F	10	12	13	F	10
D	27	31	37	41	47	53	61	67	74	82	90	98	107	116	125	135	145	155
E	84	80	94	110	126	146	164	184	204	224	244	264	284	304	324	344	364	384
F	131	124	136	154	174	194	214	234	254	274	294	314	334	354	374	394	414	434
G	184	180	196	216	236	256	276	296	316	336	356	376	396	416	436	456	476	496
H	241	234	246	264	284	304	324	344	364	384	404	424	444	464	484	504	524	544
I	308	300	316	336	356	376	396	416	436	456	476	496	516	536	556	576	596	616
J	384	376	392	412	432	452	472	492	512	532	552	572	592	612	632	652	672	692
K	474	466	482	502	522	542	562	582	602	622	642	662	682	702	722	742	762	782
L	576	568	584	604	624	644	664	684	704	724	744	764	784	804	824	844	864	884
M	696	688	704	724	744	764	784	804	824	844	864	884	904	924	944	964	984	1004
N	836	828	844	864	884	904	924	944	964	984	1004	1024	1044	1064	1084	1104	1124	1144
O	996	988	1004	1024	1044	1064	1084	1104	1124	1144	1164	1184	1204	1224	1244	1264	1284	1304
P	1176	1168	1184	1204	1224	1244	1264	1284	1304	1324	1344	1364	1384	1404	1424	1444	1464	1484
Q	1384	1376	1392	1412	1432	1452	1472	1492	1512	1532	1552	1572	1592	1612	1632	1652	1672	1692
R	1636	1628	1644	1664	1684	1704	1724	1744	1764	1784	1804	1824	1844	1864	1884	1904	1924	1944

6 x 1 Slope

Slope Height H	Skew Δ			0°			5°			10°			15°			20°		
	F	E	R	F	E	R	F	E	R	F	E	R	F	E	R	F	E	R
A	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
B	F	10	12	13	F	10	12	13	F	10	12	13	F	10	12	13	F	10
C	F	10	12	13	F	10	12	13	F	10	12	13	F	10	12	13	F	10
D	27	31	37	41	47	53	61	67	74	82	90	98	107	116	125	135	145	155
E	84	80	94	110	126	146	164	184	204	224	244	264	284	304	324	344	364	384
F	131	124	136	154	174	194	214	234	254	274	294	314	334	354	374	394	414	434
G	184	180	196	216	236	256	276	296	316	336	356	376	396	416	436	456	476	496
H	241	234	246	264	284	304	324	344	364	384	404	424	444	464	484	504	524	544
I	308	300	316	336	356	376	396	416	436	456	476	496	516	536	556	576	596	616
J	384	376	392	412	432	452	472	492	512	532	552	572	592	612	632	652	672	692
K	474	466	482	502	522	542	562	582	602	622	642	662	682	702	722	742	762	782
L	576	568	584	604	624	644	664	684	704	724	744	764	784	804	824	844	864	884
M	696	688	704	724	744	764	784	804	824	844	864	884	904	924	944	964	984	1004
N	836	828	844	864	884	904	924	944	964	984	1004	1024	1044	1064	1084	1104	1124	1144
O	996	988	1004	1024	1044	1064	1084	1104	1124	1144	1164	1184	1204	1224	1244	1264	1284	1304
P	1176	1168	1184	1204	1224	1244	1264	1284	1304	1324	1344	1364	1384	1404	1424	1444	1464	1484
Q	1384	1376	1392	1412	1432	1452	1472	1492	1512	1532	1552	1572	1592	1612	1632	1652	1672	1692
R	1636	1628	1644	1664	1684	1704	1724	1744	1764	1784	1804	1824	1844	1864	1884	1904	1924	1944

SECTION C-C

SECTION D-D

NOTE:

For General Notes, Dimensions, and additional details, see SD 6.09 (1 of 5). For Headwall Quantities see SD 6.09 (1 to 3).

DESIGNED BY: *James Carson*

APPROVED FOR SUBMITTAL: *[Signature]*

DATE: _____ PROJECT NO. _____

LOCATION: _____

SCALE: _____

DATE: _____

NO. _____

SD 6.08 (1 of 5)

NOTE:
For SECTION C-C, see SD 6.01 (2 of 5).

PLAN



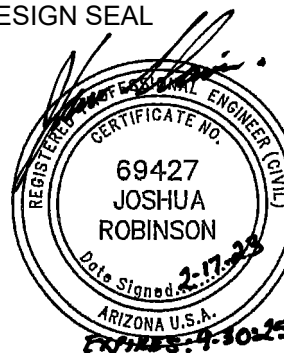
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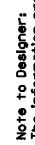
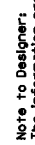
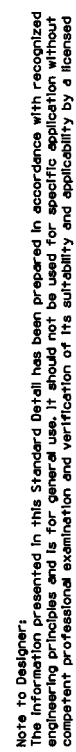
SHORT WING ELEVATION

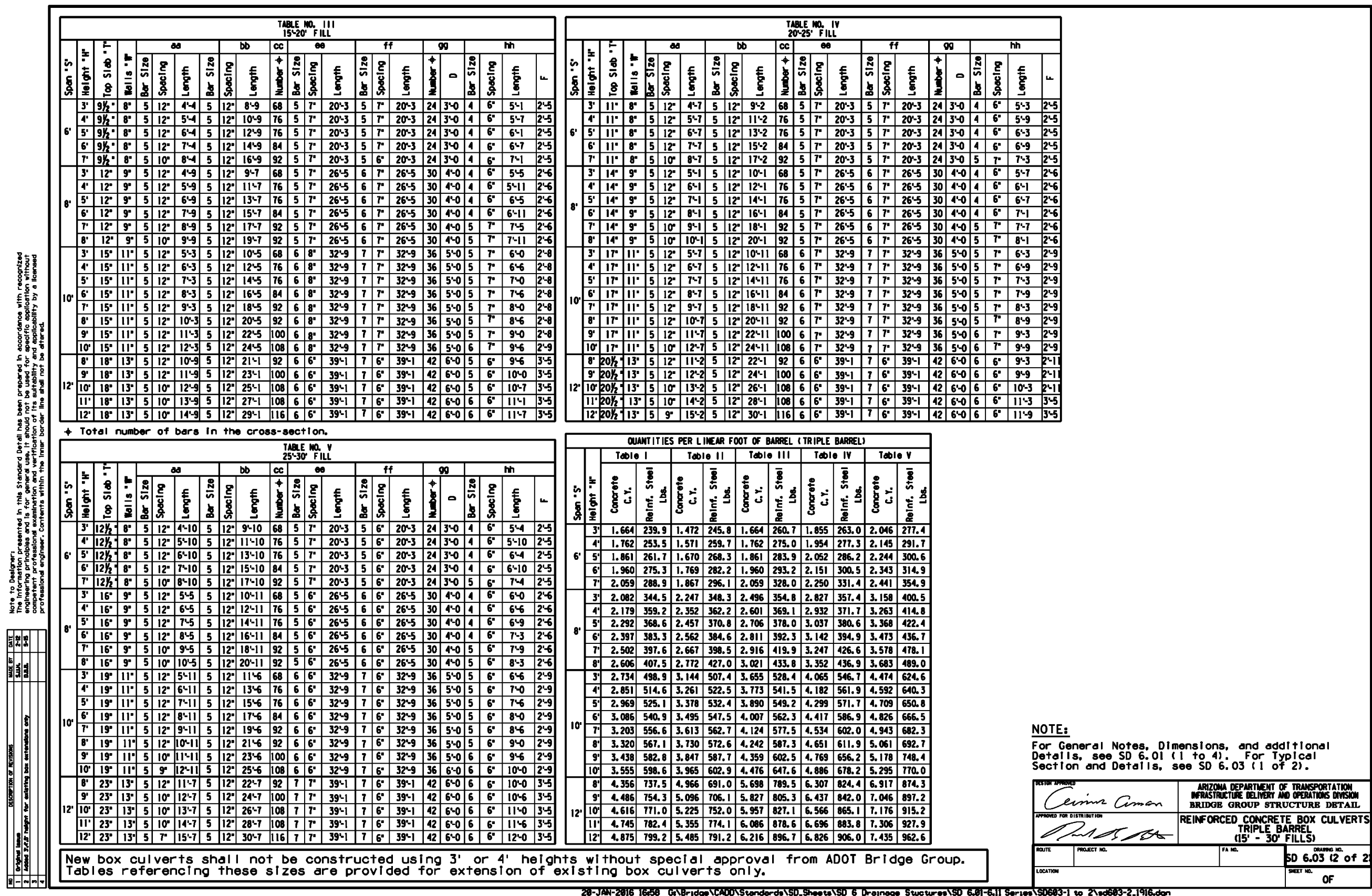
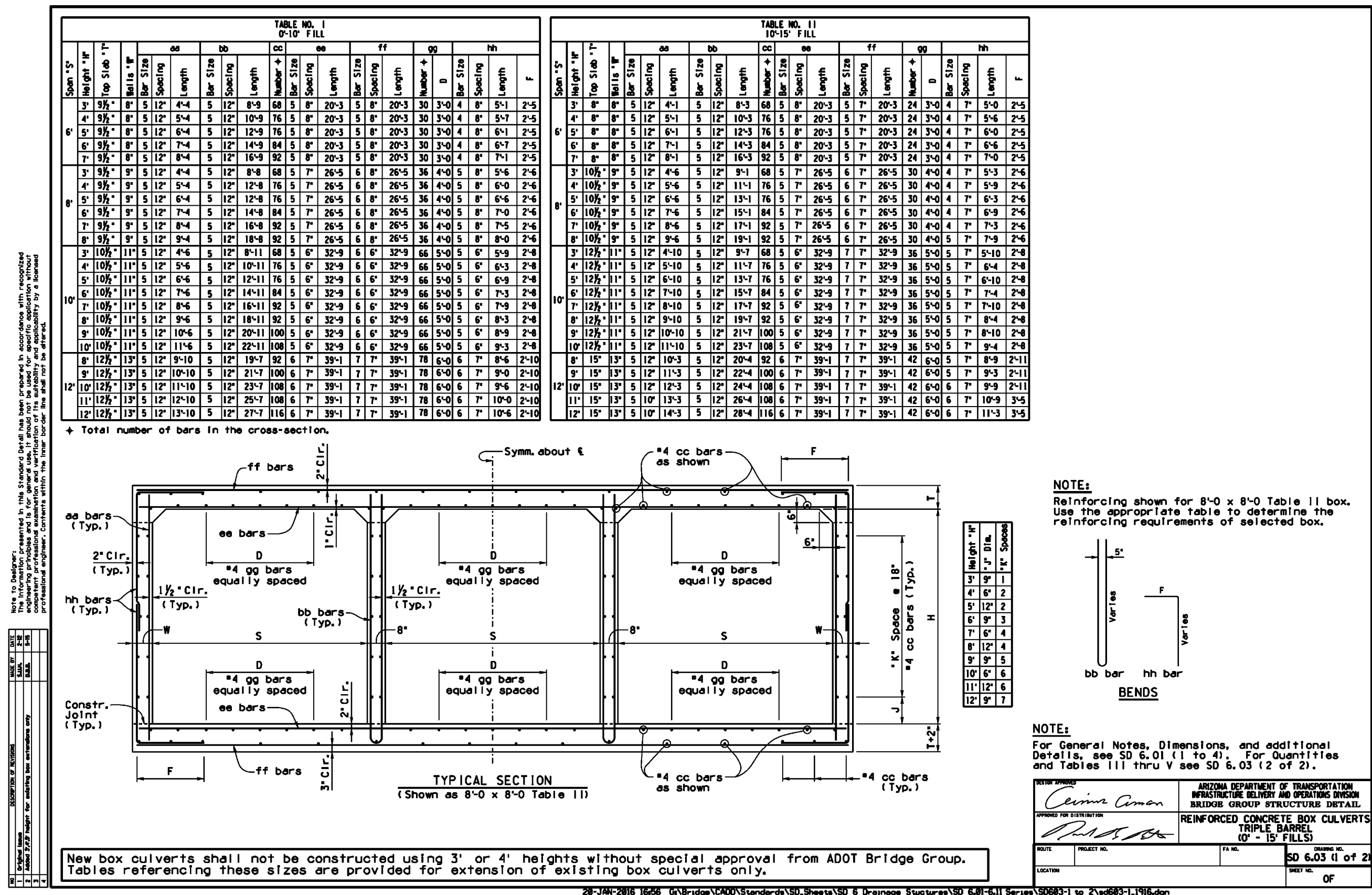
LONG WING ELEVATION

Table: Skew Δ (6)

Skew Δ (6)	6"	6'
7"	50"	50'
10"	75"	75'
15"	125"	125'
20"	160"	160'

<p>Call at least two full working days before you begin excavation.</p> <div style="text-align: center;">  <p>ARIZONA 811 Arizona Blue Stakes, Inc.</p> </div> <p>Dial 8-1-1 or 1-800-STAKE-IT (782-5348) in Maricopa County: (602) 293-1100</p>	
PLAN NAME <div style="text-align: center; font-size: 1.2em; font-weight: bold; padding: 5px;"> FLOREO AT TERAVALIS COLLECTORS - PHASE 1 BOX CULVERT-NOTES & DETAILS </div>	
ENGINEER INFORMATION <div style="text-align: center; padding: 10px;">  HILGARTWILSON </div>	
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL <div style="text-align: center; padding: 10px;">  </div>
ORIGINAL PLAN DATE <div style="text-align: center;">Aug-21</div>	LATEST REVISION DATE <div style="text-align: center;">Feb-23</div>
PROJECT NUMBER <div style="text-align: center;">1175</div>	SHEET NUMBER SHT. <div style="text-align: center; font-size: 1.5em; font-weight: bold;">SD04</div> <div style="text-align: right;">18 OF 20</div>
<div style="display: flex; justify-content: space-between;"> <div> COB PLAN TRACKING # ENG-21-0288 </div> <div> COB PERMIT # ENG-21-0288 </div> </div>	
<div style="text-align: right; font-weight: bold; padding-right: 20px;"> 3RD SUBMITTAL </div>	





PLAN NAME
**FLOREO AT TERAVALIS
COLLECTORS - PHASE 1
BOX CULVERT-NOTES & DETAILS**

ENGINEER INFORMATION

HILGARTWILSON

COB PERMITTING
APPROVED SEAL

COB ENGINEERING
APPROVED SEAL

AS-BUILT SEAL

DESIGN SEAL

ORIGINAL PLAN DATE
Aug-21

LATEST REVISION DATE
Feb-23

PROJECT NUMBER
1175

SHEET NUMBER SHT.
SD06 20 OF 20

SUBMITTAL:
3RD SUBMITTAL

COB PLAN TRACKING #
ENG-21-0288

COB PERMIT #
ENG-21-0288

