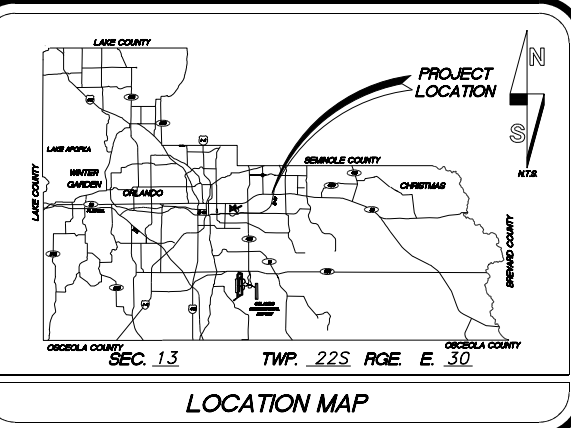




CONSTRUCTION PLANS FOR HARRELL ROAD SIDEWALK IMPROVEMENTS

CONTRACT NO.: Y8-905B
DISTRICT NO: 3 & 5
ORANGE COUNTY, FLORIDA



SOURCE OF BENCHMARK DATUM

SOURCE BENCHMARKS

S-1521-013 - RECOVERED 3.5" O.C. ALUMINUM DISC ON E. SIDE C/L OF CONCRETE DROP INLET AT E. END OF RETENTION POND; 50' +/- W. OF C/L OF RENEE AVE. AND 350' +/- S. OF C/L OF COLONIAL DR/S.R. 50 AND AT S.E. CORNER OF ADDRESS 8600 COLONIAL DRIVE. ELEVATION: 74.404'

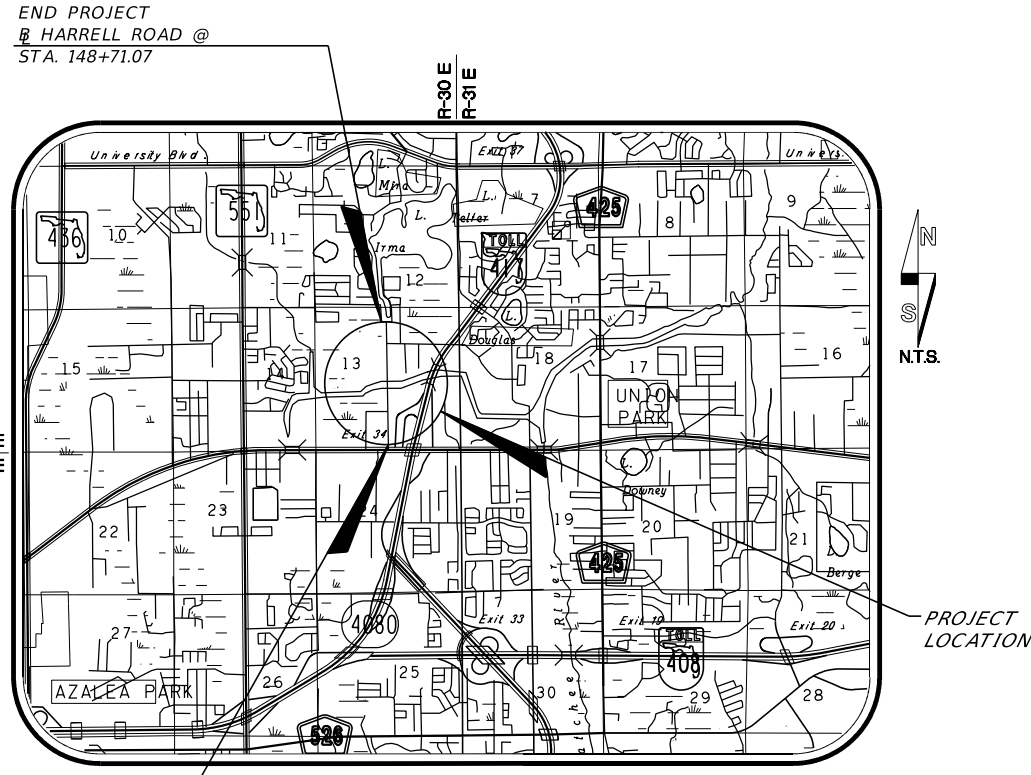
A-1114-002 - RECOVERED SQUARE CUT ON E. SIDE C/L OF 6' x 8' CONCRETE PAD FOR PHONE BOX # CPWL 00; N. AND E. MOST OF 4 PHONE BOXES, 30' +/- W. OF C/L OF HARRELL RD. AND 225' +/- S. OF L.S.U. LANE. ELEVATION: 58.360'

(SOURCE OF BENCHMARK DATUM CONTINUED ON GENERAL NOTES SHEET 2)

ELEVATIONS ARE DERIVED FROM ORANGE COUNTY BENCHMARKS, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

PROJECT LENGTH:	FEET	MILES
ROADWAY:	4,426.5	0.838
BRIDGES:		
TOTAL LENGTH:	4,426.5	0.838

S-13, T-22S, R-30E
S-24, T-22S, R-30E



**BID SUBMITTAL
OCTOBER 3, 2014**

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS AND REVISED INDEX DRAWINGS
AS APPENDED HERIN, AND STANDARD SPECIFICATIONS
FOR ROAD AND BRIDGE CONSTRUCTIONS, AS
AMENDED BY CONTRACT DOCUMENTS

FOR DESIGN STANDARDS CLICK ON THE "DESIGN STANDARDS" LINK AT THE FOLLOWING WEB SITE:
<http://www.dor.state.fl.us/rddesign/>

FOR THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTIONS CLICK ON THE "SPECIFICATIONS" LINK AT THE FOLLOWING WEB SITE:
<http://www.dor.state.fl.us/specificationsoffice/>

TERESA JACOBS, COUNTY MAYOR

BOARD OF COUNTY COMMISSIONERS

S. SCOTT BOYD	DISTRICT 1
FREDERICK C. BRUMMER	DISTRICT 2
PETE CLARKE	DISTRICT 3
JENNIFER THOMPSON	DISTRICT 4
TED EDWARDS	DISTRICT 5
TIFFANY MOORE RUSSELL	DISTRICT 6
MARK MASSARO, P.E.	PUBLIC WORKS DIRECTOR

NOTE

PLANS WERE PREPARED ACCORDING TO AVAILABLE INFORMATION TO ADEQUATELY ADDRESS CONDITIONS AS THEY EXISTED AT THE TIME OF PLANS PREPARATION. NEEDS, CONDITIONS AND OWNERSHIP OF PROPERTIES MAY HAVE CHANGED SINCE PROJECT DESIGN. THE COUNTY'S REPRESENTATIVE WILL ADDRESS CHANGES AND NEEDS WITH THE PROPERTY OWNER OR THEIR REPRESENTATIVES. CONTRACTOR SHALL WORK WITH THE COUNTY'S REPRESENTATIVE IN ADDRESSING AND MEETING NEEDS AND CONDITIONS THAT MAY HAVE CHANGED SINCE PLANS PREPARATION.

CERTIFICATION TO PLANS

I HEREBY CERTIFY THAT THE DESIGN FOR THIS PROJECT AND THE ATTACHED CONSTRUCTION PLANS COMPLY WITH THE REQUIREMENTS OF SECTION 336.045 OF THE FLORIDA STATUTES AND ARE IN SUBSTANTIAL CONFORMANCE WITH THE STANDARDS CONTAINED IN THE EDITION OF THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS" IN EFFECT ON THIS DATE AS ADOPTED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION PURSUANT TO SUBSECTION 336.045(1) OF THE FLORIDA STATUTES.

DATE: _____ ENGINEER: _____

LEGEND

Ⓚ	BASELINE
CCR	CERTIFIED CORNER RECORD
CONC	CONCRETE
COR.	CORNER
E	EAST/EASTING
EL	ELEVATION
EP	EDGE OF PAVEMENT
INV	INVERT (ELEVATION)
IR(C)	IRON ROD (WITH CAP)
IRRIG	IRRIGATION LINE
LT.	LEFT
MES	MITERED END SECTION
N	NORTH/NORTHING
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PIP	POURED-IN-PLACE
POC	POINT ON CURVE
POT	POINT ON TANGENT
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE PIPE
R	RANGE
RCP	REINFORCED CONCRETE PIPE
RT.	RIGHT
R/W	RIGHT-OF-WAY
S	SOUTH
SEC.	SECTION
STA.	STATION
T	TOWNSHIP
TEL	TELEPHONE
UTIL	UTILITY
VVH/TH	TEST HOLE (UTILITY)
W	WEST
°	DEGREES
SHWE	SEASONAL HIGH WATER EL.
- - - - -	TRAFFIC MARKINGS
- - - - -	ASPHALT
- - - - -	ASPHALT C/L
- - - - -	CURB
- - - - -	BARRIER WALL
OE	OVERHEAD POWER LINES
- - - - -	SECTION LINE
- x - - -	FENCE
- - - - -	CONCRETE
- - - - -	RIGHT OF WAY LINE
- - - - -	BRICK WALL
- - - - -	ALUMINUM HAND RAIL
⊙	POWER POLES
⊕	WATER VALVE
⊙	STATION POINT
⊕	FIRE HYDRANT
☼	PALM TREES
☼	OAK TREES
⊕	HEDGES
⊕	SIGNS
⊕	MISCELLANEOUS BOXES
⊕	POWER POLE WITH LAMP
⊕	WATER METER
⊕	BENCHMARK
⊕	MONUMENT
⊕	SANITARY SEWER
P.P.	POWER POLE
CMP	CORRUGATED METAL PIPE
RCP	REINFORCED CONCRETE PIPE
W	WETLANDS

INDEX OF SHEETS

SHEET	DESCRIPTION
1	KEY SHEET
2	GENERAL NOTES
3	SUMMARY OF PAY ITEMS
4-6	TYPICAL SECTIONS
7	OPEN CUT SPECIAL DETAILS
8	SPECIAL DETAILS
9	SUMMARY OF QUANTITIES
10	SUMMARY OF DRAINAGE STRUCTURES
11	SURVEY CONTROL SHEET
12-20	PLAN SHEETS
21-41	CROSS SECTIONS
42-48	DRIVEWAY & SIDE STREET CROSS SECTIONS
49-55	BACK OF SIDEWALK & DITCH PROFILES
56-70	UTILITY ADJUSTMENT SHEETS
71	TRAFFIC CONTROL GENERAL NOTES
72	SOIL SURVEY SHEET

UTILITIES ENCOUNTERED

POWER: DUKE ENERGY DISTRIBUTION (PE)	407-942-9421
CATV/PHONE/FIBER: BRIGHTHOUSE NETWORKS (BHN)	407-532-8509
*CATV: COMCAST CABLE COMMUNICATIONS (CC)	407-849-3610
WATER: ORANGE COUNTY UTILITIES (OCU)	407-254-9718
*SEWER: CITY OF ORLANDO (CO)	407-246-3623
*TMS/FIBER: QWEST COMMUNICATIONS (QC)	303-992-9931
*GAS: TECO	407-420-2678
PHONE/FIBER: AT&T	407-380-0938
*PHONE/FIBER: MCI	407-541-2083
*PHONE/FIBER: CENTURY LINK (CL)	407-814-5344
*TMS/FIBER: ORANGE COUNTY PUBLIC WORKS (OCPW)	407-836-8034
SEWER: ORANGE COUNTY UTILITIES (OCU)	407-254-9718
*WATER: ORLANDO UTILITIES COMMISSION (OUC)	407-236-9651
*POWER/FIBER: TRAFFIC CONTROL DEVICES, INC. (TCD)	386-943-5309

* NO FACILITIES IN PROJECT LIMITS

PREPARED BY:

WBQ INC.
Design & Engineering

201 N. MAGNOLIA AVENUE - SUITE 200 - ORLANDO FL. 32801
PHONE (407) 839-4300 FAX (407) 839-1621

REVISIONS	DATE	BY

SHEET 1
OF 72

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH AND CONFORM TO THE MOST STRINGENT REQUIREMENT OF THE PROJECT SPECIFICATION, THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (FDOT), AND SUPPLEMENTS THERETO, AND ORANGE COUNTY ROAD CONSTRUCTION SPECIFICATIONS.
2. SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FOR USE IN ESTABLISHING DESIGN CRITERIA FOR THE PROJECT. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND IS NOT TO BE CONSTRUED AS PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INQUIRE OF THE ENGINEER IF ADDITIONAL INFORMATION IS AVAILABLE, TO MAKE ARRANGEMENTS TO REVIEW SAME PRIOR TO BIDDING, AND TO MAKE HIS OWN DETERMINATION AS TO ALL SUBSURFACE CONDITIONS.
3. ALL PERSONAL PROPERTY, EXCEPT MAIL BOXES, WITHIN THE LIMITS OF CONSTRUCTION NOT RELOCATED BY THE PROPERTY OWNER SHALL BE REMOVED BY THE CONTRACTOR AS NECESSARY TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE PLANS. MAIL BOXES SHALL BE RELOCATED BY THE CONTRACTOR IN ACCORDANCE WITH F.D.O.T. DESIGN STANDARD 532. PAYMENT WILL BE INCLUDED IN CLEARING AND GRUBBING.
4. THE DISPOSAL OF EXCESS EARTHWORK MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. APPROVALS OF DISPOSAL SITES SHALL BE OBTAINED FROM ORANGE COUNTY PRIOR TO DISPOSAL. ALL EXCESS MATERIAL IS THE PROPERTY OF THE CONTRACTOR.
5. ALL EXISTING TREES WITHIN THE RIGHT-OF-WAY ARE TO REMAIN, UNLESS OTHERWISE DIRECTED.
6. SEED AND MULCH ALL DISTURBED AREAS UNLESS OTHERWISE DIRECTED. SOD IN DISTURBED AREAS SHALL MATCH EXISTING TYPE SOD, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
7. INSTALL A 4" MUCK BLANKET OR TOPSOIL TREATMENT ON ALL PERMANENT GRASS AREAS. COST TO BE INCLUDED IN CONTRACT UNIT PRICE FOR SOD.
8. SOD ALL SLOPES 1:3 OR STEEPER.
9. SAWCUT CONCRETE DRIVEWAYS AS REQUIRED FOR CONSTRUCTION. PAYMENT WILL BE INCLUDED IN ITEM NO. 110-1-I, "CLEARING AND GRUBBING (LS)".
10. ALL PAVEMENT OFFSETS SHOWN ARE TO PROPOSED CENTERLINE OF CONSTRUCTION; ALL RADII AND DIMENSIONS ARE TO PROPOSED EDGE OF PAVEMENT.
11. FOR STABILIZATION AT TURNOUTS AND DRIVEWAY CONNECTIONS SEE STANDARD INDEX No. 515 AND TYPICAL SECTIONS FOR DEPTH AND LBR.
12. DRIVEWAY LOCATIONS AND WIDTHS SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED AS NECESSARY AS DIRECTED BY THE ENGINEER.
13. THE CONTRACTOR SHALL PERFORM HIS WORK IN ACCORDANCE WITH REQUIREMENTS OF THE VARIOUS PERMITS INCLUDED IN THE BID SPECIFICATIONS. PAYMENT IS INCLUDED IN THE BID PRICE FOR SECTION 104; "PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION", EXCLUDING ITEMS SPECIFIED ELSEWHERE. ENVIRONMENTAL CONTROLS SHALL BE USED AT LOCATIONS DESIGNATED IN THE PLANS AND/OR DESIGNATED BY THE ENGINEER.
- 13a. CONTRACTOR TO COORDINATE WITH DUKE ENERGY TO SUPPORT POLE AND PROTECT TRANSFORMER DURING STORM SEWER INSTALLATION.
- 13b. CONTRACTOR SHALL ADJUST EXISTING UTILITIES AS NECESSARY TO INSTALL PROPOSED STORMPIPES.
14. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON AVAILABLE RECORDS AND SURVEYS BUT IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO AND IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATION WITH PROJECT CONSTRUCTION. PRIOR TO ORDERING DRAINAGE STRUCTURES, THE CONTRACTOR SHALL DETERMINE IF DRAINAGE/UTILITY CONFLICTS EXIST. INFORMATION ON CONFLICTS IS TO BE SUBMITTED TO THE ENGINEER AS SOON AS POSSIBLE AFTER DISCOVERY FOR RESOLUTION.
15. PRIOR TO COMMENCEMENT OF WORK CONTRACTOR SHALL CALL SUNSHINE ONE 48 HOURS IN ADVANCE OF PERFORMING ANY UTILITY ADJUSTMENTS OR RELOCATIONS. SUNSHINE ONE PHONE NUMBER IS 1-800-432-4770.
16. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE SHOWN IN THE PLANS. UTILITIES ARE TO BE ADJUSTED BY OTHERS OR AS DIRECTED BY THE ENGINEER.
17. THE CONTRACTOR SHALL NOTIFY ALL GAS UTILITY COMPANIES A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATION AS REQUIRED BY CHAPTER 77-153 OF THE FLORIDA STATUTES.
18. ALL DRAINAGE PIPES SHALL BE STEEL REINFORCED CONCRETE PIPE, CLASS III, UNLESS OTHERWISE NOTED.
19. MEASUREMENT OF DRAINAGE PIPE FOR PAYMENT SHALL BE DETERMINED FROM ACTUAL LENGTHS INSTALLED.
20. ALL MANHOLE COVERS SHALL INCLUDE THE ORANGE COUNTY LOGO AND BE IDENTIFIED AS "ORANGE COUNTY SANITARY", "ORANGE COUNTY STORM", OR "ORANGE COUNTY WATER", AS APPROPRIATE. (SEE DETAIL)
21. ALL INLET/MANHOLE - PIPE JOINTS SHALL BE FILLED WITH NON-SHRINK GROUT, COVERED WITH AN ASPHALT MASTIC COATING, AND WRAPPED WITH A FILTER FABRIC MATERIAL PER SECTION 13.03.03 OF THE ORANGE COUNTY ROAD CONSTRUCTION SPECIFICATIONS. ALL PIPE JOINTS IN THIS PROJECT SHALL BE WRAPPED PER FDOT STANDARD INDEX No. 280 OR AS DIRECTED BY THE ENGINEER COST TO BE INCLUDED IN THE COST OF THE PIPE CULVERT.
22. ALL CURB INLETS, DITCH BOTTOM INLETS, AND MANHOLES SHALL HAVE TRAFFIC BEARING FRAMES AND COVERS OR GRATES MEETING HS-20 LOADING REQUIREMENTS.
23. ALL EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN THE LIMITS OF CONSTRUCTION SHALL REMAIN, UNLESS OTHERWISE SHOWN IN THE PLANS OR DIRECTED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN PAY ITEM 110-1-I.
24. DESIGN CHANGES OF PIPE INVERTS NOT EXCEEDING PLUS OR MINUS ONE FOOT WILL NOT BE CONSIDERED AS A BASIS FOR ADDITIONAL COMPENSATION FOR THE PERTINENT PIPE BID ITEM OR FOR MODIFICATION OF PRECAST STRUCTURES.
25. ALL (P.R.M.'s) IRONS AND MONUMENTS SHOWN ON PLANS, OR FOUND, SHALL BE PRESERVED. THOSE SHOWN IN PROPOSED PAVEMENT SHALL BE PROTECTED WITH A CAST IRON VALVE BOX.
26. ANY U.S.C. AND G.S. MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, ORANGE COUNTY SURVEY SECTION 407-836-7940 AND BOTH SHALL NOTIFY:
STATE GEODETIC ADVISOR
3900 COMMONWEALTH BOULEVARD, SUITE 309,
TALLAHASSEE, FL
850-245-2606
27. PUBLIC LAND CORNERS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED OR DISTURBED, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE COUNTY SURVEYOR, WITHOUT DELAY, BY TELEPHONE 407-836-7940. THE CONTRACTOR SHALL PROVIDE WRITTEN FOLLOW UP CONFIRMATION WITHIN 48 HOURS OF TELEPHONE NOTIFICATION.
28. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO ORANGE COUNTY HIGHWAY CONSTRUCTION DEPARTMENT A SET OF FIELD NOTES VERIFYING THE BENCHMARK ELEVATIONS AND THE REFERENCE POINT TIES SHOWN ON THE TITLE SHEET AND PLAN AND PROFILE SHEETS, AND/OR A SET OF FIELD NOTES FOR ALL ADDITIONAL BENCHMARK AND REFERENCE POINT TIES PROPOSED TO BE USED IN CONSTRUCTING THE PROJECT WITH THEIR LOCATION, DESCRIPTION AND ELEVATION, BASED ON ORANGE COUNTY DATUM. ALL SUBMITTALS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA.
29. WITHIN 21 CALENDAR DAYS AFTER NOTICE TO PROCEED, THE CONTRACTOR SHALL STAKE THE RIGHT-OF-WAY AT 100' INTERVALS AND AT RIGHT-OF-WAY BREAKS WITH STATIONING SHOWN ON THE STAKES. NO INVOICE FOR PAYMENT WILL BE PROCESSED UNTIL THE RIGHT-OF-WAY HAS BEEN STAKED TO THE SATISFACTION OF THE ENGINEER. PAYMENT IS INCLUDED IN THE PRICE BID FOR ITEM NO. 101-1 "MOBILIZATION" (LS).
30. TO MEET ADA REQUIREMENTS, ALL SIDEWALK CONSTRUCTION SHALL COMPLY WITH THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION.
31. FOR PEDESTRIAN CURB CUT RAMPS DETAILS, REFER TO FDOT STANDARD INDEX 304 NOMENCLATURE SHOWN IN THE PLANS REFERS TO THE RAMP TYPES IDENTIFIED IN INDEX 304.
32. THE CONTRACTOR SHALL RELOCATE EXISTING TRAFFIC SIGNS AS REQUIRED DURING CONSTRUCTION. SIGNS, WHICH ARE DAMAGED DURING CONSTRUCTION, SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE COUNTY. THE CONTRACTOR SHALL REMOVE AND STORE EXISTING TRAFFIC SIGNS THAT ARE NOT USED DURING CONSTRUCTION. THE CONTRACTOR SHALL RE-INSTALL THE STORED SIGNS AS SHOWN ON THE SIGNING PLANS OR AS DIRECTED BY THE ENGINEER. SIGNS NOT TO BE RE-INSTALLED SHALL BE DELIVERED TO ORANGE COUNTY'S TRAFFIC SIGN SHOP. COST OF RELOCATION, MAINTENANCE, REMOVAL AND LEFTOVER SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
33. ALL EXCAVATIONS SHALL BE REQUIRED TO CONFORM TO THE PROVISION OF PART IV OF CHAPTER 553.60, F.S., ALSO KNOWN AS THE "TRENCH SAFETY ACT". TO PROTECT EXISTING PAVEMENT, STRUCTURES, FOUNDATIONS, AND CONSTRUCTION PERSONNEL DURING CONSTRUCTION OF THE PROJECT.
34. CONTRACTOR IS TO MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS AND SIDE STREETS AT ALL TIMES AND IS TO NOTIFY PROPERTY OWNERS FIVE DAYS PRIOR TO STARTING CONSTRUCTION.
35. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING PAVEMENT ELEVATIONS OF ALL DRIVEWAYS AND SIDEWALKS TO MATCH THE PROPOSED PAVEMENT TO THE EXISTING.
36. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE CONDITION EXISTING. COST TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.
37. BETWEEN STATIONS 142+00 AND 144+00, THE CONTRACTOR SHALL SOFT DIG FOR ANY WORK ACTIVITIES.
38. VIBRATORY ROLLERS CANNOT BE USED ON THE PROJECT DUE TO VITRIFIED CLAY PIPES (VCP) ALONG THE CORRIDOR.
39. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.

EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR SHALL PERFORM EROSION CONTROL MEASURE IN ACCORDANCE WITH SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED 2013. DETAILS CONTAINED IN THE PLANS, AS DIRECTED BY THE ENGINEER AND BY ORANGE COUNTY.
2. THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN TO BE APPROVED BY THE COUNTY ENGINEER PRIOR TO SCHEDULING THE PRE- CONSTRUCTION MEETING.
3. ALL DISTURBED AREAS SHALL BE SODDED OR SEEDED AND MULCHED AFTER GRADING IS COMPLETE.
4. DURING CONSTRUCTION THE CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO INSURE POLLUTING, SILTING, OR DISTURBING DOES NOT EXCEED THE LIMITS ALLOWED BY THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION TO THE EXISTING WATER BODIES. SUCH MEASURES INCLUDE, BUT ARE NOT LIMITED TO THE CONSTRUCTION OF TEMPORARY EROSION CONTROL STRUCTURES SUCH AS SEDIMENT BASINS, SEDIMENT CHECKS OR SILT BARRIERS. THE MEASURES DELINEATED ABOVE ARE THE MINIMUM REQUIRED; WITH ADDITIONAL CONTROLS TO BE UTILIZED AS NEEDED, DEPENDENT UPON ACTUAL SITE CONDITIONS AND CONSTRUCTION OPERATIONS.
5. IN THE EVENT THAT THE EROSION PREVENTION AND CONTROL DEVICES SHOWN IN THE EROSION CONTROL PLAN PROVE INEFFECTIVE, ALTERNATE METHODS FOR MAINTAINING STATE WATER QUALITY STANDARDS FOR DISCHARGE FROM THE CONSTRUCTION SITE WILL BE REQUIRED. ALL ALTERNATE EROSION PREVENTION AND CONTROL DEVICES MUST BE APPROVED BY THE COUNTY ENGINEER PRIOR TO PLACEMENT.
6. ALL SURFACE WATER DISCHARGE FROM THE CONSTRUCTION SITE, INCLUDING DEWATERING DISCHARGE, SHALL MEET STATE WATER QUALITY STANDARDS PRIOR TO REACHING ANY WATER OF THE STATE INCLUDING WETLANDS.
7. THE EROSION CONTROL MEASURES PER F.D.O.T. DESIGN STANDARD INDEX NO. 104 ARE THE MINIMUM REQUIRED. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DUE TO FIELD CONDITIONS AS DETERMINED BY THE STATE ORANGE COUNTY PROJECT ENGINEER OR THE REGULATORY AGENCIES.

CAUTION:
Chapter 77-153 of the Florida Statutes requires that an excavator notify all gas utilities a minimum of two working days prior to excavating. Maps show only the approximate location of gas mains or service lines. The only safe and proper way to locate gas facilities is by an on-site inspection by TECO PEOPLES GAS. Therefore, excavators are instructed to telephone us at 407-420-6609 two working days before digging in a construction area.

SOURCE OF BENCHMARK DATUM

BENCHMARKS (CONTINUED FROM SHEET 1)

- SITE BM # 1
SET 1" IRON PIPE W/ O.C. TRAVERSE CAP & P.K. NAIL
N: 1539966.123
E: 569648.621
ELEVATION = 66.01'
- SITE BM # 2
SET 1" IRON PIPE W/ O.C. TRAVERSE CAP & P.K. NAIL
N: 1540568.897
E: 569637.583
ELEVATION: 63.57'
- SITE BM #3
SET 1" IRON PIPE W/ O.C. TRAVERSE CAP
N: 1541166.665
E: 569627.467
ELEVATION = 60.23'
- SITE BM #4
SET 5/8" REBAR W/ O.C. TRAVERSE CAP
N: 1542067.715
E: 569611.448
ELEVATION = 60.00'
- SITE BM #5
SET 5/8" REBAR W/ O.C. TRAVERSE CAP
N: 1542623.547
E: 569601.570
ELEVATION = 61.65
- SITE BM #6
SET 5/8" REBAR W/ O.C. TRAVERSE CAP
N: 1543263.451
E: 569588.836
ELEVATION = 59.34

ELEVATIONS ARE DERIVED FROM ORANGE COUNTY BENCHMARKS, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88)

REVISIONS				DEREK C. BURKE, P.E. LICENSE NO. 40898	201 N. Magnolia Ave. Suite 200 Orlando FL 32801 Phone 407.839.4300 Fax 407.839.1621	ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION 4200 SOUTH JOHN YOUNG PARKWAY ORLANDO, FLORIDA 32839 (407) 836-7900	<h1 style="font-size: 2em; margin: 0;">GENERAL NOTES</h1>	SHEET NO. 2
DATE	DESCRIPTION	DATE	DESCRIPTION					

PAY ITEM NO.	ITEM DESCRIPTION	UNITS	QUANTITY
101-1	MOBILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
104-14	PREVENTION CONTROL & ABATEMENT OF EROSION & WATER POLLUTION	LS	1
110-1-1	CLEARING & GRUBBING	LS	1
120-9	EXCAVATION, EMBANKMENT, AND GRADING	LS	1
285-715	ASPHALT BLACK BASE, TYPE B-12.5 (9")	SY	202
327-70-1	MILLING EXISTING ASPHALT PAVEMENT (1")	SY	313
334-1-13A	SUPERPAVE ASPHALTIC CONCRETE (1") (TRAFFIC LEVEL C)	SY	313
334-1-13B	SUPERPAVE ASPHALTIC CONCRETE (3") (TRAFFIC LEVEL C)	SY	202
400-0-11	CONCRETE CLASS NS, GRAVITY WALL	CY	23.0
425-1-521	DRAINAGE INLET (DITCH BOTTOM TYPE C) (<10', P-BOTTOM)	EA	20
425-2-91	MANHOLES, J-8, <10'	EA	1
430-94-1	DESILT PIPE (0-24")	LF	136
430-174-112	STEEL REINFORCED CONCRETE PIPE CULVERT (ROUND)(12")	LF	8
430-174-115	STEEL REINFORCED CONCRETE PIPE CULVERT (ROUND)(15")	LF	30
430-174-118	STEEL REINFORCED CONCRETE PIPE CULVERT (ROUND)(18")	LF	240
430-174-124	STEEL REINFORCED CONCRETE PIPE CULVERT (ROUND)(24")	LF	1,208
430-174-218	STEEL REINFORCED CONCRETE PIPE CULVERT (ELLIPSE)(14"x23")	LF	468
430-982-123	MITERED END SECTION (15") (SD)	EA	3
430-982-125	MITERED END SECTION (18") (SD)	EA	2
430-984-625	MITERED END SECTION (ELLIPSE PIPE) (14" x 23") (SD)	EA	5
515-1-1	PIPE HANDRAIL - GUIDERAIL (STEEL GALVANIZED) (FDOT INDEX 880)	LF	52
520-1-10	CONCRETE CURB AND GUTTER (TYPE F)	LF	99
520-1-10R	CONCRETE CURB AND GUTTER (RIBBON CURB)	LF	295
522-1	CONCRETE SIDEWALK, 4" THICK	SY	1,807
522-2	CONCRETE SIDEWALK, 6" THICK	SY	319
524-1-1	CONCRETE DITCH PAVEMENT (3")	SY	23
527-2	DETECTABLE WARNINGS	SF	160
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	LF	28
570-1-2	PERFORAMNCE TURF (SOD - BAHIA OR MATCH EXISTING)	SY	5,936
700-1-11	SINGLE POST SIGN (F&I) (< 12 SF)	AS	5
711-11-123	THERMOPLASTIC PAVEMENT MARKINGS (12") (WHITE)	LF	614
711-11-125	THERMOPLASTIC PAVEMENT MARKINGS (24") (WHITE)	LF	420
900-1	AS-BUILT PLANS	LS	1
900-2	INDEMNIFICATION	LS	1

PAY ITEMS NOTES

- 102-1 INCLUDES THE COST OF ALL ITEMS NECESSARY FOR TRAFFIC CONTROL THAT ARE NOT SPECIFICALLY INCLUDED IN THE ROADWAY SUMMARY OF PAY ITEMS, I.E. SIGNS, BARRICADES, FLAGMAN, ETC. IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS AND PROCEDURES, MUTCD & DESIGN STANDARD 600 SERIES. THE CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS TO RESIDENCES AND BUSINESSES AT ALL TIMES.
- 104-14 INCLUDES THE COST OF ALL ITEMS REQUIRED FOR EROSION CONTROL INCLUDING BUT NOT LIMITED TO SYNTHETIC BALES, TURBIDITY BARRIERS, SILT FENCES, AND TEMPORARY GRASSING AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER, NOT AN FDOT PAY ITEM NUMBER.
- 110-1-1 INCLUDES TREES TRIMMED & REMOVED ALONG R/W LINE AS WELL AS REMOVAL OF PIPES AND ANY CONCRETE STRUCTURES. INCLUDES ALL CONCRETE DRIVEWAYS, LANDSCAPING AND IRRIGATION NEEDED TO BE REPLACED AS NECESSARY. IF REMOVED FOR CONSTRUCTION, MATCH EXISTING. UTILITY POLE SHORING SHALL BE USED AND EXISTING UTILITIES SHALL BE ADJUSTED AND MAINTAINED AS NECESSARY TO AVOID STORMPIPE CONFLICTS.
- 400-0-11 INCLUDES THE COST OF REINFORING STEEL, JOINTS, AND SEALS.
- 430-174-XXX INCLUDES THE COST OF CONCRETE COLLARS PER FDOT INDEX 280. INCLUDES THE COST OF PAVEMENT REPLACEMENT AFTER INSTALLATION OF PIPE. PAVEMENT TO MATCH EXISTING.
- 520-1-10 INCLUDES THE COST OF TYPE "B" STABILIZATION.
- 522-1, 527-2 INCLUDES THE COST OF CURB RAMPS AND DETECTABLE WARNINGS PER FDOT INDEX 304.
- 550-10-210 INCLUDES THE COST OF POSTS REQUIRED TO TIE INTO EXISTING FENCE.
- 570-1-2 INCLUDES THE COST OF SOD (MATCH EXISTING), PEGGING THE SOD, FERTILIZER AND WATER AS REQUIRED FOR THE ESTABLISHMENT OF PERMANENT SODDING. ALL SLOPES 1:3 OR STEEPER SHALL BE PEGGED AND SOD. INCLUDES THE COST OF MOWING AND LITTER REMOVAL FROM R/W TO R/W UNTIL FINAL PROJECT ACCEPTANCE BY THE COUNTY. INCLUDES COST OF 4" MUCK BLANKET AND TOPSOIL TREATMENT.

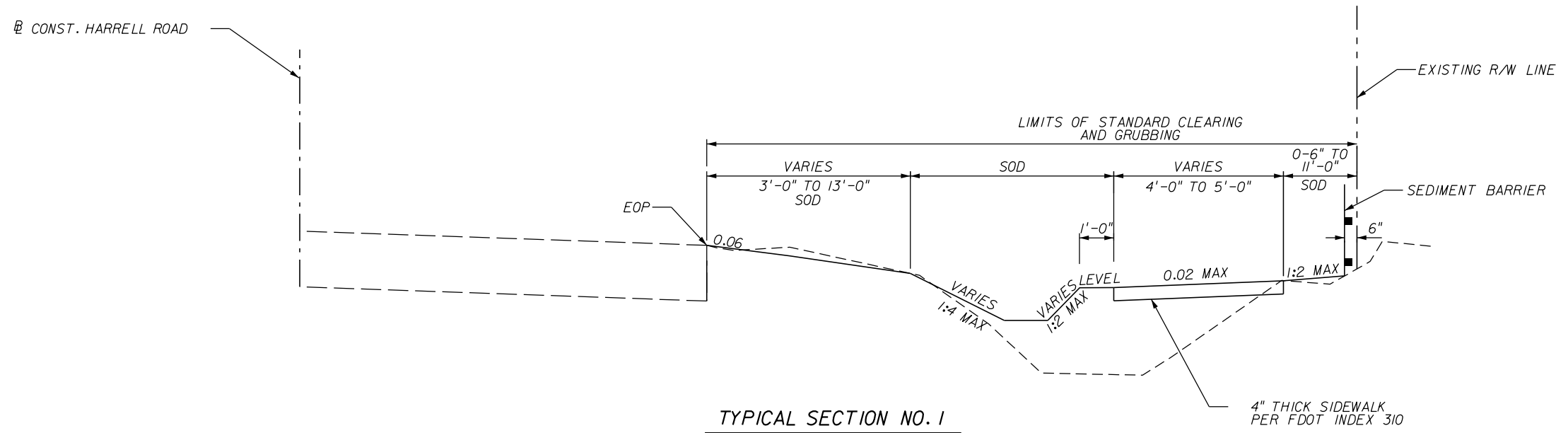
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898

 201 N. Magnolia Ave. Suite 200
 Orlando FL 32801
 Phone 407.839.4300 Fax 407.839.1621
 CERTIFICATE OF AUTHORIZATION NO. 6796

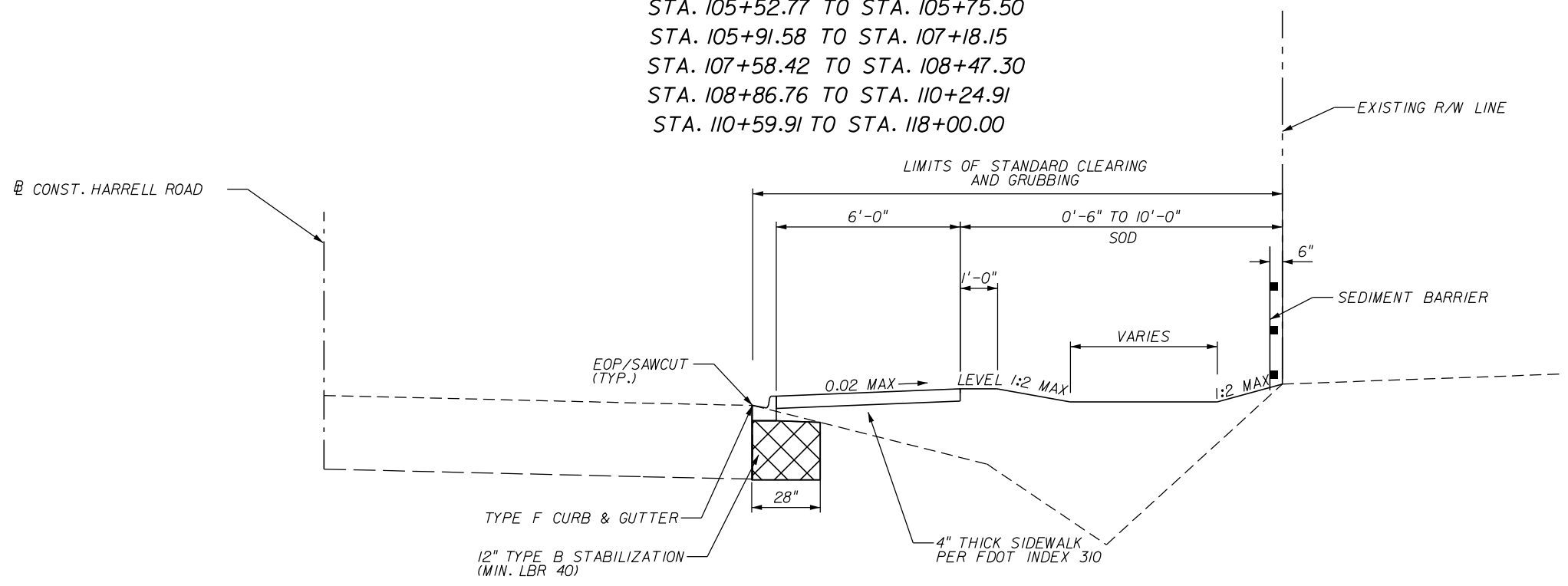
ORANGE COUNTY GOVERNMENT
ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

SUMMARY OF PAY ITEMS



TYPICAL SECTION NO. 1
HARRELL ROAD

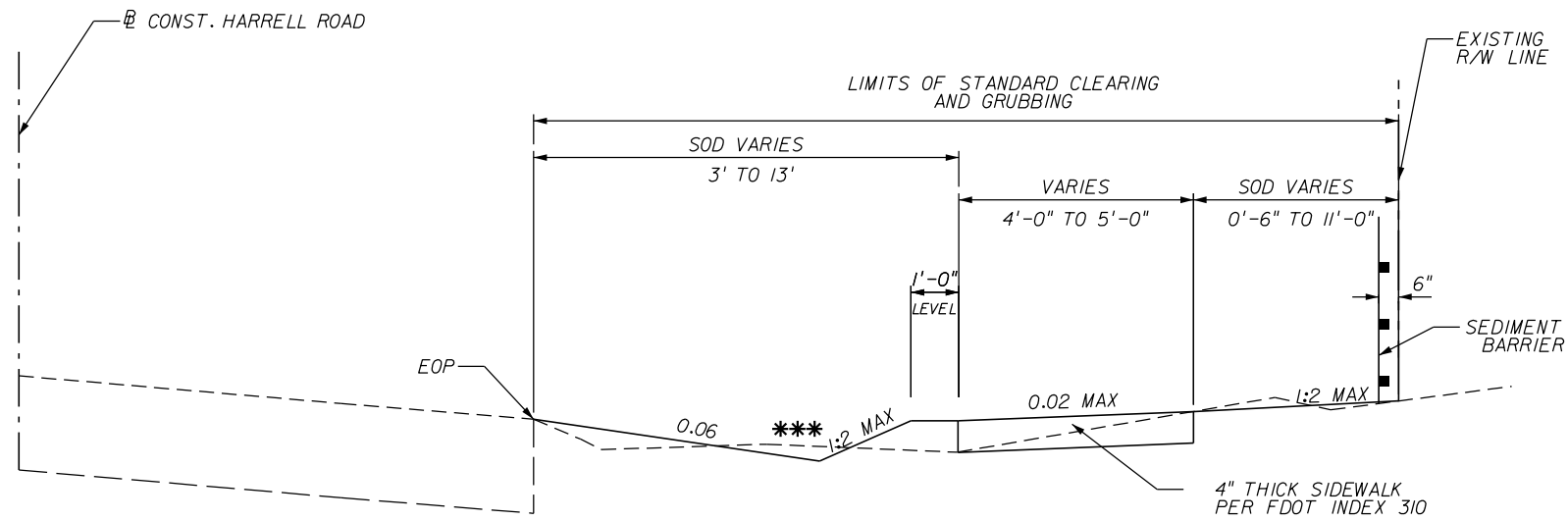
STA. 104+44.57 TO STA. 104+95.73
 STA. 105+11.71 TO STA. 105+36.79
 STA. 105+52.77 TO STA. 105+75.50
 STA. 105+91.58 TO STA. 107+18.15
 STA. 107+58.42 TO STA. 108+47.30
 STA. 108+86.76 TO STA. 110+24.91
 STA. 110+59.91 TO STA. 118+00.00



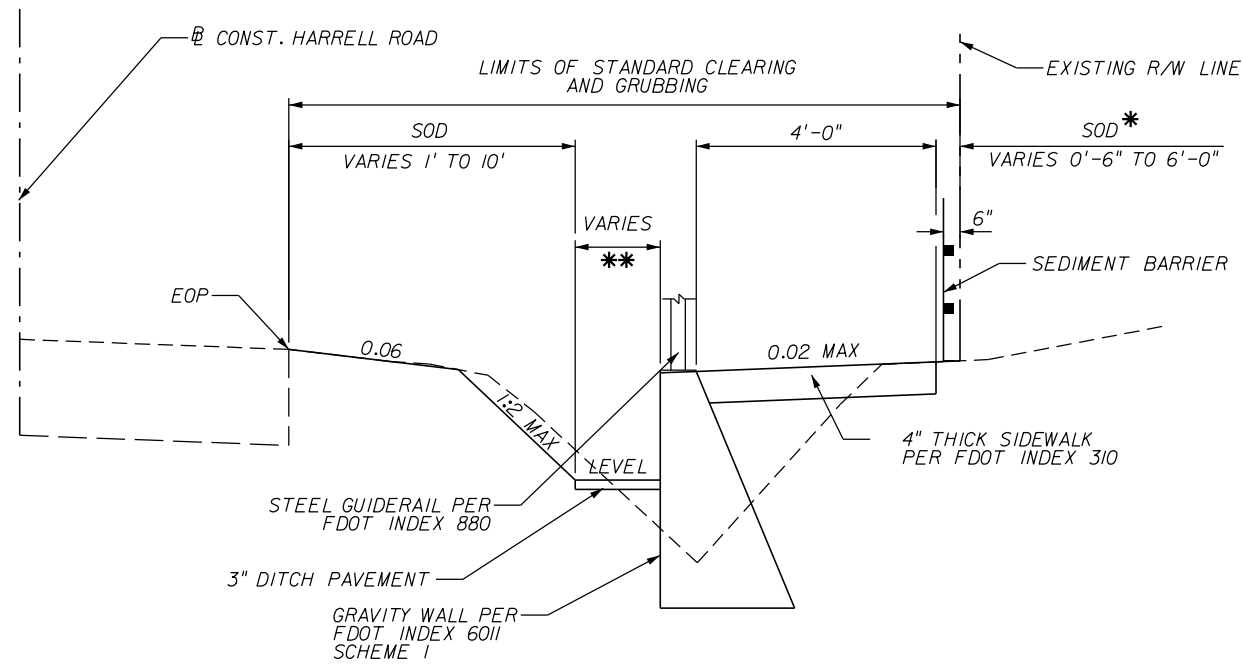
TYPICAL SECTION NO. 2
HARRELL ROAD

STA. 118+06.00 TO STA. 118+55.07

REVISIONS				DEREK C. BURKE, P.E. LICENSE NO. 40898	 201 N. Magnolia Ave. Suite 200 Orlando FL 32801 Phone 407.839.4300 Fax 407.839.1621 CERTIFICATE OF AUTHORIZATION NO. 6796	 ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION 4200 SOUTH JOHN YOUNG PARKWAY ORLANDO, FLORIDA 32839 (407) 836-7900	TYPICAL SECTIONS	SHEET NO. 4
DATE	DESCRIPTION	DATE	DESCRIPTION					



TYPICAL SECTION NO. 3
HARRELL ROAD
 STA. 127+00.33 TO STA. 131+90.51
 STA. 132+00.72 TO STA. 138+75.97
 STA. 138+89.29 TO STA. 139+79.95
 STA. 140+64.77 TO STA. 141+06.99



TYPICAL SECTION NO. 4
HARRELL ROAD
 STA. 141+06.99 TO STA. 141+40.76

* 1' LEVEL REQUIRED FOR SOD WHERE RIGHT OF WAY PERMITS
 ** WIDTH VARIES, SEE CROSS SECTIONS
 *** SEE CROSS SECTIONS FOR DITCH ELEVATIONS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

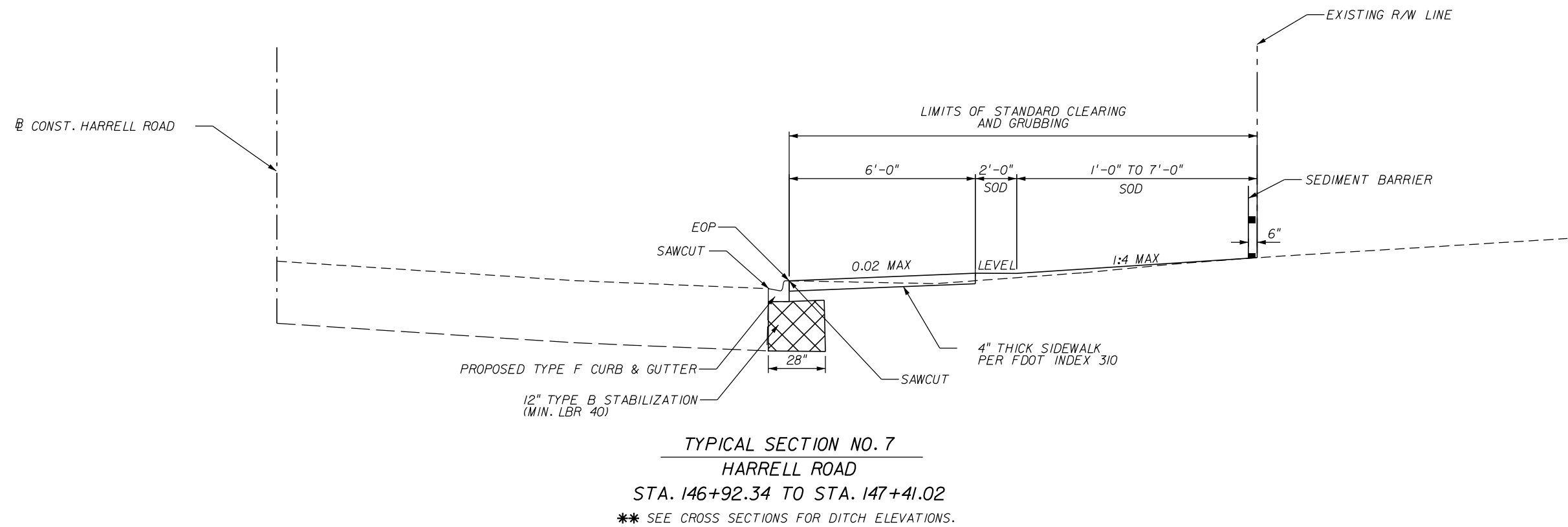
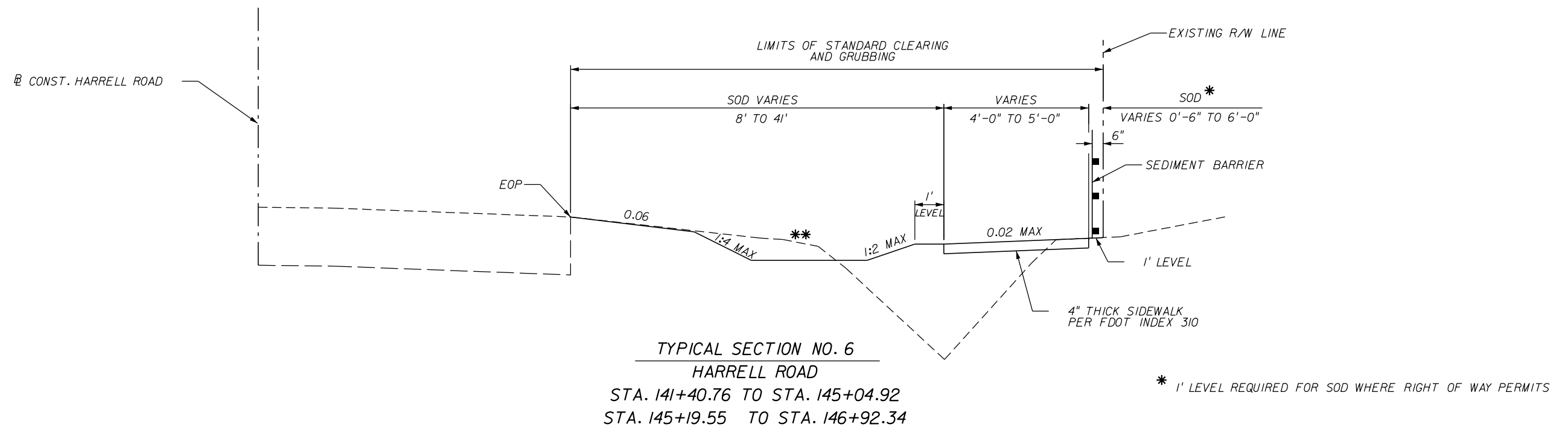
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TYPICAL SECTIONS

SHEET NO.
 5



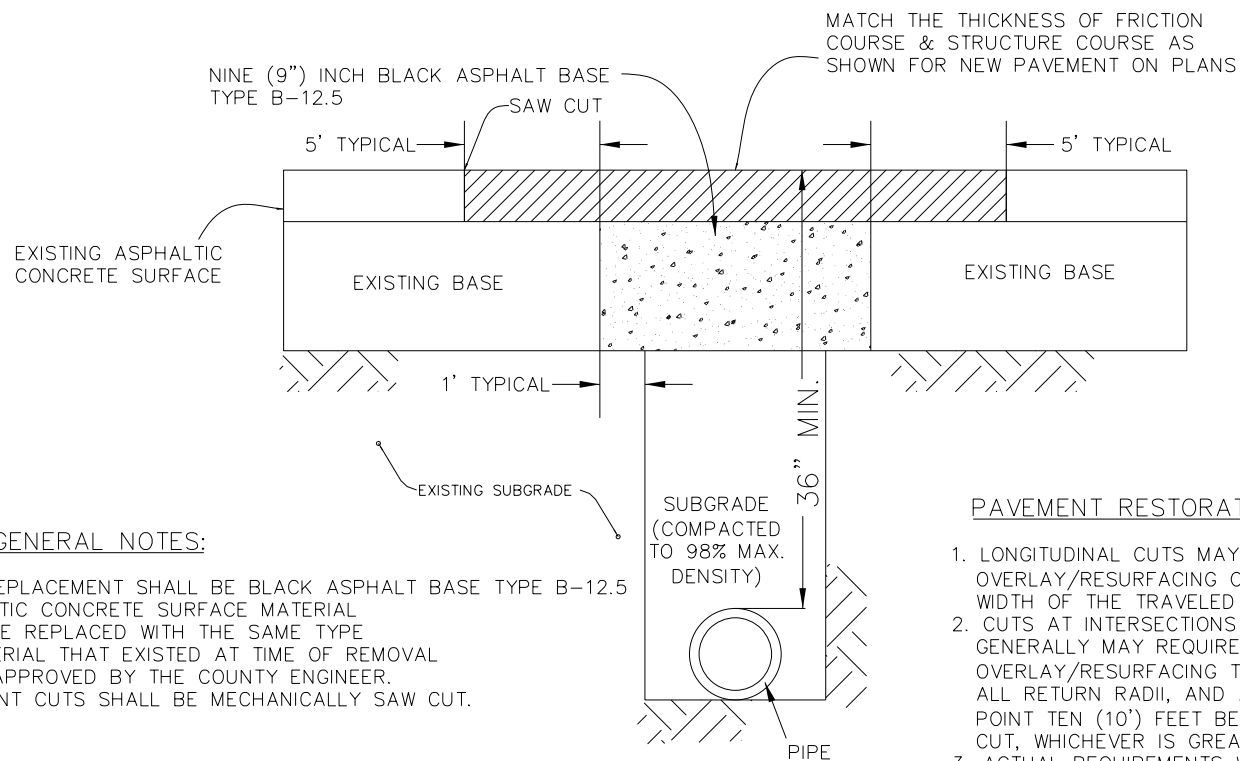
REVISIONS				DEREK C. BURKE, P.E. LICENSE NO. 40898 201 N. Magnolia Ave. Suite 200 Orlando FL 32801 Phone 407.839.4300 Fax 407.839.1621 CERTIFICATE OF AUTHORIZATION NO. 6796	 ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION 4200 SOUTH JOHN YOUNG PARKWAY ORLANDO, FLORIDA 32839 (407) 836-7900 estewart	TYPICAL SECTIONS	SHEET NO. 6
DATE	DESCRIPTION	DATE	DESCRIPTION				

BLACK ASPHALT BASE
TYPE B-12.5
REPLACEMENT

HOT PATCH

NOTE:

SUB-GRADE CUT TO BE COMPACTED TO 98% MAX. DENSITY AS DETERMINED BY AASHTO T - 180.
CUT TO BE REPLACED WITH AN EIGHT (8") INCH 3000 PSI HIGH EARLY CONCRETE TO TOP OF EXISTING BASE.
CUT AREA TO BE PLATED OR PROTECTED ON DAY OF POUR. EXISTING SURFACE TO BE SAW CUT
TO AN AREA FIVE (5') FEET, BEYOND THE BASE CUT.

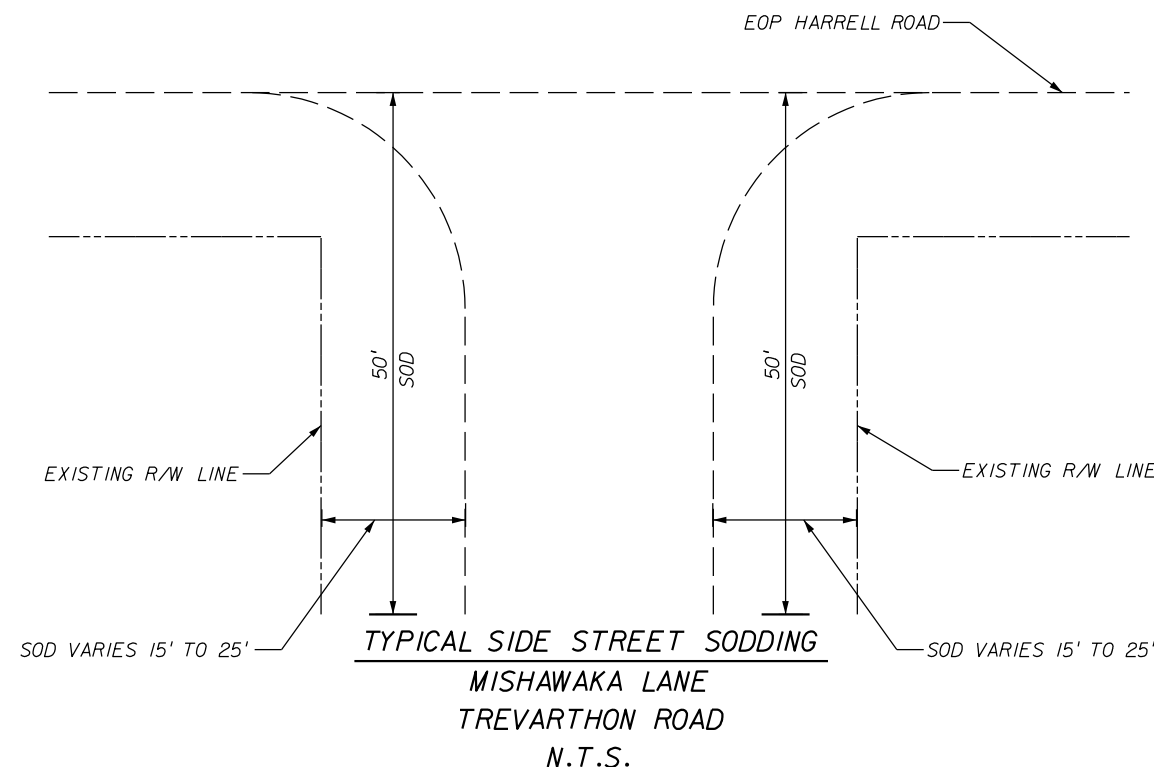


GENERAL NOTES:

1. BASE REPLACEMENT SHALL BE BLACK ASPHALT BASE TYPE B-12.5
2. ASPHALTIC CONCRETE SURFACE MATERIAL SHALL BE REPLACED WITH THE SAME TYPE OF MATERIAL THAT EXISTED AT TIME OF REMOVAL OR AS APPROVED BY THE COUNTY ENGINEER.
3. ALL JOINT CUTS SHALL BE MECHANICALLY SAW CUT.

PAVEMENT RESTORATION:

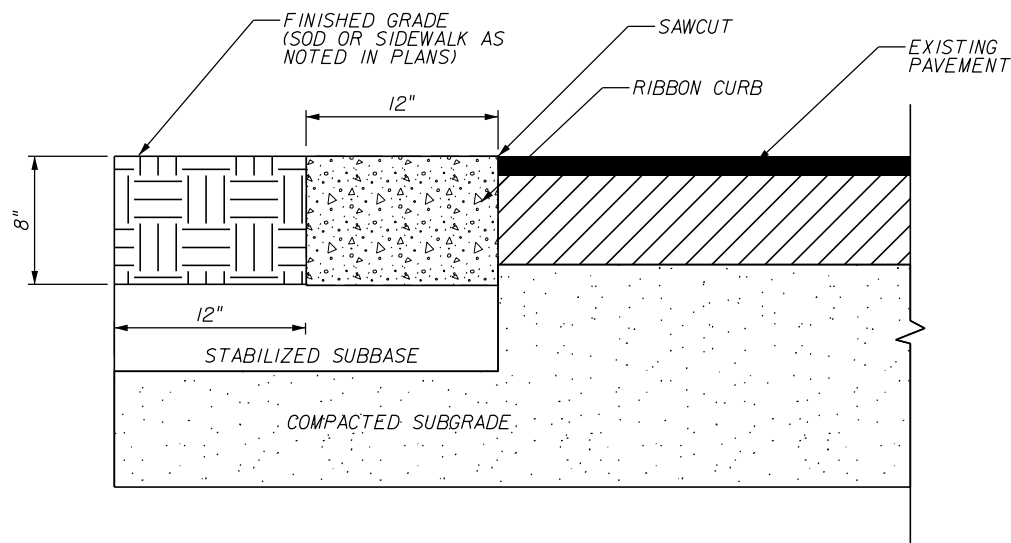
1. LONGITUDINAL CUTS MAY REQUIRE OVERLAY/RESURFACING OF THE COMPLETE WIDTH OF THE TRAVELED WAY.
2. CUTS AT INTERSECTIONS OF STREETS GENERALLY MAY REQUIRE A COMPLETE OVERLAY/RESURFACING TO THE END OF ALL RETURN RADII, AND ALSO TO A POINT TEN (10') FEET BEYOND THE CUT, WHICHEVER IS GREATER.
3. ACTUAL REQUIREMENTS WILL BE AS STATED ON THE APPROVED PERMIT OR AS DIRECTED BY INSPECTION.



SIDE STREETS ARE TO BE SODDED 50 FT FROM THE EOP OF HARRELL ROAD AND FROM THE EDGE OF PAVEMENT TO THE RIGHT OF WAY.

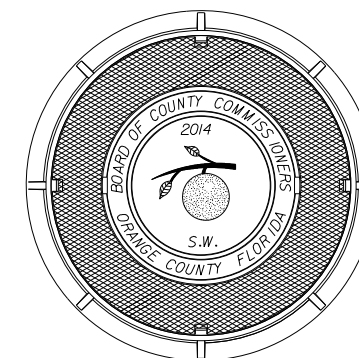
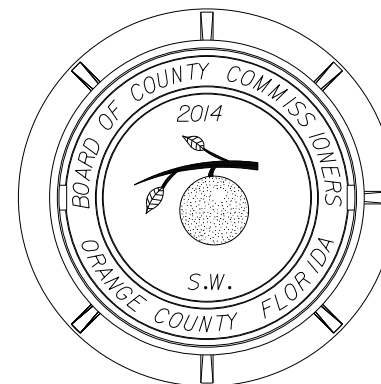
STANDARD ROADWAY OPENCUT CROSS SECTION DETAIL

FINAL RESTORATION - TYPICAL OF MAJOR OPEN CUTS



RIBBON CURB DETAIL

N.T.S.



STANDARD MANHOLE COVER

N.T.S.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898

WBQ INC.

201 N. Magnolia Ave.
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Orlando FL 32801
Phone 407.839.4300
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CERTIFICATE OF AUTHORIZATION NO. 6796



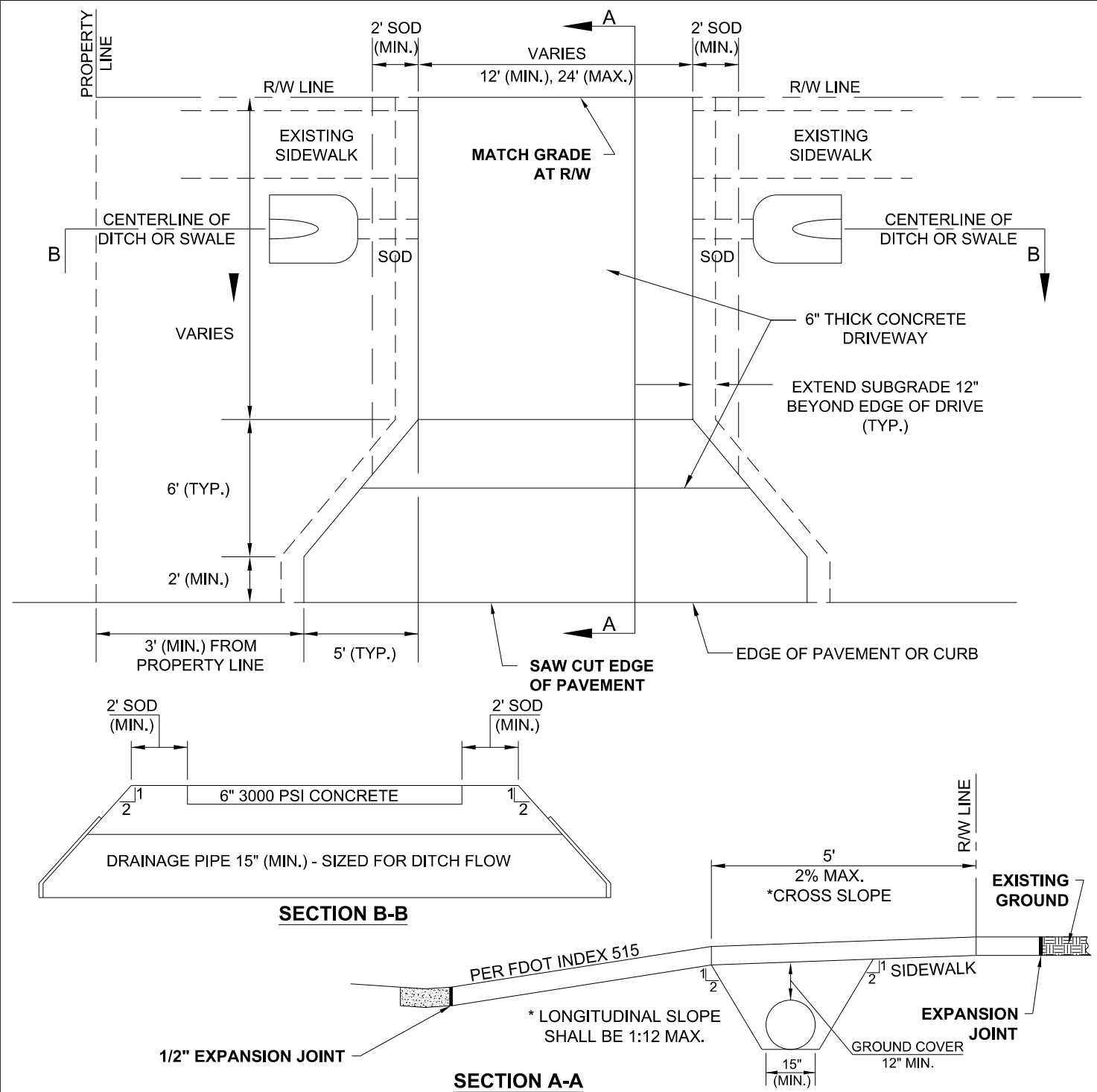
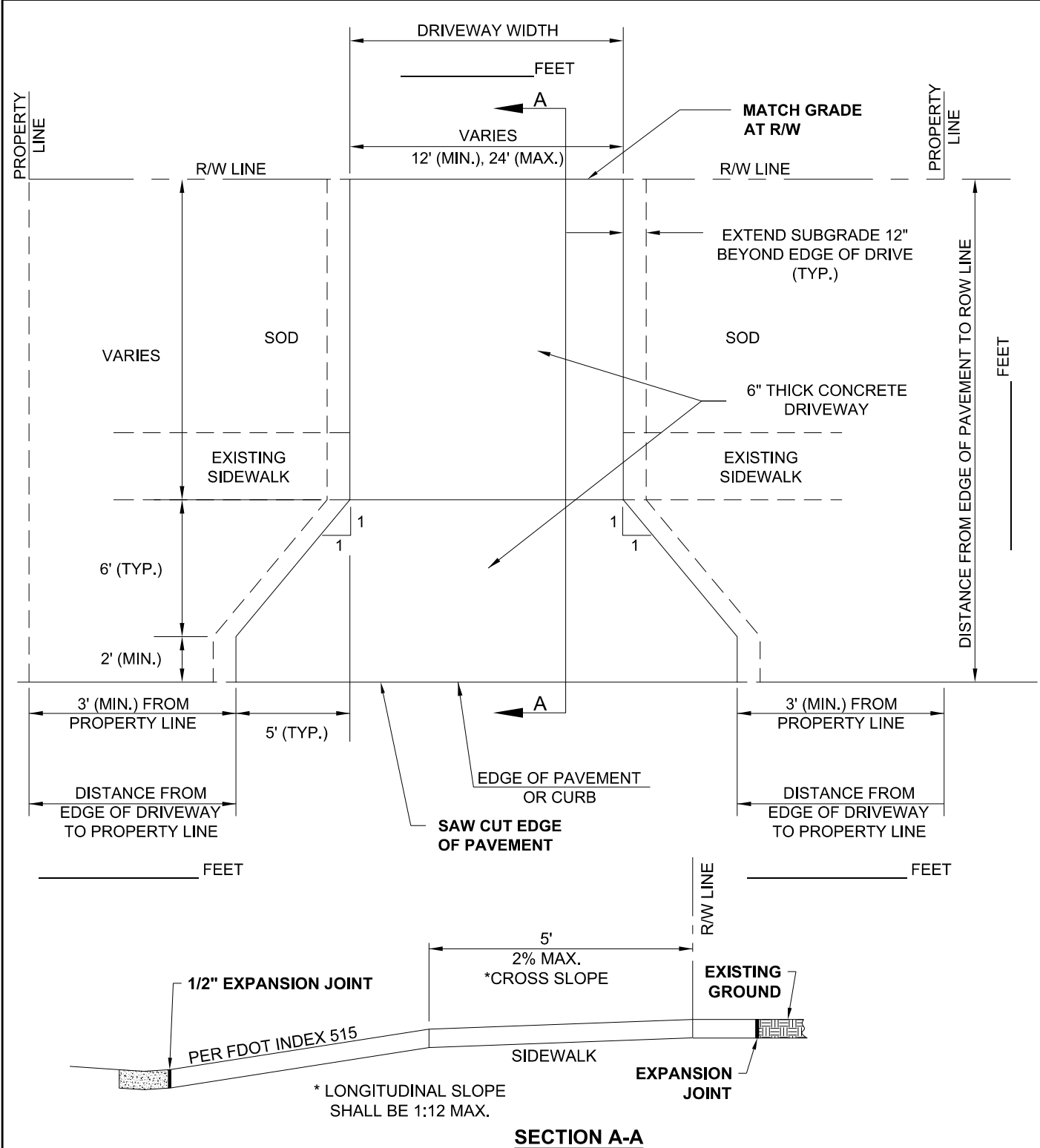
ORANGE COUNTY
DEPARTMENT OF PUBLIC WORKS

ENGINEERING DIVISION
4200 SOUTH JOHN YOUNG PARKWAY
ORLANDO, FLORIDA 32839
(407) 836-7900

**OPEN CUT & SPECIAL
DETAILS**

SHEET NO.

7



- NOTES:**
1. RESTORE RIGHT OF WAY TO EQUAL OR BETTER CONDITION.
 2. 3000 PSI. CONCRETE WITH EXPANSION AND CONTRACTION JOINTS EVERY 10 FEET
 3. SAW CUT EDGE OF PAVEMENT.
 4. NO DRIVEWAYS ALLOWED AT INTERSECTION CURB RETURN.
 5. ALL DRIVEWAYS ON COLLECTOR ROADS AND HIGHER MUST CONFORM TO FDOT DESIGN STANDARDS, LATEST EDITION (INDEX 515).
 6. FOR NON - RESIDENTIAL DRIVEWAYS REFERENCE APPLICABLE FDOT STANDARDS, LATEST EDITION.

- NOTES:**
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 3. SAW CUT EDGE OF PAVEMENT.
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 6. FOR NON - RESIDENTIAL DRIVEWAYS REFERENCE APPLICABLE FDOT STANDARDS, LATEST EDITION.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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WBQ INC.
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ORANGE COUNTY
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

SPECIAL DETAILS

SHEET NO.

8

SUMMARY OF PERFORMANCE TURF-SOD

LOCATION STA. TO STA.	SIDE	P			F			FIELD BOOK REFERENCE
		L	W	SY	L	W	SY	
104+44.57 TO 104+95.73	RT	51.2	12.0	68.3				
105+11.71 TO 105+36.79	RT	25.1	13.0	36.3				
105+52.77 TO 105+75.50	RT	22.7	14.0	35.3				
105+91.58 TO 107+18.15	RT	126.9	14.0	197.4				
107+58.42 TO 108+47.30	RT	88.9	14.0	138.3				
108+86.76 TO 110+24.91	RT	138.2	14.0	215.0				
110+59.91 TO 118+00.00	RT	740.1	14.0	1151.3				
118+00.00 TO 118+55.07	RT	55.1	10.0	61.2				
127+00.33 TO 131+90.51	RT	490.2	13.5	735.3				
132+00.72 TO 138+75.97	RT	675.3	13.5	1013.0				
138+89.29 TO 139+38.67	RT	49.4	13.0	71.4				
139+38.67 TO 139+68.32	RT	98.3	12.5	136.5				
139+68.32 TO 139+79.95	RT	11.6	13.0	16.8				
139+79.95 TO 140+03.56	RT	23.6	11.0	28.8				
140+63.91 TO 140+83.69	RT	19.8	12.0	26.4				
140+83.69 TO 141+06.99	RT	23.3	13.0	33.7				
141+06.99 TO 141+40.76	RT	33.8	14.0	52.6				
141+40.76 TO 145+04.92	RT	364.2	13.5	546.3				
145+19.55 TO 146+98.32	RT	178.8	31.0	615.9				
146+98.32 TO 147+66.63	RT	68.3	7.0	53.1				
DRAINAGE STRUCTURES	RT			147.0				
SIDE STREETS	LT/RT	200.0	25.0	555.6				
			TOTAL:	5,936				

**SUMMARY OF VALVE BOX ADJUSTMENTS
FOR INFORMATIONAL PURPOSES ONLY**

STATION	EA		REMARKS
	P	F	
SANITARY SEWER			ADJUSTED BY UTILITY OWNER
109+71	1		ADJUSTED BY UTILITY OWNER
119+56	1		ADJUSTED BY UTILITY OWNER
119+58	1		ADJUSTED BY UTILITY OWNER
134+78	1		ADJUSTED BY UTILITY OWNER
142+78	1		ADJUSTED BY UTILITY OWNER
143+03	1		ADJUSTED BY UTILITY OWNER
143+33	1		ADJUSTED BY UTILITY OWNER
WATER LINE			ADJUSTED BY UTILITY OWNER
144+63	1		ADJUSTED BY UTILITY OWNER
TOTAL	8		

SUMMARY OF DITCH PAVEMENT

STA. TO STA.	SY		REMARKS
	P	F	
140+64.77 TO 140+82.93	8		
141+06.99 TO 141+40.76	15		
TOTAL	23		

SUMMARY OF DESILTING

STA. TO STA.	LF		REMARKS
	P	F	
139+96.56 TO 139+97.38	42.0		15" PIPE
140+16.86 TO 140+58.68	42.0		15" PIPE
145+39.27 TO 145+39.34	52.0		18" PIPE
TOTAL	136.0		

SUMMARY OF DETECTABLE WARNING

STATION	SF		REMARKS
	P	F	
107+11.54 TO 107+66.38	44		
108+48.52 TO 108+85.63	30		
118+34.27 TO 119+33.15	18		
126+25.16 TO 127+09.21	22		
140+15.32 TO 140+59.69	46		
TOTAL	160		

SUMMARY OF PAVEMENT MARKINGS (12" THERMOPLASTIC)

STATION	LF/SF		REMARKS
	P	F	
107+11.54 TO 107+66.38	91 LF		12" WHITE
108+48.52 TO 108+85.63	83 LF		12" WHITE
118+34.27 TO 119+33.15	176 LF		12" WHITE
126+25.16 TO 127+09.21	144 LF		12" WHITE
140+15.32 TO 140+59.69	120 LF		12" WHITE
TOTAL	614 LF		

SUMMARY OF PAVEMENT MARKINGS (24" THERMOPLASTIC)

STATION	LF/SF		REMARKS
	P	F	
107+11.54 TO 107+66.38	55 LF		24" WHITE
108+48.84 TO 108+85.37	57 LF		24" WHITE
118+46.10 TO 119+24.52	121 LF		24" WHITE
126+24.90 TO 127+08.09	108 LF		24" WHITE
140+03.40 TO 140+73.48	79 LF		24" WHITE
TOTAL	420 LF		


SUMMARY OF SIGNS

STATION	EACH		REMARKS
	P	F	
107+56	1		< 12 SF
108+87	1		< 12 SF
119+26	1		< 12 SF
126+96	1		< 12 SF
140+58	1		< 12 SF
TOTAL	5		

SUMMARY OF FENCING

LOCATION STA. TO STA.	SIDE	LENGTH (FT)		REMARKS	FIELD BOOK REFERENCE
		P	F		
113+76.10 TO 113+89.91	RT	14.0		TYPE B, 6.0'	
117+44.72 TO 117+58.78	RT	14.0		TYPE B, 6.0'	
TOTAL		28.0			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898
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 Design & Engineering Fax 407.839.1621
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ORANGE COUNTY
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

SUMMARY OF QUANTITIES

SHEET
NO.
9

QUANTITY	STR. NO.	BASELINE	STATION	SIDE	DESCRIPTION	BARRELS	STORM PIPE				DBI	MANHOLE	SIDE DRAIN MITERED END SECTION			SODDING	REMARKS					
							ROUND				ELLIPSE	C	J-8	15"	18"	14" x 23"		SY				
							12"	15"	18"	24"	14" x 23"	<10'	<10'									
P	S-1	CONST. HARRELL RD.	104+92.05	RT.	Inlet, Pipe	1	8		32			1				3	Connect to Existing 12" Pipe w/ Collar					
F																						
P	S-2	CONST. HARRELL RD.	105+27.02	RT.	Inlet, Pipe	1			35			1				3						
F																						
P	S-3	CONST. HARRELL RD.	105+64.46	RT.	Inlet, Pipe	1			108			1				3						
F																						
P	S-4	CONST. HARRELL RD.	106+75.00	RT.	Inlet, Pipe	1			40			1				3						
F																						
P	S-5	CONST. HARRELL RD.	107+16.09	RT.	Inlet, Pipe	1			48			1				3						
F																						
P	S-6	CONST. HARRELL RD.	107+18.03	RT.	Mitered End Section, Pipe	1			10					1		9						
F																						
P	S-7	CONST. HARRELL RD.	107+65.10	RT.	Inlet, Pipe	1			42			1				3						
F																						
P	S-8	CONST. HARRELL RD.	107+61.71	RT.	Mitered End Section, Pipe	1			15					1		9						
F																						
P	S-9	CONST. HARRELL RD.	108+08.64	RT.	Inlet, Pipe	1		15	140			1				3	Connect to Existing 15" Pipe w/ Collar					
F																						
P	S-10	CONST. HARRELL RD.	109+50.00	RT.	Inlet, Pipe	1			198			1				3						
F																						
P	S-11	CONST. HARRELL RD.	111+50.00	RT.	Inlet, Pipe	1			148			1				3						
F																						
P	S-12	CONST. HARRELL RD.	113+00.00	RT.	Inlet, Pipe	1			83			1				3						
F																						
P	S-13	CONST. HARRELL RD.	113+84.66	RT.	Inlet, Pipe	1		10	114			1				3	Connect to Existing 12" Pipe w/ Collar					
F																						
P	S-14	CONST. HARRELL RD.	115+00.00	RT.	Inlet, Pipe	1			198			1				3						
F																						
P	S-15	CONST. HARRELL RD.	117+00.00	RT.	Inlet, Pipe	1			50			1				3						
F																						
P	S-16	CONST. HARRELL RD.	117+52.00	RT.	Inlet, Pipe	1		5	74			1				3	Connect to Existing 15" Pipe w/ Collar					
F																						
P	S-17	CONST. HARRELL RD.	118+27.88	RT.	Inlet, Pipe	1			32			1				3						
F																						
P	S-17A	CONST. HARRELL RD.	118+62.35	RT.	Manhole	1			81				1			3						
F																						
P	S-18	CONST. HARRELL RD.	119+46.10	RT.	Inlet	1						1				3						
F																						
P	S-18A	CONST. HARRELL RD.	139+60.23	RT.	Inlet, Pipe	1				23		1				3						
F																						
P	S-18B	CONST. HARRELL RD.	139+83.82	RT.	Mitered End Section	1								1		3						
F																						
P	S-19	CONST. HARRELL RD.	139+97.38	RT.	Mitered End Section	1							1			9	Slope 1:2					
F																						
P	S-20	CONST. HARRELL RD.	140+16.53	RT.	Mitered End Section	1							1			9						
F																						
P	S-20A	CONST. HARRELL RD.	140+59.24	RT.	Mitered End Section	1							1			9						
F																						
P	S-21	CONST. HARRELL RD.	140+76.42	RT.	Mitered End Section, Pipe	1				27				1		9						
F																						
P	S-22	CONST. HARRELL RD.	141+09.46	RT.	Mitered End Section	1								1		9						
F																						
P	S-23	CONST. HARRELL RD.	141+39.09	RT.	Mitered End Section, Pipe	1				219				1		9						
F																						
P	S-25	CONST. HARRELL RD.	143+60.00	RT.	Inlet, Pipe	1				127		1				3						
F																						
P	S-26	CONST. HARRELL RD.	144+85.43	RT.	Inlet, Pipe	1				53		1				3						
F																						
P	S-27	CONST. HARRELL RD.	145+39.01	RT.	Inlet, Pipe	1				19		1				3						
F																						
P	S-28	CONST. HARRELL RD.	145+58.95	RT.	Mitered End Section	1								1		9						
F																						
GRAND TOTALS						SHEET QUANTITY																
						FINAL QUANTITY						8	30	240	1208	468	20	1	3	2	5	147

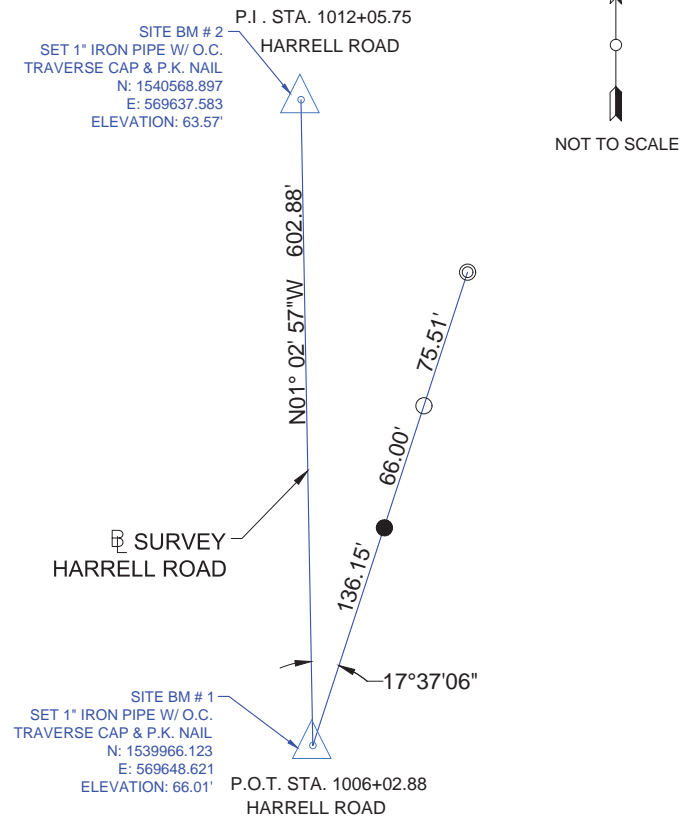
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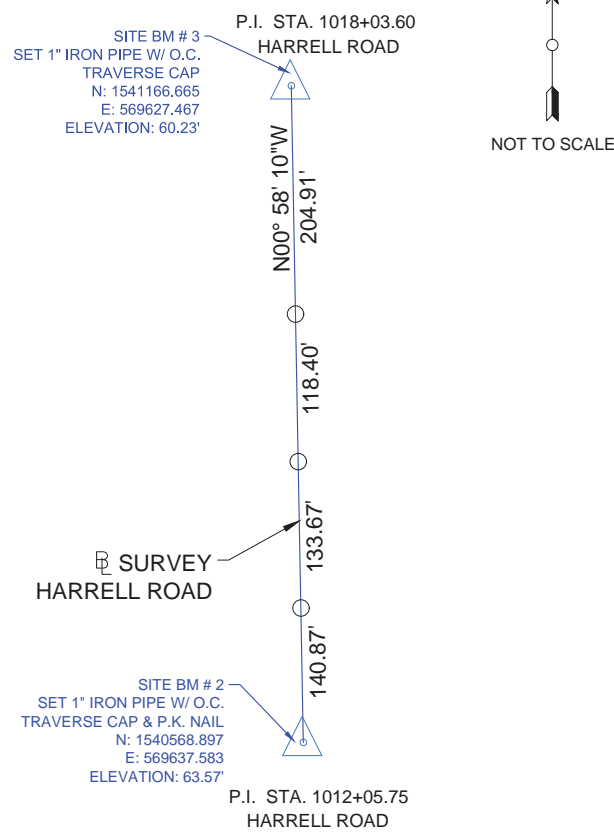
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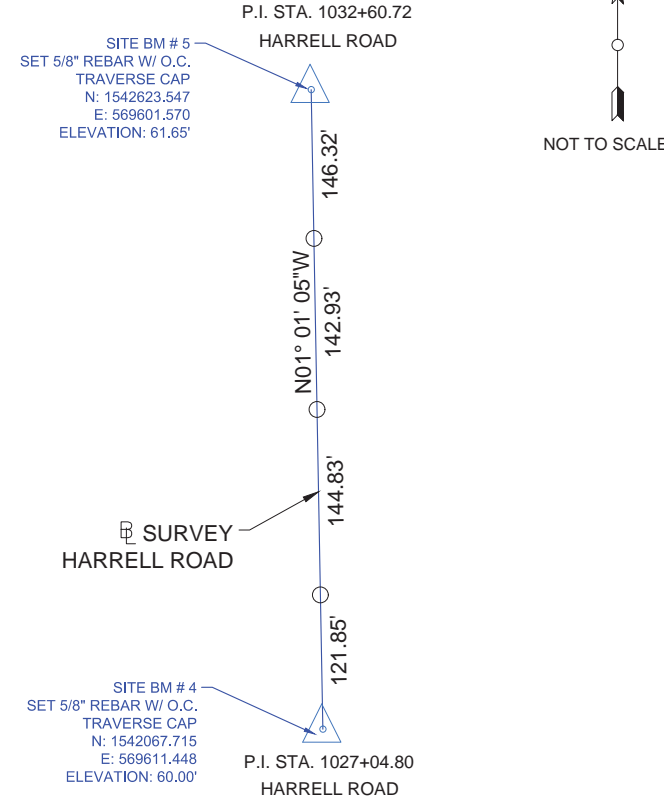
SUMMARY OF DRAINAGE STRUCTURES



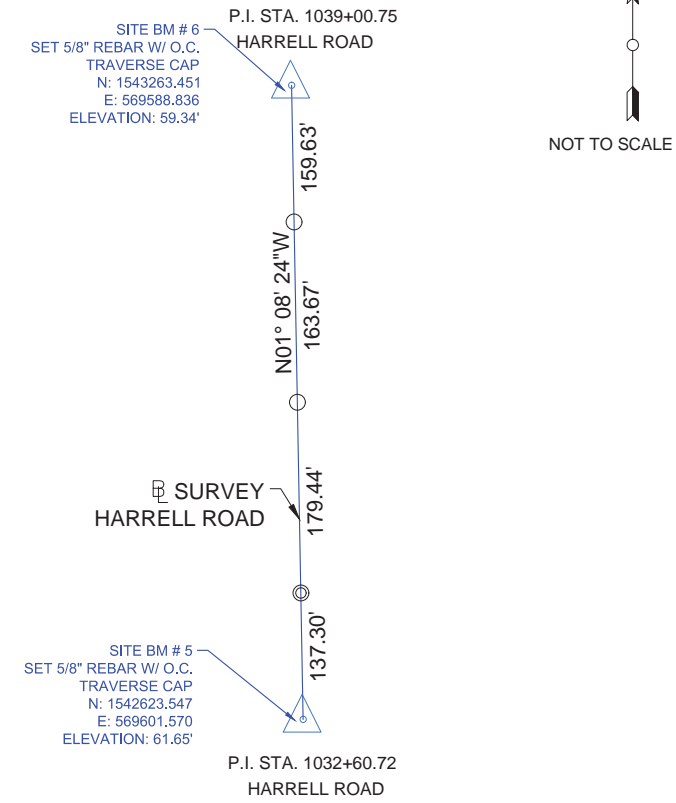
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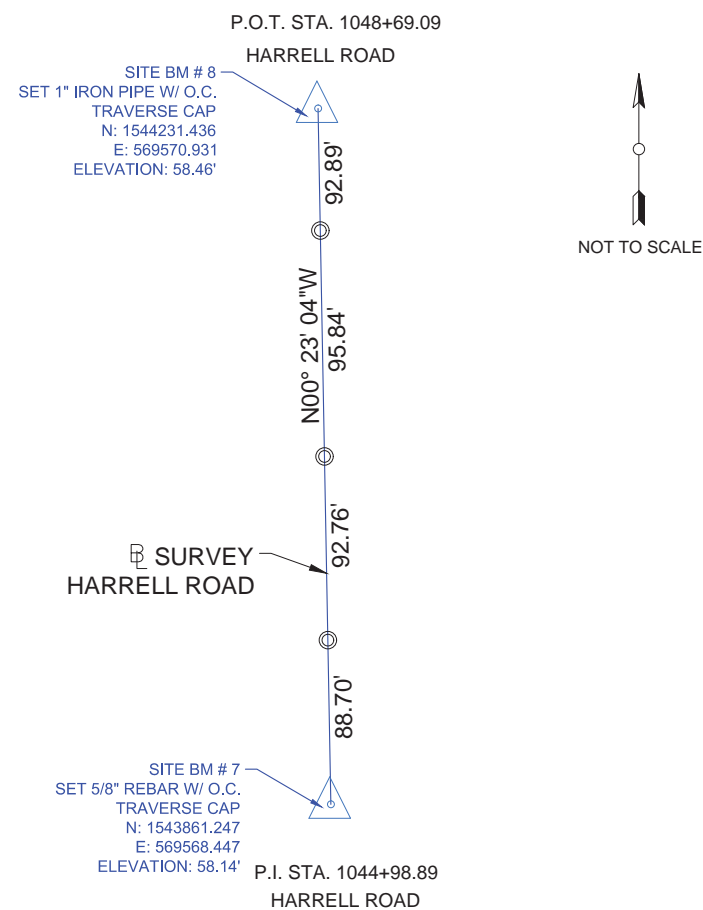
NOT TO SCALE



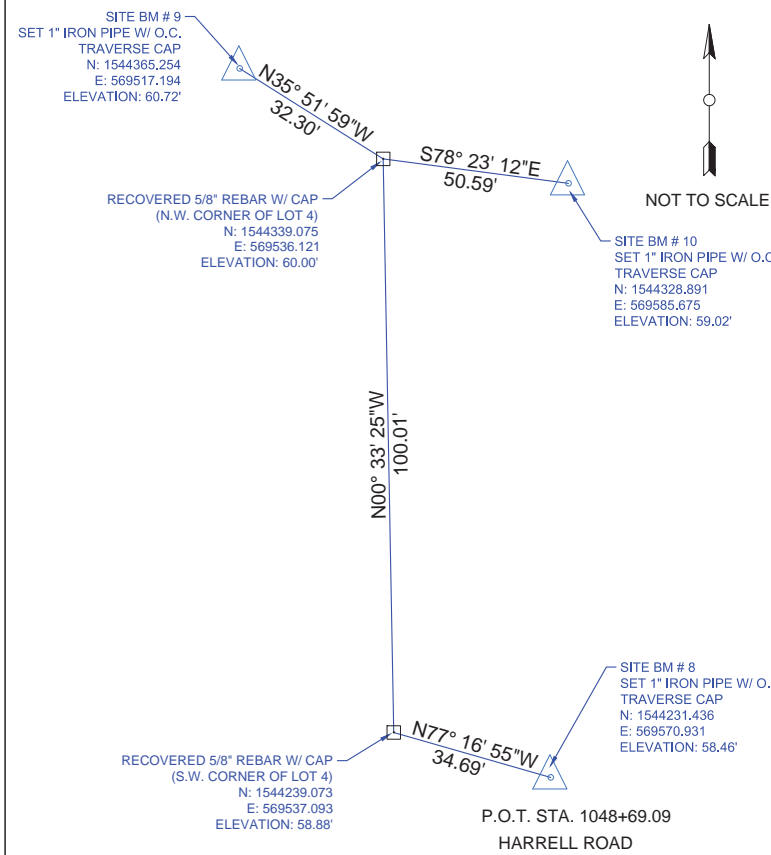
NOT TO SCALE



NOT TO SCALE



NOT TO SCALE



NOT TO SCALE

CONSTRUCTION BASELINE CONTROL TABLE			
Station	Northing	Easting	Point Set
104+00.00	1539763.650	569667.519	SET NAIL & DISC
111+00.00	1540463.490	569655.381	SET NAIL & DISC
118+00.00	1541163.398	569643.262	SET NAIL & DISC
123+00.00	1541663.245	569634.563	SET CHISELED X CUT
126+00.00	1541963.200	569629.386	SET NAIL & DISC
133+00.00	1542663.159	569617.253	SET NAIL & DISC
140+00.00	1543363.029	569605.092	SET NAIL & DISC
143+83.72	1543746.696	569598.480	SET NAIL & DISC
145+29.32	1543891.218	569582.574	SET NAIL & DISC
147+29.75	1544090.203	569561.370	SET NAIL & DISC
148+71.07	1544231.507	569559.859	SET 1" I.P. & O.C. CAP

SURVEYOR'S NOTE

1. ALL BEARINGS HERON ARE RELATIVE TO THE NAD83 STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE (0901), AND RELATIVE TO THE FOLLOWING PUBLISHED HORIZONTAL CONTROL POINTS:

CERTIFIED CORNER RECORD # 71693
N: 1544741.3276 E: 566930.0664

CERTIFIED CORNER RECORD # 71717
N: 1536765.5664 E: 572359.4052

CERTIFIED CORNER RECORD # 76962
N: 1547325.8342 E: 577501.3519

2. ALL ELEVATIONS SHOWN HEREON ARE IN 88 DATUM AND REFERENCED TO THE FOLLOWING BENCHMARKS:

S-1521-013 - RECOVERED 3.5" O.C. ALUMINUM DISC ON E. SIDE C/L OF CONCRETE DROP INLET AT E. END OF RETENTION POND; 50' +/- W. OF C/L OF RENEE AVE. AND 350' +/- S. OF C/L OF COLONIAL DR/S.R. 50 AND AT S.E. CORNER OF ADDRESS 8600 COLONIAL DRIVE. ELEVATION: 74.404'

A-1114-002 - RECOVERED SQUARE CUT ON E. SIDE C/L OF 6' x 8' CONCRETE PAD FOR PHONE BOX # CPWL 00; N. AND E. MOST OF 4 PHONE BOXES, 30' +/- W. OF C/L OF HARRELL RD. AND 225' +/- S. OF L.S.U. LANE. ELEVATION: 58.360'

- ⊙ = SET P.K. NAIL & O.C. DISC
- = SET 5/8" REBAR W/ O.C. CAP
- = SET MAG NAIL W/ O.C. DISC

REVISIONS

DATE	BY	DESCRIPTION
10/24/12	MA	BENCHMARK S-1521-013 CHANGED TO S-1521-013
6/7/13	ICW	ADDED CONTROL FOR ADDITIONAL TOPO
7/16/13	ICW	ADDED CONSTRUCTION BASELINE SET CONTROL TABLE
9/10/14	ICW	UPDATED CONSTRUCTION BASELINE SET CONTROL TABLE

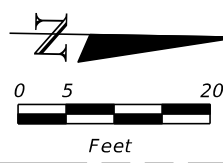
ORANGE COUNTY PUBLIC WORKS
ENGINEERING DIVISION
4200 SOUTH JOHN YOUNG PARKWAY
ORLANDO, FLORIDA 32839-9205
(407) 836-7908



SURVEY SECTION
4200 SOUTH JOHN YOUNG PARKWAY
ORLANDO, FLORIDA 32839-9205
(407) 836-7940

SURVEY CONTROL SHEET
HARRELL RD ADDITIONS
13-22-30

CALCULATED BY: Clark, Ron	DATE: 2/10/12	DRAWING SCALE: NOT TO SCALE	DRAWING PROJECT NUMBER: 1000-6870(1)
SURVEYED BY: Crew # 3	DATE: 4/10/13		
DRAWN BY: Washington, Icie	DATE: 9/10/14	PREPARED FOR: ENGINEERING DESIGN	
APPROVED BY: Daynes, Mark	DATE: 9/10/14		SHEET 11



LEGEND

	6" CONCRETE
	MILL & RESURFACE
	OPEN CUT (SEE OPEN CUT DETAIL)

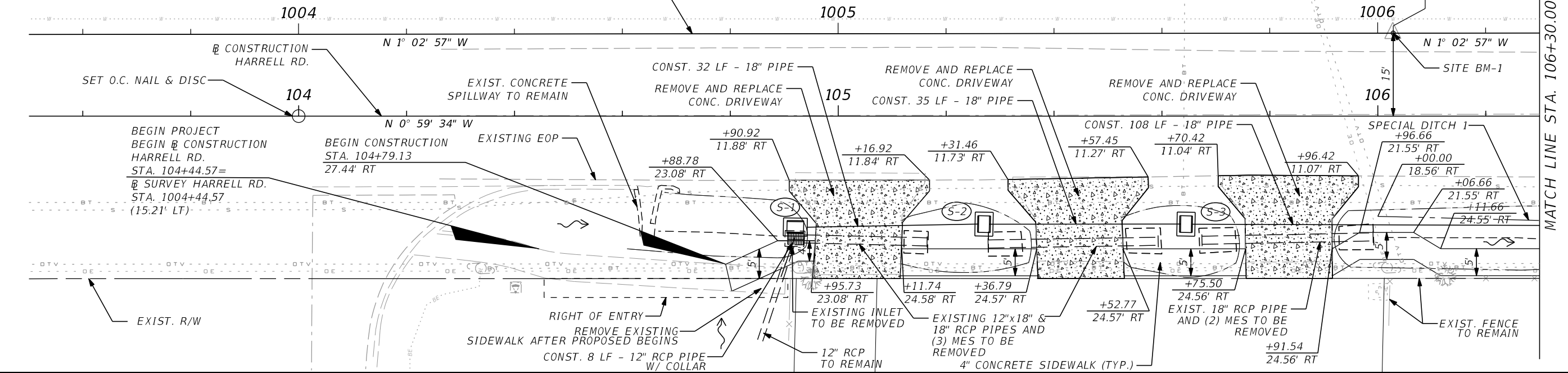
SITE BM-1
 SET 1" IRON PIPE W/ O.C.
 TRAVERSE CAP & P.K. NAIL
 N: 1539966.123
 E: 569648.621
 ELEVATION: 66.01'

SITE BM-2
 SET 1" IRON PIPE W/ O.C.
 TRAVERSE CAP & P.K. NAIL
 N: 1540568.897
 E: 569637.583
 ELEVATION: 63.57'

(S-1)
 STA 104+92.05 (19.00' RT)
 CONST DBI TYPE C
 INDEX 200, 201 & 232
 GRATE EL 66.42
 N INV 62.00
 SE 12" PIPE INV 64.24
 S SLOT INV 65.12
 (1'Wx1.3'H SLOT TO TOP OF GRATE)

(S-2)
 STA 105+27.02 (20.00' RT)
 CONST DBI TYPE C
 INDEX 200, 201, & 232
 GRATE EL 65.25
 N INV 61.80
 S INV 61.80

(S-3)
 STA 105+64.46 (20.00' RT)
 CONST DBI TYPE C
 INDEX 200, 201, & 232
 GRATE EL 65.20
 N INV 61.74
 S INV 61.74



(S-4)
 STA 106+75.00 (20.43' RT)
 CONST DBI TYPE C
 INDEX 200, 201, & 232
 GRATE EL 64.64
 NE INV 61.52
 S INV 61.52

(S-5)
 STA 107+16.09 (29.00' RT)
 CONST. DBI TYPE C
 INDEX 200, 201, & 232
 GRATE EL 64.90
 N INV 60.93
 SW INV 61.43
 E INV 61.43

(S-6)
 STA 107+18.03 (40.59' RT)
 CONST. MITERED END SECTION
 INDEX 200, 201, 232, & 272
 N INV 63.00

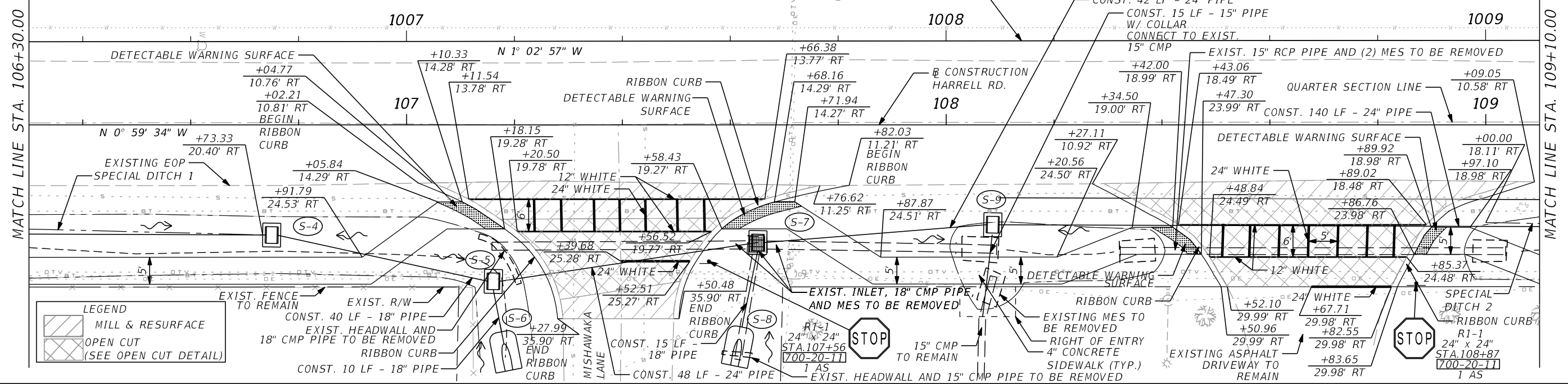
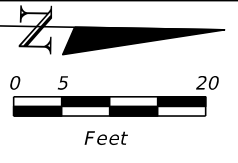
SITE BM-1
 SET 1" IRON PIPE W/ O.C.
 TRAVERSE CAP & P.K. NAIL
 N: 1539966.123
 E: 569648.621
 ELEVATION: 66.01'

(S-7)
 STA 107+65.10 (21.81' RT)
 CONST DBI TYPE C
 INDEX 200, 201, & 232
 GRATE EL 65.15
 N INV 60.65
 E INV 60.65
 S INV 60.65

SITE BM-2
 SET 1" IRON PIPE W/ O.C.
 TRAVERSE CAP & P.K. NAIL
 N: 1540568.897
 E: 569637.583
 ELEVATION: 63.57'

(S-8)
 STA 107+61.71 (39.72' RT)
 CONST. MITERED END SECTION
 INDEX 200, 201, 232, & 272
 N INV 63.00

(S-9)
 STA 108+08.64 (18.50' RT)
 CONST DBI TYPE C
 INDEX 200, 201, & 232
 GRATE EL 64.10
 N INV 60.50
 E INV 60.50
 S INV 60.50



LEGEND

	MILL & RESURFACE
	OPEN CUT (SEE OPEN CUT DETAIL)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898

201 N. Magnolia Ave.
 Suite 200
 Orlando FL 32801
 Phone 407.839.4300
 Fax 407.839.1621

CERTIFICATE OF AUTHORIZATION NO. 6796

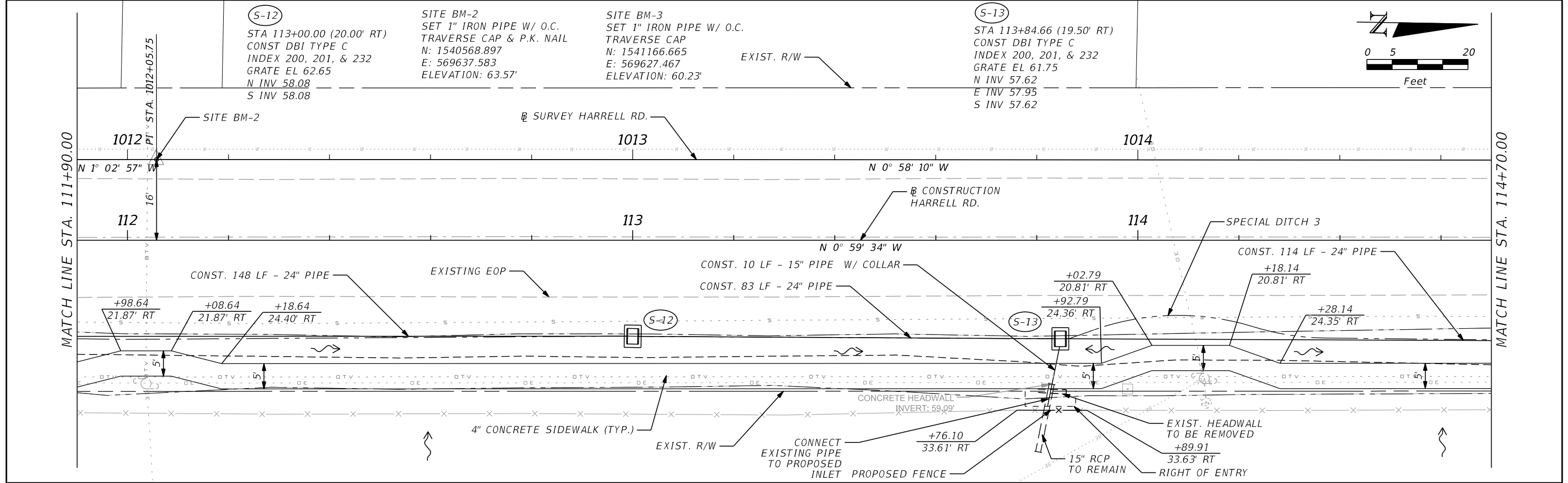
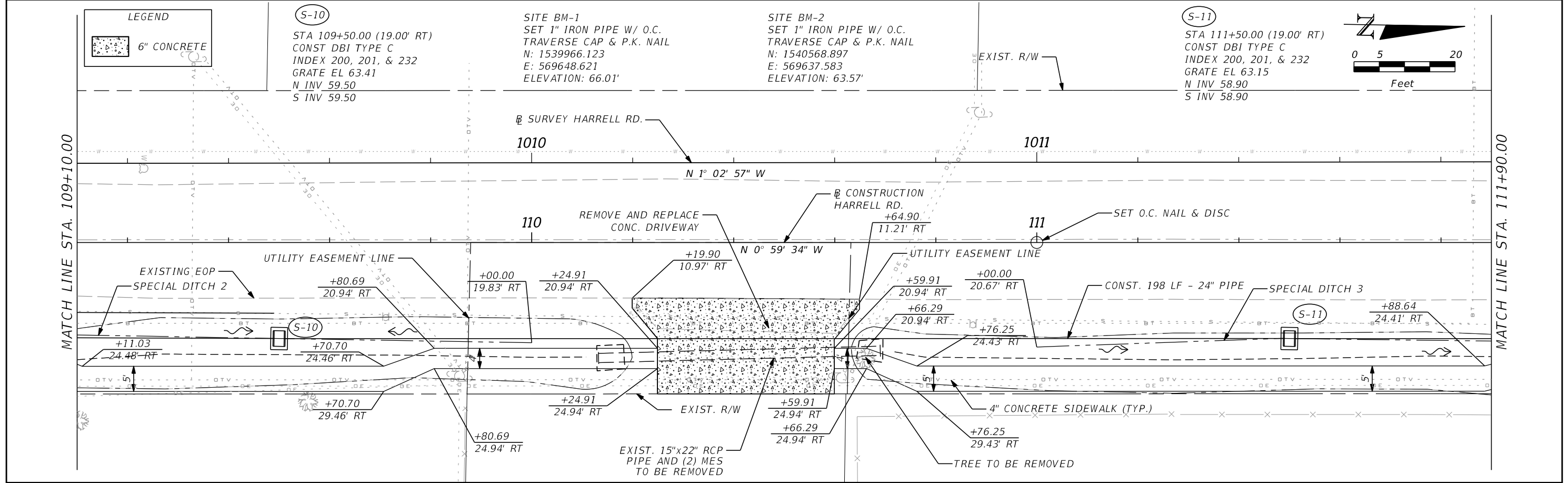
ORANGE COUNTY
 DEPARTMENT OF PUBLIC WORKS

ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

PLAN SHEETS

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SHEET NO.
 12

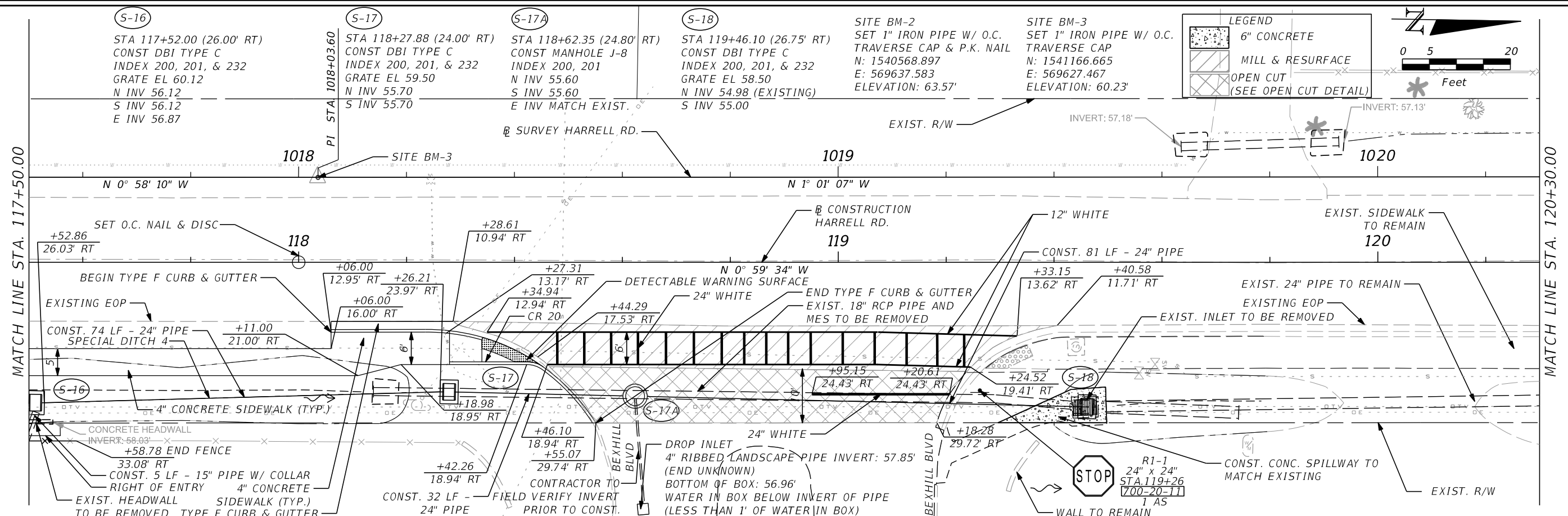
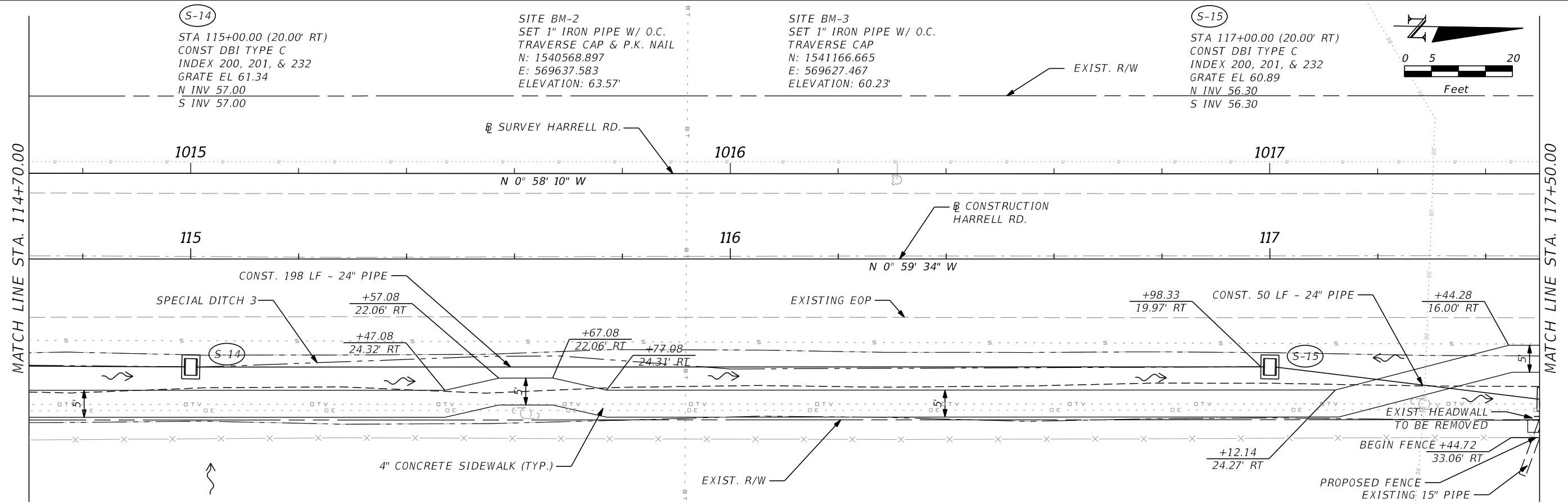


REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898
WBQ
 Design & Engineering
 CERTIFICATE OF AUTHORIZATION NO. 6796

ORANGE COUNTY GOVERNMENT
ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

PLAN SHEETS
 SHEET NO. 13



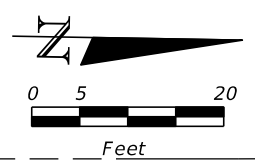
REVISIONS	
DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898
WBQ INC.
 201 N. Magnolia Ave. Suite 200
 Orlando FL 32801
 Phone 407.839.4300
 Fax 407.839.1621
 CERTIFICATE OF AUTHORIZATION NO. 6796

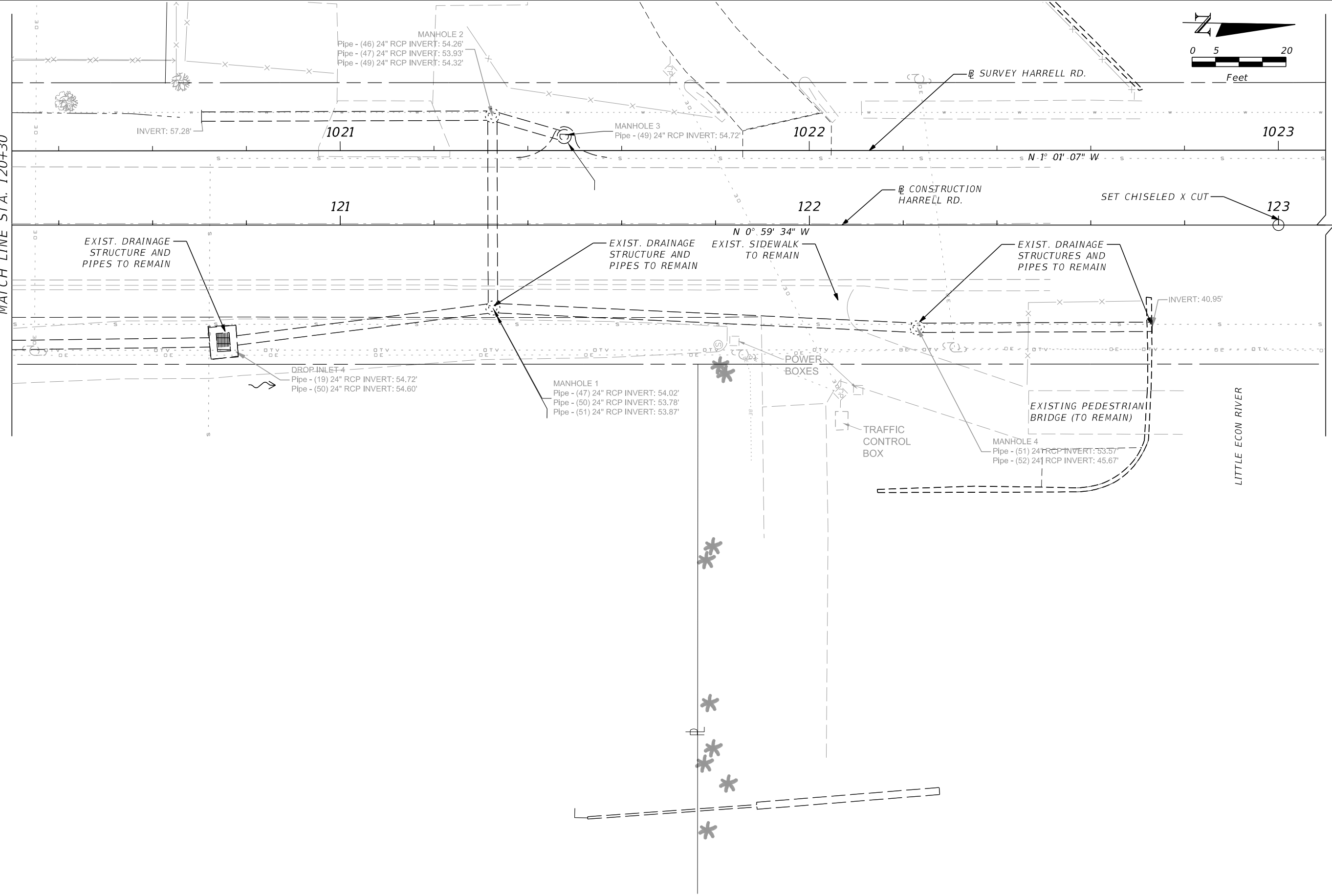
ORANGE COUNTY GOVERNMENT
ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

PLAN SHEETS

SHEET NO. 14



MATCH LINE STA. 120+30



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898
WBQ : 201 N. Magnolia Ave. Suite 200
 Orlando FL 32801
 Phone 407.839.4300
 Design & Engineering Fax 407.839.1621
 CERTIFICATE OF AUTHORIZATION NO. 6796



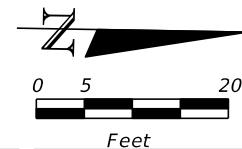
ORANGE COUNTY
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

PLAN SHEETS

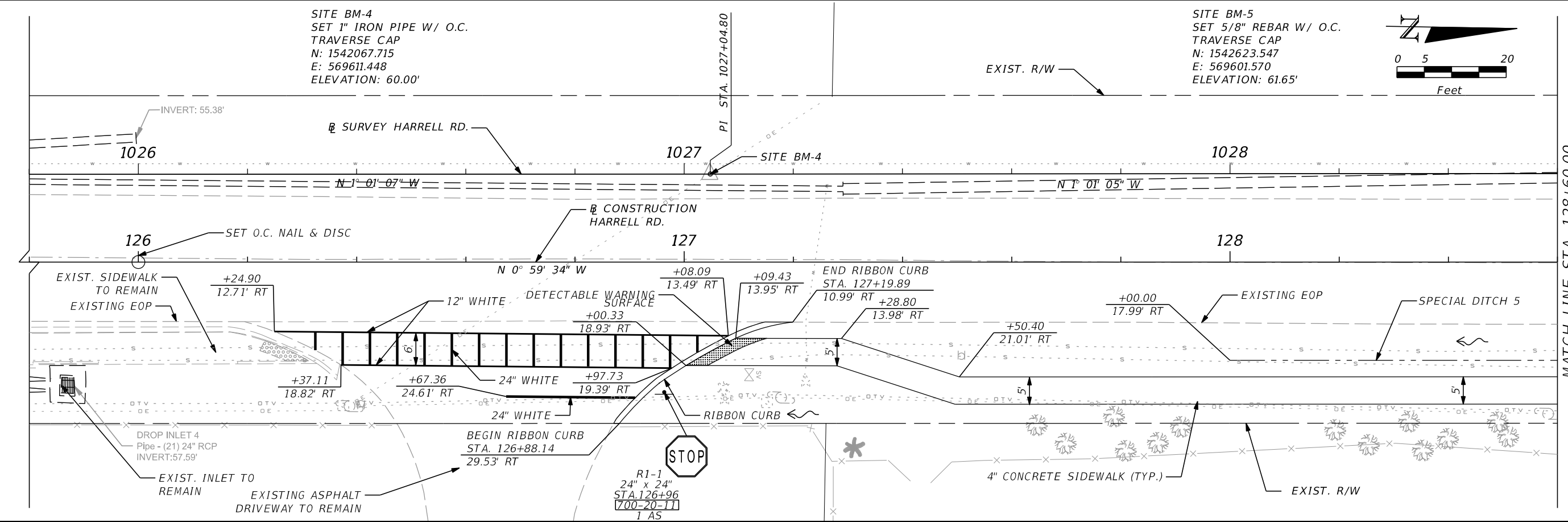
SHEET NO.
 15

SITE BM-4
 SET 1" IRON PIPE W/ O.C.
 TRAVERSE CAP
 N: 1542067.715
 E: 569611.448
 ELEVATION: 60.00'

SITE BM-5
 SET 5/8" REBAR W/ O.C.
 TRAVERSE CAP
 N: 1542623.547
 E: 569601.570
 ELEVATION: 61.65'



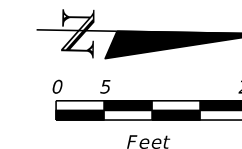
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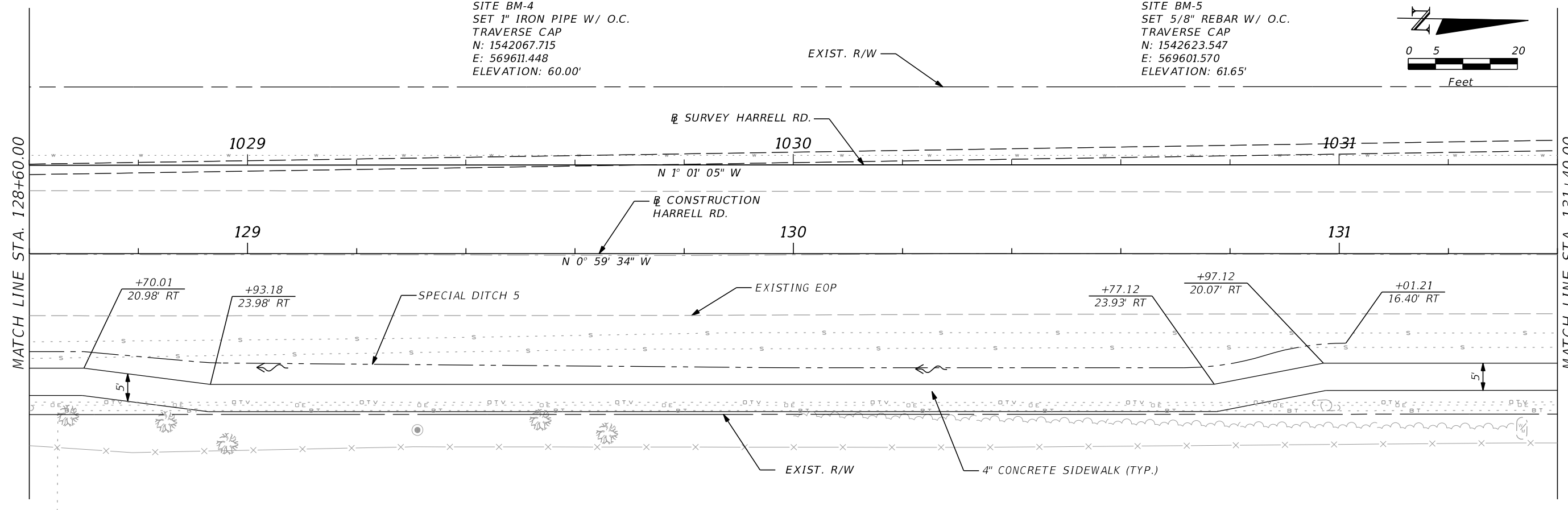
MATCH LINE STA. 128+60.00

SITE BM-4
 SET 1" IRON PIPE W/ O.C.
 TRAVERSE CAP
 N: 1542067.715
 E: 569611.448
 ELEVATION: 60.00'

SITE BM-5
 SET 5/8" REBAR W/ O.C.
 TRAVERSE CAP
 N: 1542623.547
 E: 569601.570
 ELEVATION: 61.65'



EXIST. R/W



MATCH LINE STA. 128+60.00

MATCH LINE STA. 131+40.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898
WBQ INC.
 201 N. Magnolia Ave.
 Suite 200
 Orlando FL 32801
 Phone 407.839.4300
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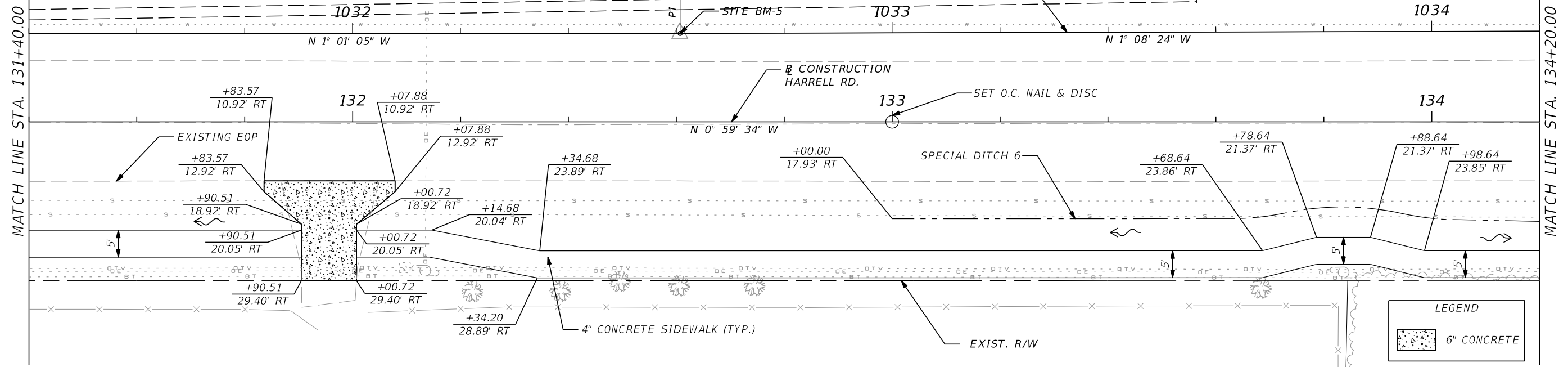
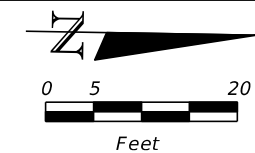
ORANGE COUNTY GOVERNMENT
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

PLAN SHEETS

SHEET NO.
16

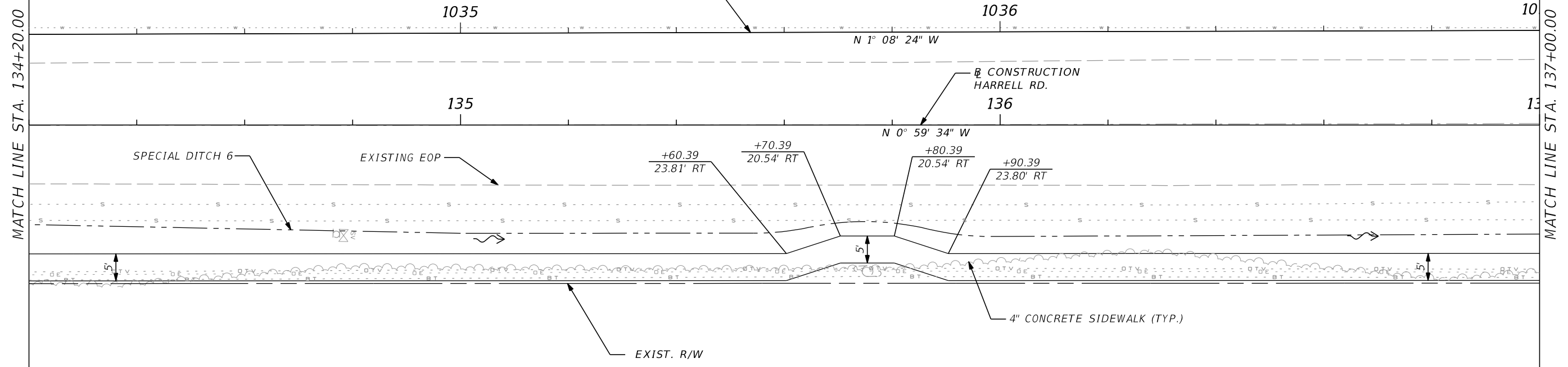
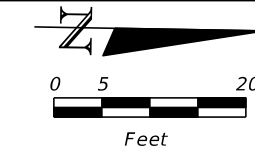
SITE BM-4
 SET 1" IRON PIPE W/ O.C.
 TRAVERSE CAP
 N: 1542067.715
 E: 569611.448
 ELEVATION: 60.00'

SITE BM-5
 SET 5/8" REBAR W/ O.C.
 TRAVERSE CAP
 N: 1542623.547
 E: 569601.570
 ELEVATION: 61.65'



SITE BM-5
 SET 5/8" REBAR W/ O.C.
 TRAVERSE CAP
 N: 1542623.547
 E: 569601.570
 ELEVATION: 61.65'

SITE BM-6
 SET 5/8" REBAR W/ O.C.
 TRAVERSE CAP
 N: 1543263.451
 E: 569588.836
 ELEVATION: 59.34'



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898
WBQ : 201 N. Magnolia Ave. Suite 200
 Orlando FL 32801
 Phone 407.839.4300
 Design & Engineering Fax 407.839.1621
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ORANGE COUNTY GOVERNMENT
ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS
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 4200 SOUTH JOHN YOUNG PARKWAY
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 (407) 836-7900

PLAN SHEETS

SHEET NO.
 17

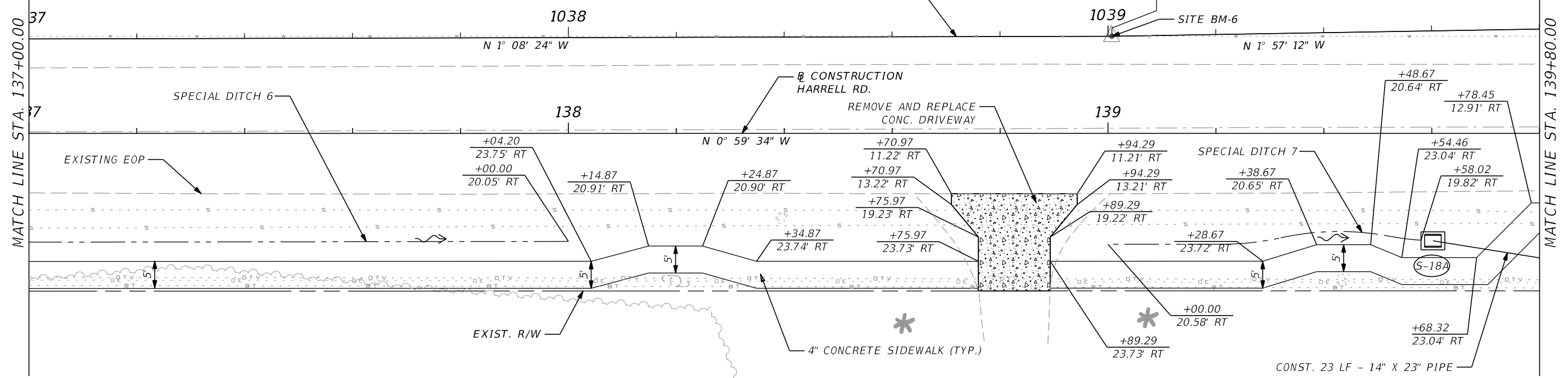
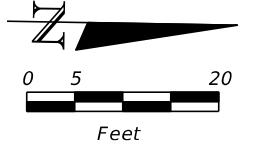
LEGEND
 6" CONCRETE

SITE BM-5
 SET 5/8" REBAR W/ O.C.
 TRAVERSE CAP
 N: 1542623.547
 E: 569601.570
 ELEVATION: 61.65'

(S-18A)
 STA 139+60.23 (19.93 RT)
 CONST DBI TYPE C
 INDEX 200, 201, 232
 GRATE EL 58.40
 NE INV 56.58

SITE BM-6
 SET 5/8" REBAR W/ O.C.
 TRAVERSE CAP
 N: 1543263.451
 E: 569588.836
 ELEVATION: 59.34'

(S-18B)
 STA 139+83.82 (23.73 RT)
 CONST MITERED END SECTION
 INDEX 273
 SW INV 56.15



(S-19)
 STA 139+97.38 (24.36 RT)
 CONST MITERED END SECTION
 INDEX 273
 E INV 56.15

(S-20)
 STA 140+16.53 (33.94 RT)
 CONST MITERED END SECTION
 INDEX 273
 S INV 56.41

(S-20A)
 STA 140+59.24 (34.61 RT)
 CONST MITERED END SECTION
 INDEX 273
 N INV 56.41

(S-21)
 STA 140+76.42 (22.85' RT)
 CONST MITERED END SECTION
 INDEX 273
 S INV 55.47

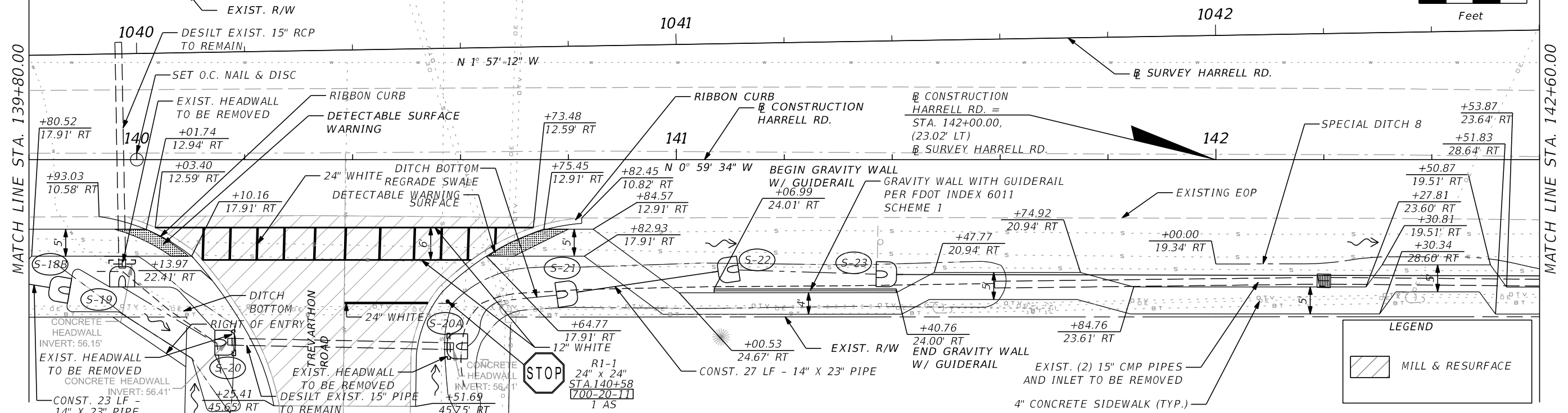
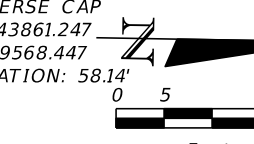
(S-22)
 STA 141+09.46 (20.61' RT)
 CONST MITERED END SECTION
 INDEX 273
 S INV 55.39

(S-23)
 STA 141+39.09 (21.26' RT)
 CONST MITERED END SECTION
 INDEX 273
 S INV 55.35

(S-24)
 NOT USED
 TRAVERSE CAP
 N: 1543263.451
 E: 569588.836
 ELEVATION: 59.34'

SITE BM-6
 SET 5/8" REBAR W/ O.C.
 TRAVERSE CAP
 N: 1543861.247
 E: 569568.447
 ELEVATION: 58.14'

SITE BM-7
 SET 5/8" REBAR W/ O.C.
 TRAVERSE CAP
 N: 1543861.247
 E: 569568.447
 ELEVATION: 58.14'



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

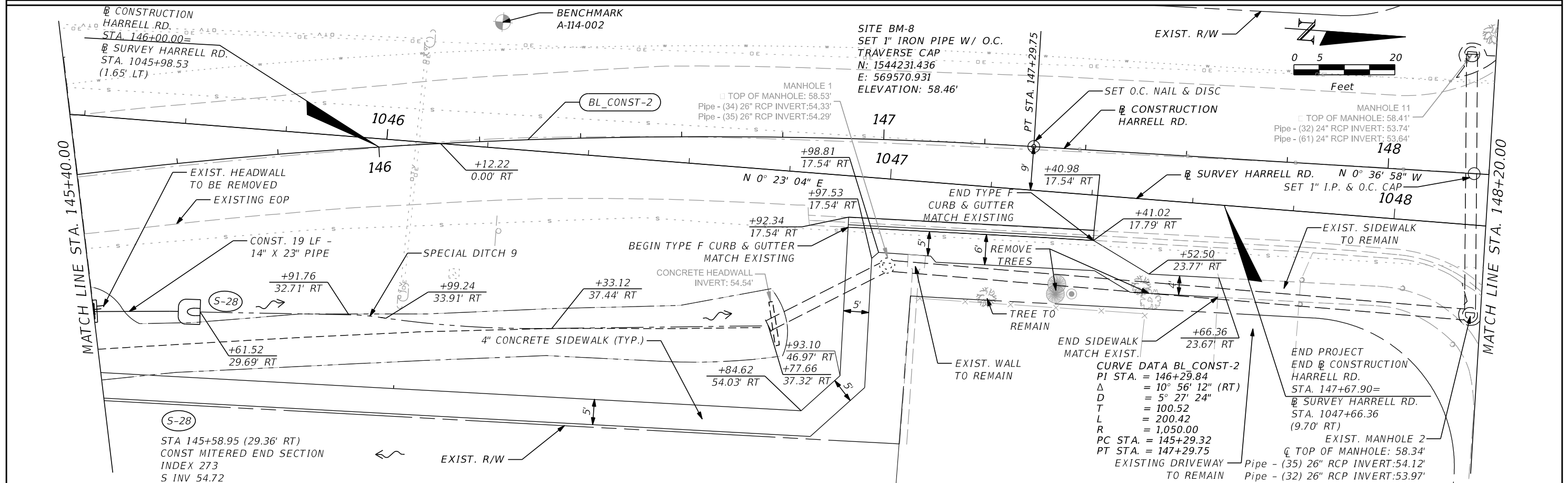
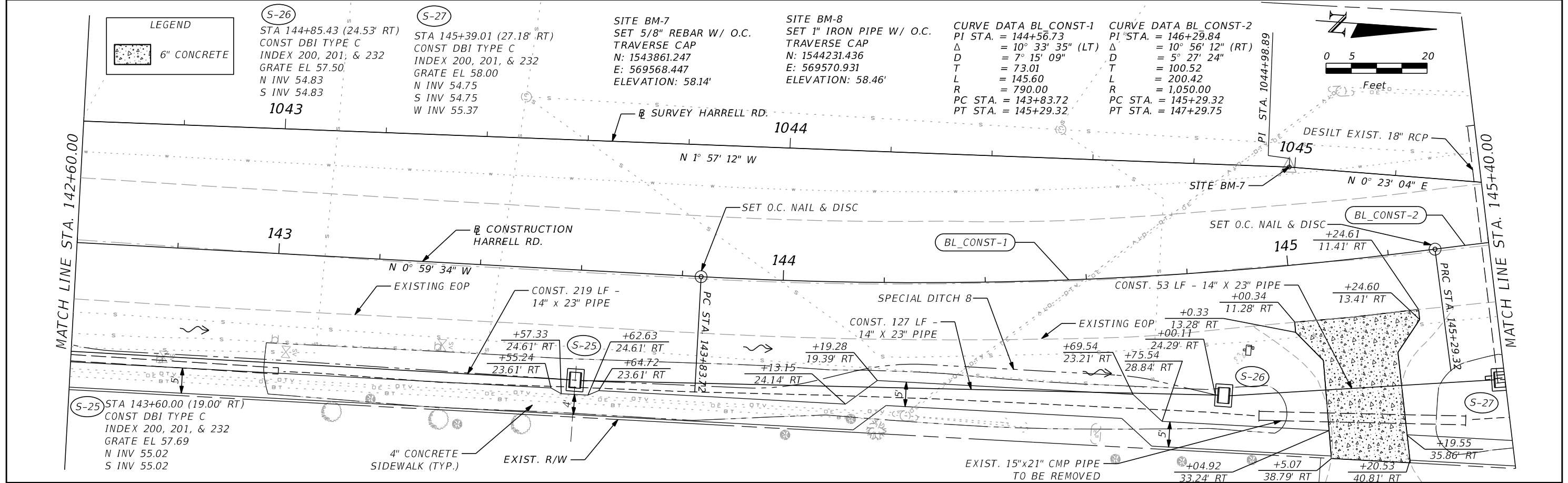
DEREK C. BURKE, P.E. LICENSE NO. 40898

 201 N. Magnolia Ave.
 Suite 200
 Orlando FL 32801
 Phone 407.839.4300
 Fax 407.839.1621
 CERTIFICATE OF AUTHORIZATION NO. 6796

ORANGE COUNTY
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

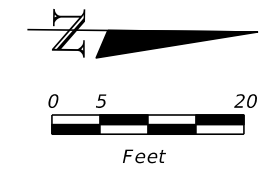
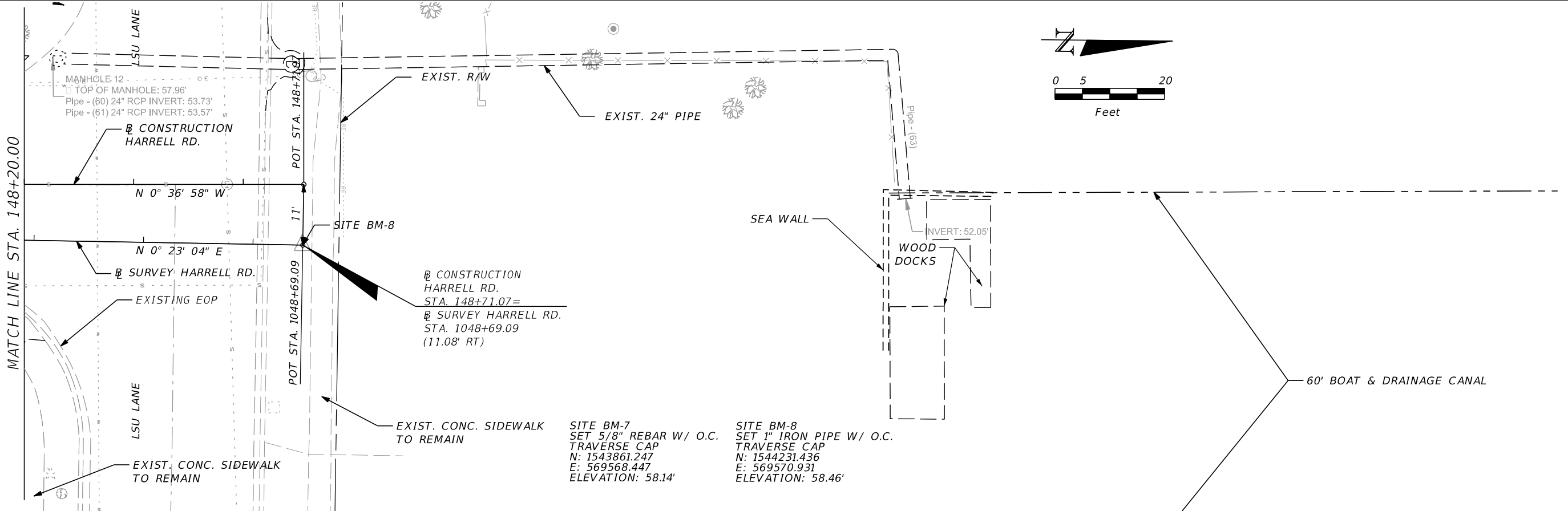
PLAN SHEETS

SHEET NO.
 18



REVISIONS				DEREK C. BURKE, P.E. LICENSE NO. 40898 WBQ Design & Engineering CERTIFICATE OF AUTHORIZATION NO. 6796	ORANGE COUNTY GOVERNMENT FLORIDA	ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION 4200 SOUTH JOHN YOUNG PARKWAY ORLANDO, FLORIDA 32839 (407) 836-7900	PLAN SHEETS	SHEET NO. 19
DATE	DESCRIPTION	DATE	DESCRIPTION					

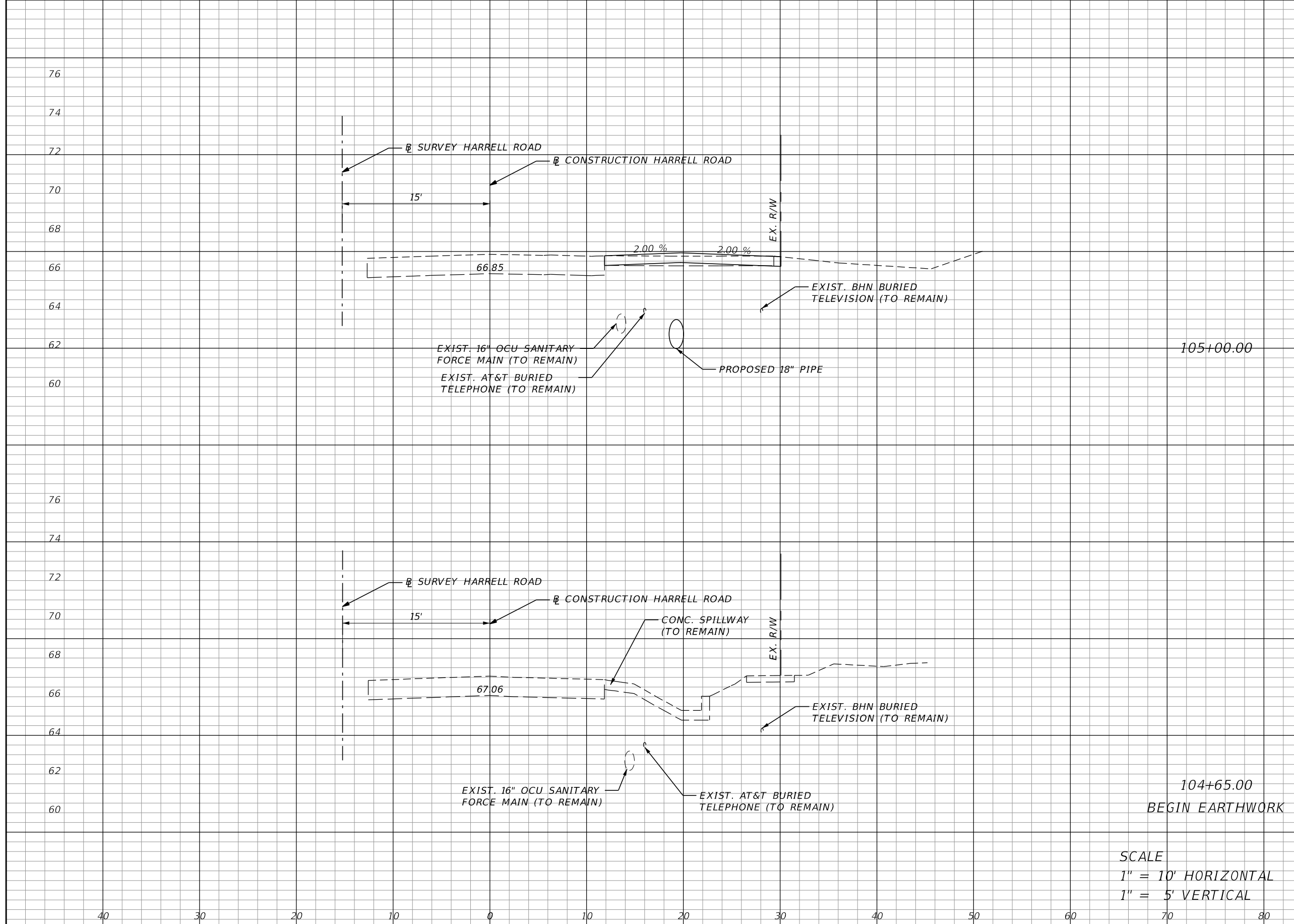
MATCH LINE STA. 148+20.00



SITE BM-7
SET 5/8" REBAR W/ O.C.
TRAVERSE CAP
N: 1543861.247
E: 569568.447
ELEVATION: 58.14'

SITE BM-8
SET 1" IRON PIPE W/ O.C.
TRAVERSE CAP
N: 1544231.436
E: 569570.931
ELEVATION: 58.46'

REVISIONS				DEREK C. BURKE, P.E. LICENSE NO. 40898		ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	WBQ INC. 201 N. Magnolia Ave. Suite 200 Orlando FL 32801 Phone 407.839.4300 Fax 407.839.1621		ENGINEERING DIVISION 4200 SOUTH JOHN YOUNG PARKWAY ORLANDO, FLORIDA 32839 (407) 836-7900		
				CERTIFICATE OF AUTHORIZATION NO. 6796		PLAN SHEETS		20



Regular		Exc.		Embankment	
A	V	A	V	A	V
			2.7		19.8
0.0				1.4	
		0.0			0.9
0.0				0.0	

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

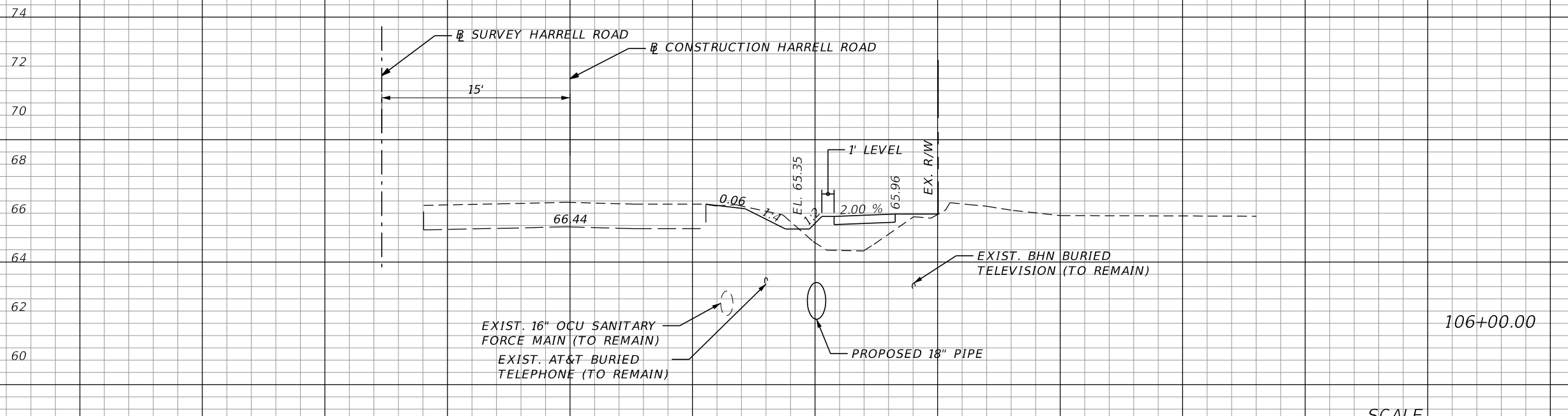
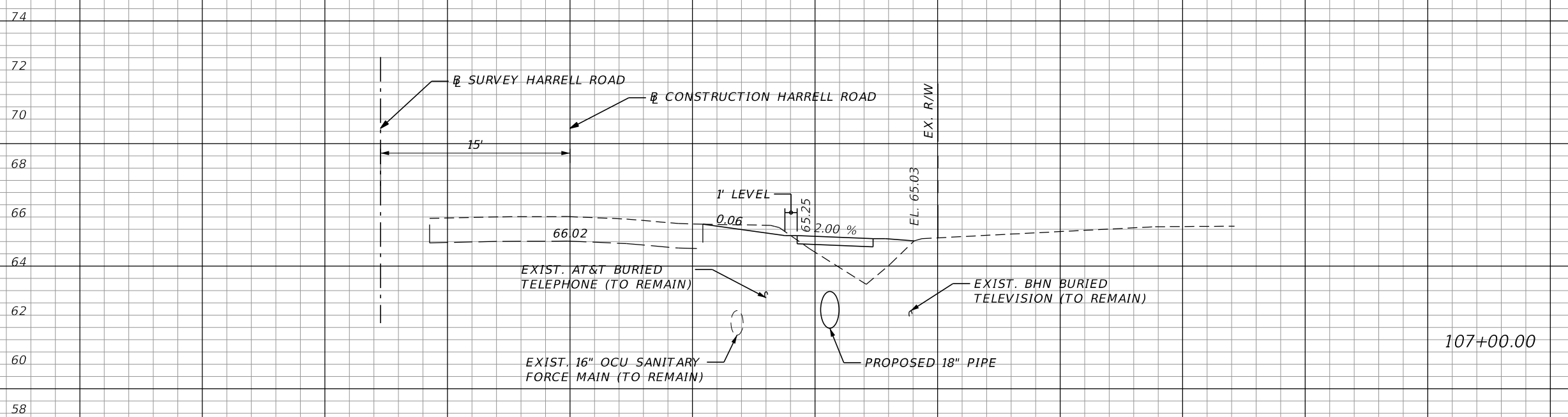
DEREK C. BURKE, P.E. LICENSE NO. 40898
WBQ Design & Engineering
 201 N. Magnolia Ave. Suite 200
 Orlando FL 32801
 Phone 407.839.4300 Fax 407.839.1621
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ORANGE COUNTY GOVERNMENT
ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

CROSS SECTIONS

SHEET NO.
21

Regular		Exc.		Embankment	
A	V	A	V	A	V
			18.0		18.2
1.1			9.8		
			4.7		35.4
1.5			9.3		



SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

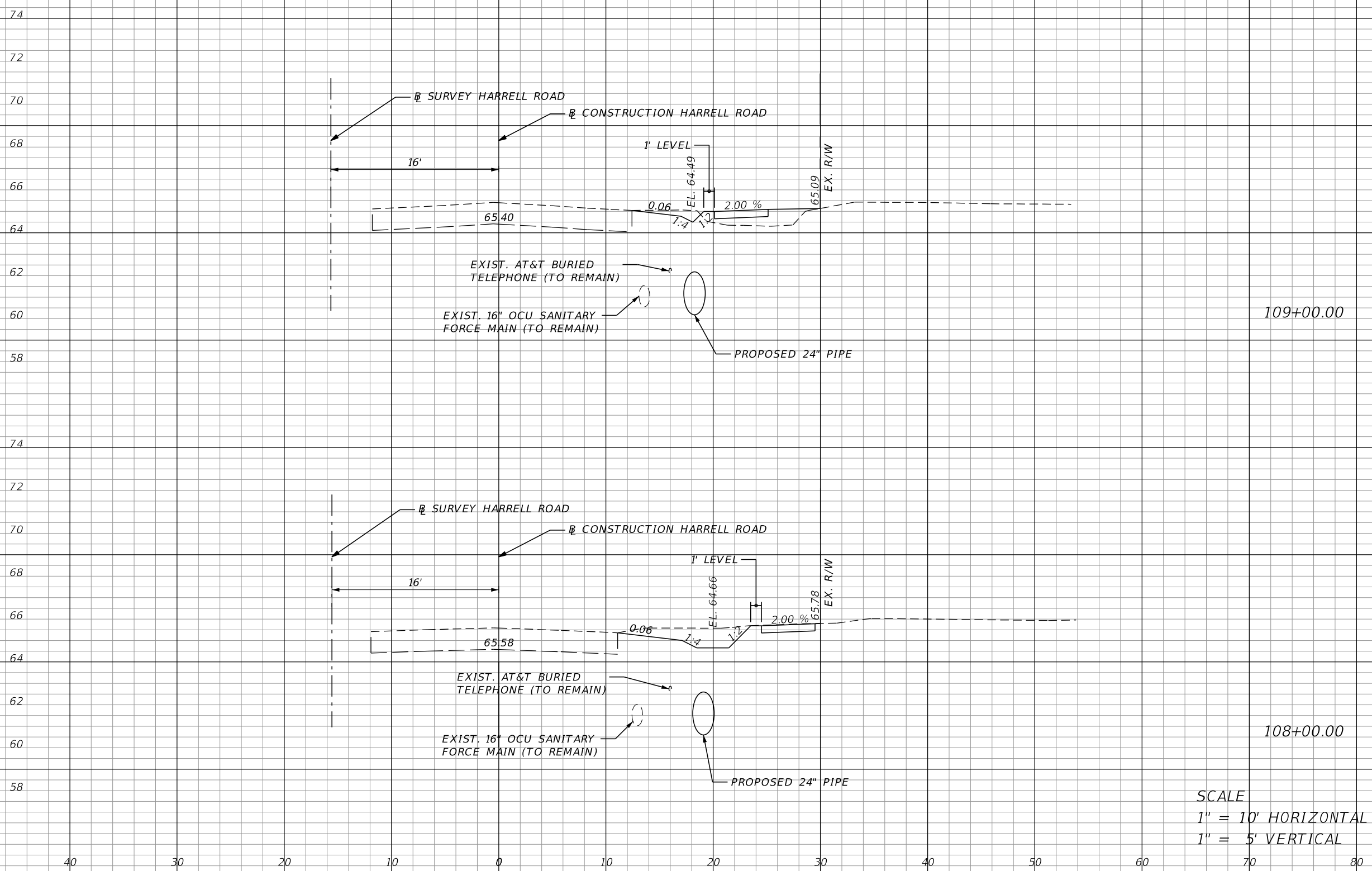
DEREK C. BURKE, P.E. LICENSE NO. 40898
WBQ INC.
 201 N. Magnolia Ave.
 Suite 200
 Orlando FL 32801
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ORANGE COUNTY GOVERNMENT
ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

CROSS SECTIONS

SHEET NO.
 22

Regular		Exc.		Embankment	
A	V	A	V	A	V
			4.8		24.5
2.6		3.6			
	20.8				6.7
8.7		0.0			

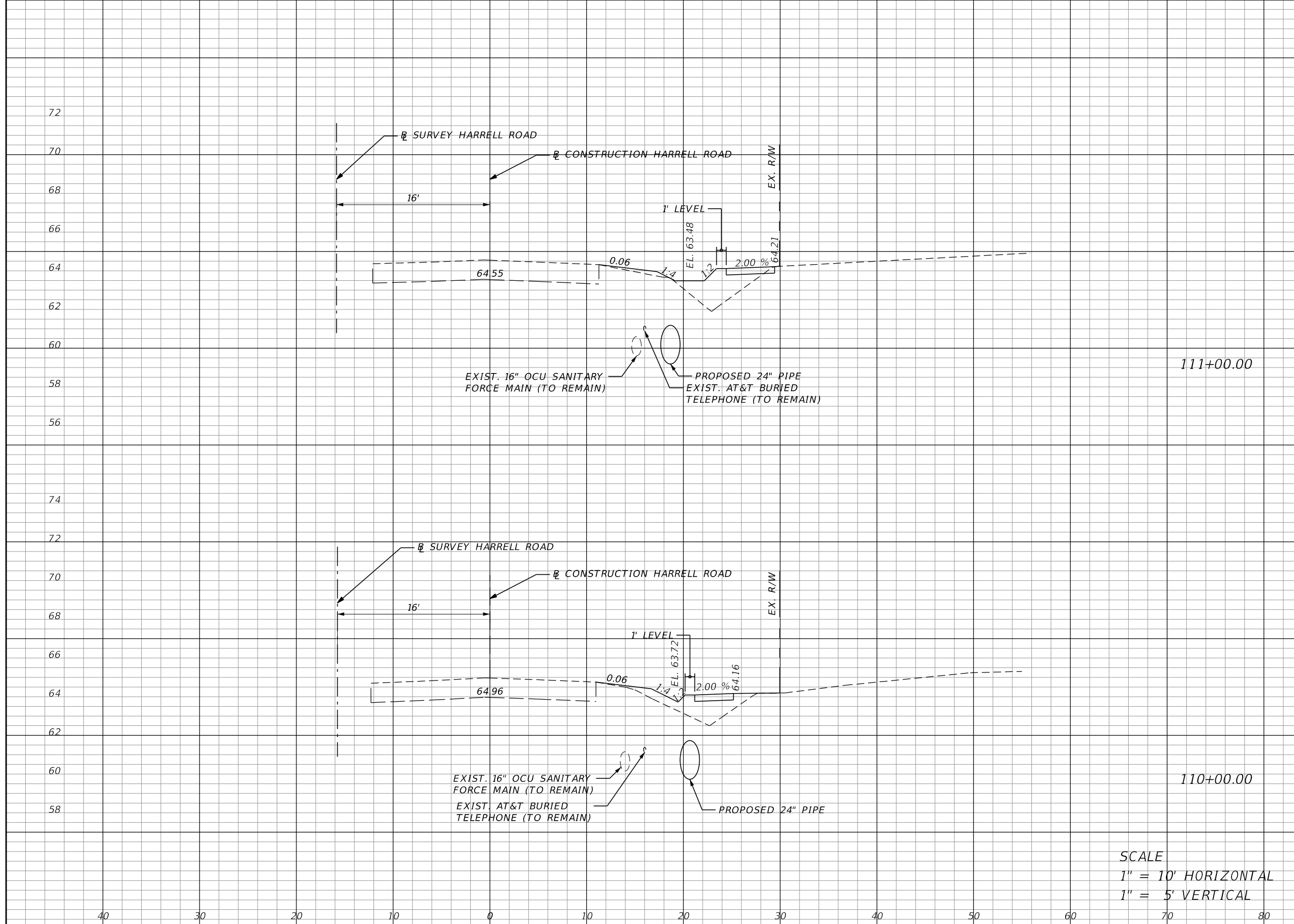


REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898
WBQ Design & Engineering
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 Orlando FL 32801
 Phone 407.839.4300 Fax 407.839.1621
 CERTIFICATE OF AUTHORIZATION NO. 6796

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 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

CROSS SECTIONS



Regular		Exc.		Embankment	
A	V	A	V	A	V
			0.4		38.2
0.2				11.0	
			0.4		38.1
0.0				9.7	

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

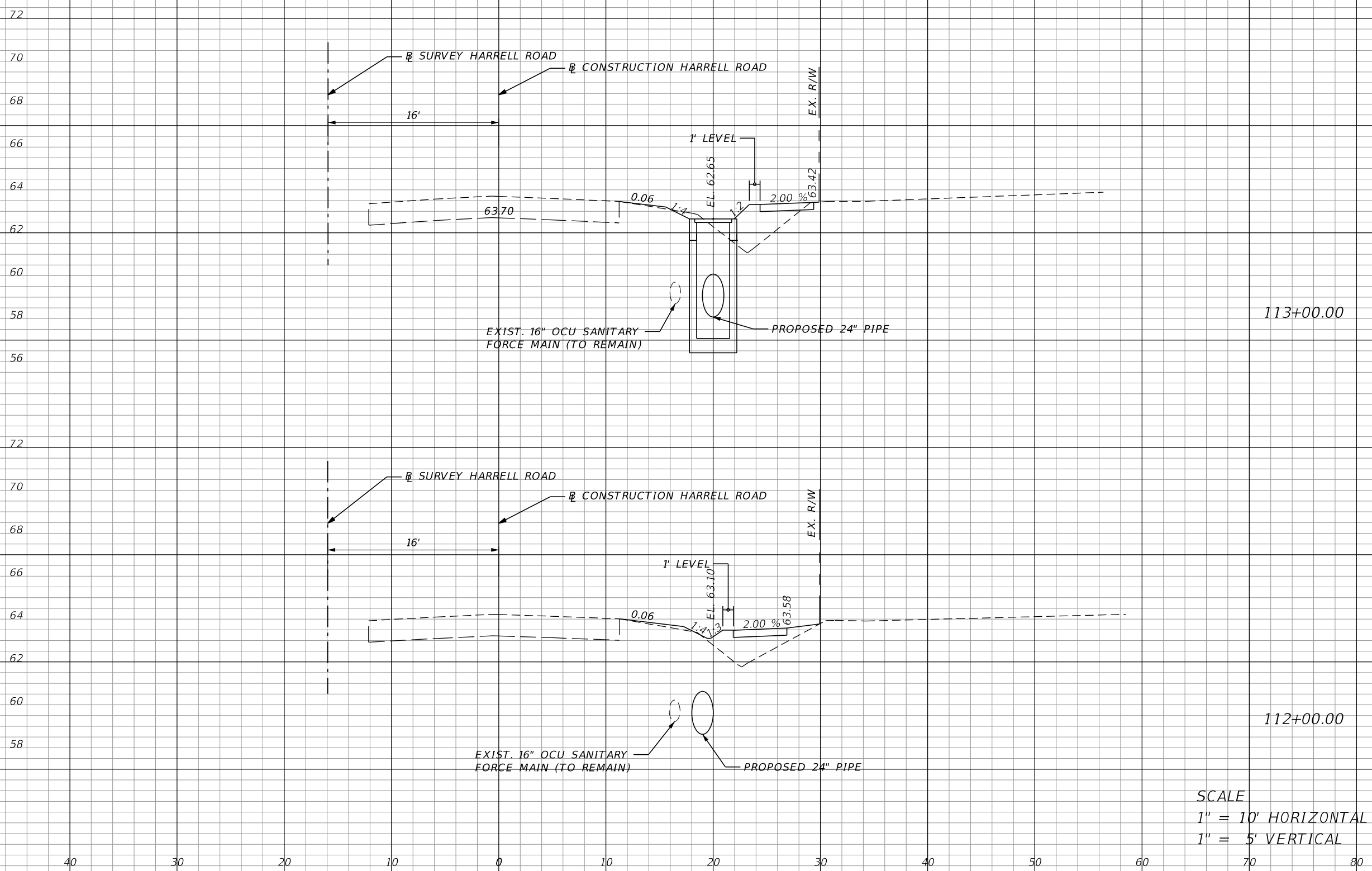
DEREK C. BURKE, P.E. LICENSE NO. 40898
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CROSS SECTIONS

SHEET NO.
24

Regular		Exc.		Embankment	
A	V	A	V	A	V
			1.4		48.6
0.8			10.5		
			1.4		37.4
0.0			9.7		



SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

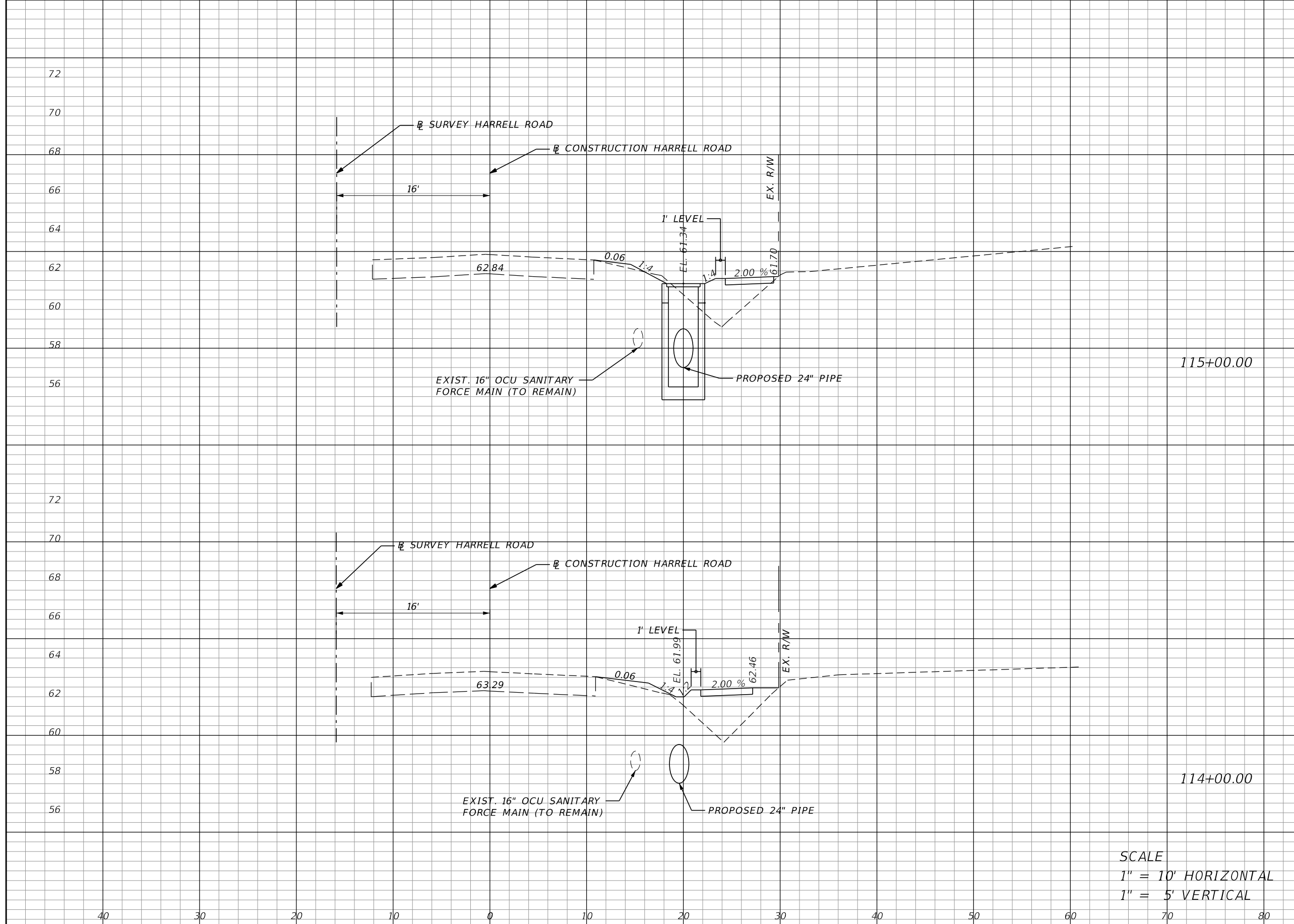
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CROSS SECTIONS

SHEET NO.
 25



Regular		Exc.		Embankment	
A	V	A	V	A	V
			1.0		53.0
0.4				14.2	
			0.8		55.5
0.0				15.7	

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

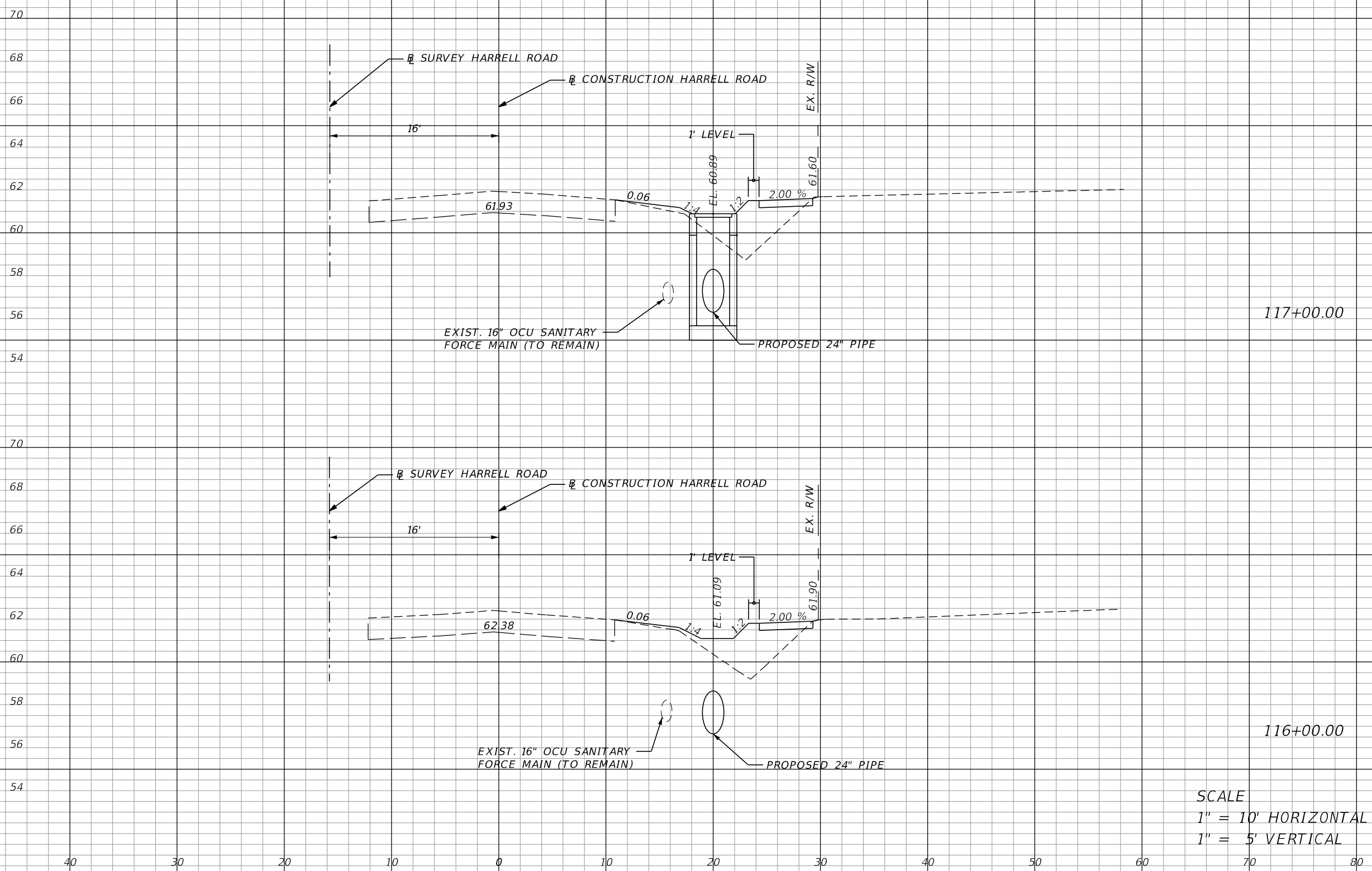
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CROSS SECTIONS

SHEET NO.
26

Regular		Exc.		Embankment	
A	V	A	V	A	V
			0.2		56.7
0.1			15.9		
			0.5		56.0
0.2			14.4		



SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

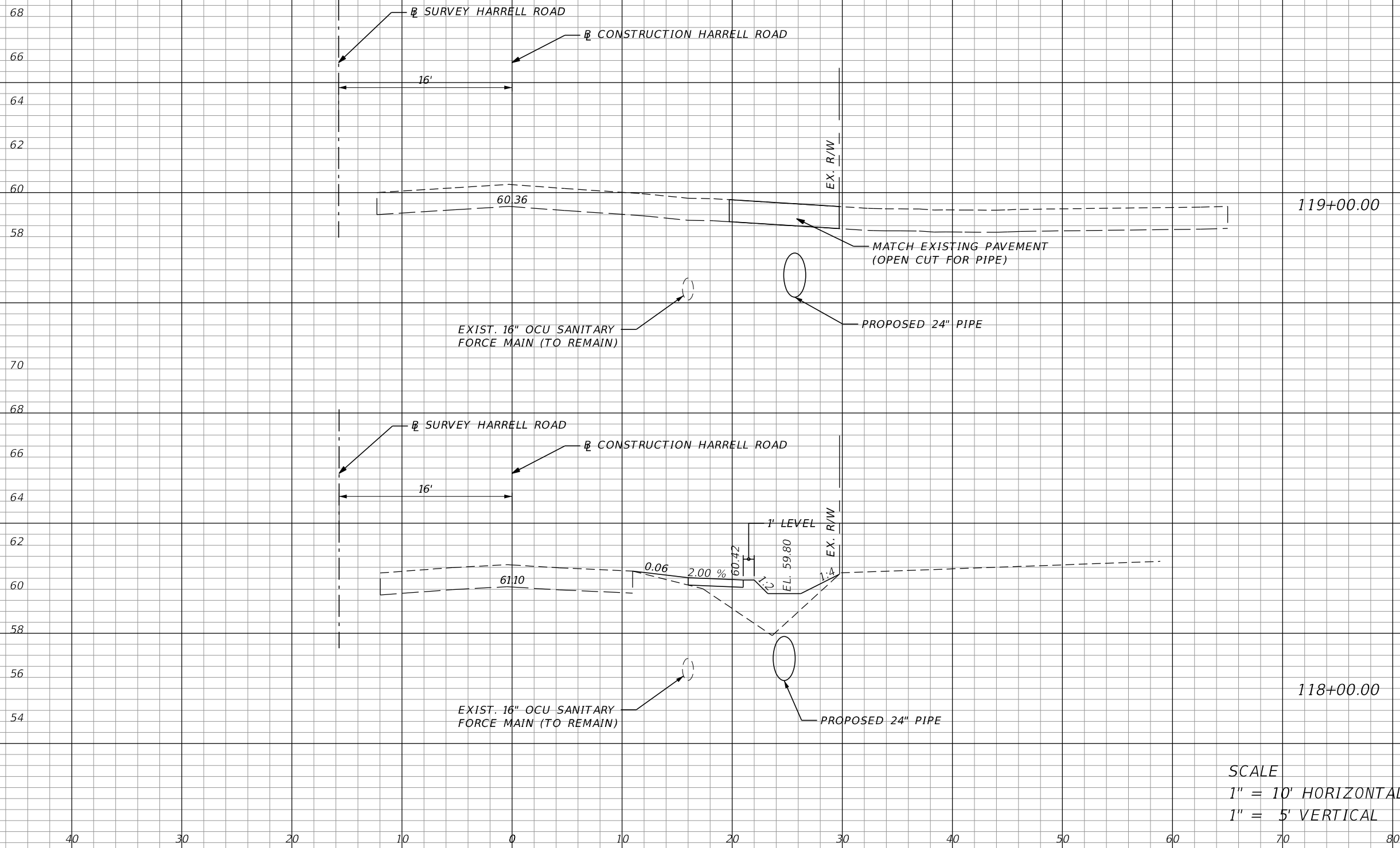
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CROSS SECTIONS

SHEET NO.
 27

Regular		Exc.		Embankment	
A	V	A	V	A	V
			0.0		0.0
		0.0		0.0	
			0.0		27.3
		0.0		14.8	



SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

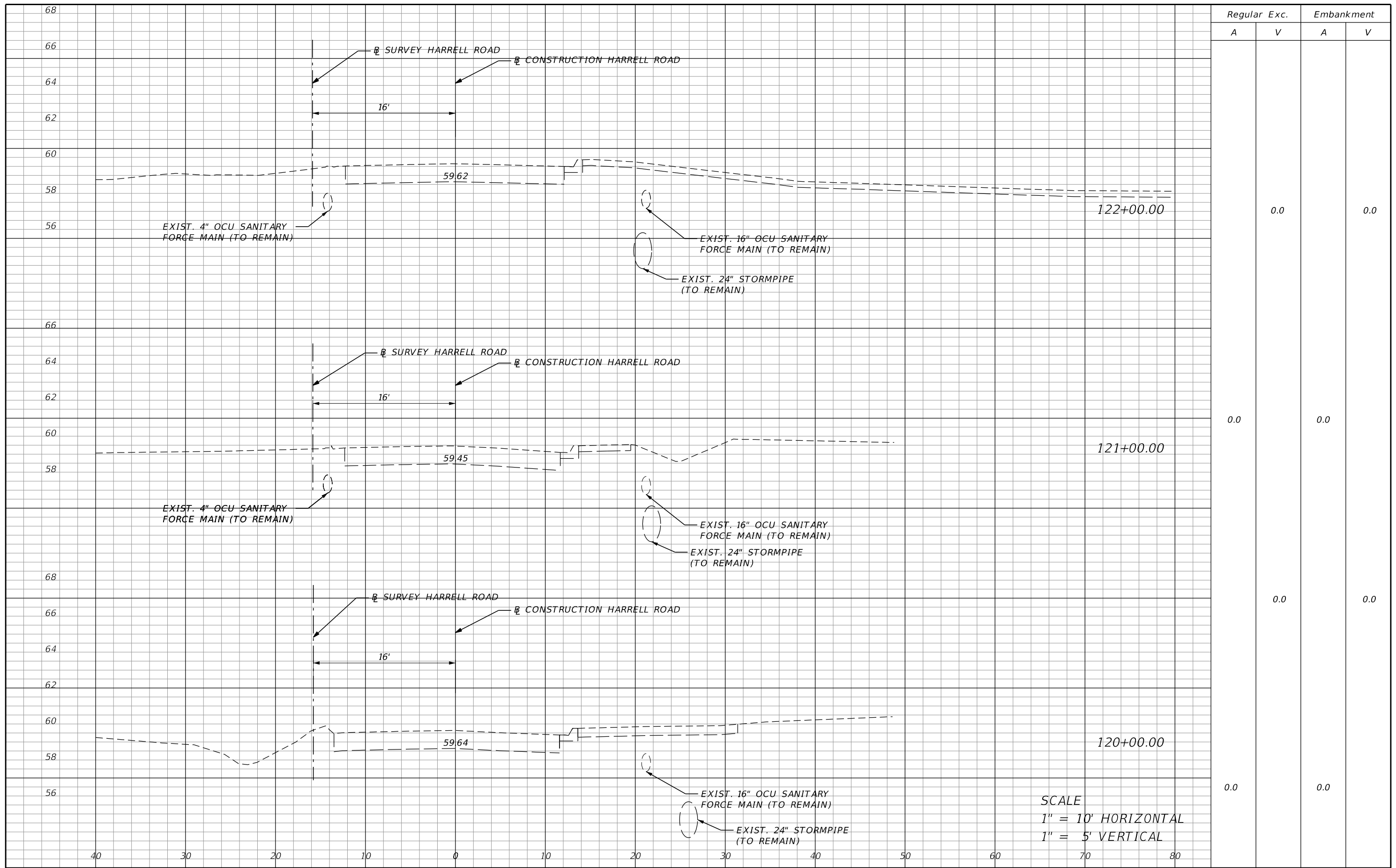
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CROSS SECTIONS

SHEET NO.
 28



Regular		Exc.		Embankment	
A	V	A	V	A	V
			0.0		0.0
0.0				0.0	
			0.0		0.0
0.0				0.0	

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CROSS SECTIONS

SHEET NO. 29

Regular		Exc.		Embankment	
A	V	A	V	A	V
			2.7		5.8
0.0		0.9			
	0.0				1.6
0.0		0.0			

68

66

64

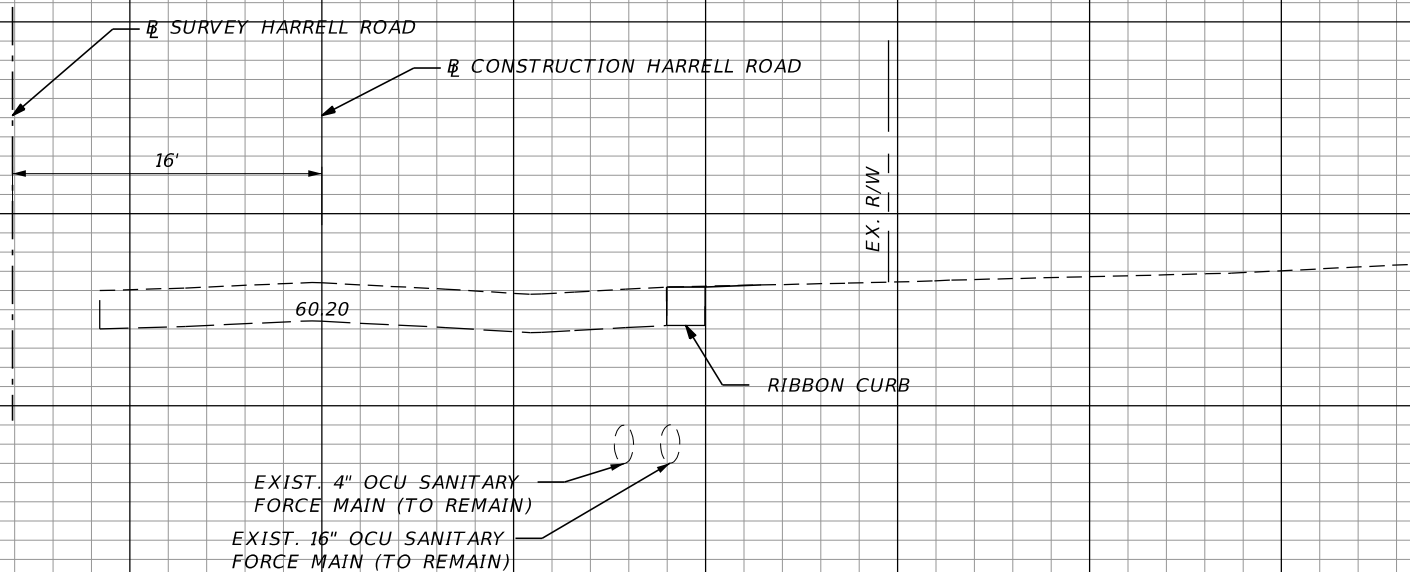
62

60

58

56

54



127+00.00

68

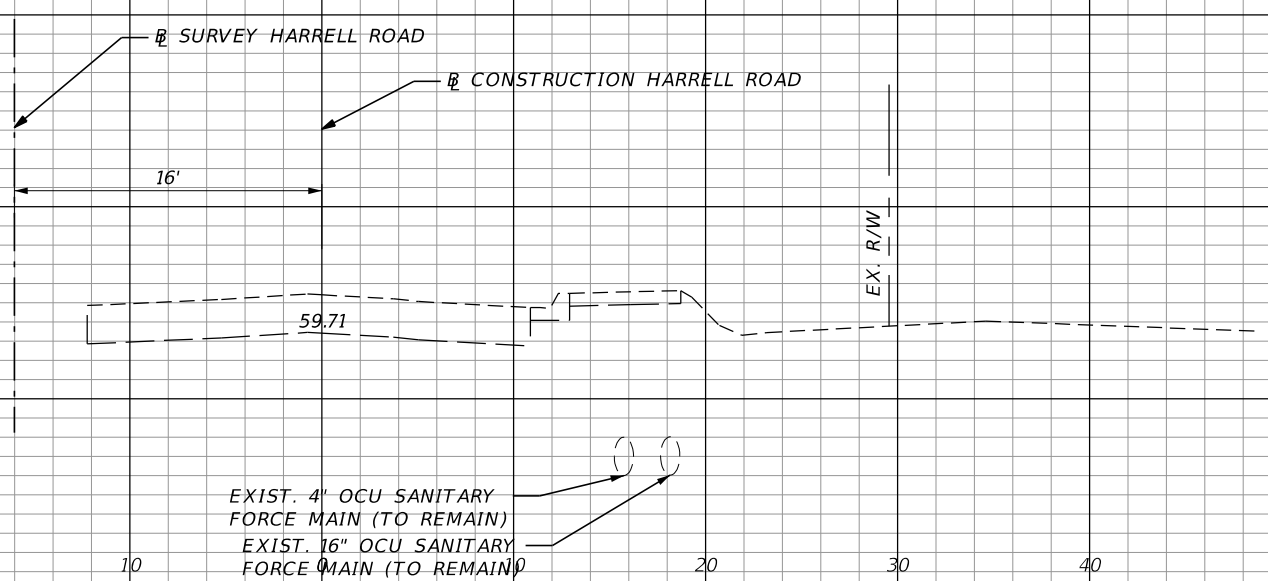
66

64

62

60

58



126+00.00

SCALE
1" = 10' HORIZONTAL
1" = 5' VERTICAL

40 30 20 10 20 30 40 50 60 70 80

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

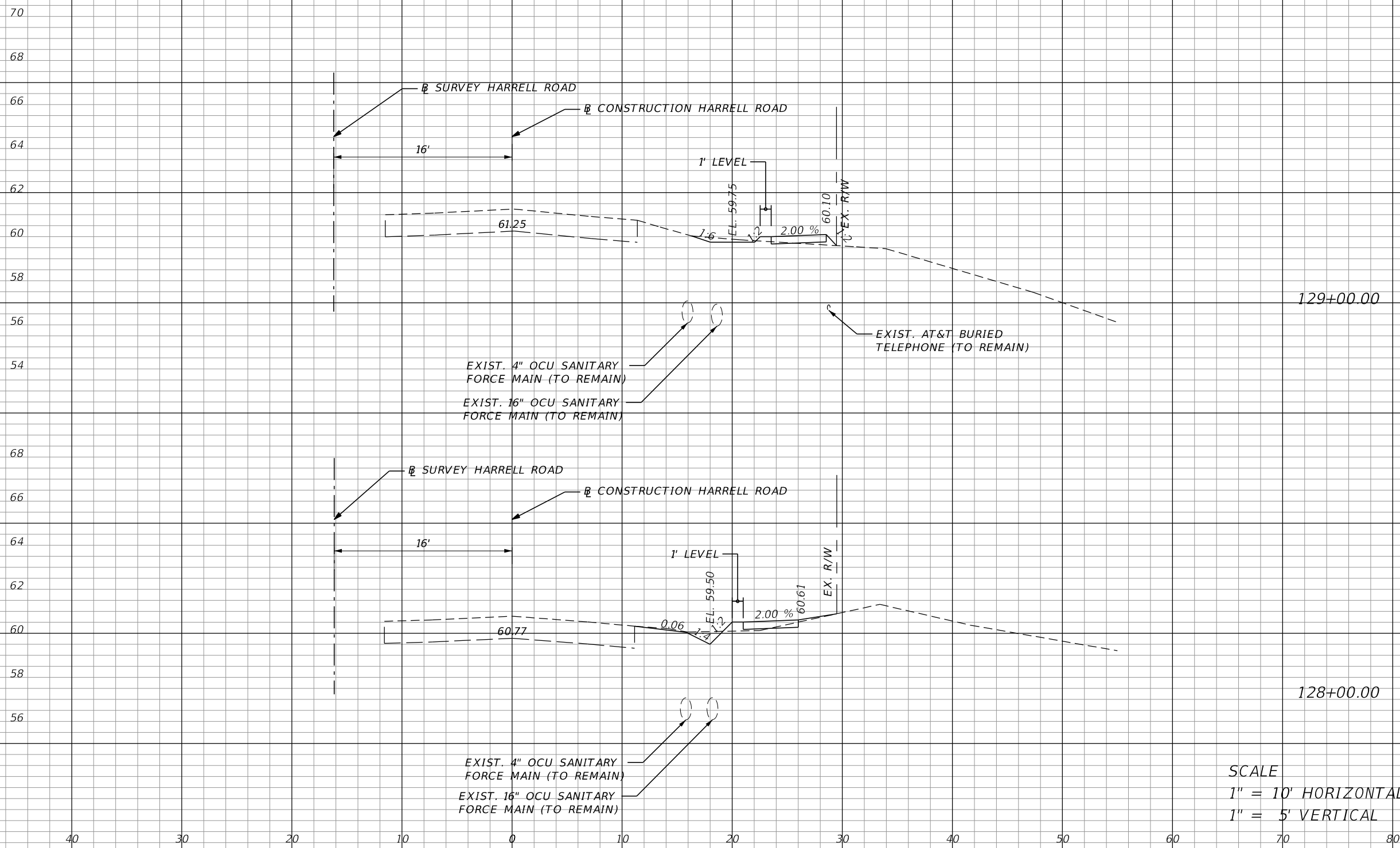
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CROSS SECTIONS

SHEET NO.
30

Regular		Exc.		Embankment	
A	V	A	V	A	V
			7.5		5.8
0.9		2.2			
	4.3				8.3
1.5		2.2			



SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

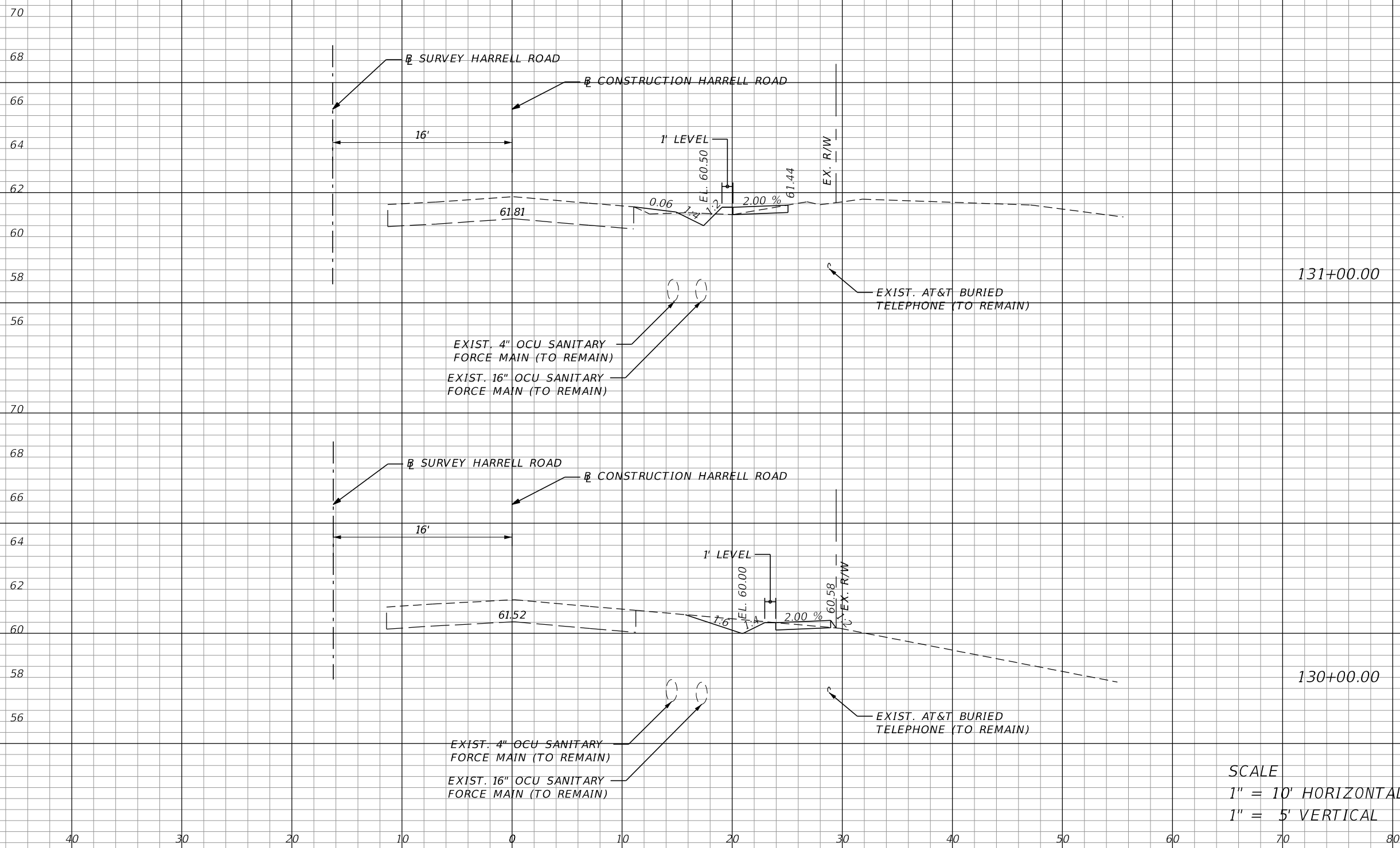
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CROSS SECTIONS

Regular		Exc.		Embankment	
A	V	A	V	A	V
			4.6		3.3
1.8		1.8			
			9.3		4.9
3.2		0.9			



SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

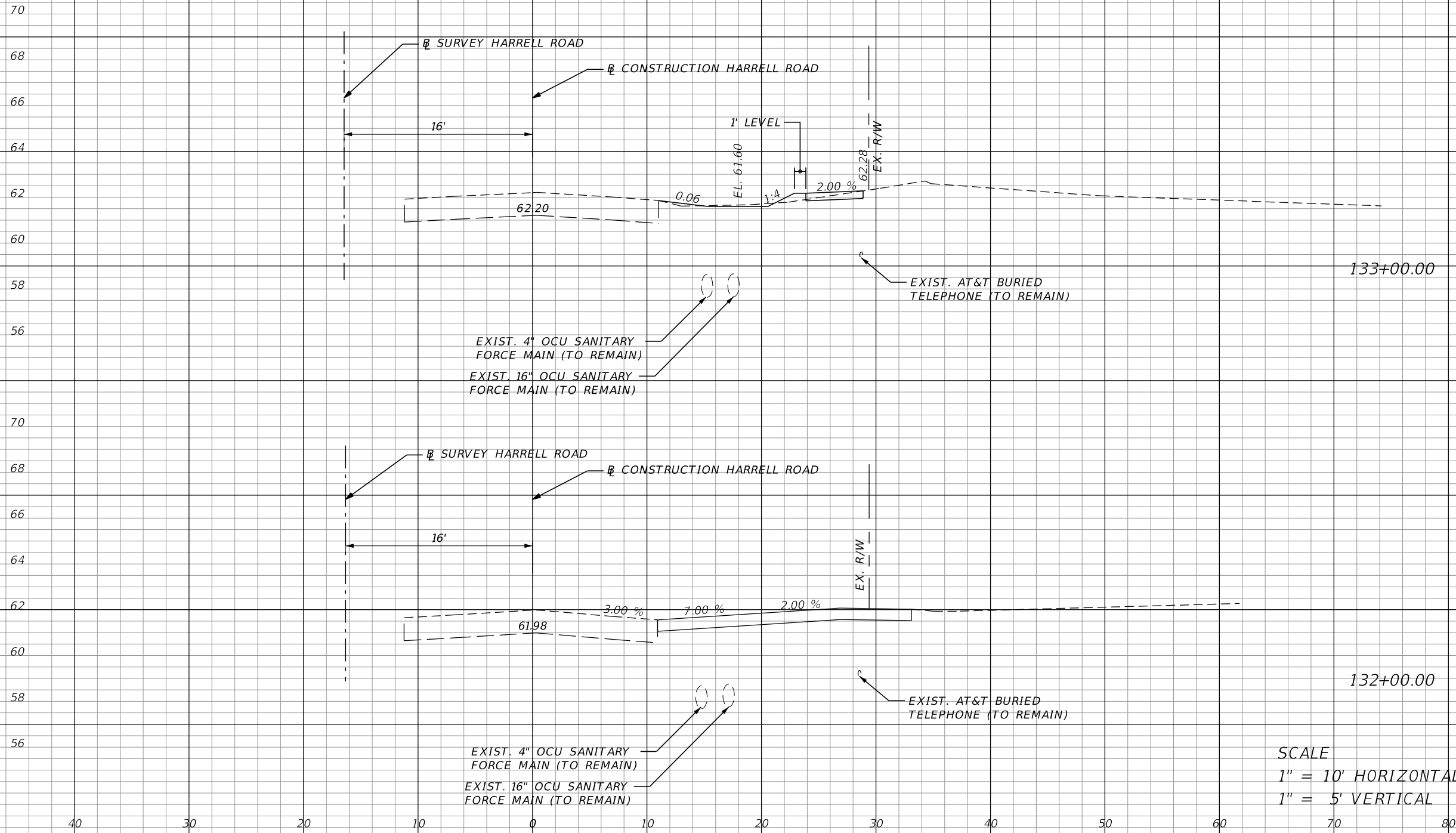
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CROSS SECTIONS

Regular		Exc.		Embankment	
A	V	A	V	A	V
			15.3		2.9
1.4				1.6	
			3.7		2.9
0.7				0.0	



SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

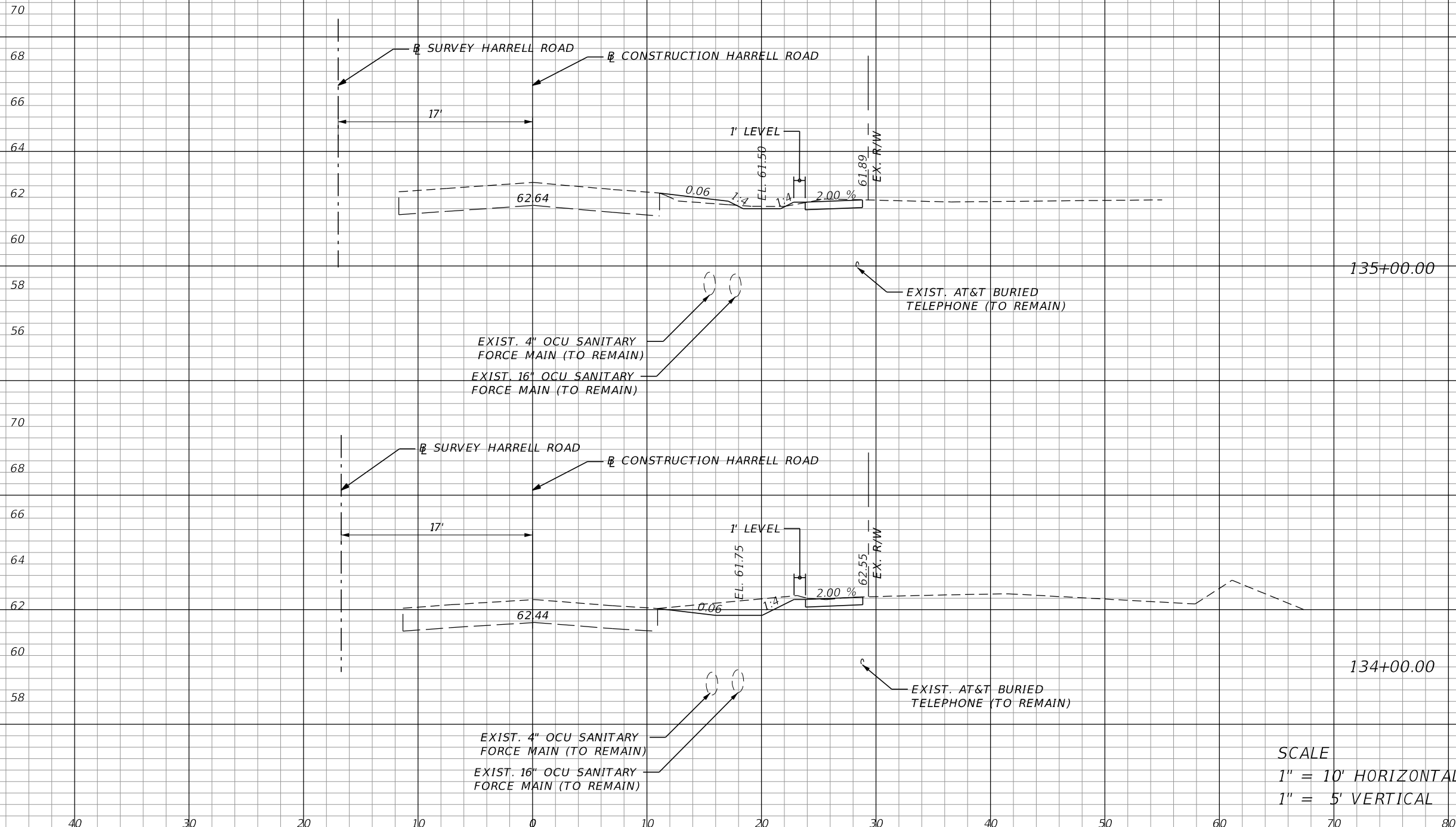
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CROSS SECTIONS

SHEET NO.
 33

Regular		Exc.		Embankment	
A	V	A	V	A	V
			9.0		2.8
2.1				1.2	
			16.6		2.3
6.9				0.0	



SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

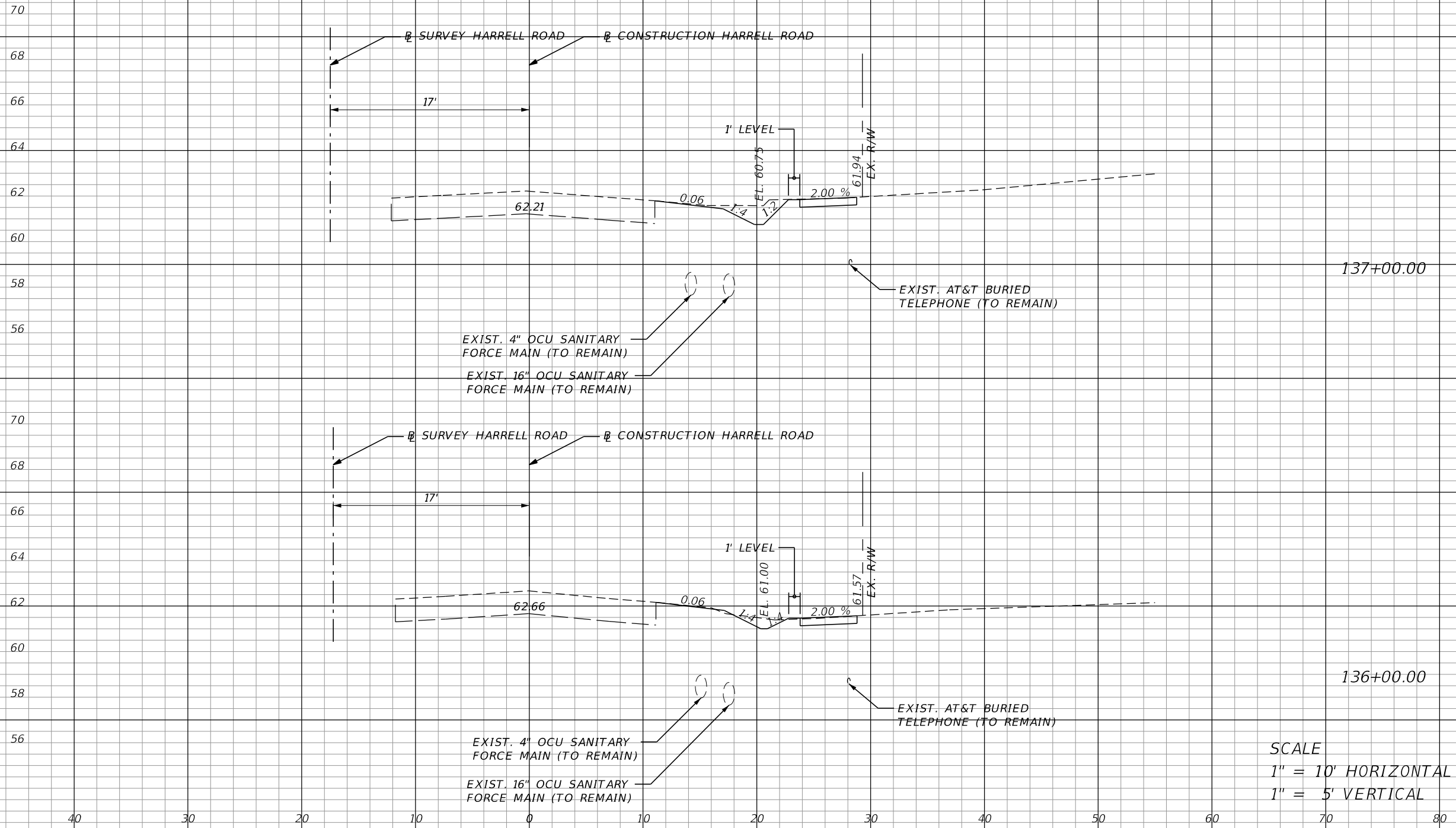
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CROSS SECTIONS

Regular		Exc.		Embankment	
A	V	A	V	A	V
			12.1		2.7
5.2		0.0			
			14.7		0.5
2.8		0.3			



SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

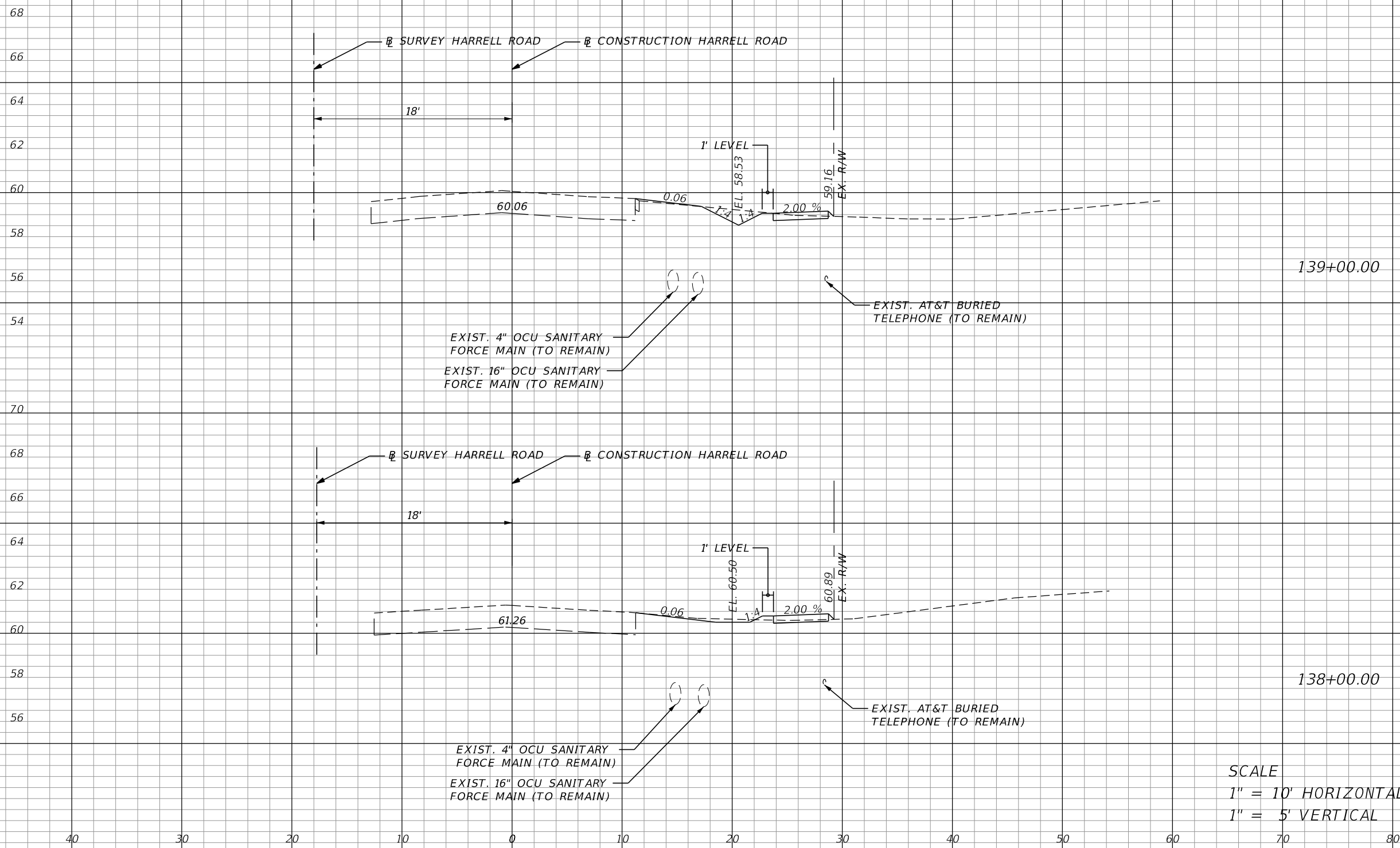
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CROSS SECTIONS

Regular		Exc.		Embankment	
A	V	A	V	A	V
			12.3		5.5
3.0		1.0			
	8.1				4.6
1.4		1.5			



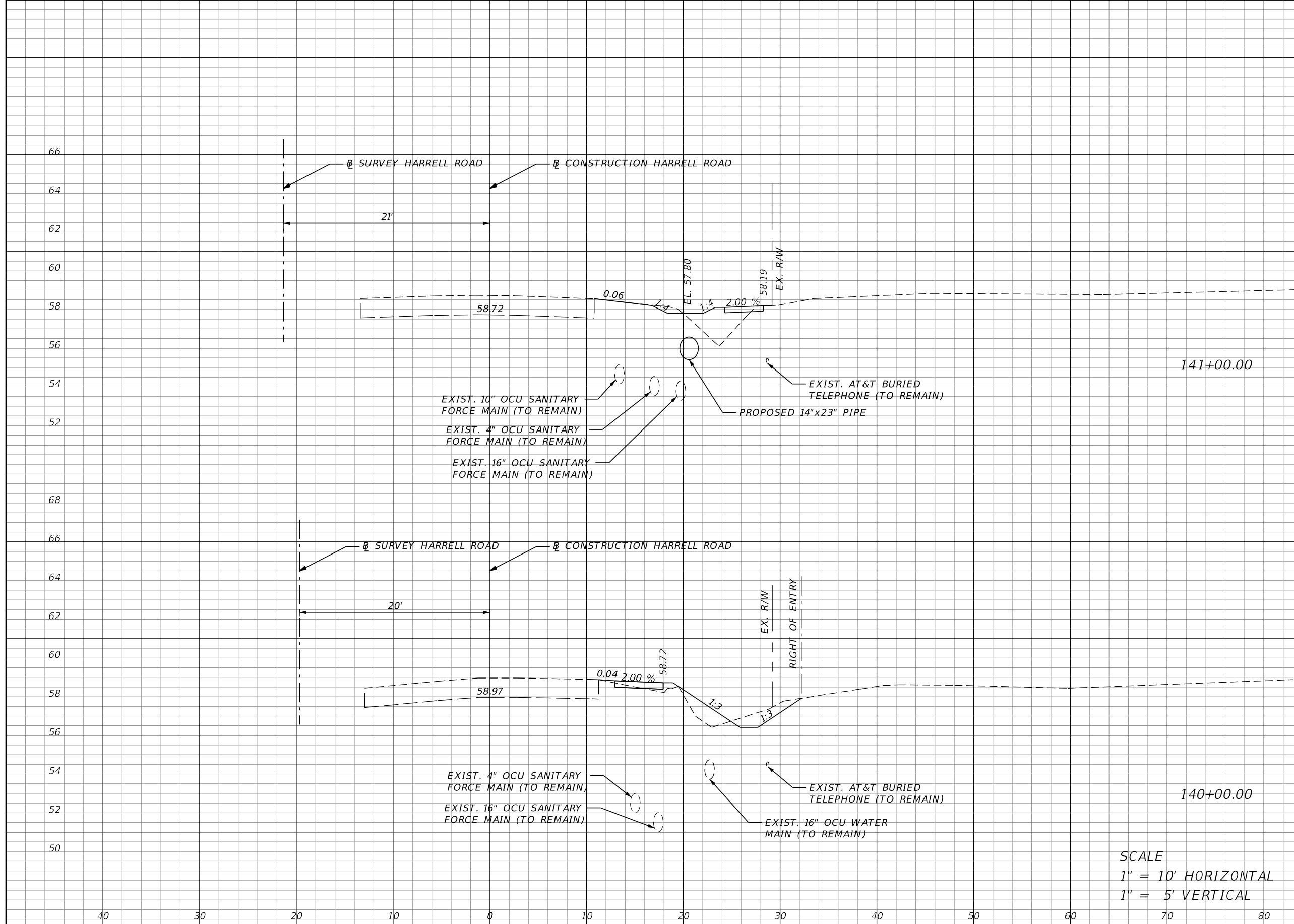
SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CROSS SECTIONS



Regular		Exc.		Embankment	
A	V	A	V	A	V
			2.9		14.3
1.2				7.1	
			9.0		16.8
3.7				2.0	

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898

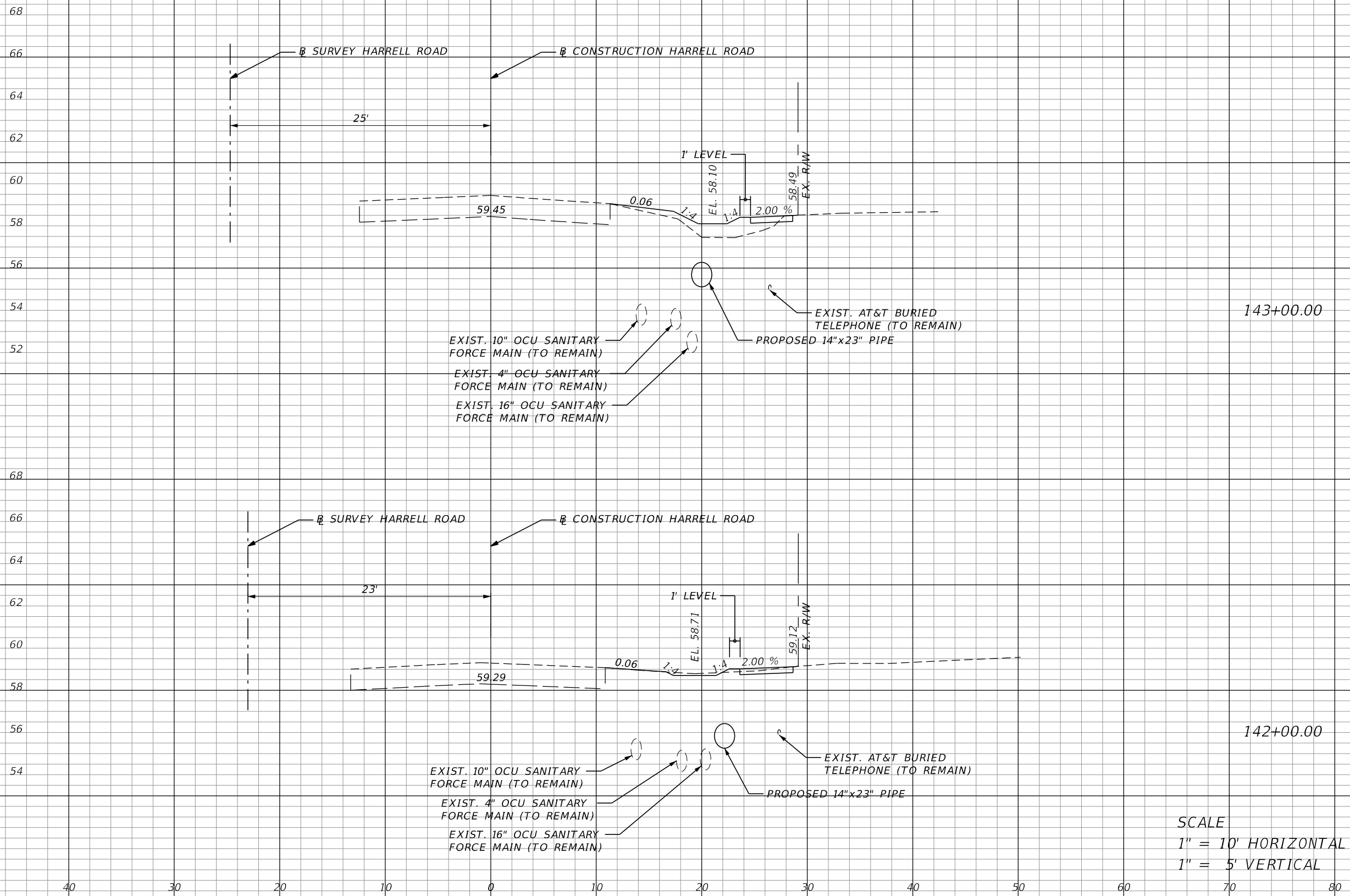
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CROSS SECTIONS

SHEET NO.
37

Regular		Exc.		Embankment	
A	V	A	V	A	V
			1.1		20.1
0.3			1.4		
			3.3		3.7
1.5			0.6		



SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

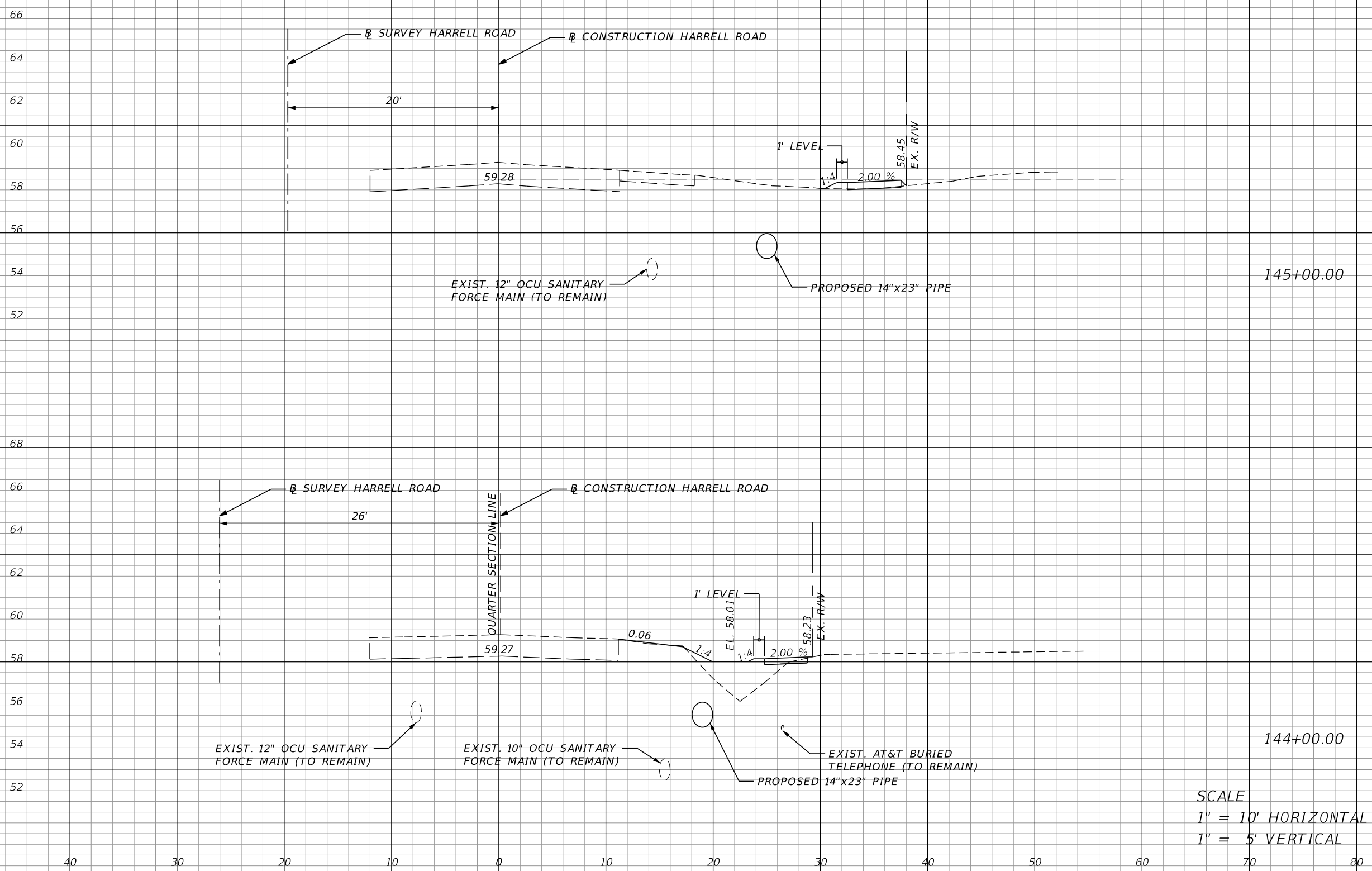
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CROSS SECTIONS

SHEET NO.
38

Regular		Exc.		Embankment	
A	V	A	V	A	V
			20.6		0.0
1.6			0.0		
	3.4				17.6
0.3			9.5		



SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

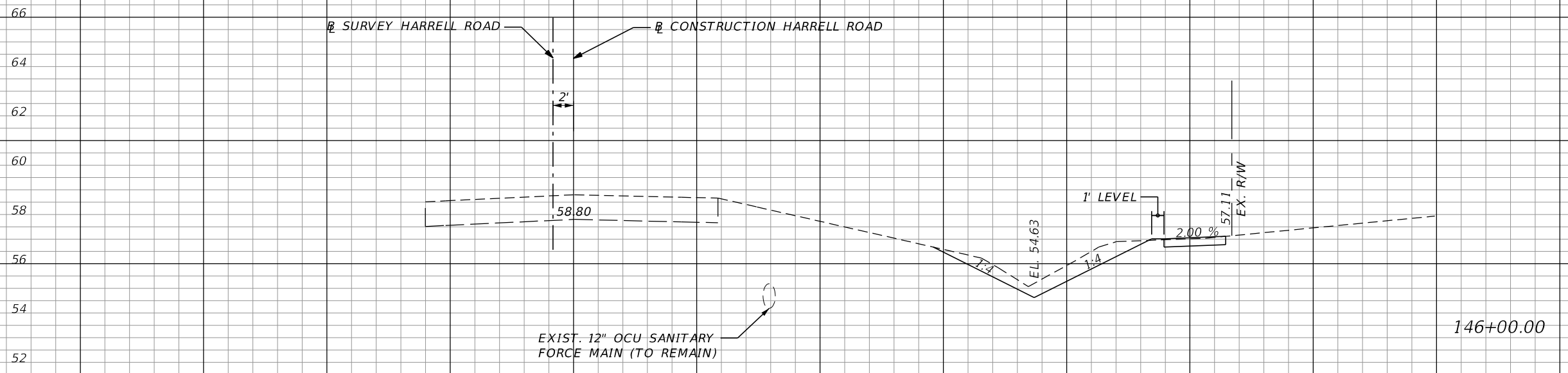
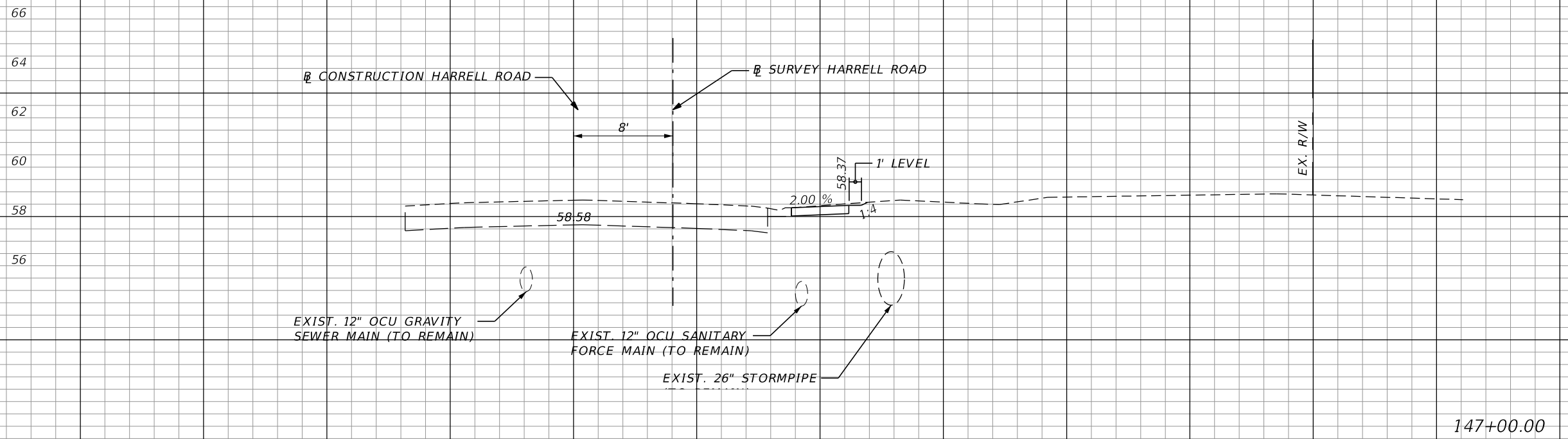
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CROSS SECTIONS

Regular		Exc.		Embankment	
A	V	A	V	A	V
			2.9		0.0
1.6				0.0	
			20.6		0.0
9.6				0.0	



SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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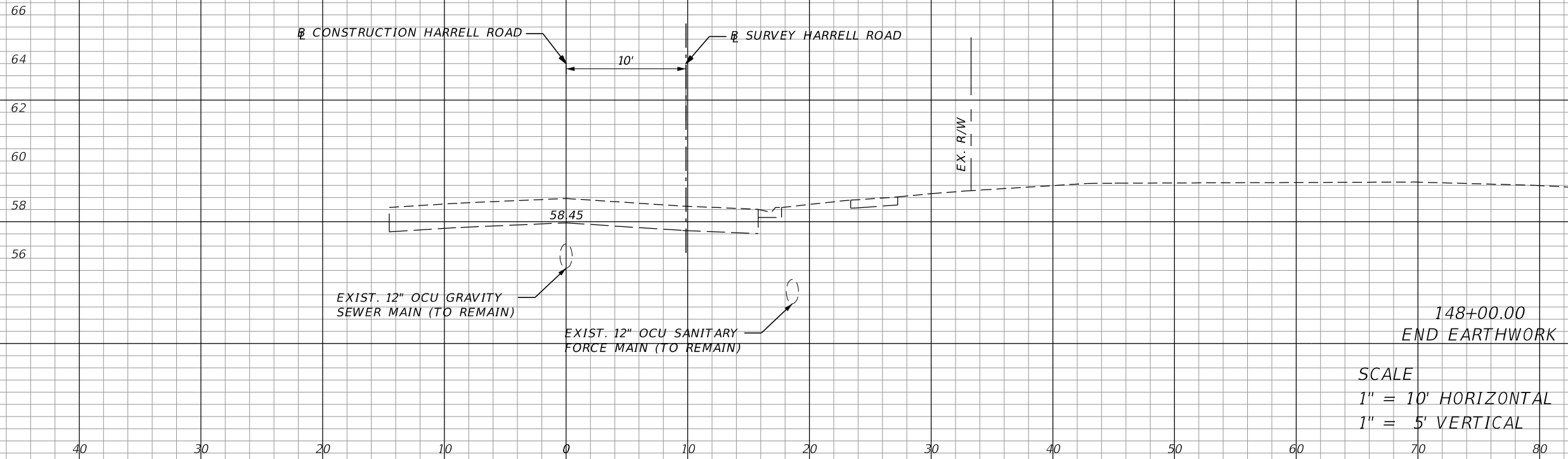
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CROSS SECTIONS

SHEET NO.
 40

SUMMARY OF EARTHWORK		
DESCRIPTION	CY	
	P	F
HARRELL ROAD		
EXCAVATION TOTAL	242.9	
EMBANKMENT TOTAL	659.5	
MISCELLANEOUS EXCAVATION	24.3	
MISCELLANEOUS EMBANKMENT	66.0	

Regular	Exc.	Embankment
A	V	A
0.0		0.0



SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

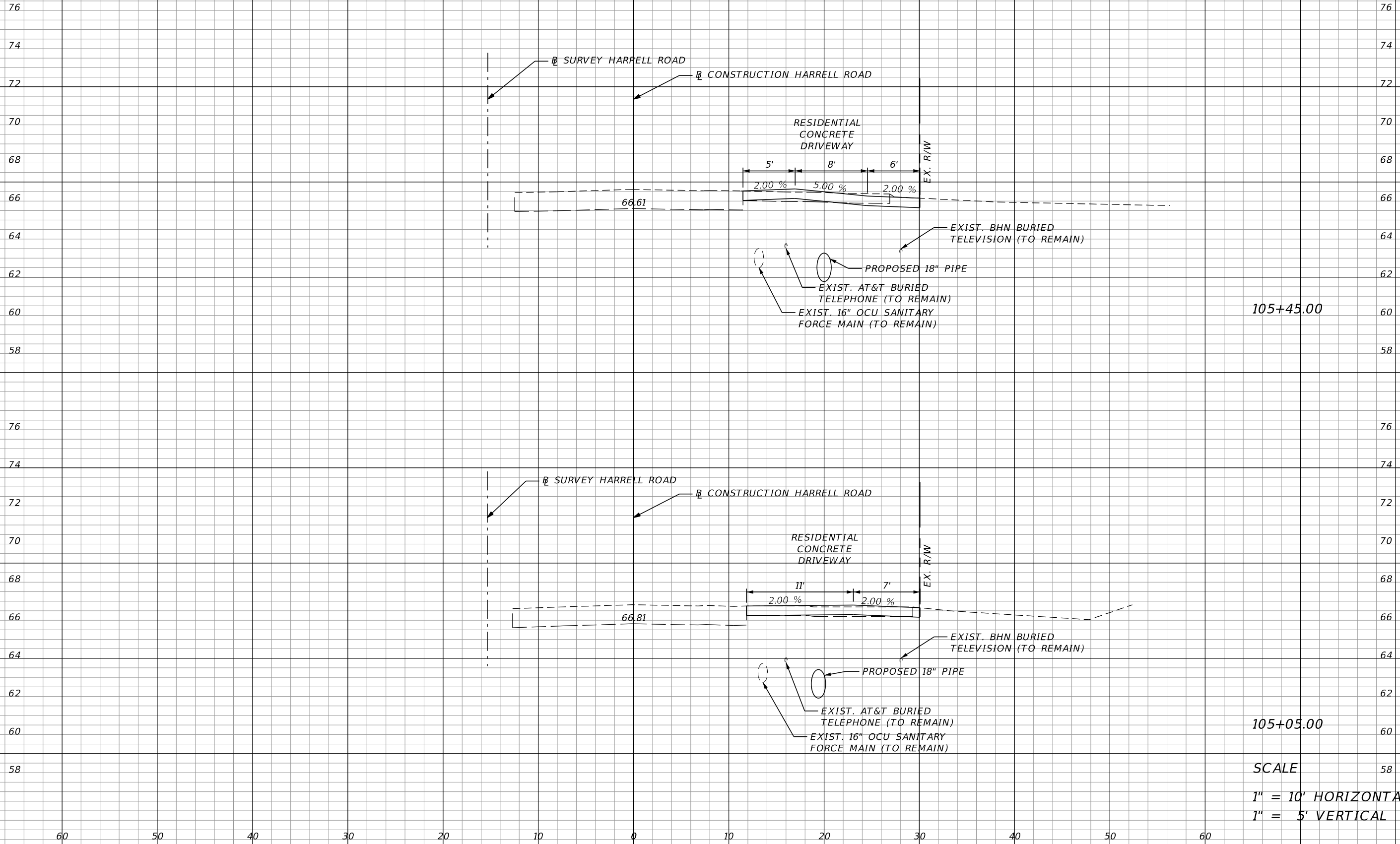
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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CROSS SECTIONS

SHEET NO.
 41



105+45.00

105+05.00

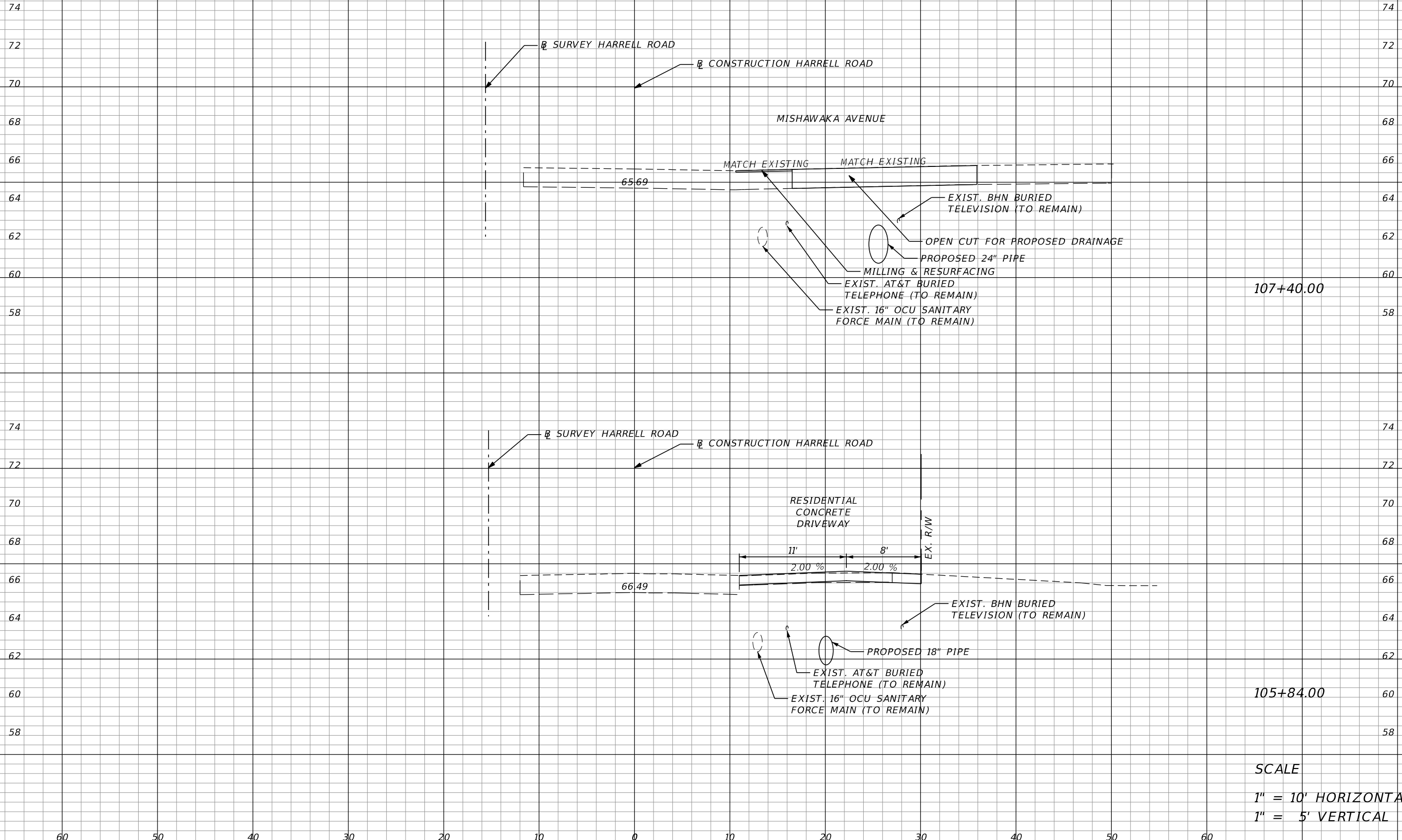
SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
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DRIVEWAY & SIDE STREET CROSS SECTIONS



107+40.00

105+84.00

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

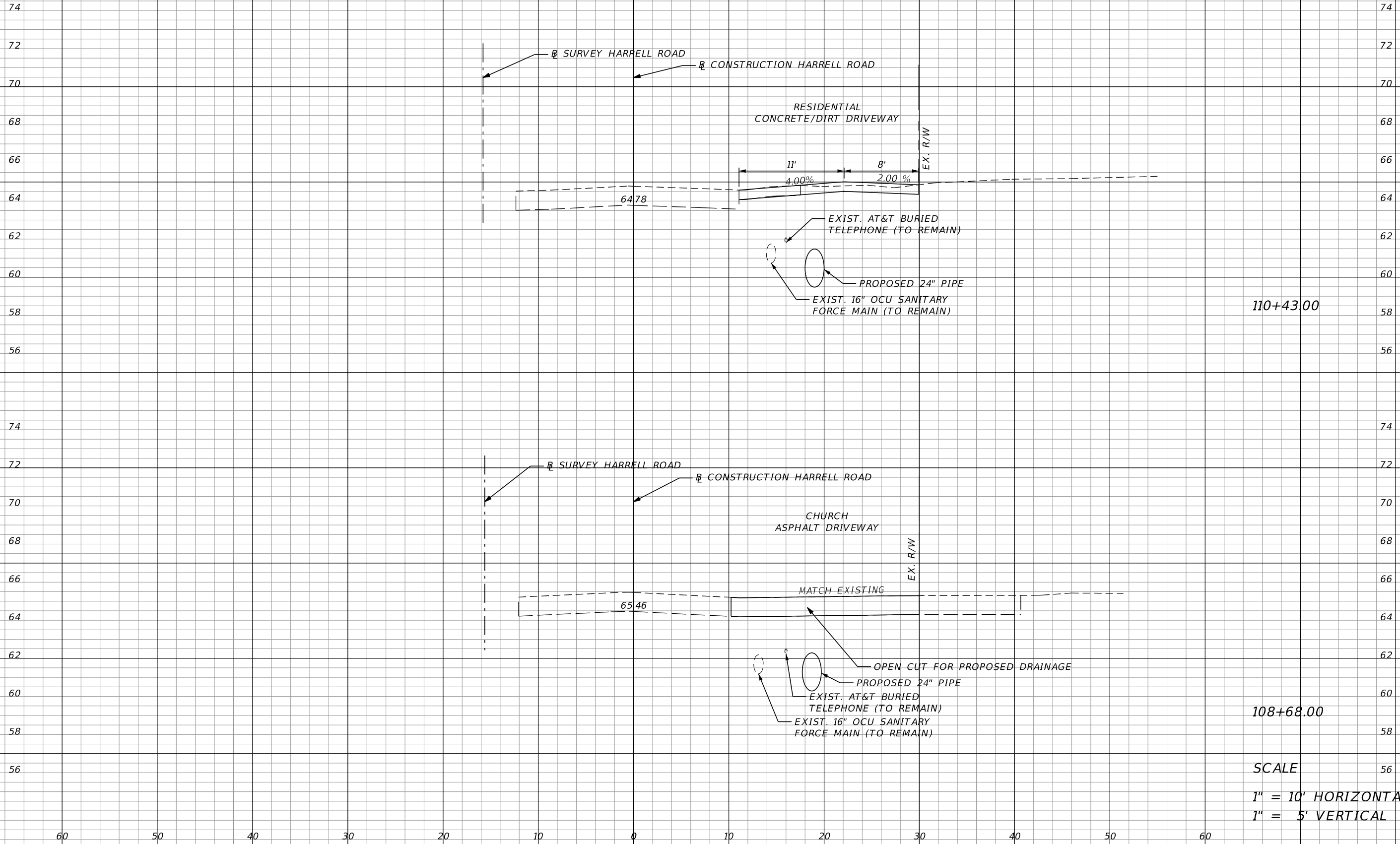
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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DRIVEWAY & SIDE STREET CROSS SECTIONS

SHEET NO.
 43



110+43.00

108+68.00

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

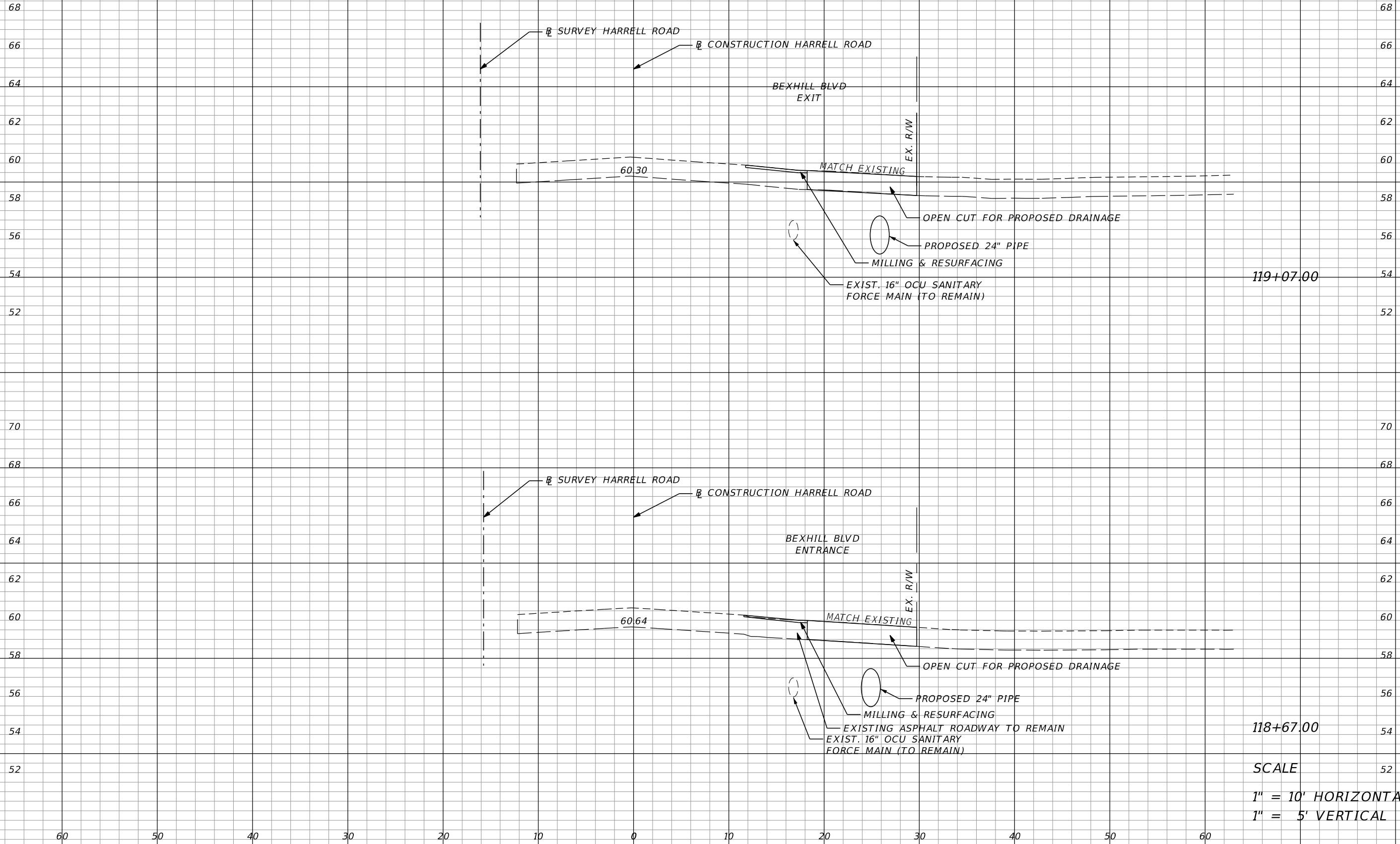
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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DRIVEWAY & SIDE STREET CROSS SECTIONS

SHEET NO.
 44



119+07.00

118+67.00

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

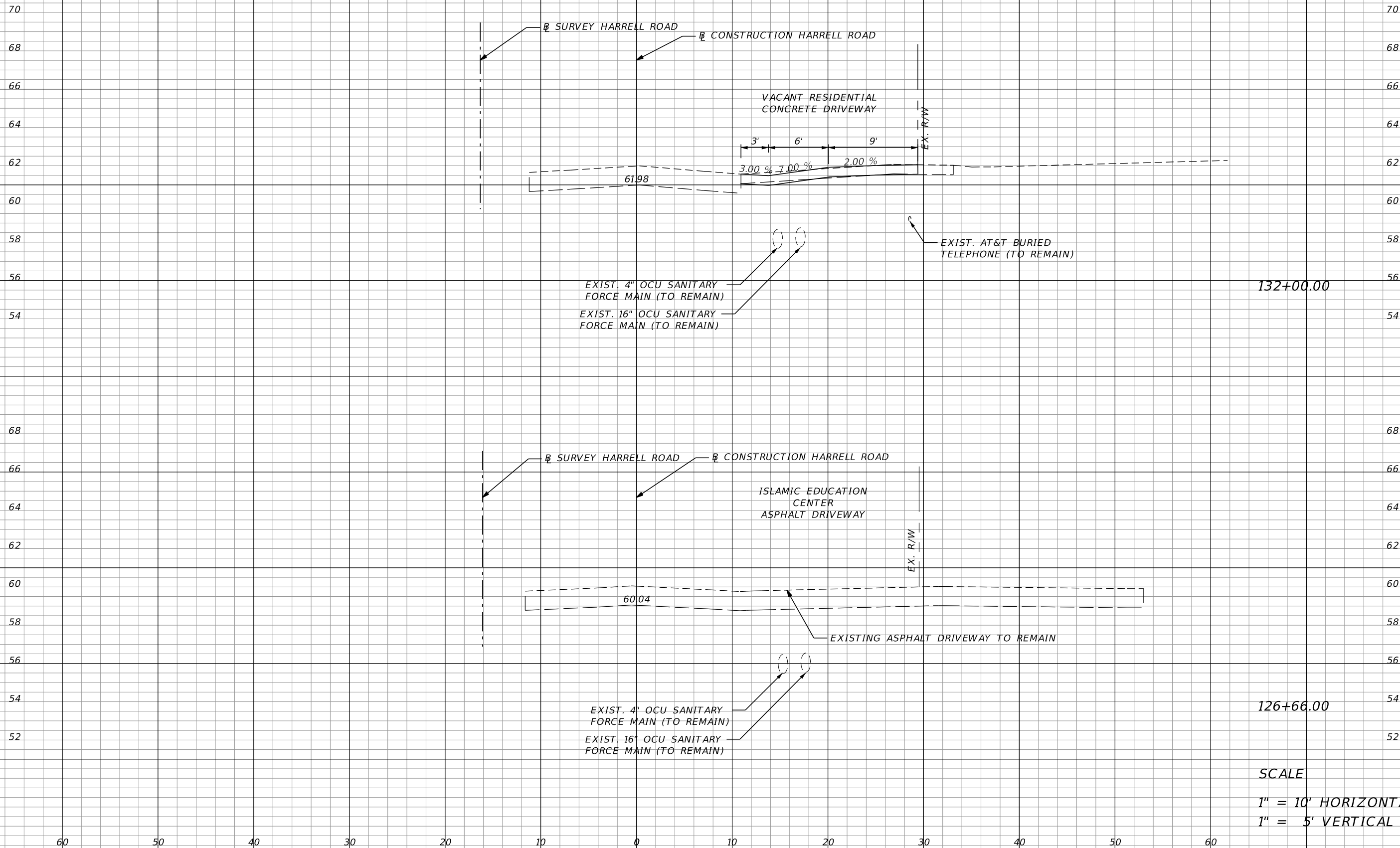
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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**DRIVEWAY & SIDE STREET
 CROSS SECTIONS**



132+00.00

126+66.00

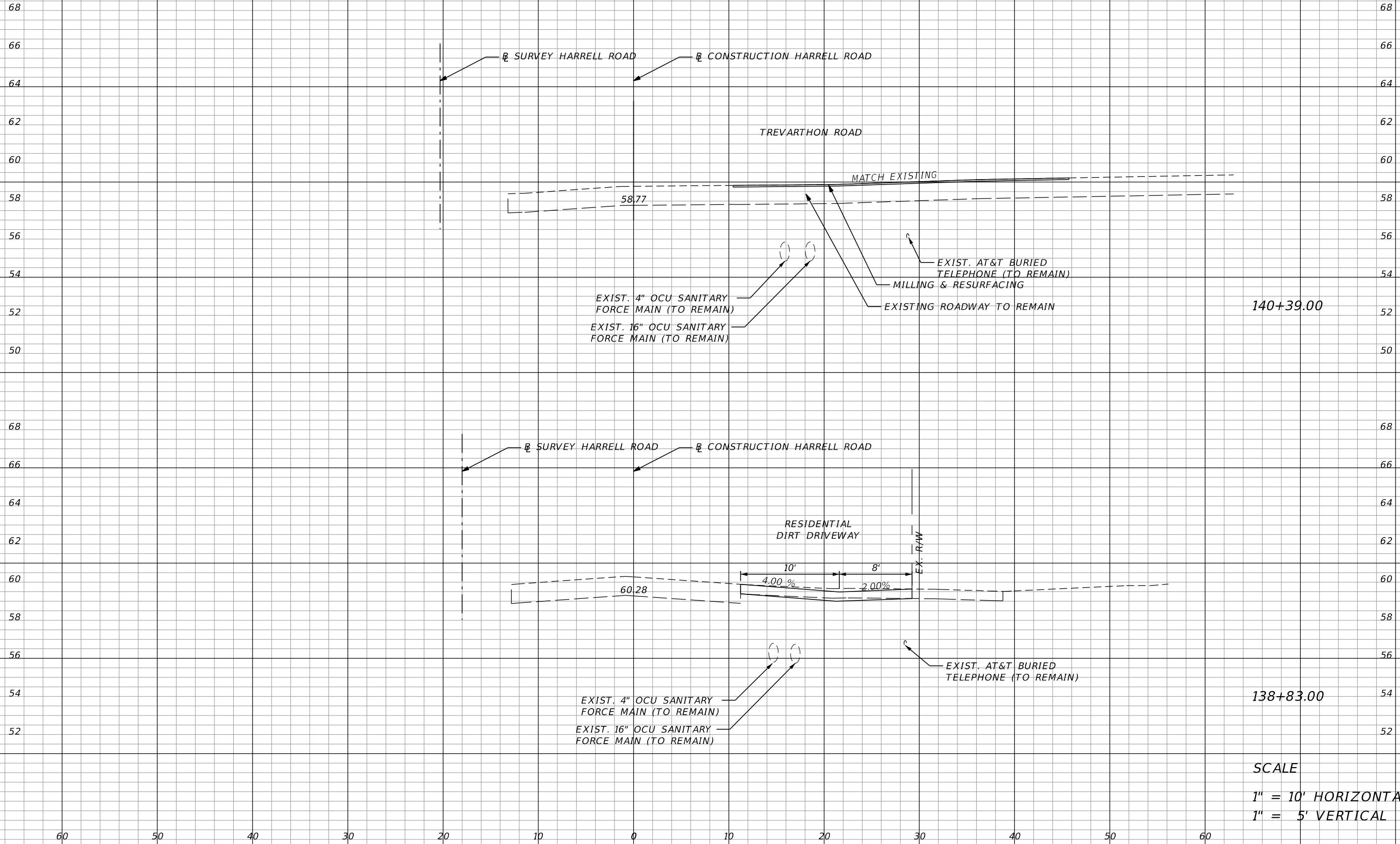
SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898
WBQ Design & Engineering
 201 N. Magnolia Ave. Suite 200
 Orlando FL 32801
 Phone 407.839.4300 Fax 407.839.1621
 CERTIFICATE OF AUTHORIZATION NO. 6796

ORANGE COUNTY GOVERNMENT
 ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

DRIVEWAY & SIDE STREET CROSS SECTIONS



140+39.00

138+83.00

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

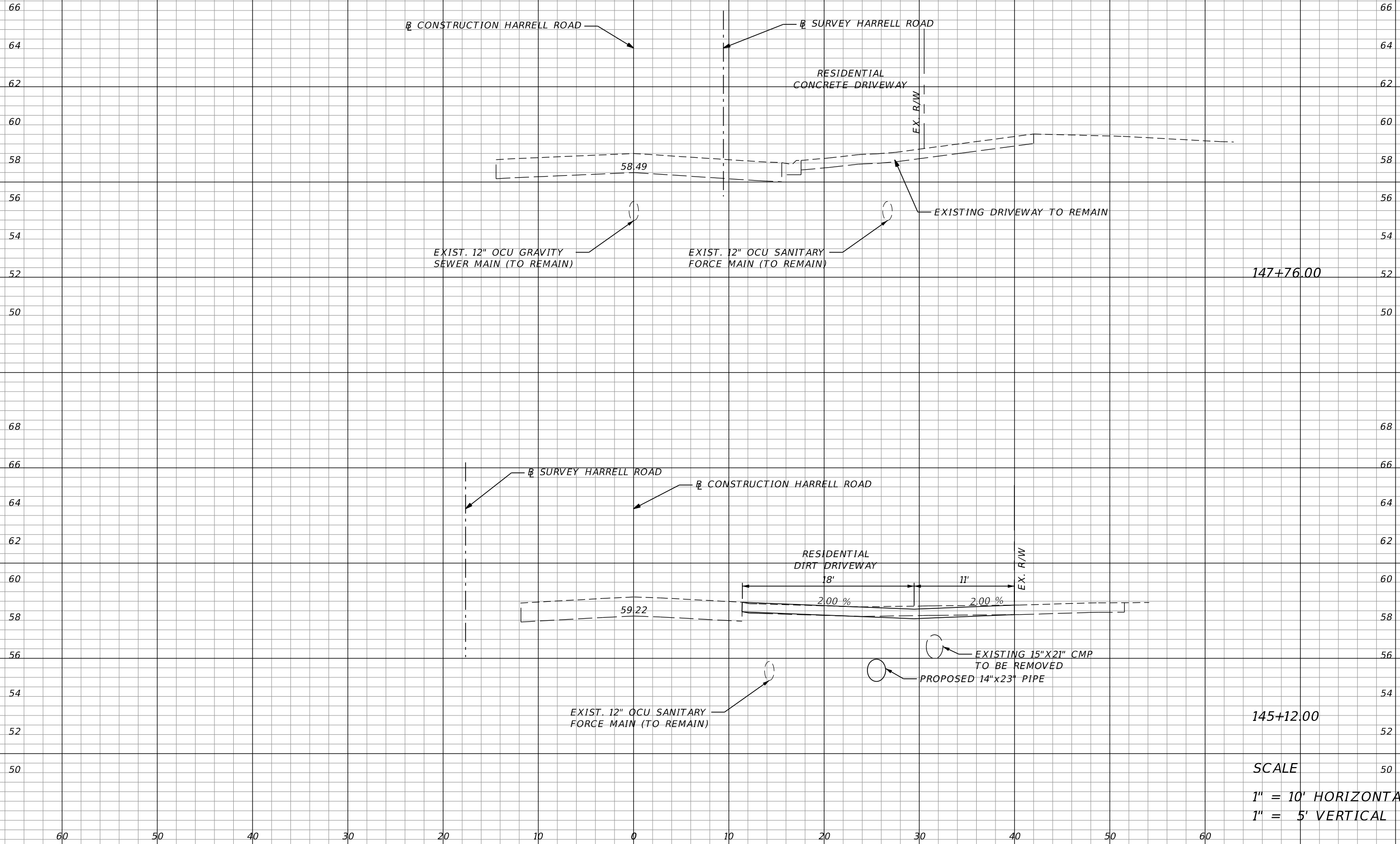
REVISIONS			
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 ENGINEERING DIVISION
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 ORLANDO, FLORIDA 32839
 (407) 836-7900

DRIVEWAY & SIDE STREET CROSS SECTIONS

SHEET NO.
 47



147+76.00

145+12.00

SCALE
 1" = 10' HORIZONTAL
 1" = 5' VERTICAL

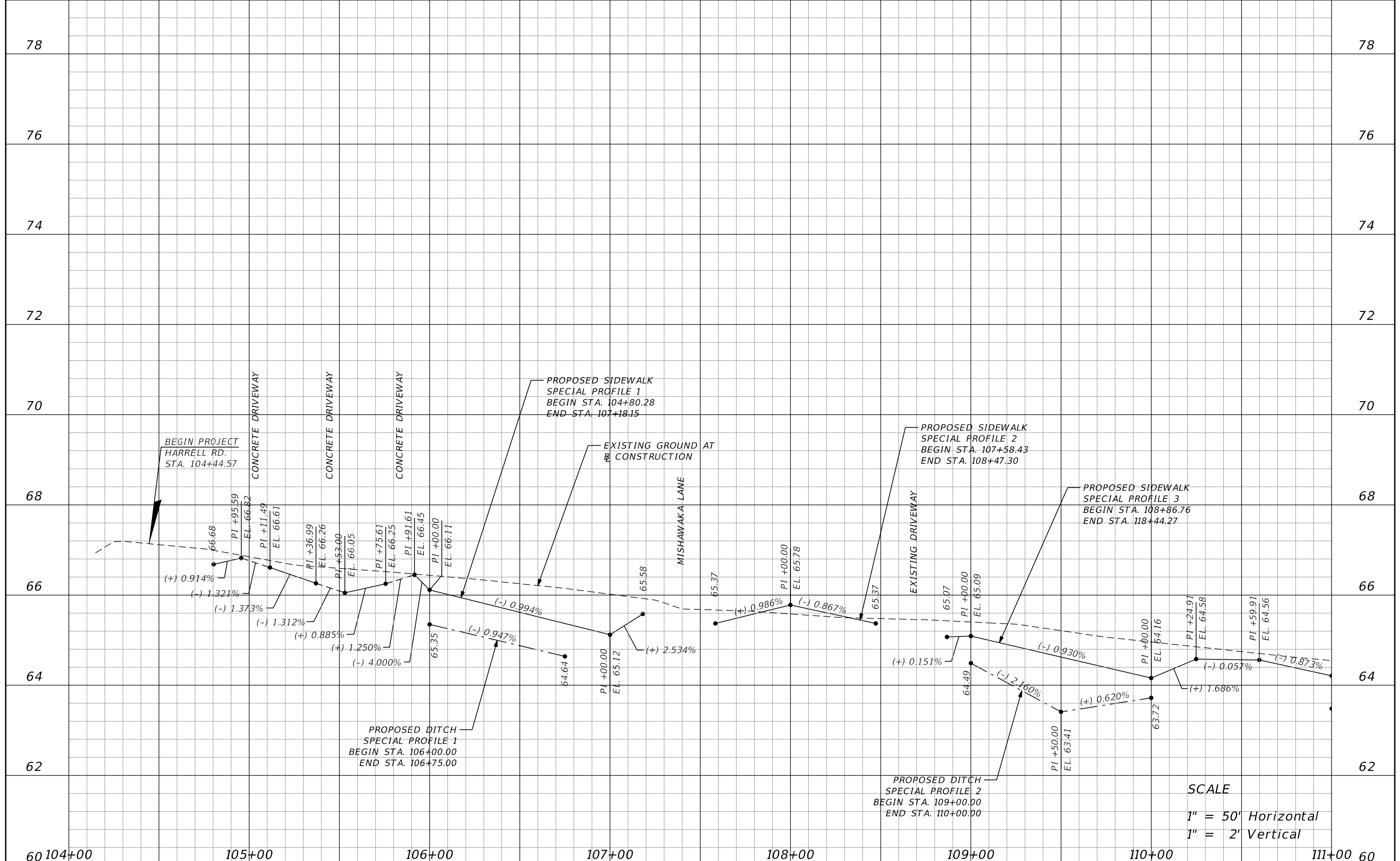
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DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898
WBQ
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 ORLANDO, FLORIDA 32839
 (407) 836-7900

DRIVEWAY & SIDE STREET CROSS SECTIONS

SHEET NO.
 48



SCALE
 1" = 50' Horizontal
 1" = 2' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898

WBQ INC.
 201 N. Magnolia Ave.
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 Orlando FL 32801
 Phone 407.839.4300
 Fax 407.839.1621

CERTIFICATE OF AUTHORIZATION NO. 6796

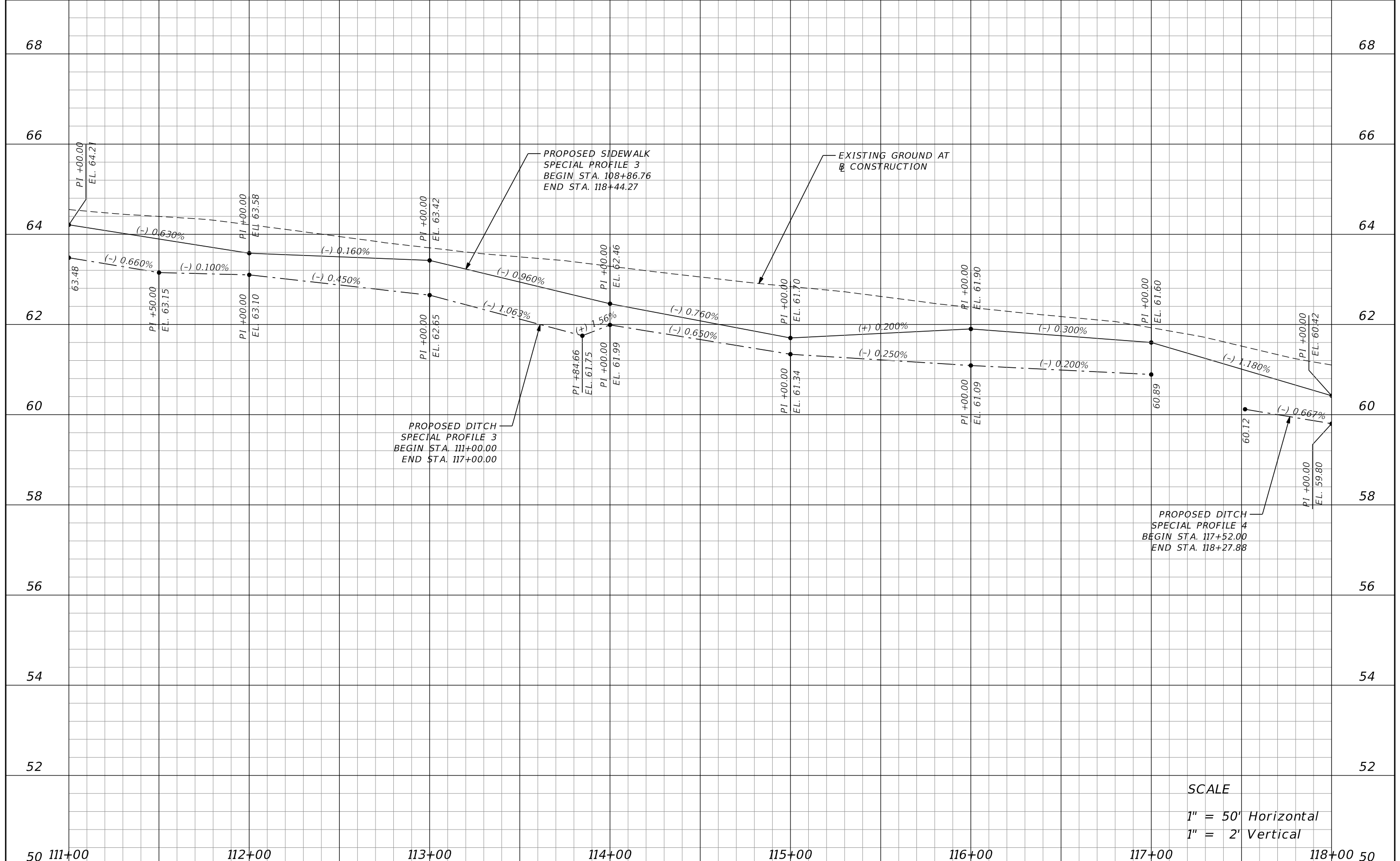
ORANGE COUNTY GOVERNMENT

ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS

ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

BACK OF SIDEWALK & DITCH PROFILES

SHEET NO. 49



SCALE
 1" = 50' Horizontal
 1" = 2' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898

WBQ INC.
 201 N. Magnolia Ave.
 Suite 200
 Orlando FL 32801
 Phone 407.839.4300
 Fax 407.839.1621

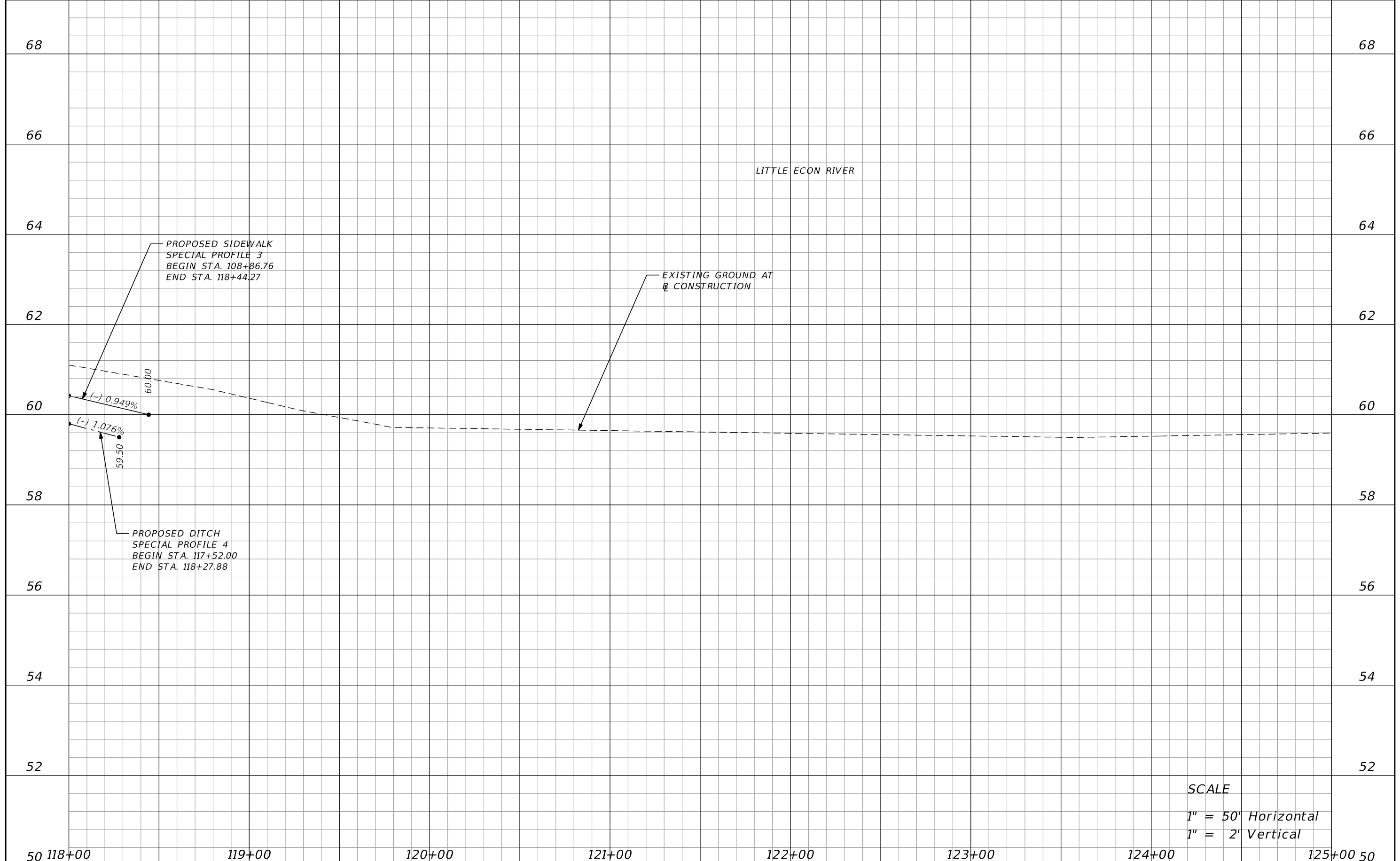
CERTIFICATE OF AUTHORIZATION NO. 6796

ORANGE COUNTY GOVERNMENT



ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
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 (407) 836-7900

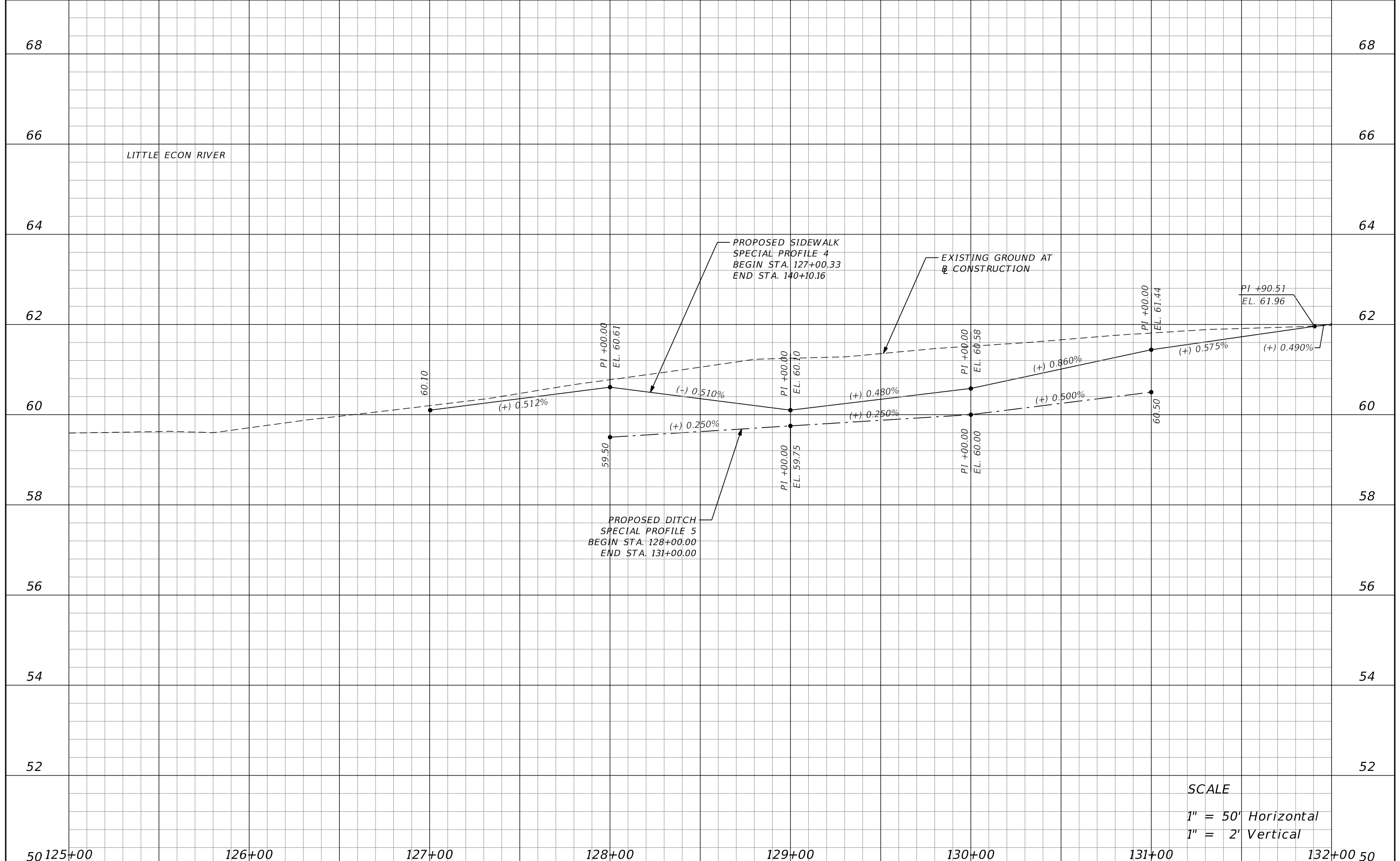
BACK OF SIDEWALK & DITCH PROFILES

SHEET NO. 50



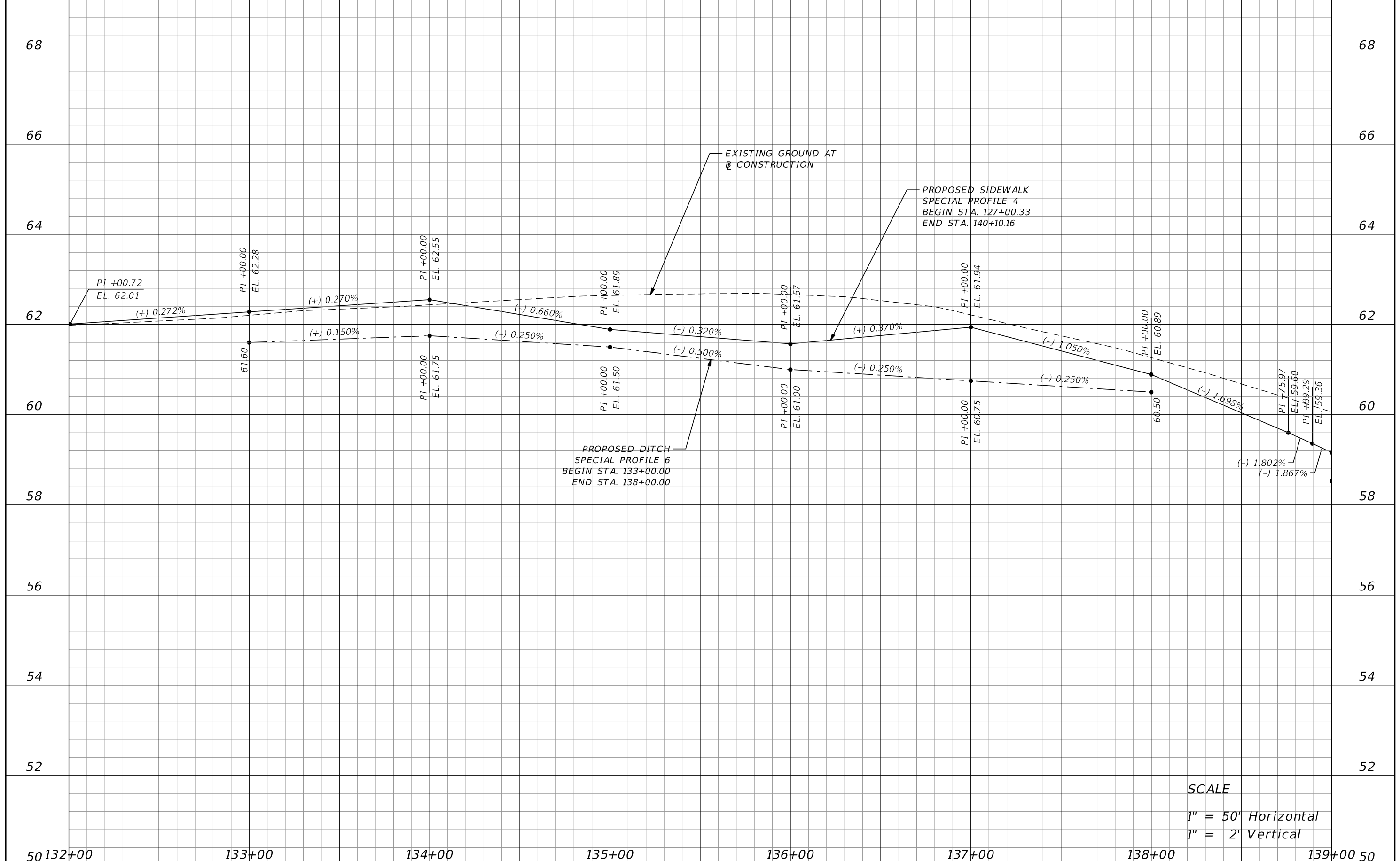
SCALE
 1" = 50' Horizontal
 1" = 2' Vertical

50	118+00	119+00	120+00	121+00	122+00	123+00	124+00	125+00	50												
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REVISIONS																					
DATE	DESCRIPTION	DATE	DESCRIPTION																		
				DEREK C. BURKE, P.E. LICENSE NO. 40898 201 N. Magnolia Ave. Suite 200 Orlando FL 32801 Phone 407.839.4300 Fax 407.839.1621 CERTIFICATE OF AUTHORIZATION NO. 6796				ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION 4200 SOUTH JOHN YOUNG PARKWAY ORLANDO, FLORIDA 32839 (407) 836-7900		BACK OF SIDEWALK & DITCH PROFILES	SHEET NO. 51										
estewart 10/1/2014 11:56:25 AM P:\110RA.HARR\Y8-905B_Harr\roadway\prof rd03.dgn																					



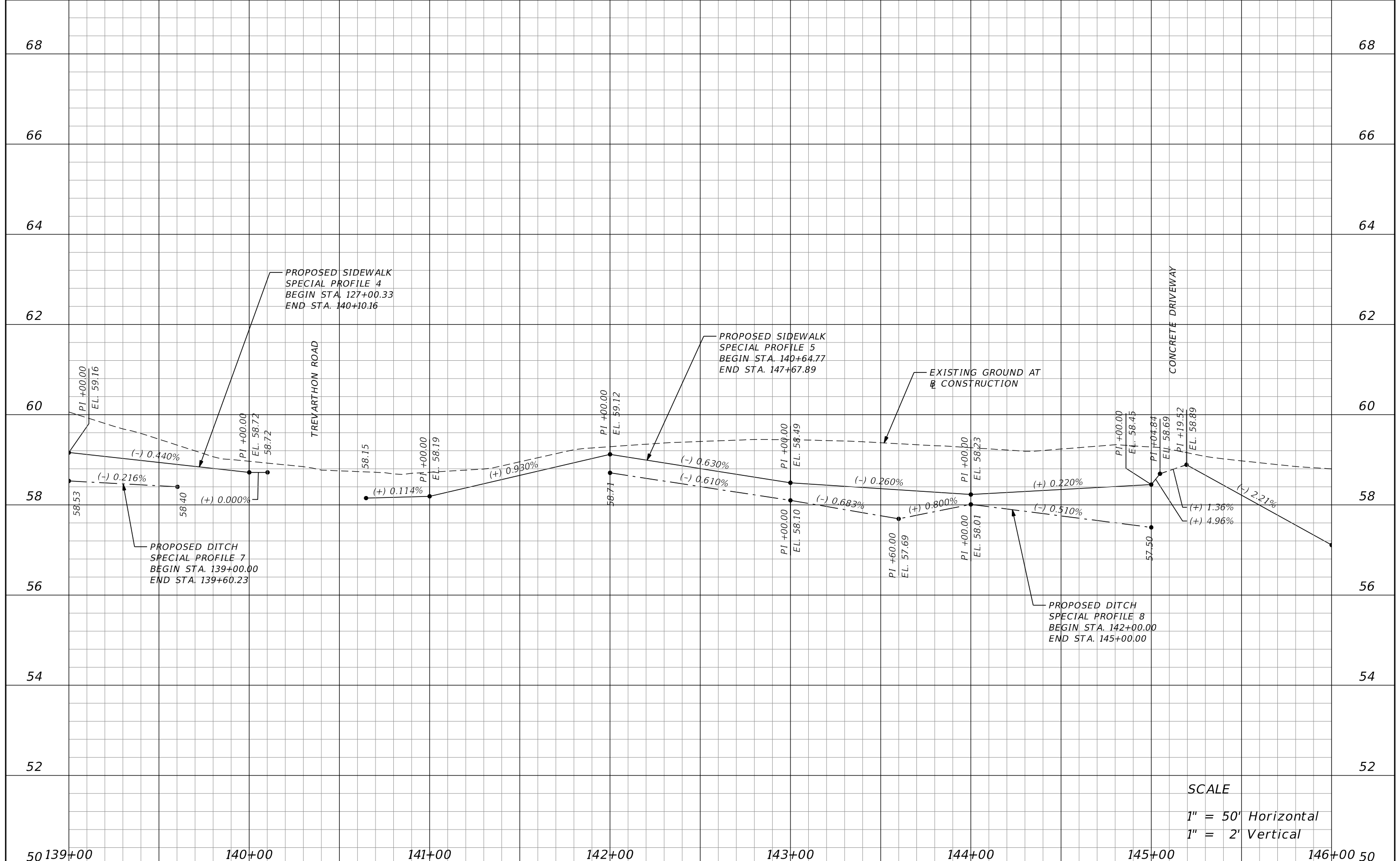
SCALE
 1" = 50' Horizontal
 1" = 2' Vertical

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REVISIONS																					
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DEREK C. BURKE, P.E. LICENSE NO. 40898 						ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION 4200 SOUTH JOHN YOUNG PARKWAY ORLANDO, FLORIDA 32839 (407) 836-7900		BACK OF SIDEWALK & DITCH PROFILES		SHEET NO. 52											



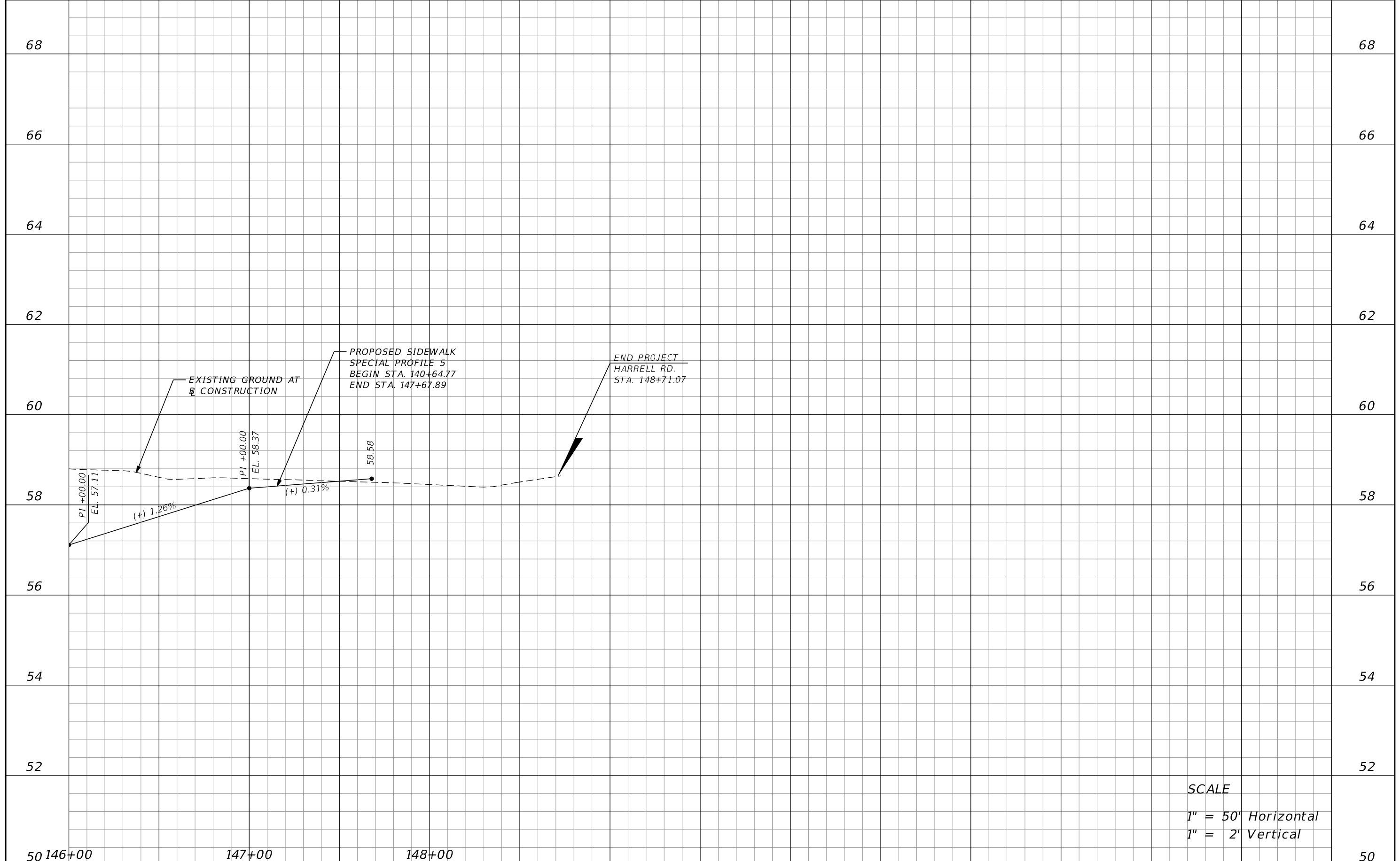
SCALE
 1" = 50' Horizontal
 1" = 2' Vertical

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REVISIONS																					
DATE	DESCRIPTION	DATE	DESCRIPTION																		
DEREK C. BURKE, P.E. LICENSE NO. 40898 : 201 N. Magnolia Ave. Suite 200 Orlando FL 32801 Phone 407.839.4300 Fax 407.839.1621 CERTIFICATE OF AUTHORIZATION NO. 6796				ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION 4200 SOUTH JOHN YOUNG PARKWAY ORLANDO, FLORIDA 32839 (407) 836-7900		BACK OF SIDEWALK & DITCH PROFILES				SHEET NO. 53											



SCALE
1" = 50' Horizontal
1" = 2' Vertical

50	139+00	140+00	141+00	142+00	143+00	144+00	145+00	146+00	50												
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DEREK C. BURKE, P.E. LICENSE NO. 40898 						ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION 4200 SOUTH JOHN YOUNG PARKWAY ORLANDO, FLORIDA 32839 (407) 836-7900		BACK OF SIDEWALK & DITCH PROFILES		SHEET NO. 54											



SCALE
1" = 50' Horizontal
1" = 2' Vertical

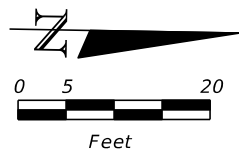
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898
WBQ : 201 N. Magnolia Ave.
 Suite 200
 Orlando FL 32801
 Phone 407.839.4300
 Design & Engineering Fax 407.839.1621
 CERTIFICATE OF AUTHORIZATION NO. 6796

ORANGE COUNTY GOVERNMENT
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 ENGINEERING DIVISION
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 ORLANDO, FLORIDA 32839
 (407) 836-7900

BACK OF SIDEWALK & DITCH PROFILES

SHEET NO.
55

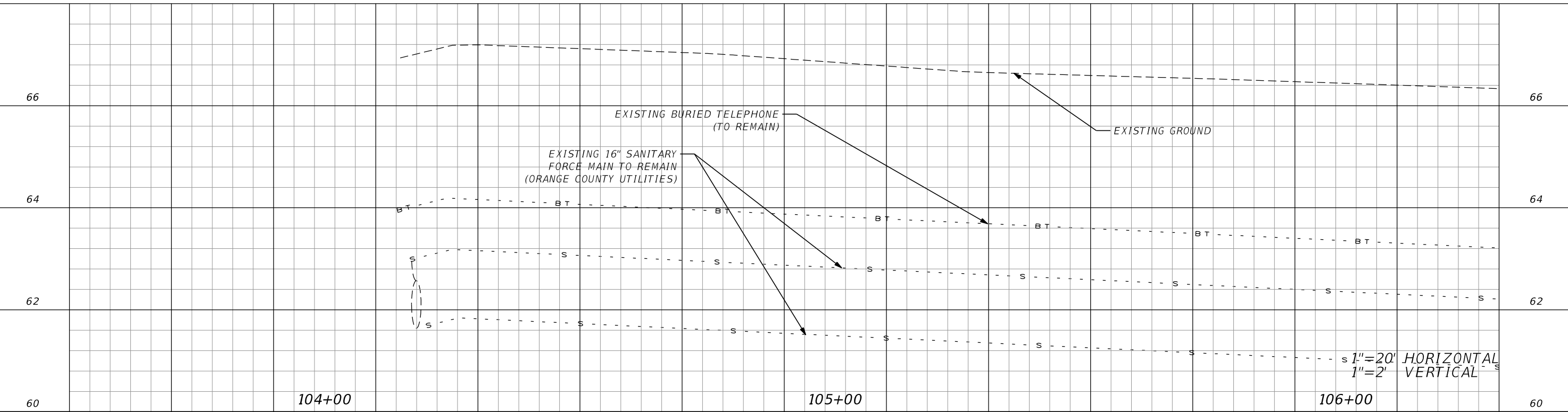
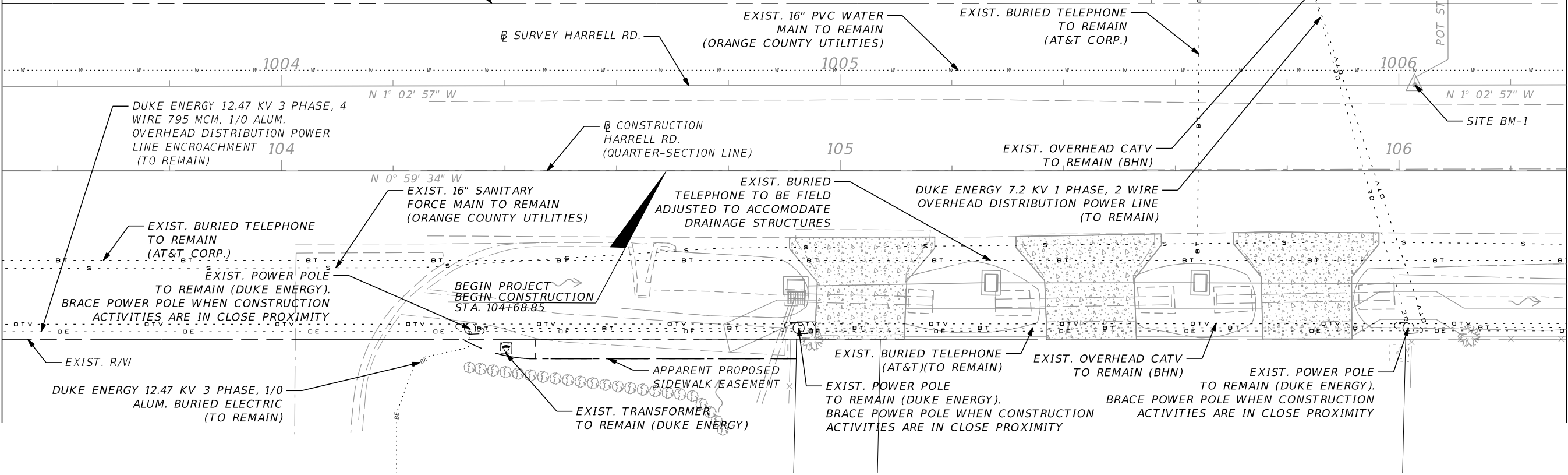


SITE BM-1
 SET 1" IRON PIPE W/ O.C.
 TRAVERSE CAP & P.K. NAIL
 N: 1539966.123
 E: 569648.621
 ELVATION: 66.01'

SITE BM-2
 SET 1" IRON PIPE W/ O.C.
 TRAVERSE CAP & P.K. NAIL
 N: 1540568.897
 E: 569637.583
 ELVATION: 63.57'

MATCH LINE STA. 103+50.00

MATCH LINE STA. 106+30.00



1" = 20' HORIZONTAL
 1" = 2' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898

 201 N. Magnolia Ave. Suite 200
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 Phone 407.839.4300 Fax 407.839.1621
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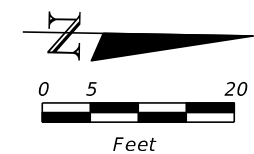
ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

UTILITY ADJUSTMENT SHEETS

SHEET NO.
 56

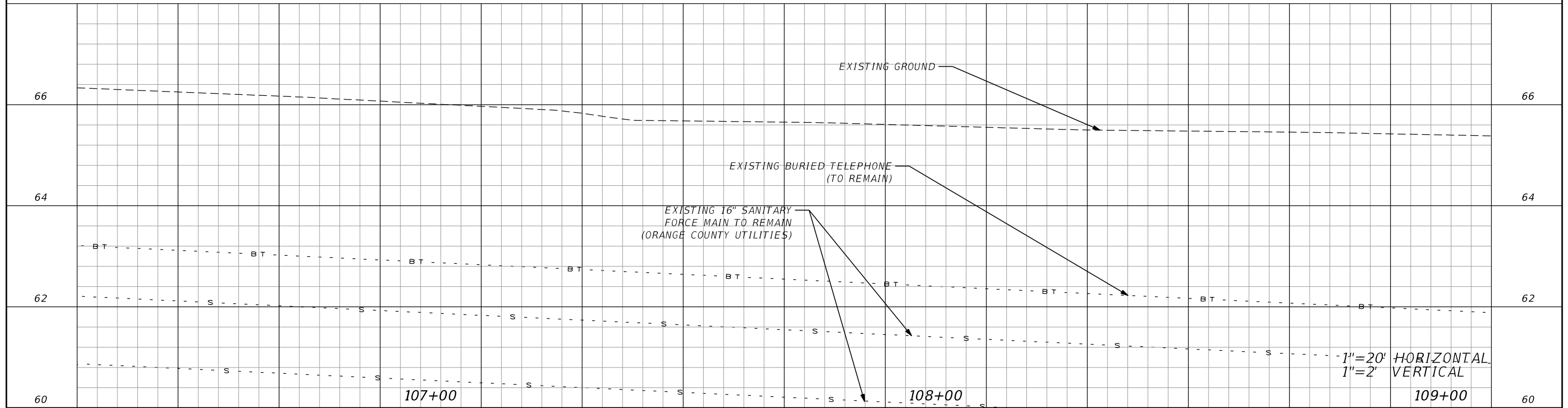
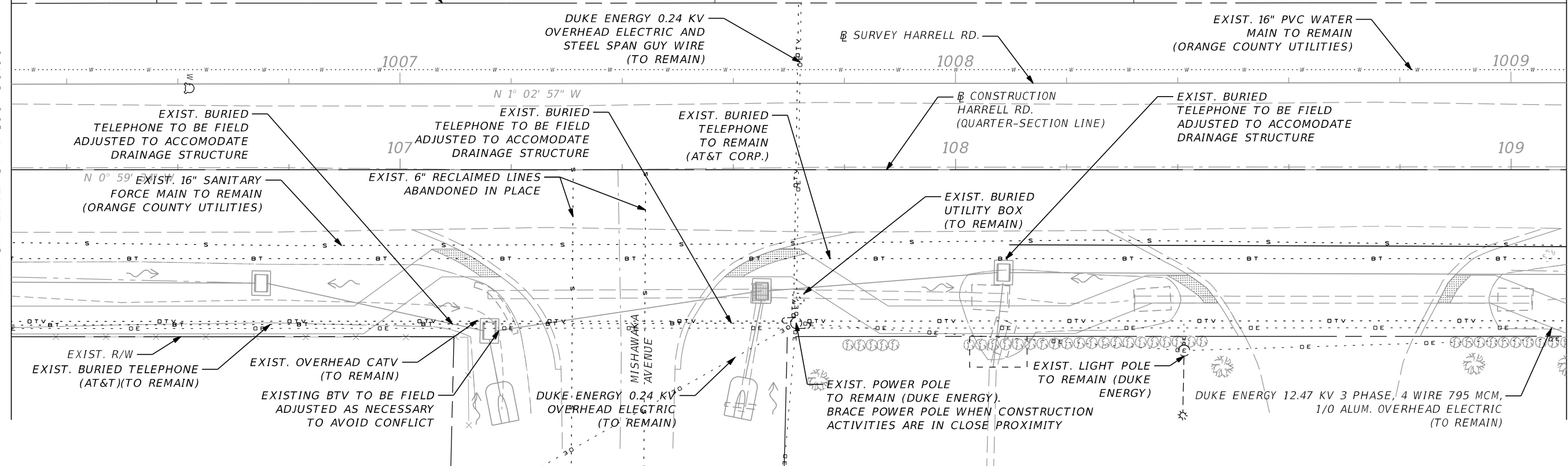
MATCH LINE STA. 106+30.00

MATCH LINE STA. 109+10.00



SITE BM-1
SET 1" IRON PIPE W/ O.C.
TRAVERSE CAP & P.K. NAIL
N: 1539966.123
E: 569648.621
ELVATION: 66.01'

SITE BM-2
SET 1" IRON PIPE W/ O.C.
TRAVERSE CAP & P.K. NAIL
N: 1540568.897
E: 569637.583
ELVATION: 63.57'



1"=20' HORIZONTAL
1"=2' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898

 201 N. Magnolia Ave. Suite 200
 Orlando FL 32801
 Phone 407.839.4300 Fax 407.839.1621
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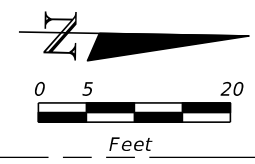
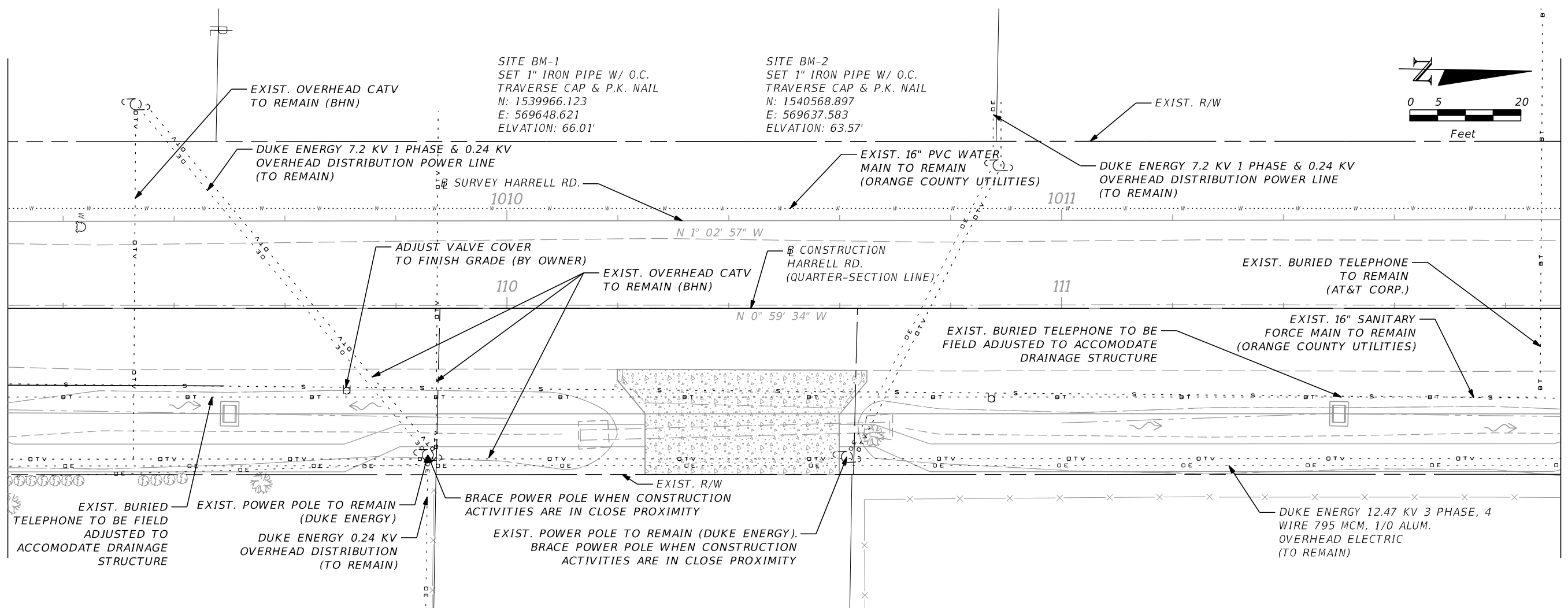
ORANGE COUNTY
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

UTILITY ADJUSTMENT SHEETS

SHEET NO. 57

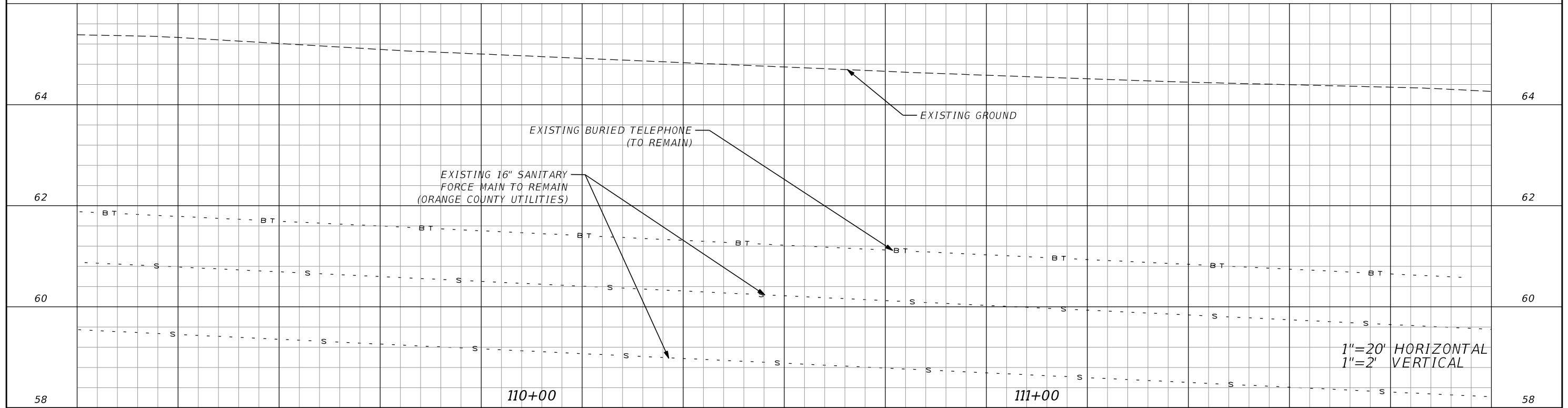
MATCH LINE STA. 109+10.00

MATCH LINE STA. 111+90.00



SITE BM-1
SET 1" IRON PIPE W/ O.C.
TRAVERSE CAP & P.K. NAIL
N: 1539966.123
E: 569648.621
ELVATION: 66.01'

SITE BM-2
SET 1" IRON PIPE W/ O.C.
TRAVERSE CAP & P.K. NAIL
N: 1540568.897
E: 569637.583
ELVATION: 63.57'



1"=20' HORIZONTAL
1"=2' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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WBQ
Design & Engineering
CERTIFICATE OF AUTHORIZATION NO. 6796

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Fax 407.839.1621

ORANGE COUNTY GOVERNMENT

ORANGE COUNTY
DEPARTMENT OF PUBLIC WORKS

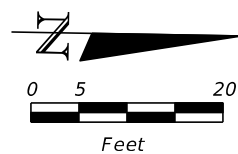
ENGINEERING DIVISION
4200 SOUTH JOHN YOUNG PARKWAY
ORLANDO, FLORIDA 32839
(407) 836-7900

UTILITY ADJUSTMENT SHEETS

SHEET NO. 58

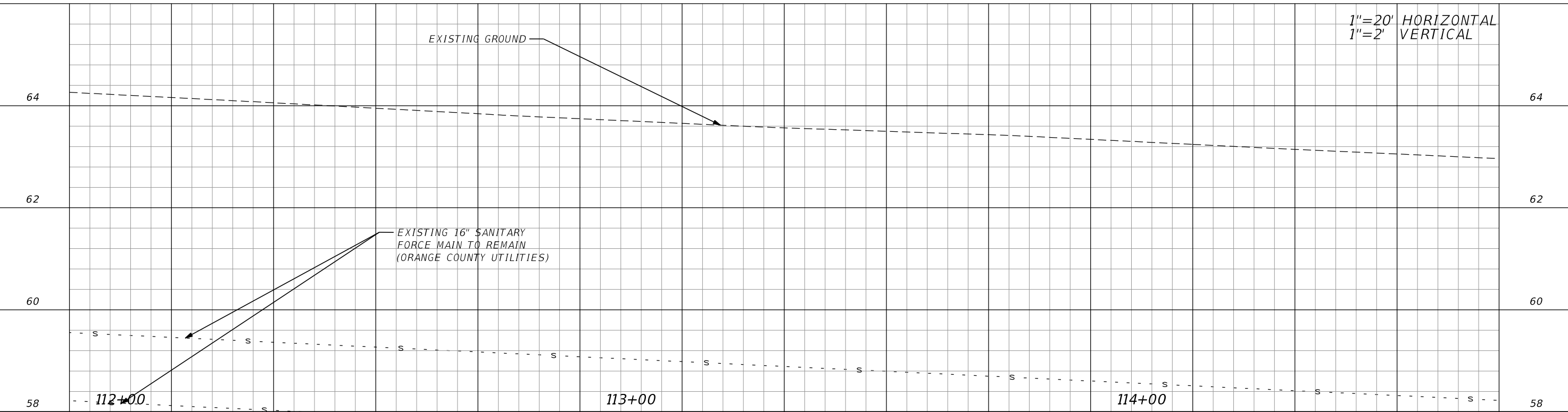
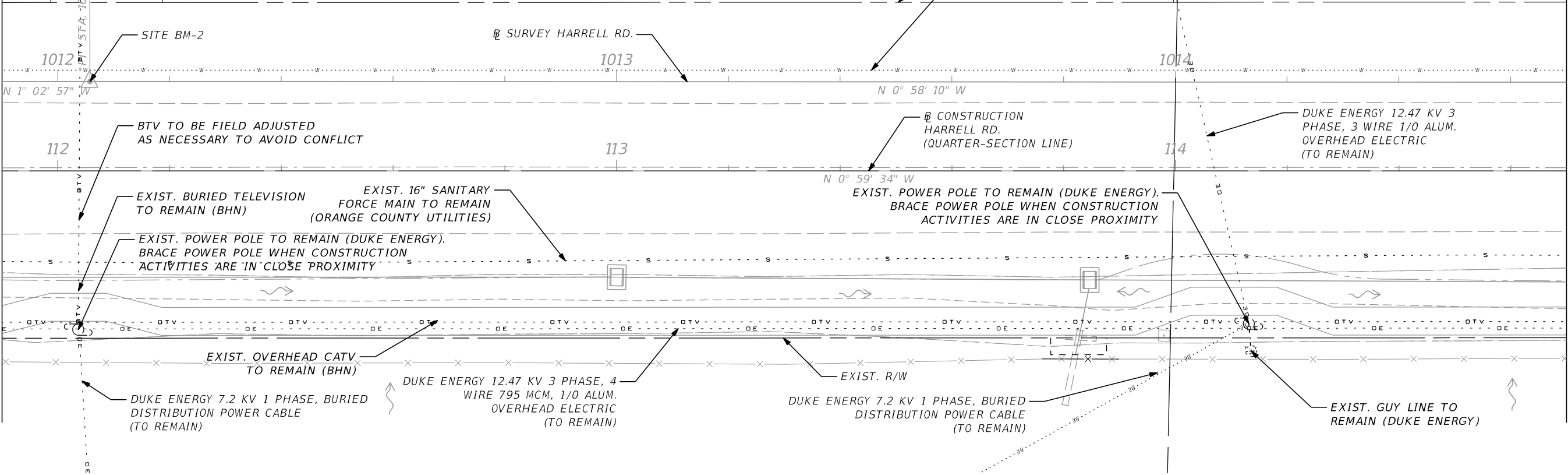
SITE BM-2
SET 1" IRON PIPE W/ O.C.
TRAVERSE CAP & P.K. NAIL
N: 1540568.897
E: 569637.583
ELVATION: 63.57'

SITE BM-3
SET 1" IRON PIPE W/ O.C.
TRAVERSE CAP
N: 1541166.665
E: 569627.467
ELVATION: 60.23'



MATCH LINE STA. 111+90.00

MATCH LINE STA. 114+70.00



1"=20' HORIZONTAL
1"=2' VERTICAL

REVISIONS			
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UTILITY ADJUSTMENT SHEETS

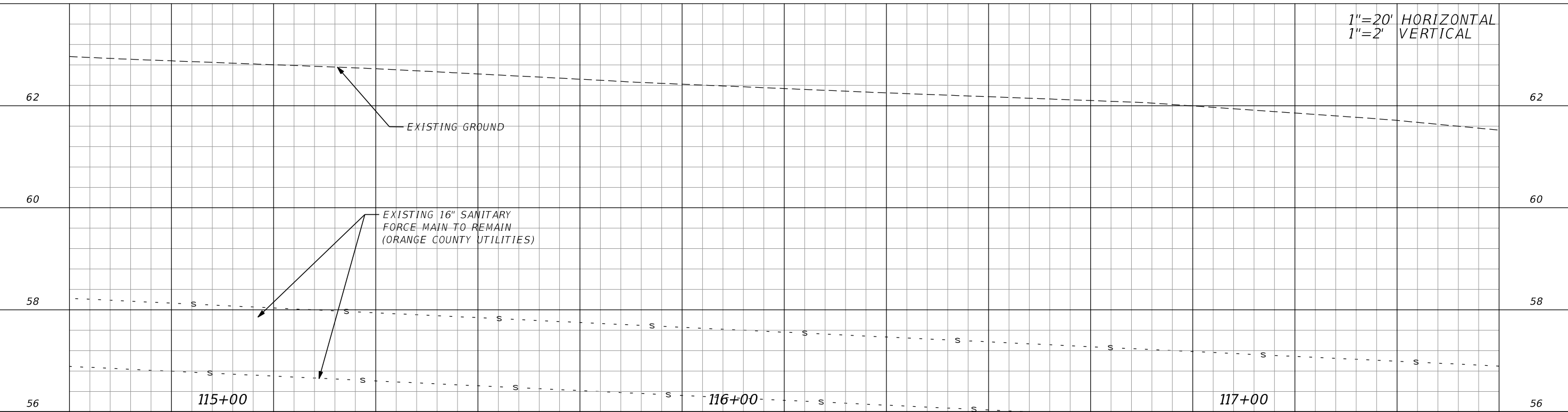
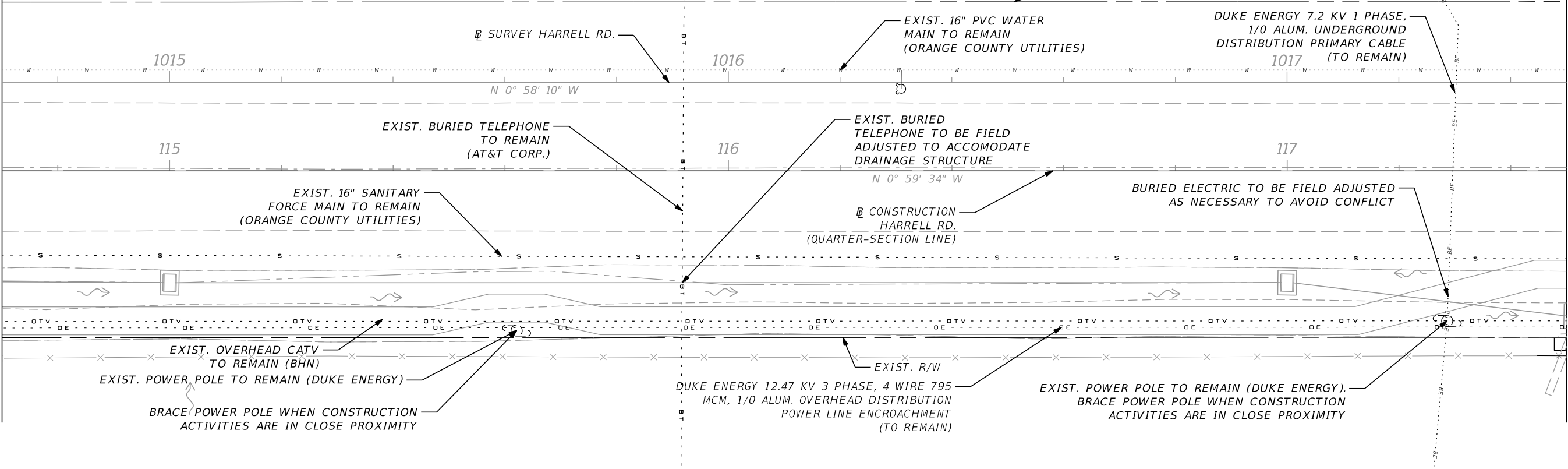
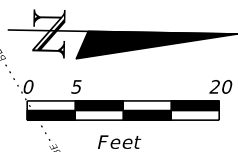
SHEET NO.
59

MATCH LINE STA. 114+70.00

MATCH LINE STA. 117+50.00

SITE BM-2
SET 1" IRON PIPE W/ O.C.
TRAVERSE CAP & P.K. NAIL
N: 1540568.897
E: 569637.583
ELVATION: 63.57'

SITE BM-3
SET 1" IRON PIPE W/ O.C.
TRAVERSE CAP
N: 1541166.665
E: 569627.467
ELVATION: 60.23'



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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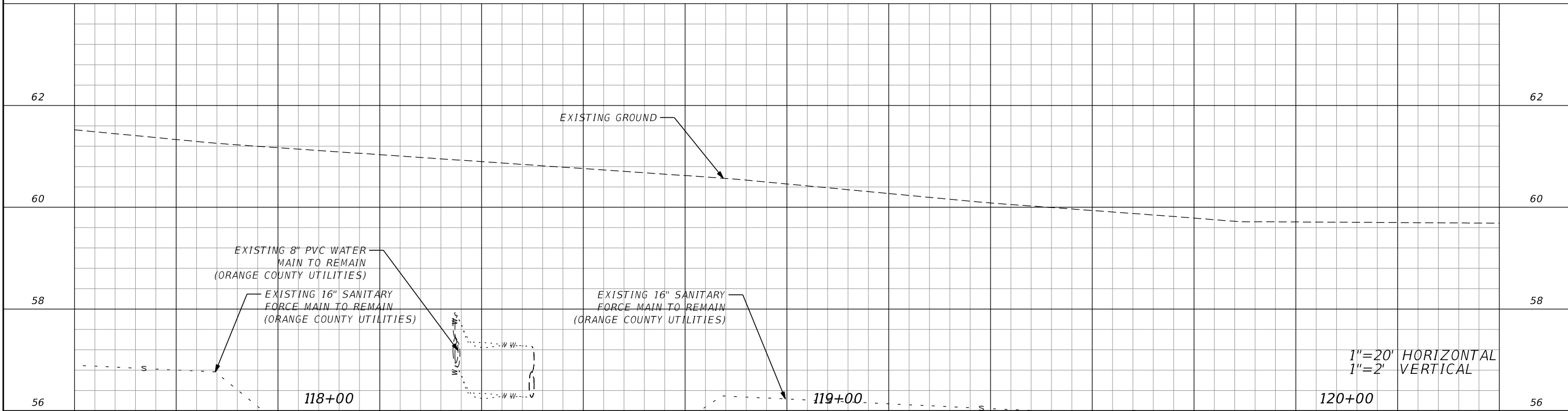
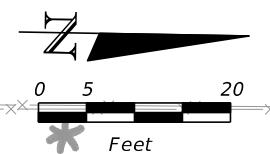
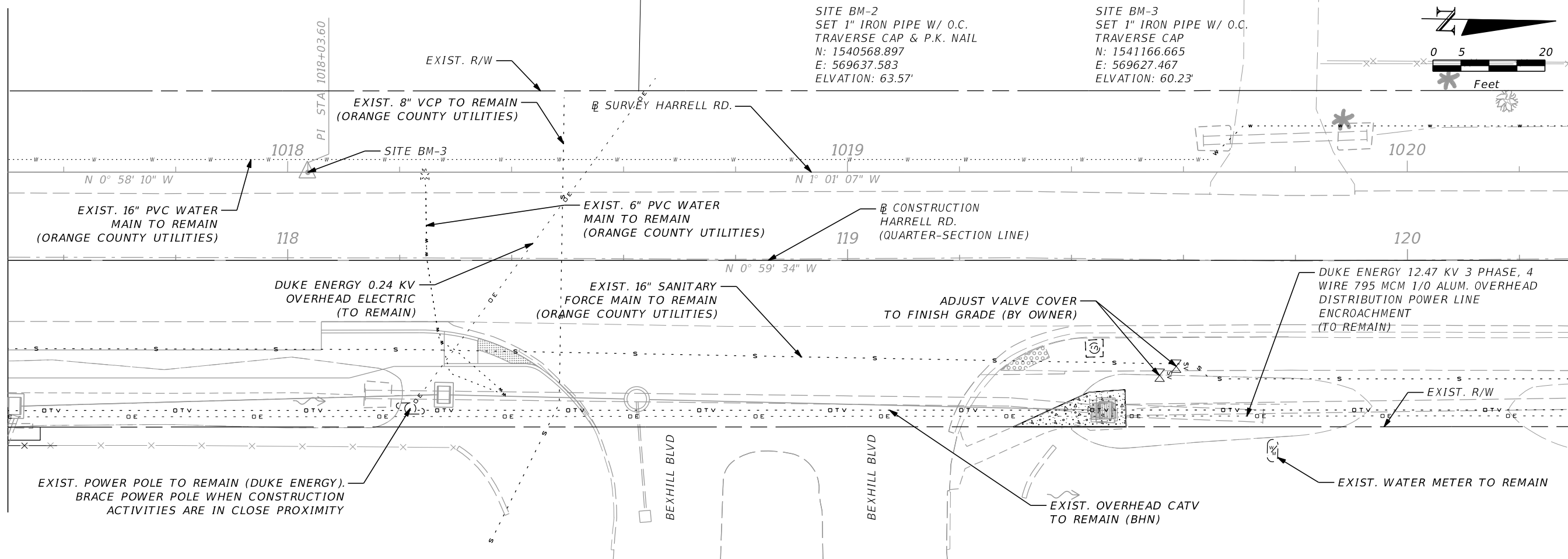
ORANGE COUNTY GOVERNMENT
ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

UTILITY ADJUSTMENT SHEETS

SHEET NO.
60

MATCH LINE STA. 117+50.00

MATCH LINE STA. 120+30.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898
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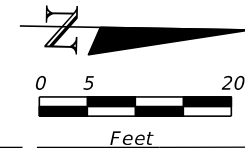
ORANGE COUNTY GOVERNMENT
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 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

UTILITY ADJUSTMENT SHEETS

SHEET NO.
 61

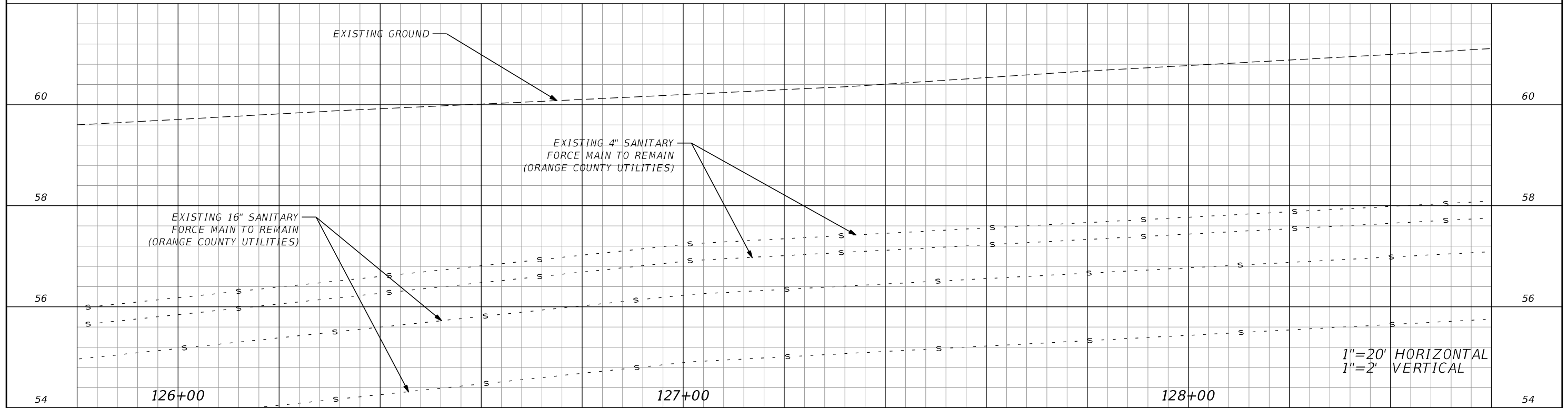
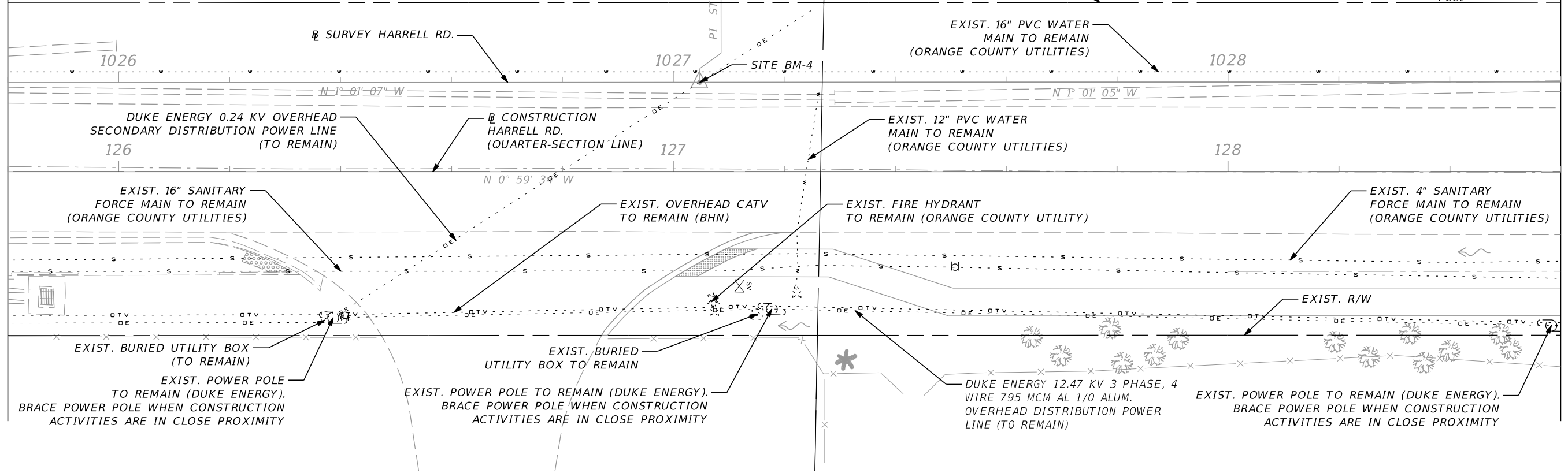
SITE BM-4
 SET 1" IRON PIPE W/ O.C.
 TRAVERSE CAP
 N: 1542067.715
 E: 569611.448
 ELVATION: 60.00'

SITE BM-5
 SET 5/8" REBAR W/ O.C.
 TRAVERSE CAP
 N: 1542623.547
 E: 569601.570
 ELVATION: 61.65'



MATCH LINE STA. 125+80.00

MATCH LINE STA. 128+60.00



1"=20' HORIZONTAL
 1"=2' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 201 N. Magnolia Ave. Suite 200
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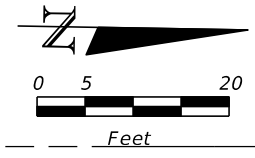
ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

UTILITY ADJUSTMENT SHEETS

SHEET NO. 62

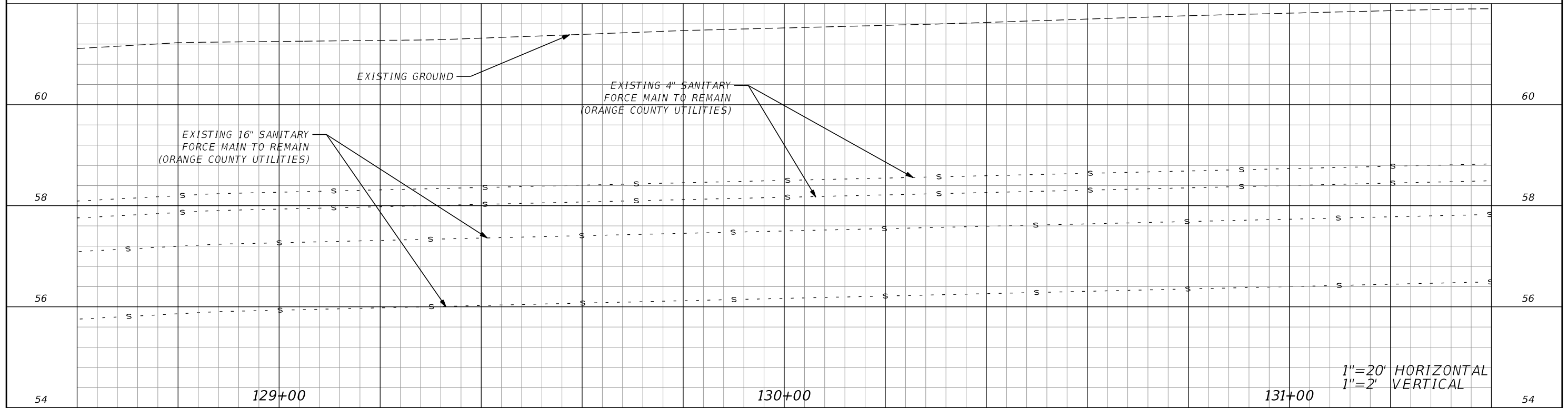
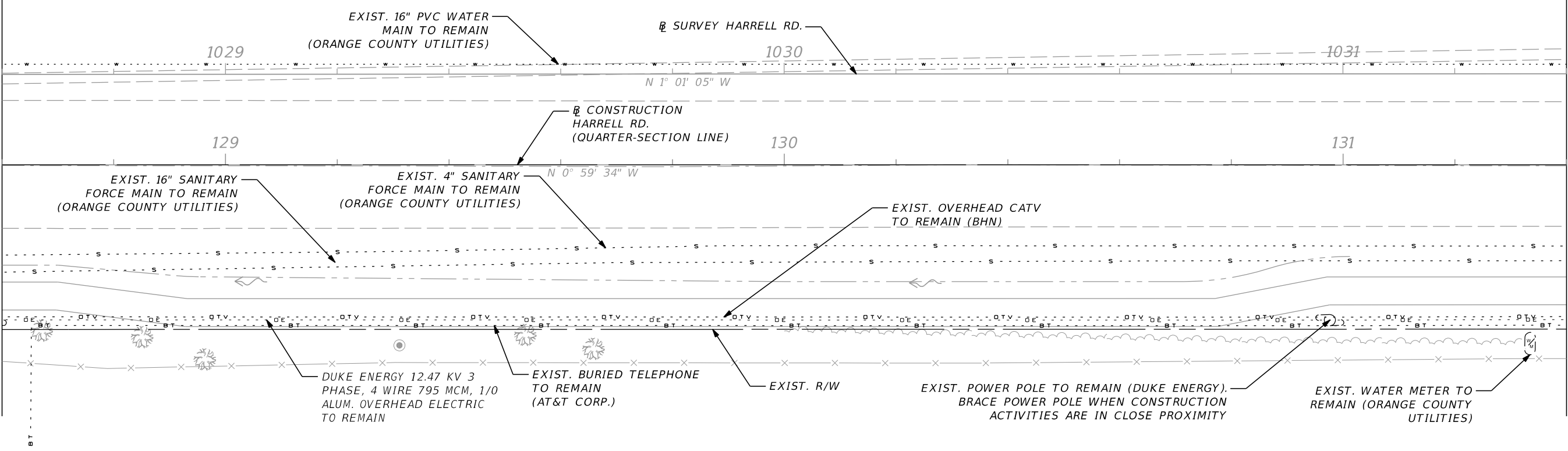
SITE BM-4
 SET 1" IRON PIPE W/ O.C.
 TRAVERSE CAP
 N: 1542067.715
 E: 569611.448
 ELVATION: 60.00'

SITE BM-5
 SET 5/8" REBAR W/ O.C.
 TRAVERSE CAP
 N: 1542623.547
 E: 569601.570
 ELVATION: 61.65'



MATCH LINE STA. 128+60.00

MATCH LINE STA. 131+40.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

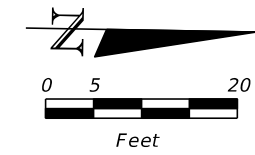
DEREK C. BURKE, P.E. LICENSE NO. 40898
WBQ
 Design & Engineering
 CERTIFICATE OF AUTHORIZATION NO. 6796
 201 N. Magnolia Ave.
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 Orlando FL 32801
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 ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

UTILITY ADJUSTMENT SHEETS
 SHEET NO. 63

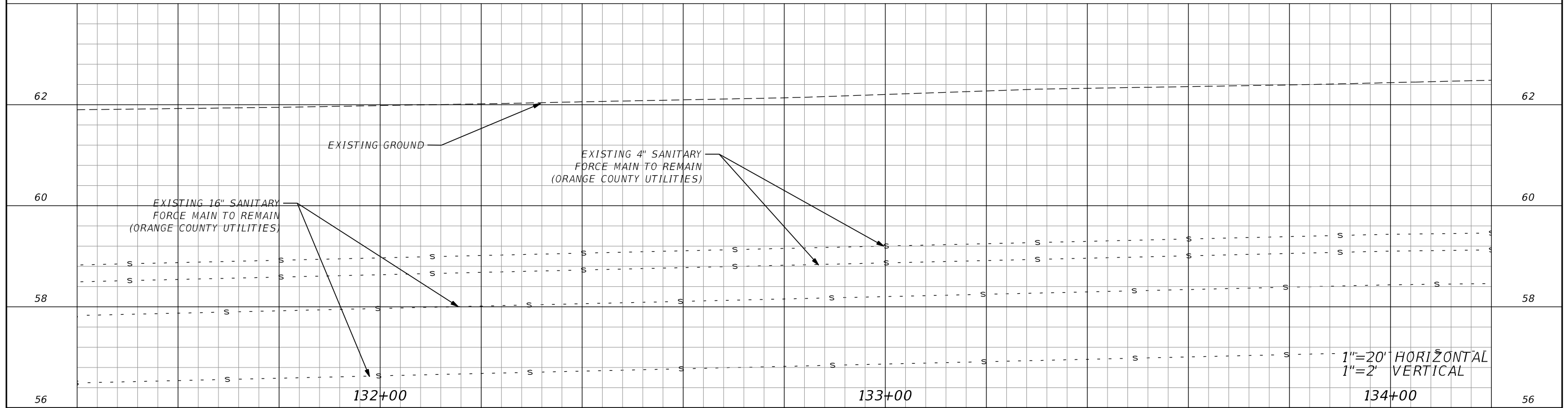
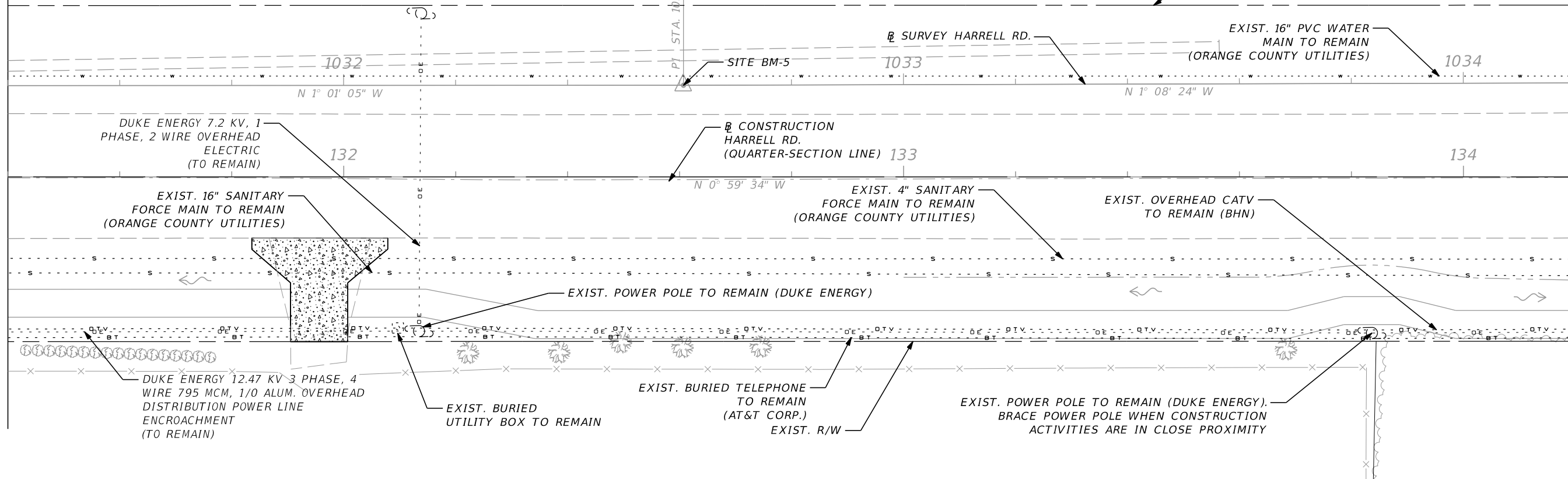
SITE BM-4
 SET 1" IRON PIPE W/ O.C.
 TRAVERSE CAP
 N: 1542067.715
 E: 569611.448
 ELVATION: 60.00'

SITE BM-5
 SET 5/8" REBAR W/ O.C.
 TRAVERSE CAP
 N: 1542623.547
 E: 569601.570
 ELVATION: 61.65'



MATCH LINE STA. 131+40.00

MATCH LINE STA. 134+20.00



1"=20' HORIZONTAL
 1"=2' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898

WBQ Design & Engineering

201 N. Magnolia Ave. Suite 200
 Orlando FL 32801
 Phone 407.839.4300
 Fax 407.839.1621

CERTIFICATE OF AUTHORIZATION NO. 6796

ORANGE COUNTY GOVERNMENT

ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS

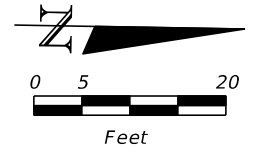
ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

UTILITY ADJUSTMENT SHEETS

SHEET NO. 64

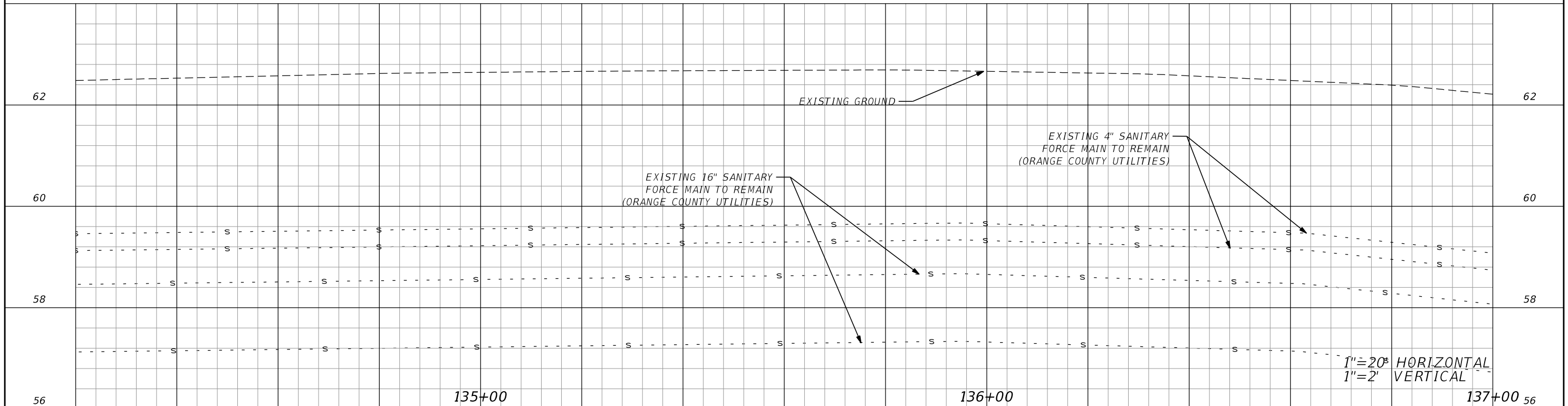
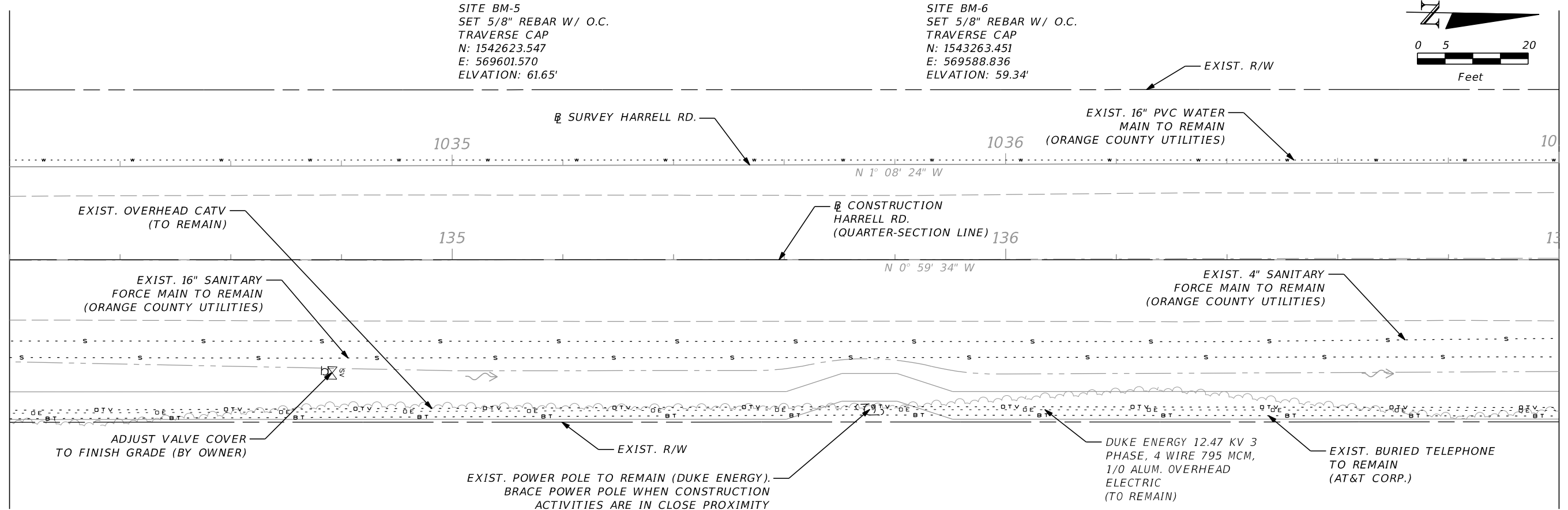
SITE BM-5
 SET 5/8" REBAR W/ O.C.
 TRAVERSE CAP
 N: 1542623.547
 E: 569601.570
 ELVATION: 61.65'

SITE BM-6
 SET 5/8" REBAR W/ O.C.
 TRAVERSE CAP
 N: 1543263.451
 E: 569588.836
 ELVATION: 59.34'



MATCH LINE STA. 134+20.00

MATCH LINE STA. 137+00.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

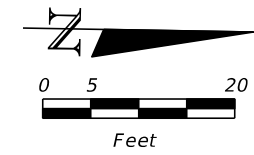
DEREK C. BURKE, P.E. LICENSE NO. 40898

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 Orlando FL 32801
 Phone 407.839.4300 Fax 407.839.1621
 CERTIFICATE OF AUTHORIZATION NO. 6796

ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

UTILITY ADJUSTMENT SHEETS

SHEET NO. 65

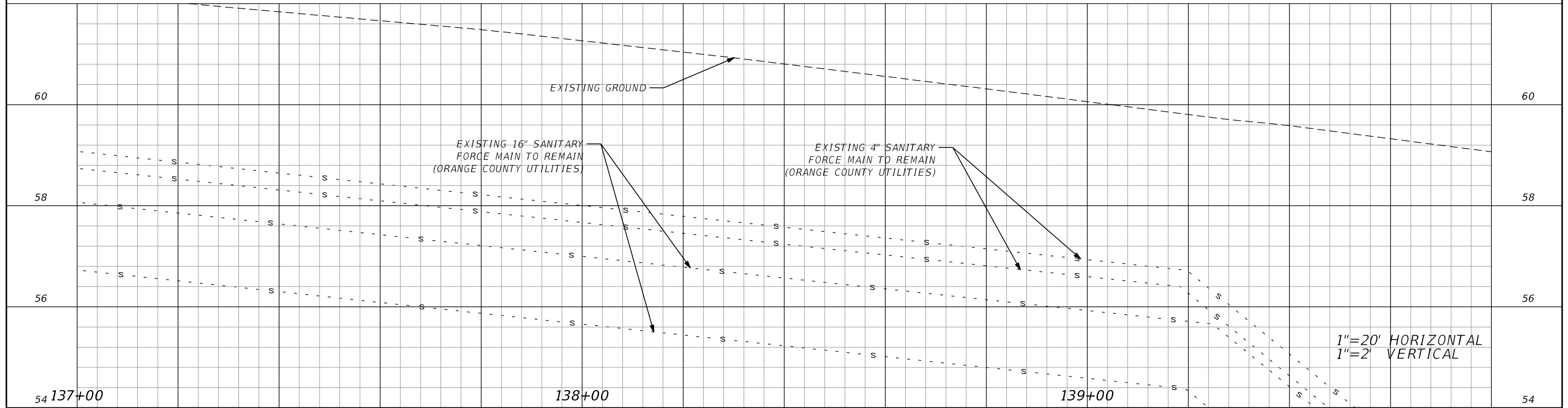
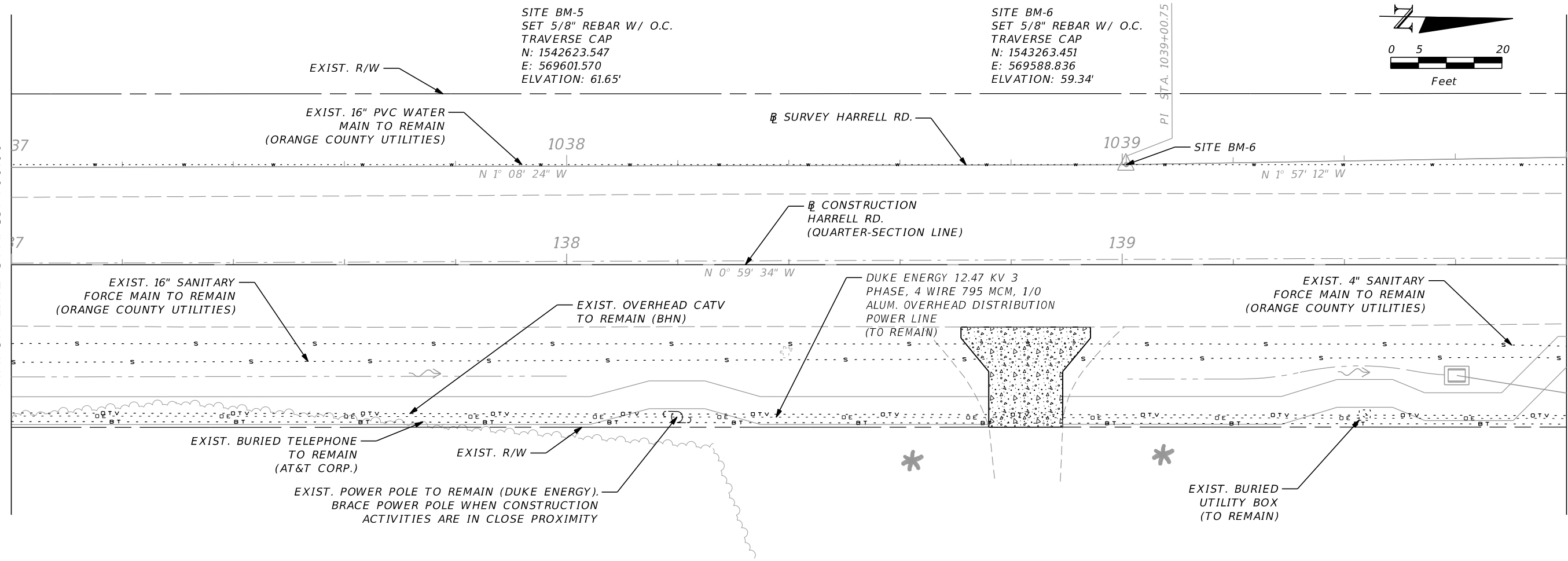


SITE BM-5
SET 5/8" REBAR W/ O.C.
TRAVERSE CAP
N: 1542623.547
E: 569601.570
ELVATION: 61.65'

SITE BM-6
SET 5/8" REBAR W/ O.C.
TRAVERSE CAP
N: 1543263.451
E: 569588.836
ELVATION: 59.34'

MATCH LINE STA. 137+00.00

MATCH LINE STA. 139+80.00



1"=20' HORIZONTAL
1"=2' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 201 N. Magnolia Ave. Suite 200
 Orlando FL 32801
 Phone 407.839.4300 Fax 407.839.1621
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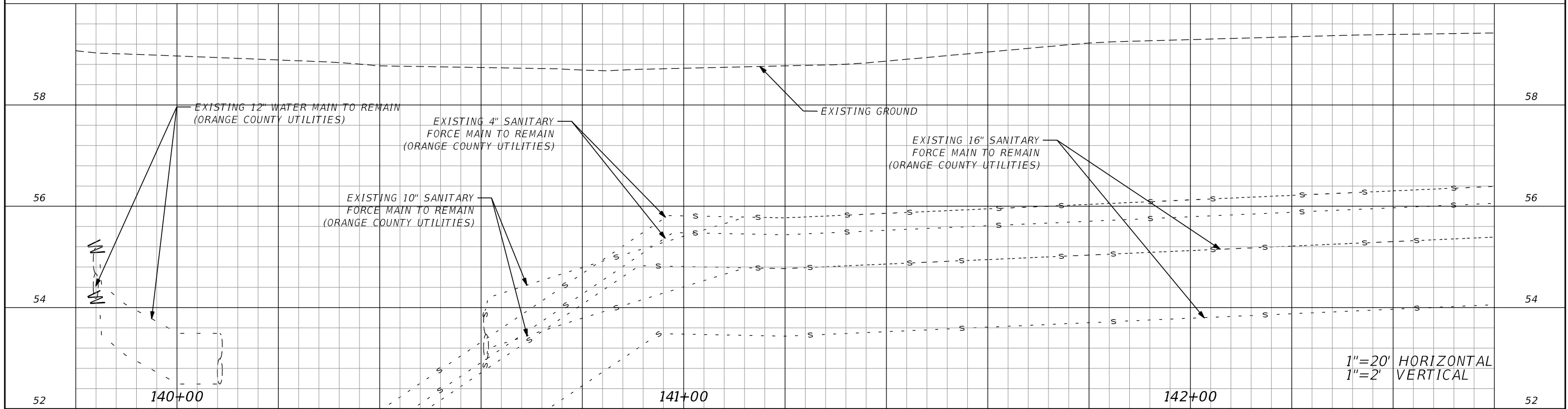
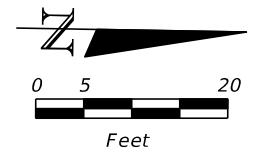
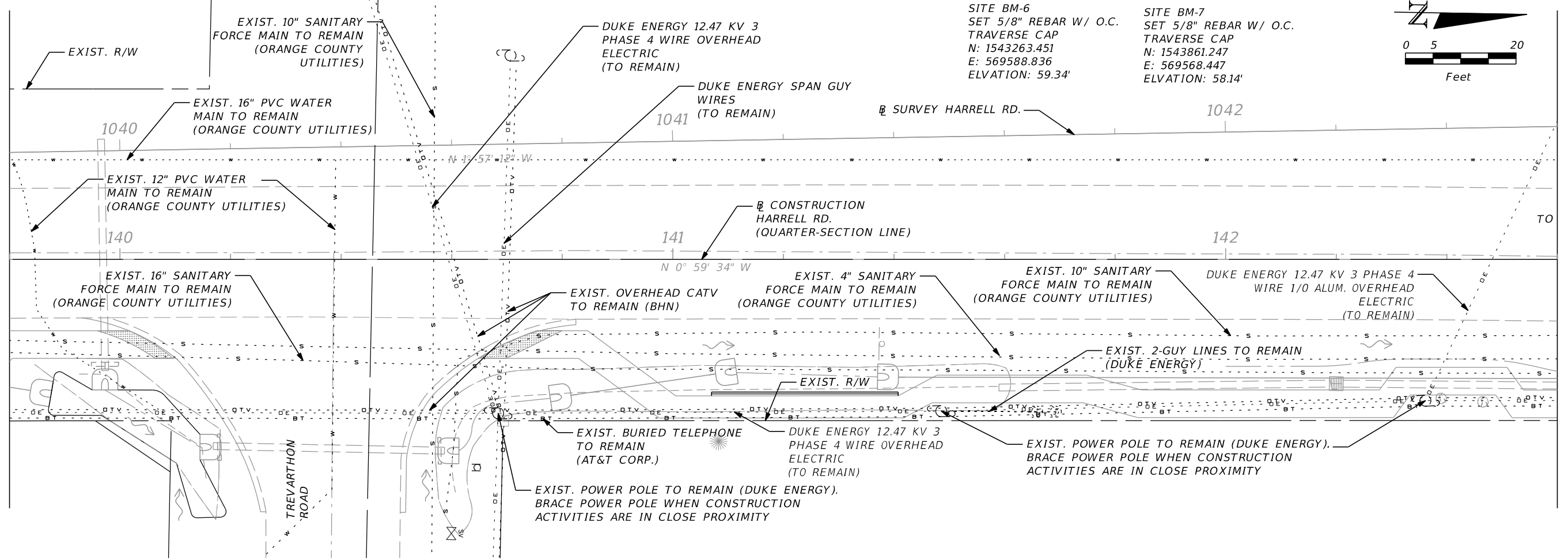
ORANGE COUNTY
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

UTILITY ADJUSTMENT SHEETS

SHEET NO. 66

MATCH LINE STA. 139+80.00

MATCH LINE STA. 142+60.00



REVISIONS		DESCRIPTION	
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898

WBQ Design & Engineering

CERTIFICATE OF AUTHORIZATION NO. 6796

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ORANGE COUNTY
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ORANGE COUNTY
DEPARTMENT OF PUBLIC WORKS

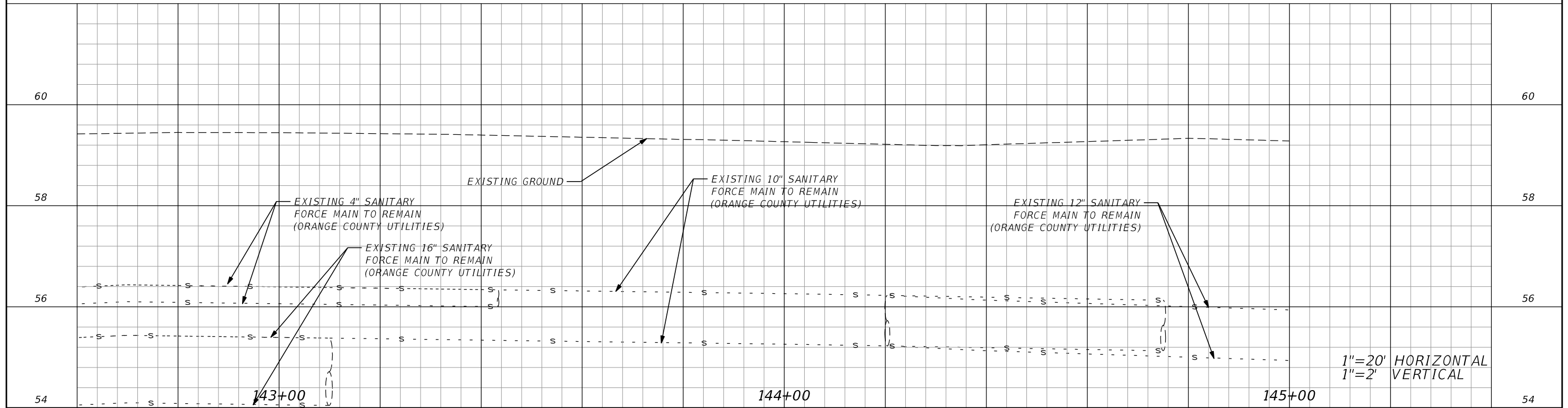
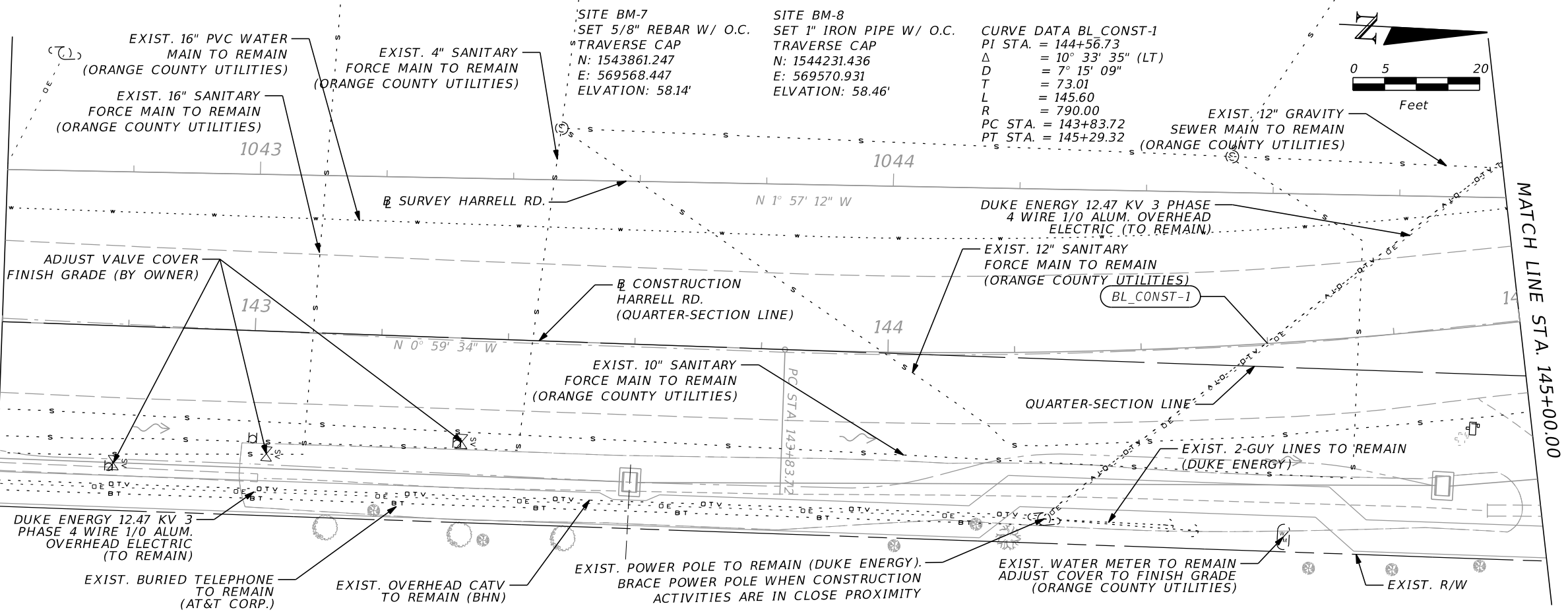
ENGINEERING DIVISION
4200 SOUTH JOHN YOUNG PARKWAY
ORLANDO, FLORIDA 32839
(407) 836-7900

UTILITY ADJUSTMENT SHEETS

estewart	10/1/2014	11:56:52 AM	P:\110RA.HARR_Y8-905B_Harr\utils\planuw12.dgn	SHEET NO.
				67

MATCH LINE STA. 142+60.00

MATCH LINE STA. 145+00.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

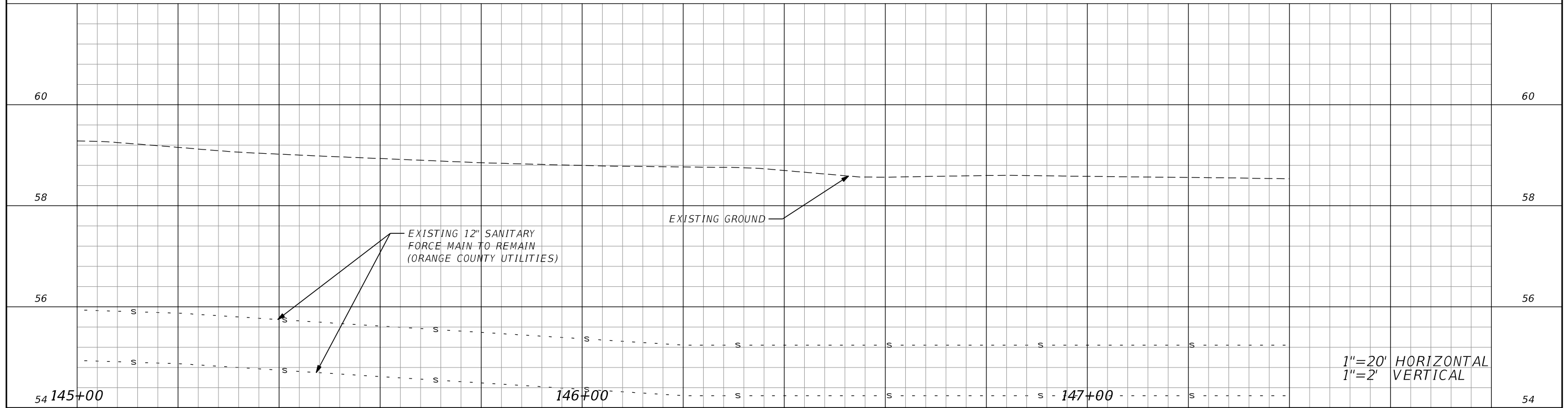
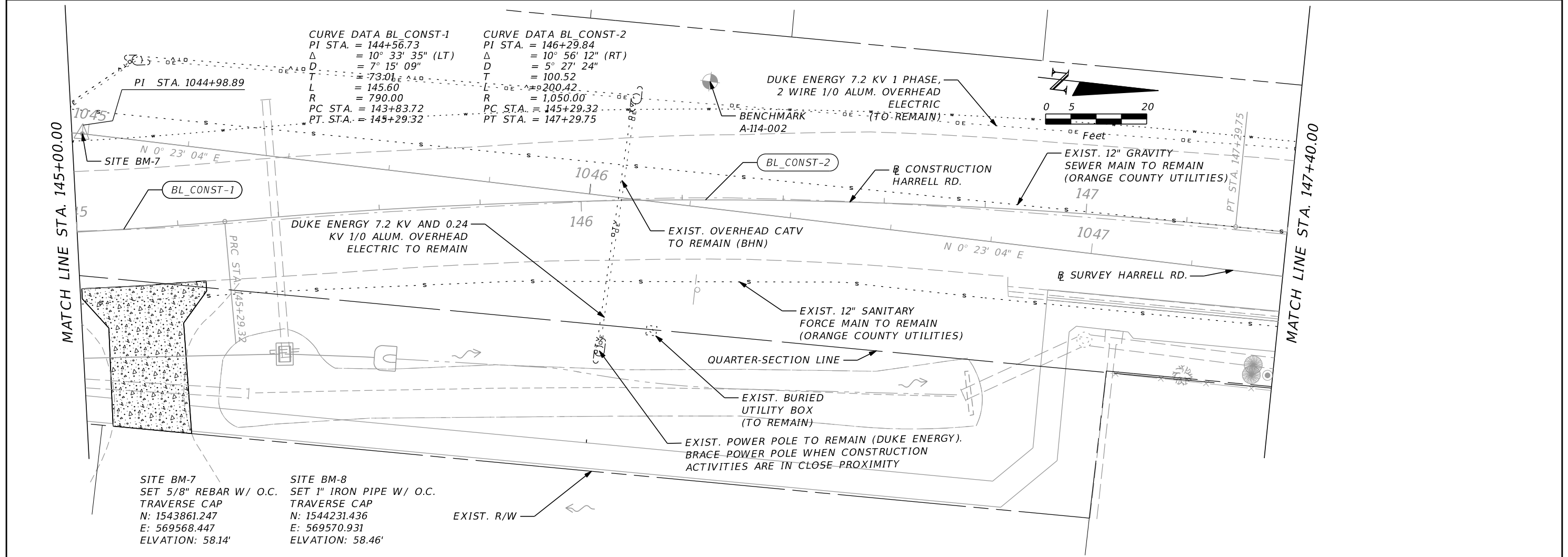
DEREK C. BURKE, P.E. LICENSE NO. 40898
WBQ : 201 N. Magnolia Ave. Suite 200
 Orlando FL 32801
 Phone 407.839.4300
 Fax 407.839.1621
 CERTIFICATE OF AUTHORIZATION NO. 6796

ORANGE COUNTY GOVERNMENT
ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

UTILITY ADJUSTMENT SHEETS

SHEET NO. 68

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898

WBQ
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201 N. Magnolia Ave. Suite 200
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ORANGE COUNTY GOVERNMENT

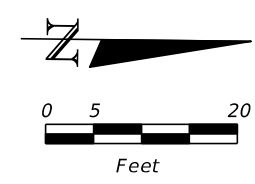
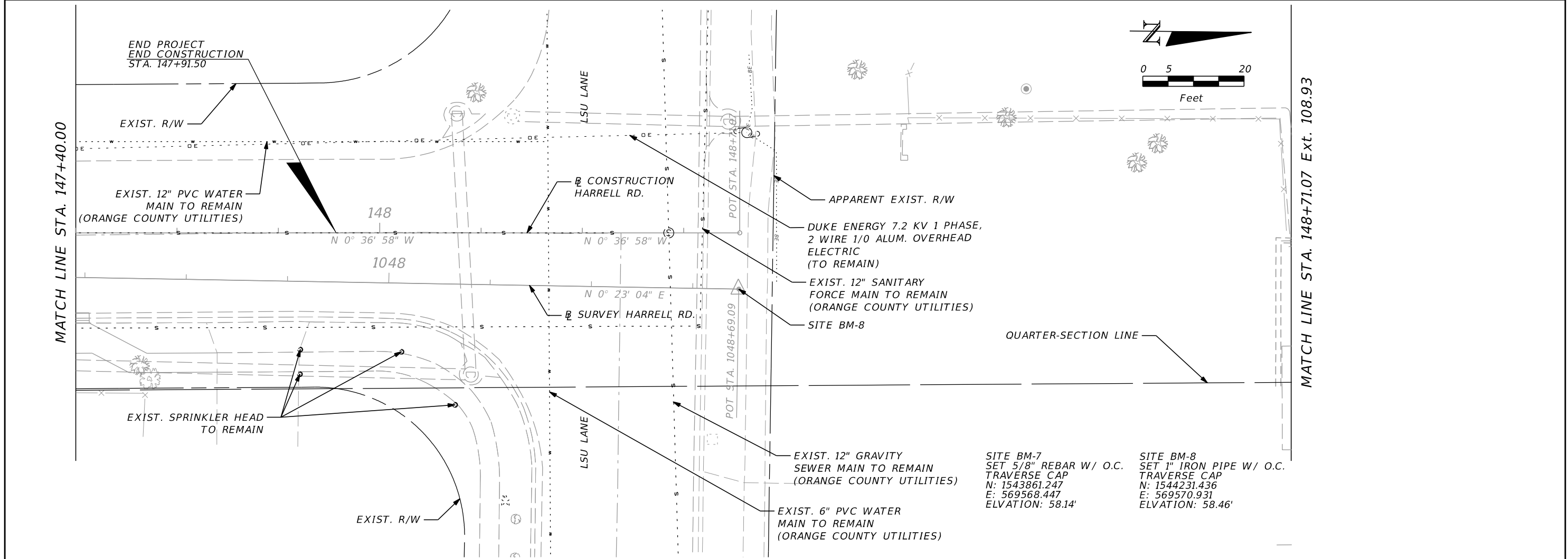
ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS

ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

UTILITY ADJUSTMENT SHEETS

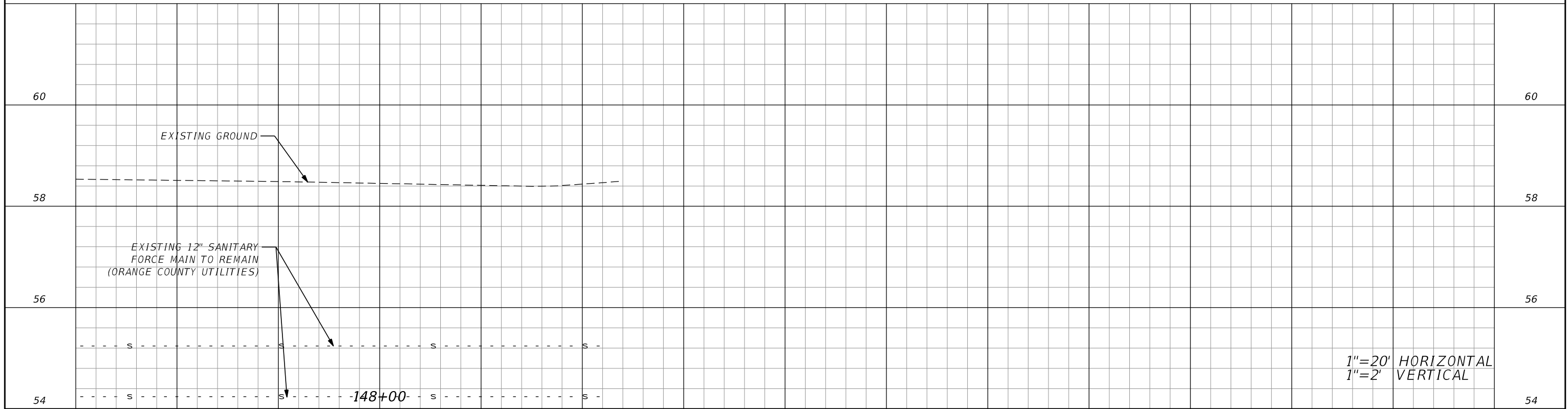
SHEET NO. 69

estewart 10/1/2014 11:56:56 AM P:\110RA.HARR_Y8-905B_Harr\utils\planuw14.dgn



SITE BM-7
 SET 5/8" REBAR W/ O.C.
 TRAVERSE CAP
 N: 1543861.247
 E: 569568.447
 ELVATION: 58.14'

SITE BM-8
 SET 1" IRON PIPE W/ O.C.
 TRAVERSE CAP
 N: 1544231.436
 E: 569570.931
 ELVATION: 58.46'



1"=20' HORIZONTAL
 1"=2' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DEREK C. BURKE, P.E. LICENSE NO. 40898

WBQ INC.
 201 N. Magnolia Ave.
 Suite 200
 Orlando FL 32801
 Phone 407.839.4300
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CERTIFICATE OF AUTHORIZATION NO. 6796

ORANGE COUNTY GOVERNMENT

ORANGE COUNTY
 DEPARTMENT OF PUBLIC WORKS

ENGINEERING DIVISION
 4200 SOUTH JOHN YOUNG PARKWAY
 ORLANDO, FLORIDA 32839
 (407) 836-7900

UTILITY ADJUSTMENT SHEETS

SHEET NO. 70

TRAFFIC CONTROL NOTES



1. TRAFFIC AND PEDESTRIAN TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH FDOT DESIGN STANDARDS, INDEX 600 SERIES.

2. SIGNS SHALL FOLLOW THE FDOT DESIGN STANDARDS, INDEX 600 SERIES.






WORK ZONE SPEED SHALL BE THE EXISTING POSTED SPEED THROUGH ALL PHASES OF CONSTRUCTION.
HARRELL ROAD - 40 MPH.

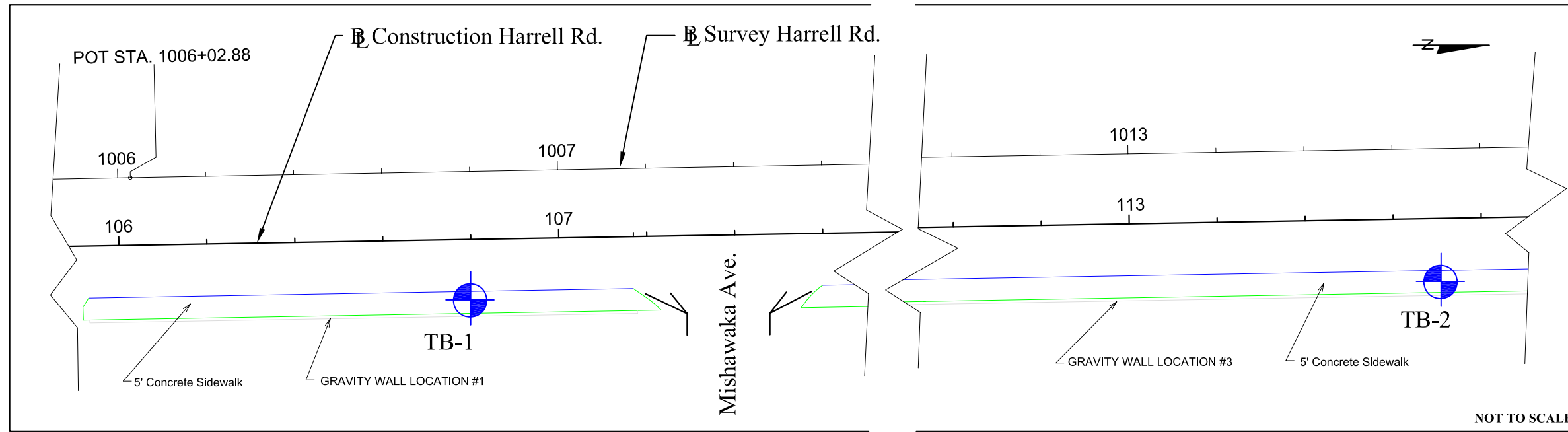
3. MAINTAIN BICYCLE AND PEDESTRIAN TRAFFIC ALONG HARRELL ROAD, MISHAWAKA LANE, CHELINCHE LANE, BEXHILL BOULEVARD, AND TREVARTHON ROAD DURING CONSTRUCTION ACTIVITIES.

4. EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO CONSTRUCTION.

REVISIONS				DEREK C. BURKE, P.E. LICENSE NO. 40898  : 201 N. Magnolia Ave. Suite 200 Orlando FL 32801 Phone 407.839.4300 Fax 407.839.1621 CERTIFICATE OF AUTHORIZATION NO. 6796	 ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION 4200 SOUTH JOHN YOUNG PARKWAY ORLANDO, FLORIDA 32839 (407) 836-7900	TRAFFIC CONTROL GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				71

LEGEND

-  SAND
-  CLAYEY SAND
- (SP) Unified soil classification group symbol
- W = Natural Moisture Content (%) (FM 1-T265)
- 200 = Percent passing no. 200 U.S. standard sieve (FM 1-T088)
-  Groundwater level on date shown
-  Estimated seasonal high groundwater level
-  Approximate boring location
- TB-2
- N **Standard Penetration Test Data**
- Standard penetration resistance in blows per foot (18" spoon ASTM D-1586)
- Spoon Inside Diameter 1 3/8 in.
- Spoon Outside Diameter 2 in.
- ASTM Standard Drop Safety Hammer (Rope-Cathead)
- Average Hammer Drop 30 in.
- Hammer Weight 140 lbs.



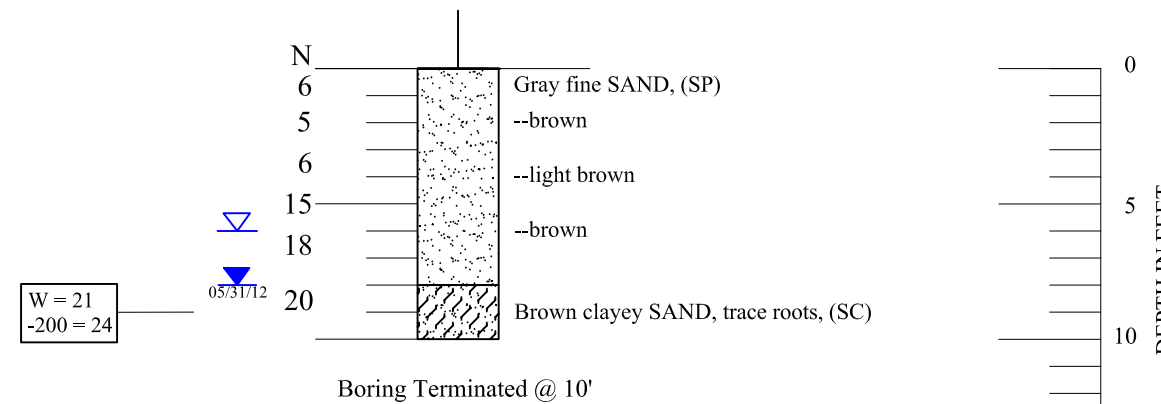
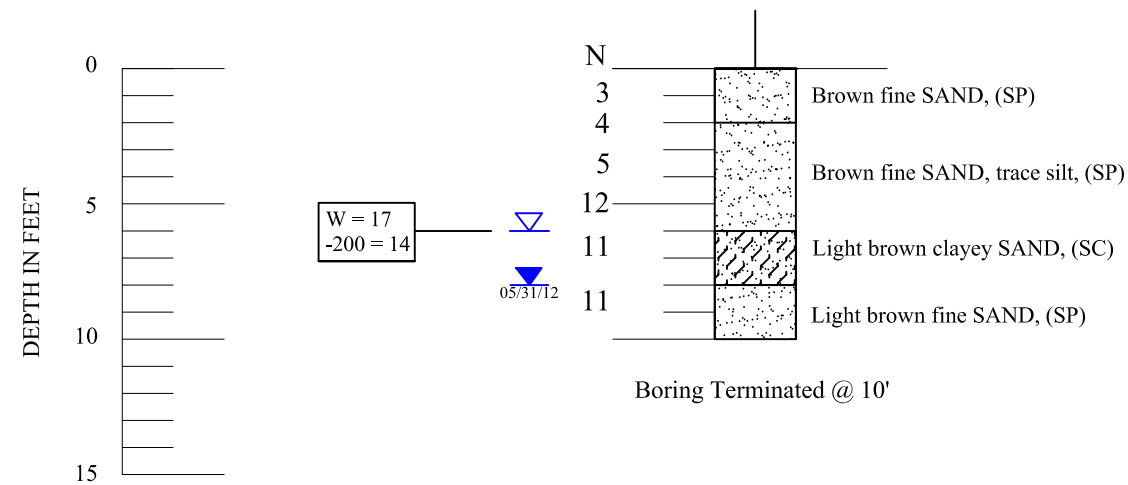
NOTES

1. Standard Penetration Test borings were performed in accordance with ASTM D-1586. Standard Penetration Resistance are shown on the borings at the test depths in blows per foot unless otherwise noticed
2. Subsurface conditions shown on the boring do not represent conditions between boring locations. Actual conditions between the borings may vary from those shown.
3. Unified Soil Classifications shown on the boring are based on visual examination and limited laboratory testing

Boring No:
Latitude:
Longitude:
Date Drilled:

TB-1
N28°34'18.8"
W81°16'10"
5/31/2012

TB-2
N28°34'12.2"
W81°16'9.9"
5/31/2012



GRANULAR MATERIALS	
RELATIVE DENSITY	SPT (BLOWS/FT.)
Very loose	Less than 4
Loose	4-10
Medium Dense	10-30
Dense	30-50
Very Dense	Greater than 50
SILTS AND CLAYS	
CONSISTENCY	SPT (BLOWS/FT.)
Very soft	Less than 2
Soft	2-4
Firm	4-8
Stiff	8-15
Very Stiff	15-30
Hard	Greater than 30

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NAMES	DATES
Drawn by: AGA	06-01-12
Checked by: GNN	06-01-12
Designed by: N/A	N/A
Checked by: N/A	N/A
Approved by: GNN	

GODWIN N. NNADI, Ph.D., P.E.
FL REGISTRATION NO. 50637
NADIC ENGINEERING SERVICES, INC.
601 N. HART BOULEVARD
ORLANDO, FL 32818
PH (407) 521-4771 FAX (407) 521-4772
CERTIFICATE OF AUTHORIZATION NO. 8214

NES CIVIL GEOTECHNICAL ENVIRONMENTAL CONSULTING ENGINEERING

ORANGE COUNTY PUBLIC WORKS FLORIDA

ROAD NO.	COUNTY	PROJECT NO.
Harrell Rd	ORANGE	R11021.1

SHEET TITLE: REPORT OF SPT BORINGS		SHEET NO.
PROJECT NAME: Harrell Road Turndown Retaining Walls and Sidewalk		72