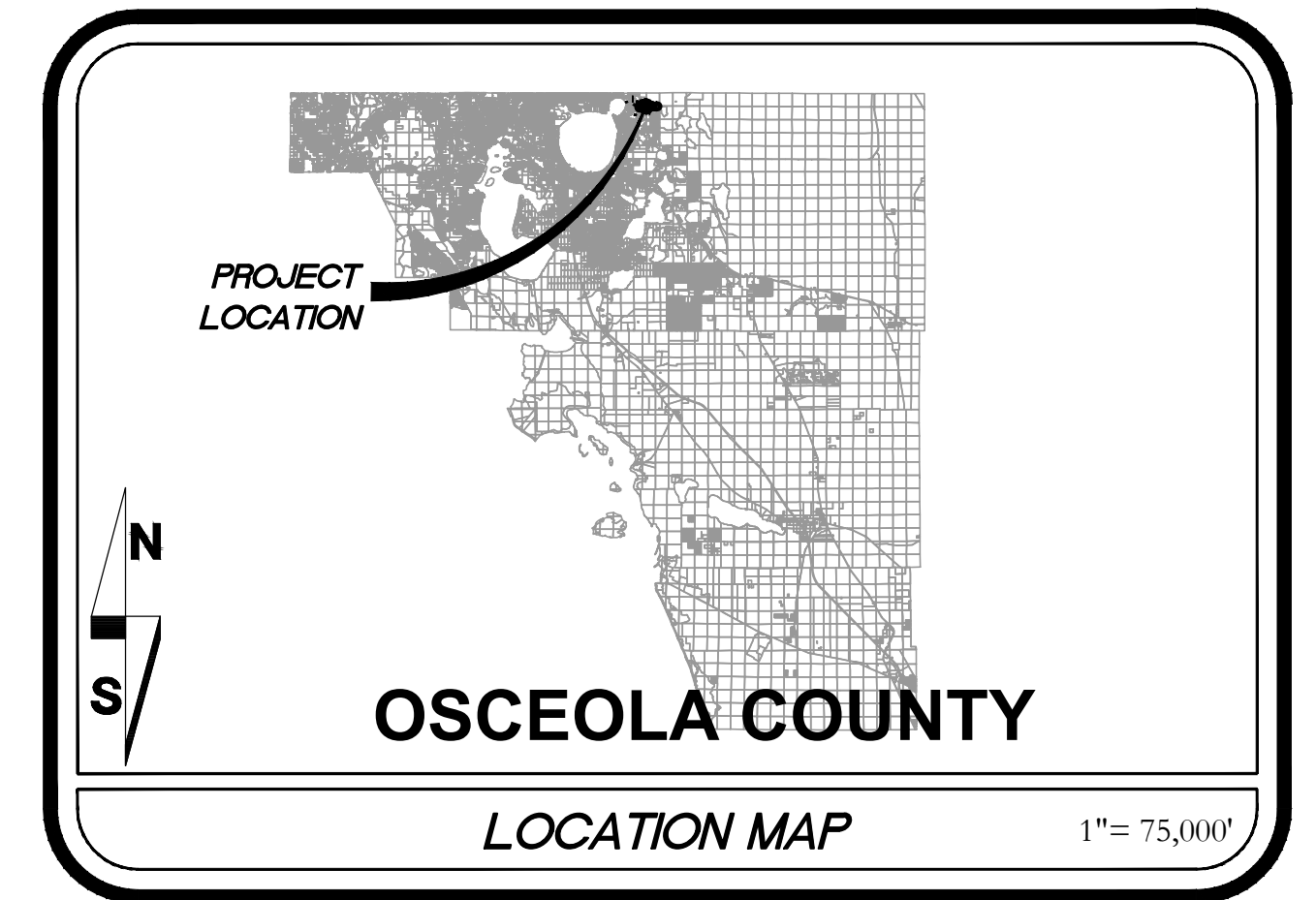


100% CONSTRUCTION PLANS FOR CYRILS DRIVE / NARCOOSSEE ROAD TO ABSHER ROAD - ROAD WIDENING (SDP23-0132)

STA. 15+43.01 TO STA. 119+24.83

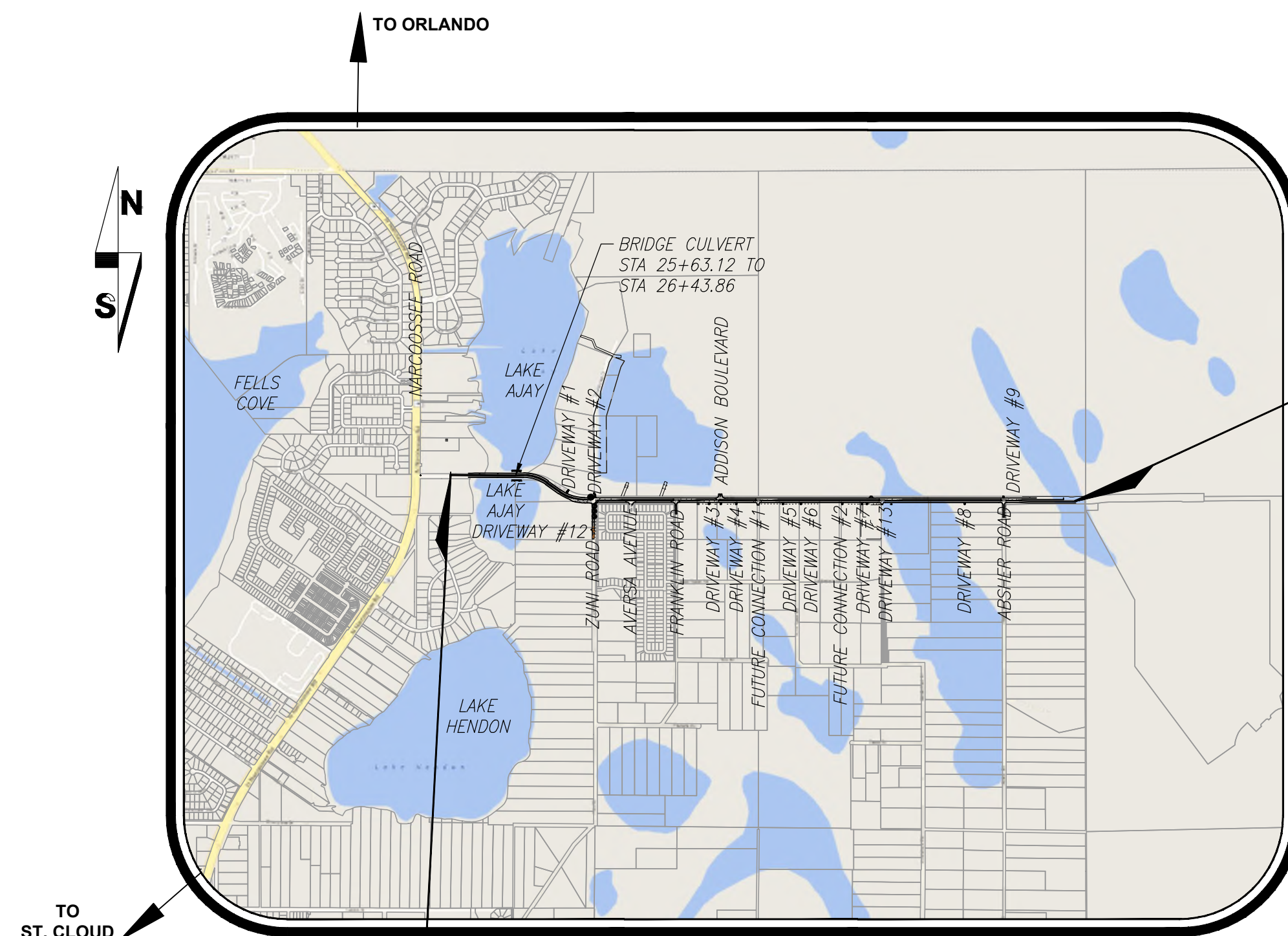
OSCEOLA COUNTY, FL

SECTION 3, TOWNSHIP 25 SOUTH, RANGE 31 EAST
SECTION 4, TOWNSHIP 25 SOUTH, RANGE 31 EAST
SECTION 5, TOWNSHIP 25 SOUTH, RANGE 31 EAST
SECTION 9, TOWNSHIP 25 SOUTH, RANGE 31 EAST
SECTION 10, TOWNSHIP 25 SOUTH, RANGE 31 EAST



INDEX OF SHEETS	
SHEET	DESCRIPTION
1	COVER SHEET
2-3	GENERAL NOTES & DETAILS
4-11	EXISTING SURVEY & TOPOGRAPHY
12	EXISTING CONDITIONS - SOILS & FLOODPLAIN
13A-13M	EROSION CONTROL PLAN & DETAILS
14-18	DRAINAGE MAP
19-21	TYPICAL ROADWAY SECTIONS
22	PROJECT LAYOUT & KEY SHEET
23-44	PLAN & PROFILE
45-48	SIDE STREET PLAN & PROFILE
49-53	DRIVEWAY PLAN & PROFILE
54-55	POND & CONTROL STRUCTURE DETAILS
56-56A	MUCK PROBE AND LOCATIONS
57-68	ROADWAY SOIL BORINGS
69-71	POND SOIL BORINGS
72-150	CROSS SECTIONS
151-173	UTILITY ADJUSTMENT SHEETS
174-184	SIGNING & PAVEMENT MARKING
185-186A	AUTOTURN ANALYSIS
187	TWA DETAILS
188-216	RECLAIMED WATER PLAN & PROFILE
217	CULVERT PLAN
219-251	MAINTENANCE OF TRAFFIC PLANS
252-263	CONDUIT PLAN
264-265	HEADWALL STRUCTURAL PLAN

SOURCE OF BENCHMARK DATUM		
	B.M. NAVD88	Z-577 ELEV. 60.72 Q-576 ELEV. 61.19
AS SHOWN ON SHEET 25		

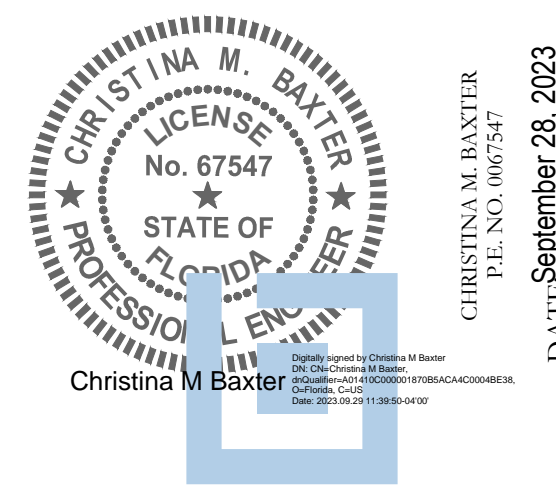


**BEGIN PROJECT
CYRILS DRIVE
STATION 15+43.01**

**END PROJECT
CYRILS DRIVE
STATION 119+24.83**

DEVELOPER/APPLICANT:
TAVISTOCK EAST SERVICES, LLC
6900 TAVISTOCK LAKES BLVD, SUITE 200
ORLANDO, FL 32827

- GOVERNING STANDARDS AND SPECIFICATIONS :**
- OSCEOLA COUNTY LAND DEVELOPMENT CODE & SPECIFICATIONS
 - FLORIDA DEPARTMENT OF TRANSPORTATION FY 2023-24 STANDARD PLANS
 - MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION, AND MAINTENANCE FOR STREETS AND HIGHWAYS, 2018 EDITION
 - STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED FY2023-24, AS AMENDED BY CONTRACT DOCUMENTS
 - FDOT DESIGN MANUAL (FDM) 2023



This form has been electronically signed and sealed by Christina M. Baxter on the date adjacent to the seal using a SIA authentication code. Printed copies of this document are not considered signed and sealed and the SIA authentication code must be verified on any electronic copies.

DATE: 9/28/2023 PROJECT MANAGER: Christina M. Baxter, P.E.

PROJECT LENGTH:	FEET	MILES
ROADWAY:	10,301.08	1.951
BRIDGE (CULVERTS):	80.74	0.015
TOTAL LENGTH:	10,381.82	1.966

UTILITY PROVIDERS	
CENTURYLINK.....	(407)-753-2736
CHARTER COMMUNICATIONS.....	(407)-532-8517
832 COMMUNICATION.....	(407)462-7040
COMCAST COMMUNICATION.....	(407)-312-5944
OSCEOLA COUNTY TRAFFIC.....	(407)-742-7534
ORLANDO UTILITIES COMMISSION.....	(321)-436-6201
TECO PEOPLES GAS - ORLANDO.....	(407)-420-6669
TOHOPEKALIGA WATER AUTHORITY.....	(407)-944-5000

PREPARED BY:
POULOS & BENNETT
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

MISC. SUBMITTALS	DATE

COUNTY REVISIONS	DATE

DESIGNED BY: RB/JM/AB	DATE: 05/05/2021
DRAWN BY: JM/RD/CC	DATE: 05/05/2021
CHECKED BY: AB	DATE: 05/05/2021
APPROVED BY: AB	DATE: 05/05/2021
PROJECT NO: 17-042	

SHEET 1
OF 265

Osceola County Community GENERAL NOTES:

THIS APPROVAL IS SUBJECT TO THE SPECIFIC REQUIREMENTS OF THE OCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REGULATIONS OF THE BOARD OF COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR(S) TO OBTAIN AND ARE IN HAND AT THE JOB SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL ABIDE BY ALL CONDITIONS CONTAINED THEREIN. PERMITS INCLUDED (BUT NOT NECESSARILY LIMITED TO) ARE:

- WATER MANAGEMENT DISTRICT CONSUMPTIVE USE (WATER USE) FOR CONSTRUCTION DETERMINING (CUP)
- WATER MANAGEMENT DISTRICT ENVIRONMENTAL RESOURCE PERMIT (ERP) OR MSW
- WATER MANAGEMENT DISTRICT WETLAND RESOURCE PERMIT
- FDEP WATER DISTRIBUTION
- FDEP SANITARY SEWER COLLECTION AND TRANSMISSION
- FDEP REUSE
- FDEP DREDGE AND FILL
- ACOE NATIONWIDE OR INDIVIDUAL DREDGE AND FILL
- LOCAL RIGHT OF WAY USE
- LOCAL UNDERGROUND UTILITIES
- FDOT DRIVEWAY CONNECTION
- FDOT UTILITY
- FDOT STORMWATER DISCHARGE CONNECTION
- FDEP & EPA NPDES STORMWATER
- FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION TORTOISE INCIDENTAL TAKE

2. CONTRACTOR IS ADVISED THAT THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REQUIRES THAT OPERATORS FILE A NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NPDES GENERAL PERMIT PRIOR TO BEGINNING WORK. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN SAME. A COPY SHALL BE SENT TO OWNER.

3. FLORIDA LAW (F.S. 553.851) PROTECTION OF UNDERGROUND PIPELINES MANDATES THAT "NO EXCAVATOR SHALL COMMENCE OR PERFORM ANY EXCAVATION IN ANY PUBLIC OR PRIVATE STREET, ALLEY, RIGHT-OF-WAY DEDICATED TO THE PUBLIC USE, OR GAS UTILITY EASEMENT WITHOUT FIRST OBTAINING INFORMATION CONCERNING THE POSSIBLE LOCATION OF GAS PIPELINES IN THE AREA OF THE PROPOSED EXCAVATION. THIS INCLUDES ANY OPERATION UTILIZING HAND TOOLS OR POWER TOOLS WHICH MOVES OR REMOVES ANY STRUCTURE, EARTH, ROCK, OR OTHER MASS OF MATERIAL BY SUCH METHODS AS DIGGING, BACKFILLING, DEMOLITION, GRADING, DITCHING, DRILLING, BORING AND CABLE PLOWING. THE EXCAVATOR MUST NOTIFY THE GAS UTILITY A MINIMUM OF 48 HOURS AND A MAXIMUM OF 5 DAYS PRIOR TO EXCAVATING (EXCLUDING SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS).

4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROJECT SITE DURING CONSTRUCTION, TO PREVENT TRESPASSING OF UNAUTHORIZED PEDESTRIANS AND/OR VEHICLES IN ALL WORK AREAS. THE CONTRACTOR SHALL POST SIGNS, CONSTRUCT BARRIERS OR IMPLEMENT OTHER METHODS NECESSARY TO CONTROL ACCESS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR TRESPASSING ON THE CONSTRUCTION SITE OR DAMAGES TO ANY WORK RELATED THERETO.

5. CONTRACTOR SHALL NOTIFY ALL APPROPRIATE UTILITY COMPANIES OF PROPOSED START OF WORK IN ACCORDANCE WITH THEIR STANDARD REQUIREMENTS; INCLUDING BUT NOT LIMITED TO WATER, RECLAIMED WATER, SEWER, POWER, TELEPHONE, GAS AND CABLE TV COMPANIES.

6. PRIOR TO COMMENCEMENT, CONTRACTOR SHALL PROVIDE POULOS & BENNETT WITH A CRITICAL PATH METHOD (CPM) CONSTRUCTION SCHEDULE. SCHEDULES SHALL BE UPDATED MONTHLY AND SUBMITTED WITH PAY APPLICATIONS.

7. EXISTING UTILITIES HAVE BEEN FIELD VERIFIED BY THE PROJECT SURVEYOR AT AREAS OF CONNECTION AND AREAS OF CONFLICT AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD RE-VERIFICATION OF SIZE AND LOCATION OF ALL EXISTING UTILITIES AND RELATED CONSTRUCTION PRIOR TO COMMENCEMENT OF WORK. SHALL THE CONTRACTOR OBSERVE ANY DEVIATIONS FROM WHAT IS SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF SAID PRIOR TO COMMENCEMENT OF WORK. ANY WORK THAT MUST BE REDONE DUE TO FAILURE OF CONTRACTOR TO NOTIFY THE ENGINEER OF DEVIATIONS PRIOR TO CONSTRUCTION WILL BE AT THE CONTRACTOR'S SOLE EXPENSE.

8. ANY DIFFERING SITE CONDITIONS FROM THAT WHICH IS REPRESENTED HEREON, WHETHER ABOVE, ON OR BELOW THE SURFACE OF THE GROUND, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND OWNER IN WRITING. NO CLAIM FOR EXPENSES INCURRED BY THE CONTRACTOR DUE TO DIFFERING SITE CONDITIONS WILL BE ALLOWED IF CONTRACTOR FAILS TO PROVIDE THE REQUIRED WRITTEN NOTIFICATION OF SUCH CONDITIONS FOR REVIEW BY THE ENGINEER AND OWNER.

9. AS PART OF THE CLEARING AND GRUBBING OPERATION, THE CONTRACTOR IS TO REMOVE ALL FENCING AND/OR EXISTING FACILITIES FROM THE SITE. CONTRACTOR IS RESPONSIBLE FOR CONDUCTING SITE VISIT TO UNDERSTAND THE EXISTING CONDITIONS OF THE SITE. IF REMOVAL OF EXISTING FACILITIES IS NOT INCLUDED IN THE BASE BID, THEN IT SHALL BE SPECIFICALLY IDENTIFIED.

10. CONTRACTOR SHALL PROTECT WETLANDS AND ALL ADJACENT PROPERTIES FROM DAMAGE BY SEDIMENTATION OR OTHER POTENTIAL CONSTRUCTION RELATED CAUSES.

11. ALL RECOMMENDATIONS AND REQUIREMENTS OF INSPECTION PERSONNEL OTHER THAN OWNER'S SHALL BE REPORTED TO ENGINEER/OWNER/OWNER'S REPRESENTATIVE PRIOR TO IMPLEMENTATION. COMPENSATION WILL NOT BE ALLOWED FOR WORK WHICH IS NOT AUTHORIZED BY ENGINEER/OWNER.

12. CONTRACTOR SHALL BE CAUTIOUS WHEN WORKING NEAR TREES WHICH ARE TO BE SAVED, WHETHER SHOWN IN THE PLANS OR DESIGNATED IN THE FIELD. CONTRACTOR SHALL BECOME FAMILIAR WITH AND CONFORM WITH ALL TREE PROTECTION/PRESERVATION PROVISIONS OF THE CONTRACT DOCUMENTS AND LOCAL GOVERNMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT AND MITIGATION COSTS FOR ANY TREES REMOVED THAT WERE DESIGNATED TO BE PRESERVED.

13. ALL WORK SHALL BE OPEN TO AND SUBJECT TO INSPECTION BY AUTHORIZED PERSONNEL OF THE CITY, COUNTY, OWNER, INVOLVED UTILITY COMPANIES, PROJECT ENGINEER AND REGULATORY AGENCIES.

14. CONTRACTOR SHALL CONFIRM COMPATIBILITY OF PIPE SLOPES AND INVERTS DURING SHOP DRAWING AND MATERIALS ORDERING PHASE OF PROJECT AND ADVISE ENGINEER OF ANY DISCREPANCIES.

15. NO EXISTING MATERIAL SHALL BE USED IN NEW CONSTRUCTION UNLESS APPROVED DURING THE SHOP DRAWING APPROVAL PROCESS OR AS APPROVED BY ENGINEER/OWNER IN WRITING.

16. CONTRACTOR SHALL STAKE ALL IMPROVEMENTS USING THE ROAD CENTERLINE GEOMETRY AND COORDINATES PROVIDED IN THESE PLANS. CONTRACTOR SHALL CONFIRM WITH THE ENGINEER THAT THE PLATS ARE CURRENT PRIOR TO CONSTRUCTION. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COMPLETELY STAKE AND CHECK ALL IMPROVEMENTS TO ENSURE ADEQUATE POSITIONING, BOTH HORIZONTAL AND VERTICAL.

17. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SURVEY MONUMENTATION. DISTURBED MONUMENTATION SHALL BE RESTORED BY A FLORIDA-LICENSED LAND SURVEYOR SELECTED BY THE OWNER AT CONTRACTOR'S EXPENSE.

18. IMMEDIATELY AT ONSET OF CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES CRITICAL TO COMPLETING THE PROJECT (INCLUDING WATER, REUSE, SEWER, POWER, TELEPHONE, GAS, AND CABLE TV) AND SHALL EVALUATE POTENTIAL CONFLICTS. ALL SUCH CONFLICTS SHALL BE REPORTED TO ENGINEER/OWNER IMMEDIATELY UPON DISCOVERY.

19. CONTRACTOR SHALL INSTRUCT THE GEOTECHNICAL TESTING LABORATORY PROVIDING CONSTRUCTION TESTING TO PROVIDE POULOS & BENNETT WITH COPIES OF ALL SITE-WORK TEST REPORTS AS THEY ARE GENERATED. CONTRACTOR SHALL MAINTAIN THE RESPONSIBILITY OF CONSTRUCTING THE PROJECT IN STRICT ACCORDANCE WITH THE PROJECT PLANS, SPECIFICATIONS AND REQUIREMENTS. RECEIPT OF COPIES OF GEOTECHNICAL REPORTS BY POULOS & BENNETT IN NO WAY OBLIGATES POULOS & BENNETT TO ANY REVIEW, COMMENTS OR ACTIONS REGARDING THE WORK.

20. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL STRUCTURAL CALCULATIONS AND SHOP DRAWINGS FOR PRE-CAST OR CAST IN PLACE HEADWALLS IF DIFFERENT THAN FDOT STANDARD PLANS.

21. CONTRACTOR TO MAINTAIN FENCED AREAS THROUGHOUT CONSTRUCTION.

22. CONTRACTOR SHALL FOLLOW STATE OF FLORIDA EROSION SEDIMENT CONTROL MANUAL FOR ALL SEDIMENT AND EROSION CONTROL MEASURES NEEDED FOR CONSTRUCTION.

23. EXACT LIMITS AND LOCATION OF MUCK REMOVAL TO BE DETERMINED IN THE FIELD UPON REVIEW BY GEOTECHNICAL ENGINEER.

AS-BUILT NOTES:

1. THE CONTRACTOR SHALL SUBMIT A CERTIFIED SET OF AS-BUILTS TO THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING INFORMATION ON THE APPROVED PLANS CONCURRENTLY WITH CONSTRUCTION PROGRESS. AS-BUILTS SUBMITTED TO THE ENGINEER AS PART OF THE PROJECT ACCEPTANCE SHALL COMPLY WITH MUNICIPALITY REQUIREMENTS AND THE FOLLOWING REQUIREMENTS.

1.1. THE VERTICAL AND HORIZONTAL DATUMS USED SHALL BE AS STATED ON THE DRAWINGS.

1.2. DRAWINGS SHALL BE LEGIBLY MARKED TO RECORD ACTUAL CONSTRUCTION.

1.3. DRAWINGS SHALL SHOW ACTUAL LOCATION OF ALL UNDERGROUND AND ABOVE GROUND STORM DRAINAGE, POTABLE WATER, RECLAIMED WATER, FORCEMAIN, SANITARY SEWER AND RELATED APPURTENANCES. ALL CHANGES TO PIPING LOCATION INCLUDING HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES AND APPURTENANCES SHALL BE CLEARLY SHOWN AND REFERENCED TO PERMANENT SURFACE IMPROVEMENTS. DRAWINGS SHALL ALSO SHOW ACTUAL INSTALLED PIPE MATERIAL, CLASS, ETC.

1.4. DRAWINGS SHALL CLEARLY INDICATE VERTICAL AND HORIZONTAL SEPARATION BETWEEN POTABLE WATER MAIN AND STORM DRAINAGE/SANITARY SEWER/RECLAIMED WATER MAINS/FORCEMAIN AT POINTS OF CROSSING IN ACCORDANCE WITH FDEP CRITERIA AND UTILITY PROVIDER REQUIREMENTS.

1.5. DRAWINGS SHALL CLEARLY SHOW ALL FIELD CHANGES OF DIMENSION AND DETAIL INCLUDING CHANGES MADE BY FIELD ORDER OR BY CHANGE ORDER.

1.6. DRAWINGS SHALL CLEARLY SHOW ALL DETAILS NOT ON ORIGINAL CONTRACT DRAWINGS, BUT CONSTRUCTED IN THE FIELD. ALL EQUIPMENT AND PIPING RELOCATION SHALL BE CLEARLY SHOWN.

1.7. LOCATION OF ALL INLETS, MANHOLES, HYDRANTS, VALVES, AND VALVE BOXES SHALL BE SHOWN. ALL VALVES SHALL BE REFERENCED FROM AT LEAST TWO AND PREFERABLY THREE PERMANENT POINTS OR BY STATE PLANE COORDINATES OR OTHER UTILITY PROVIDER ACCEPTABLE REFERENCE.

1.8. DIMENSIONS BETWEEN ALL INLETS AND MANHOLES SHALL BE FIELD VERIFIED AND THE INVERTS, AND GRADE ELEVATIONS OF ALL INLETS AND MANHOLES SHALL BE SHOWN.

1.9. CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY FOR POND GRADING. AS-BUILT POND CONTOURS SHALL BE PROVIDED AT TOP OF BANK, POND BOTTOM, AND ALL GRADE BREAKS AND ELEVATIONS SPECIFIED ON THE PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR RE-GRADING POND SLOPES THAT ARE STEEPER THAN REQUIRED PER PLAN (HORIZONTAL:VERTICAL) TO A DEPTH OF 2 FT MINIMUM BELOW THE SLWT.

1.10. EACH SHEET OF THE AS-BUILTS PLANS SHALL BE SIGNED, SEALED AND DATED BY REGISTERED SURVEYOR WITH A NOTE READING "THESE AS-BUILT DRAWINGS ACCURATELY DEPICT THE ACTUAL IMPROVEMENTS AS CONSTRUCTED".

1.11. WHERE THE POTABLE WATER MAIN CROSSES OTHER UTILITIES (STORM, GRAVITY SEWER, FORCEMAIN AND RECLAIMED WATER), THE CERTIFIED AS-BUILT DRAWINGS SHALL CLEARLY INDICATE THE CONSTRUCTED ELEVATIONS, ALONG WITH PHOTOGRAPHS OF EACH CROSSING, IN SUCH A WAY THAT THE VERTICAL SEPARATION BETWEEN THE WATER MAIN AND OTHER UTILITIES MAY BE VERIFIED BY THE ENGINEER. FAILURE TO PROVIDE THIS INFORMATION WILL RESULT IN THE CONTRACTOR EXCAVATING AND SURVEYING THE UTILITIES AT NO ADDITIONAL COST TO THE OWNER.

1.12. WHERE THE POTABLE WATER MAIN CROSSES OTHER UTILITIES (STORM, GRAVITY SEWER, FORCEMAIN AND RECLAIMED WATER), THE CERTIFIED AS-BUILT DRAWINGS SHALL CLEARLY INDICATE THE LOCATIONS OF PIPE JOINTS IN SUCH A MANNER AS TO DEMONSTRATE THE PIPE IS CENTERED AT ALL THE CROSSINGS. FAILURE TO PROVIDE THIS INFORMATION WILL RESULT IN THE CONTRACTOR EXCAVATING AND SURVEYING THE UTILITIES AT NO ADDITIONAL COST TO THE OWNER.

1.13. WHERE UPGRADED PIPE MATERIALS ARE SHOWN IN THE PLANS OR AS DIRECTED IN THE FIELD BY THE ENGINEER OR MUNICIPALITY, THE LENGTH, LOCATIONS, FITTINGS, ETC. FOR UPGRADED PIPE SHALL BE SHOWN ON THE AS-BUILT DRAWINGS, RECORD DRAWINGS OR PHOTOS.

2. AS-BUILT DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH POULOS & BENNETT CAD STANDARDS.

3. COMPLETE AS-BUILTS AND ASSET TABLES, MEETING JURISDICTION HAVING AUTHORITY STANDARDS AND CONSTRUCTION SPECIFICATIONS, SHALL BE PROVIDED TO POULOS & BENNETT FOR REVIEW AND APPROVAL. PAY APPLICATIONS REQUESTING PAYMENT BEYOND 80% OF CONTRACT AMOUNT, PER SYSTEM MAY BE HELD AT THE DISCRETION OF THE OWNER UNTIL THE AS-BUILTS AND ASSET TABLES ARE DEEMED COMPLETE BY POULOS & BENNETT. AS-BUILT DRAWINGS OR A STATUS SHALL BE PROVIDED WITH EACH PAY APPLICATION.

EROSION CONTROL NOTES:

1. SEE EROSION CONTROL PLAN & DETAILS

SURVEY AND CONTROL:

1. BOUNDARY, EXISTING TOPOGRAPHY AND CONTOURS, AND BENCHMARKS BASED ON THE FOLLOWING:
SURVEYOR: ATLANTIC SURVEYING, INC
308 S DILLARD ST.
WINTER GARDEN, FL 34787
(407) 656-4993

2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SURVEY MONUMENTATION, DISTURBED MONUMENTATION SHALL BE RESTORED BY A FLORIDA-LICENSED LAND SURVEYOR SELECTED BY THE OWNER AT THE CONTRACTOR'S SOLE EXPENSE.

3. BENCHMARK LOCATION AND ELEVATION ARE AS REPRESENTED BY SURVEYOR AT THE TIME OF THE SURVEY. CONTRACTOR SHALL VERIFY ITS CORRECTNESS AT TIME OF CONSTRUCTION.

4. 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. THE CONTRACTOR SHALL PROVIDE WRITTEN CONFIRMATION WITHIN 48 HOURS OF NOTIFICATION.

5. GEOTECHNICAL SERVICES HAVE BEEN PROVIDED AS REFERENCED BELOW. GEOTECHNICAL RECOMMENDATIONS ARE NOT THE RESPONSIBILITY OF POULOS & BENNETT. POULOS & BENNETT HAS RELIED ON THE BELOW REFERENCED GEOTECHNICAL REPORT(S) IN PREPARATION OF THE DRAWINGS. ANY CONFLICT BETWEEN INFORMATION WITHIN THE REPORT AND THESE DRAWINGS SHALL BE REPORTED TO ENGINEER/OWNER. POULOS & BENNETT ASSUMES NO RESPONSIBILITY FOR THE CORRECTNESS, COMPLETENESS OR ACCURACY OF GEOTECHNICAL INFORMATION.

6. GEOTECHNICAL ENGINEER: UNIVERSAL ENGINEERING SCIENCES
REPORT NO(S): 1765631.V2
DATE (S): APRIL 22, 2020; REVISED MAY 11, 2020

7. MASTER DRAINAGE BY DAVID KELLY, PE OF POULOS & BENNETT, LLC

PAVING, DRAINAGE AND GRADING:

1. THE CONTRACTOR SHALL INSTALL, AS PART OF THE INFRASTRUCTURE AND PRIOR TO CERTIFICATE OF COMPLETION, DROP CURBS AND HANDICAP RAMPS AT ALL INTERSECTIONS OF SIDEWALK WITH THE PROPOSED PAVEMENT TO MEET STATE OF FLORIDA ACCESSIBILITY CODE AND FEDERAL A.D.A. REQUIREMENTS.

2. CONTRACTOR IS RESPONSIBLE FOR OBTAINING FDEP GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUND WATER FROM ANY NON-CONTAMINATED SITE ACTIVITY IN ACCORDANCE OF FLORIDA ADMINISTRATIVE CODE 62-621.300 (2), 62-620, AND FLORIDA STATUTES CHAPTER 403.

3. DURING CONSTRUCTION, THE GEOTECHNICAL ENGINEER PROVIDING PROJECT TESTING SHALL MONITOR CONSTRUCTION CONDITIONS AND PROVIDE RECOMMENDATIONS FOR ADDITIONAL ROADWAY UNDERDRAINS AS NEEDED. ENGINEER SHALL BE NOTIFIED OF ANY SUCH RECOMMENDATIONS.

4. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD STAKE CONSERVATION AREA LINES. OWNER RESERVES THE RIGHT TO CHECK THE STAKING AND REQUIRE IT TO BE RELOCATED IF NECESSARY. IT SHALL REMAIN IN PLACE UNTIL ADJACENT CONSTRUCTION IS COMPLETE.

5. ALL SIGNAGE, PAVEMENT MARKING AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH FDOT "DESIGN STANDARDS" 2023-2024 AND FLORIDA HIGHWAY ADMINISTRATION "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES"; 2009 WITH REVISION NUMBERS 1 AND 2 INCORPORATED, DATED MAY 2012.

6. REGULATORY SIGNS (STOP, ETC.) SHALL BE IN PLACE PRIOR TO FINAL INSPECTION OF PAVING AND DRAINAGE IMPROVEMENTS, UNLESS SIGNAGE IS PROVIDED BY THE MUNICIPALITY.

7. PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCE BETWEEN CENTERLINES OF DRAINAGE STRUCTURES AND FROM INVERTS OF ENDWALLS AND/OR MITERED END SECTIONS. BIDDERS SHALL ADJUST FOR PIPE LENGTHS WHEN BIDDING MITERED END SECTIONS.

8. CONTRACTOR SHALL NOT COMPACT, STABILIZE, OR CONSTRUCT BASE COURSE WITHIN LANDSCAPE ISLANDS, TRACTS OR MEDIANS BEYOND LOCATIONS SHOWN IN ROADWAY CROSS SECTIONS. WHERE SUCH TREATMENT DOES OCCUR, IT SHALL BE REMOVED AND REPLACED WITH SUITABLE PLANTING SOILS ACCESSIBLE TO OWNER'S LANDSCAPE ARCHITECT.

9. ALL PAVEMENT RETURN RADII SHALL MEASURED FROM THE INTERFACE TO THE CONCRETE CURB AND PAVEMENT SURFACE UNLESS OTHERWISE NOTED.

10. STORM DRAINS SHALL BE REINFORCED CONCRETE PIPE, PER ASTM C-76 CLASS III, UNLESS OTHERWISE SPECIFIED. LIFTING HOLES ARE PROHIBITED.

11. DITCH BOTTOM AND CONTROL STRUCTURE INLET GRATES SHALL BE SECURED WITH CHAIN AND EYEBOLT.

12. FIVE (5) FEET OF SOD IS REQUIRED AROUND ALL DITCH BOTTOM INLETS, MANHOLES, HEADWALLS AND MITERED END SECTIONS.

13. THE LIMITS OF THE POND TRACTS SHALL BE SODDED FROM TRACT LIMITS TO LIMITS SHOWN IN POND SECTION. IN THE CASE OF DRY BOTTOM PONDS, THE BOTTOM WILL BE SEED AND MULCHED UNLESS OTHERWISE SPECIFIED.

14. BLUE REFLECTIVE PAVEMENT MARKERS FOR ALL FIRE HYDRANTS SHALL BE PLACED PER FDOT STANDARD PLANS 706-001.

15. TOP ELEVATIONS OF MANHOLES IN GRASSED AREAS SHALL BE AT MINIMUM 4 INCHES ABOVE FINISH GRADE AND SOD.

16. MINIMUM LONGITUDINAL SLOPE OF CURB SHALL BE 0.30% UNLESS SPECIFIED OTHERWISE.

17. CONTRACTOR IS RESPONSIBLE FOR GRADING ALL PAVEMENT TO DRAIN POSITIVELY. INTERSECTIONS SHALL BE TRANSITIONED TO PROVIDE A SMOOTH DRIVING SURFACE WHILE MAINTAINING POSITIVE DRAINAGE. SHALL AREAS OF POOR DRAINAGE BE OBSERVED, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PLACEMENT OF CURB OR PAVEMENT COURSES, SO THAT RECOMMENDATIONS FOR CORRECTION MAY BE MADE.

18. 100-YEAR FLOOD ELEVATIONS SHOWN HEREIN ARE DERIVED FROM (FEMA/FLOOD INSURANCE RATE MAP OF 12097C, COMMUNITY PANEL #12097C01056, DATED 6/18/2013)

19. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SURVEY MONUMENTATION, DISTURBED MONUMENTATION SHALL BE RESTORED BY A FLORIDA-LICENSED LAND SURVEYOR SELECTED BY THE OWNER AT CONTRACTOR'S EXPENSE.

20. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL STRUCTURAL CALCULATIONS AND SHOP DRAWINGS FOR PRE-CAST OR CAST IN PLACE HEADWALLS IF DIFFERENT THAN FDOT STANDARD PLANS.

21. CONTRACTOR TO MAINTAIN FENCED AREAS THROUGHOUT CONSTRUCTION.

22. CONTRACTOR SHALL FOLLOW STATE OF FLORIDA EROSION SEDIMENT CONTROL MANUAL FOR ALL SEDIMENT AND EROSION CONTROL MEASURES NEEDED FOR CONSTRUCTION.

23. EXACT LIMITS AND LOCATION OF MUCK REMOVAL TO BE DETERMINED IN THE FIELD UPON REVIEW BY GEOTECHNICAL ENGINEER.

AS-BUILT NOTES:

1. THE CONTRACTOR SHALL SUBMIT A CERTIFIED SET OF AS-BUILTS TO THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING INFORMATION ON THE APPROVED PLANS CONCURRENTLY WITH CONSTRUCTION PROGRESS. AS-BUILTS SUBMITTED TO THE ENGINEER AS PART OF THE PROJECT ACCEPTANCE SHALL COMPLY WITH MUNICIPALITY REQUIREMENTS AND THE FOLLOWING REQUIREMENTS.

1.1. THE VERTICAL AND HORIZONTAL DATUMS USED SHALL BE AS STATED ON THE DRAWINGS.

1.2. DRAWINGS SHALL BE LEGIBLY MARKED TO RECORD ACTUAL CONSTRUCTION.

1.3. DRAWINGS SHALL SHOW ACTUAL LOCATION OF ALL UNDERGROUND AND ABOVE GROUND STORM DRAINAGE, POTABLE WATER, RECLAIMED WATER, FORCEMAIN, SANITARY SEWER AND RELATED APPURTENANCES. ALL CHANGES TO PIPING LOCATION INCLUDING HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES AND APPURTENANCES SHALL BE CLEARLY SHOWN AND REFERENCED TO PERMANENT SURFACE IMPROVEMENTS. DRAWINGS SHALL ALSO SHOW ACTUAL INSTALLED PIPE MATERIAL, CLASS, ETC.

1.4. DRAWINGS SHALL CLEARLY INDICATE VERTICAL AND HORIZONTAL SEPARATION BETWEEN POTABLE WATER MAIN AND STORM DRAINAGE/SANITARY SEWER/RECLAIMED WATER MAINS/FORCEMAIN AT POINTS OF CROSSING IN ACCORDANCE WITH FDEP CRITERIA AND UTILITY PROVIDER REQUIREMENTS.

1.5. DRAWINGS SHALL CLEARLY SHOW ALL FIELD CHANGES OF DIMENSION AND DETAIL INCLUDING CHANGES MADE BY FIELD ORDER OR BY CHANGE ORDER.

1.6. DRAWINGS SHALL CLEARLY SHOW ALL DETAILS NOT ON ORIGINAL CONTRACT DRAWINGS, BUT CONSTRUCTED IN THE FIELD. ALL EQUIPMENT AND PIPING RELOCATION SHALL BE CLEARLY SHOWN.

1.7. LOCATION OF ALL INLETS, MANHOLES, HYDRANTS, VALVES, AND VALVE BOXES SHALL BE SHOWN. ALL VALVES SHALL BE REFERENCED FROM AT LEAST TWO AND PREFERABLY THREE PERMANENT POINTS OR BY STATE PLANE COORDINATES OR OTHER UTILITY PROVIDER ACCEPTABLE REFERENCE.

1.8. DIMENSIONS BETWEEN ALL INLETS AND MANHOLES SHALL BE FIELD VERIFIED AND THE INVERTS, AND GRADE ELEVATIONS OF ALL INLETS AND MANHOLES SHALL BE SHOWN.

1.9. CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY FOR POND GRADING. AS-BUILT POND CONTOURS SHALL BE PROVIDED AT TOP OF BANK, POND BOTTOM, AND ALL GRADE BREAKS AND ELEVATIONS SPECIFIED ON THE PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR RE-GRADING POND SLOPES THAT ARE STEEPER THAN REQUIRED PER PLAN (HORIZONTAL:VERTICAL) TO A DEPTH OF 2 FT MINIMUM BELOW THE SLWT.

1.10. EACH SHEET OF THE AS-BUILTS PLANS SHALL BE SIGNED, SEALED AND DATED BY REGISTERED SURVEYOR WITH A NOTE READING "THESE AS-BUILT DRAWINGS ACCURATELY DEPICT THE ACTUAL IMPROVEMENTS AS CONSTRUCTED".

1.11. WHERE THE POTABLE WATER MAIN CROSSES OTHER UTILITIES (STORM, GRAVITY SEWER, FORCEMAIN AND RECLAIMED WATER), THE CERTIFIED AS-BUILT DRAWINGS SHALL CLEARLY INDICATE THE CONSTRUCTED ELEVATIONS, ALONG WITH PHOTOGRAPHS OF EACH CROSSING, IN SUCH A WAY THAT THE VERTICAL SEPARATION BETWEEN THE WATER MAIN AND OTHER UTILITIES MAY BE VERIFIED BY THE ENGINEER. FAILURE TO PROVIDE THIS INFORMATION WILL RESULT IN THE CONTRACTOR EXCAVATING AND SURVEYING THE UTILITIES AT NO ADDITIONAL COST TO THE OWNER.

1.12. WHERE THE POTABLE WATER MAIN CROSSES OTHER UTILITIES (STORM, GRAVITY SEWER, FORCEMAIN AND RECLAIMED WATER), THE CERTIFIED AS-BUILT DRAWINGS SHALL CLEARLY INDICATE THE LOCATIONS OF PIPE JOINTS IN SUCH A MANNER AS TO DEMONSTRATE THE PIPE IS CENTERED AT ALL THE CROSSINGS. FAILURE TO PROVIDE THIS INFORMATION WILL RESULT IN THE CONTRACTOR EXCAVATING AND SURVEYING THE UTILITIES AT NO ADDITIONAL COST TO THE OWNER.

1.13. WHERE UPGRADED PIPE MATERIALS ARE SHOWN IN THE PLANS OR AS DIRECTED IN THE FIELD BY THE ENGINEER OR MUNICIPALITY, THE LENGTH, LOCATIONS, FITTINGS, ETC. FOR UPGRADED PIPE SHALL BE SHOWN ON THE AS-BUILT DRAWINGS, RECORD DRAWINGS OR PHOTOS.

2. AS-BUILT DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH POULOS & BENNETT CAD STANDARDS.

3. COMPLETE AS-BUILTS AND ASSET TABLES, MEETING JURISDICTION HAVING AUTHORITY STANDARDS AND CONSTRUCTION SPECIFICATIONS, SHALL BE PROVIDED TO POULOS & BENNETT FOR REVIEW AND APPROVAL. PAY APPLICATIONS REQUESTING PAYMENT BEYOND 80% OF CONTRACT AMOUNT, PER SYSTEM MAY BE HELD AT THE DISCRETION OF THE OWNER UNTIL THE AS-BUILTS AND ASSET TABLES ARE DEEMED COMPLETE BY POULOS & BENNETT. AS-BUILT DRAWINGS OR A STATUS SHALL BE PROVIDED WITH EACH PAY APPLICATION.

EROSION CONTROL NOTES:

1. SEE EROSION CONTROL PLAN & DETAILS

SURVEY AND CONTROL:

1. BOUNDARY, EXISTING TOPOGRAPHY AND CONTOURS, AND BENCHMARKS BASED ON THE FOLLOWING:
SURVEYOR: ATLANTIC SURVEYING, INC
308 S DILLARD ST.
WINTER GARDEN, FL 34787
(407) 656-4993

2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SURVEY MONUMENTATION, DISTURBED MONUMENTATION SHALL BE RESTORED BY A FLORIDA-LICENSED LAND SURVEYOR SELECTED BY THE OWNER AT THE CONTRACTOR'S SOLE EXPENSE.

3. BENCHMARK LOCATION AND ELEVATION ARE AS REPRESENTED BY SURVEYOR AT THE TIME OF THE SURVEY. CONTRACTOR SHALL VERIFY ITS CORRECTNESS AT TIME OF CONSTRUCTION.

4. 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. THE CONTRACTOR SHALL PROVIDE WRITTEN CONFIRMATION WITHIN 48 HOURS OF NOTIFICATION.

5. GEOTECHNICAL SERVICES HAVE BEEN PROVIDED AS REFERENCED BELOW. GEOTECHNICAL RECOMMENDATIONS ARE NOT THE RESPONSIBILITY OF POULOS & BENNETT. POULOS & BENNETT HAS RELIED ON THE BELOW REFERENCED GEOTECHNICAL REPORT(S) IN PREPARATION OF THE DRAWINGS. ANY CONFLICT BETWEEN INFORMATION WITHIN THE REPORT AND THESE DRAWINGS SHALL BE REPORTED TO ENGINEER/OWNER. POULOS & BENNETT ASSUMES NO RESPONSIBILITY FOR THE CORRECTNESS, COMPLETENESS OR ACCURACY OF GEOTECHNICAL INFORMATION.

6. GEOTECHNICAL ENGINEER: UNIVERSAL ENGINEERING SCIENCES
REPORT NO(S): 1765631.V2
DATE (S): APRIL 22, 2020; REVISED MAY 11, 2020

7. MASTER DRAINAGE BY DAVID KELLY, PE OF POULOS & BENNETT, LLC

PAVING, DRAINAGE AND GRADING:

1. THE CONTRACTOR SHALL INSTALL, AS PART OF THE INFRASTRUCTURE AND PRIOR TO CERTIFICATE OF COMPLETION, DROP CURBS AND HANDICAP RAMPS AT ALL INTERSECTIONS OF SIDEWALK WITH THE PROPOSED PAVEMENT TO MEET STATE OF FLORIDA ACCESSIBILITY CODE AND FEDERAL A.D.A. REQUIREMENTS.

2. CONTRACTOR IS RESPONSIBLE FOR OBTAINING FDEP GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUND WATER FROM ANY NON-CONTAMINATED SITE ACTIVITY IN ACCORDANCE OF FLORIDA ADMINISTRATIVE CODE 62-621.300 (2), 62-620, AND FLORIDA STATUTES CHAPTER 403.

3. DURING CONSTRUCTION, THE GEOTECHNICAL ENGINEER PROVIDING PROJECT TESTING SHALL MONITOR CONSTRUCTION CONDITIONS AND PROVIDE RECOMMENDATIONS FOR ADDITIONAL ROADWAY UNDERDRAINS AS NEEDED. ENGINEER SHALL BE NOTIFIED OF ANY SUCH RECOMMENDATIONS.

4. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD STAKE CONSERVATION AREA LINES. OWNER RESERVES THE RIGHT TO CHECK THE STAKING AND REQUIRE IT TO BE RELOCATED IF NECESSARY. IT SHALL REMAIN IN PLACE UNTIL ADJACENT CONSTRUCTION IS COMPLETE.

5. ALL SIGNAGE, PAVEMENT MARKING AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH FDOT "DESIGN STANDARDS" 2023-2024 AND FLORIDA HIGHWAY ADMINISTRATION "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES"; 2009 WITH REVISION NUMBERS 1 AND 2 INCORPORATED, DATED MAY 2012.

6. REGULATORY SIGNS (STOP, ETC.) SHALL BE IN PLACE PRIOR TO FINAL INSPECTION OF PAVING AND DRAINAGE IMPROVEMENTS, UNLESS SIGNAGE IS PROVIDED BY THE MUNICIPALITY.

7. PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCE BETWEEN CENTERLINES OF DRAINAGE STRUCTURES AND FROM INVERTS OF ENDWALLS AND/OR MITERED END SECTIONS. BIDDERS SHALL ADJUST FOR PIPE LENGTHS WHEN BIDDING MITERED END SECTIONS.

8. CONTRACTOR SHALL NOT COMPACT, STABILIZE, OR CONSTRUCT BASE COURSE WITHIN LANDSCAPE ISLANDS, TRACTS OR MEDIANS BEYOND LOCATIONS SHOWN IN ROADWAY CROSS SECTIONS. WHERE SUCH TREATMENT DOES OCCUR, IT SHALL BE REMOVED AND REPLACED WITH SUITABLE PLANTING SOILS ACCESSIBLE TO OWNER'S LANDSCAPE ARCHITECT.

9. ALL PAVEMENT RETURN RADII SHALL MEASURED FROM THE INTERFACE TO THE CONCRETE CURB AND PAVEMENT SURFACE UNLESS OTHERWISE NOTED.

10. STORM DRAINS SHALL BE REINFORCED CONCRETE PIPE, PER ASTM C-76 CLASS III, UNLESS OTHERWISE SPECIFIED. LIFTING HOLES ARE PROHIBITED.

11. DITCH BOTTOM AND CONTROL STRUCTURE INLET GRATES SHALL BE SECURED WITH CHAIN AND EYEBOLT.

12. FIVE (5) FEET OF SOD IS REQUIRED AROUND ALL DITCH BOTTOM INLETS, MANHOLES, HEADWALLS AND MITERED END SECTIONS.

13. THE LIMITS OF THE POND TRACTS SHALL BE SODDED FROM TRACT LIMITS TO LIMITS SHOWN IN POND SECTION. IN THE CASE OF DRY BOTTOM PONDS, THE BOTTOM WILL BE SEED AND MULCHED UNLESS OTHERWISE SPECIFIED.

14. BLUE REFLECTIVE PAVEMENT MARKERS FOR ALL FIRE HYDRANTS SHALL BE PLACED PER FDOT STANDARD PLANS 706-001.

15. TOP ELEVATIONS OF MANHOLES IN GRASSED AREAS SHALL BE AT MINIMUM 4 INCHES ABOVE FINISH GRADE AND SOD.

16. MINIMUM LONGITUDINAL SLOPE OF CURB SHALL BE 0.30% UNLESS SPECIFIED OTHERWISE.

17. CONTRACTOR IS RESPONSIBLE FOR GRADING ALL PAVEMENT TO DRAIN POSITIVELY. INTERSECTIONS SHALL BE TRANSITIONED TO PROVIDE A SMOOTH DRIVING SURFACE WHILE MAINTAINING POSITIVE DRAINAGE. SHALL AREAS OF POOR DRAINAGE BE OBSERVED, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PLACEMENT OF CURB OR PAVEMENT COURSES, SO THAT RECOMMENDATIONS FOR CORRECTION MAY BE MADE.

18. 100-YEAR FLOOD ELEVATIONS SHOWN HEREIN ARE DERIVED FROM (FEMA/FLOOD INSURANCE RATE MAP OF 12097C, COMMUNITY PANEL #12097C01056, DATED 6/18/2013)

19. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SURVEY MONUMENTATION, DISTURBED MONUMENTATION SHALL BE RESTORED BY A FLORIDA-LICENSED LAND SURVEYOR SELECTED BY THE OWNER AT CONTRACTOR'S EXPENSE.

20. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL STRUCTURAL CALCULATIONS AND SHOP DRAWINGS FOR PRE-CAST OR CAST IN PLACE HEADWALLS IF DIFFERENT THAN FDOT STANDARD PLANS.

21. CONTRACTOR TO MAINTAIN FENCED AREAS THROUGHOUT CONSTRUCTION.

22. CONTRACTOR SHALL FOLLOW STATE OF FLORIDA EROSION SEDIMENT CONTROL MANUAL FOR ALL SEDIMENT AND EROSION CONTROL MEASURES NEEDED FOR CONSTRUCTION.

23. EXACT LIMITS AND LOCATION OF MUCK REMOVAL TO BE DETERMINED IN THE FIELD UPON REVIEW BY GEOTECHNICAL ENGINEER.

AS-BUILT NOTES:

1. THE CONTRACTOR SHALL SUBMIT A CERTIFIED SET OF AS-BUILTS TO THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING INFORMATION ON THE APPROVED PLANS CONCURRENTLY WITH CONSTRUCTION PROGRESS. AS-BUILTS SUBMITTED TO THE ENGINEER AS PART OF THE PROJECT ACCEPTANCE SHALL COMPLY WITH MUNICIPALITY REQUIREMENTS AND THE FOLLOWING REQUIREMENTS.

1.1. THE VERTICAL AND HORIZONTAL DATUMS USED SHALL BE AS STATED ON THE DRAWINGS.

1.2. DRAWINGS SHALL BE LEGIBLY MARKED TO RECORD ACTUAL CONSTRUCTION.

1.3. DRAWINGS SHALL SHOW ACTUAL LOCATION OF ALL UNDERGROUND AND ABOVE GROUND STORM DRAINAGE, POTABLE WATER, RECLAIMED WATER, FORCEMAIN, SANITARY SEWER AND RELATED APPURTENANCES. ALL CHANGES TO PIPING LOCATION INCLUDING HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES AND APPURTENANCES SHALL BE CLEARLY SHOWN AND REFERENCED TO PERMANENT SURFACE IMPROVEMENTS. DRAWINGS SHALL ALSO SHOW ACTUAL INSTALLED PIPE MATERIAL, CLASS, ETC.

1.4. DRAWINGS SHALL CLEARLY INDICATE VERTICAL AND HORIZONTAL SEPARATION BETWEEN POTABLE WATER MAIN AND STORM DRAINAGE/SANITARY SEWER/RECLAIMED WATER MAINS/FORCEMAIN AT POINTS OF CROSSING IN ACCORDANCE WITH FDEP CRITERIA AND UTILITY PROVIDER REQUIREMENTS.

1.5. DRAWINGS SHALL CLEARLY SHOW ALL FIELD CHANGES OF DIMENSION AND DETAIL INCLUDING CHANGES MADE BY FIELD ORDER OR BY CHANGE ORDER.

1.6. DRAWINGS SHALL CLEARLY SHOW ALL DETAILS NOT ON ORIGINAL CONTRACT DRAWINGS, BUT CONSTRUCTED IN THE FIELD. ALL EQUIPMENT AND PIPING RELOCATION SHALL BE CLEARLY SHOWN.

1.7. LOCATION OF ALL INLETS, MANHOLES, HYDRANTS, VALVES, AND VALVE BOXES SHALL BE SHOWN. ALL VALVES SHALL BE REFERENCED FROM AT LEAST TWO AND PREFERABLY THREE PERMANENT POINTS OR BY STATE PLANE COORDINATES OR OTHER UTILITY PROVIDER ACCEPTABLE REFERENCE.

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1.9. CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY FOR POND GRADING. AS-BUILT POND CONTOURS SHALL BE PROVIDED AT TOP OF BANK, POND BOTTOM, AND ALL GRADE BREAKS AND ELEVATIONS SPECIFIED ON THE PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR RE-GRADING POND SLOPES THAT ARE STEEPER THAN REQUIRED PER PLAN (HORIZONTAL:VERTICAL) TO A DEPTH OF 2 FT MINIMUM BELOW THE SLWT.

1.10. EACH SHEET OF THE AS-BUILTS PLANS SHALL BE SIGNED, SEALED AND DATED BY REGISTERED SURVEYOR WITH A NOTE READING "THESE AS-BUILT DRAWINGS ACCURATELY DEPICT THE ACTUAL IMPROVEMENTS AS CONSTRUCTED".

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1.13. WHERE UPGRADED PIPE MATERIALS ARE SHOWN IN THE PLANS OR AS DIRECTED IN THE FIELD BY THE ENGINEER OR MUNICIPALITY, THE LENGTH, LOCATIONS, FITTINGS, ETC. FOR UPGRADED PIPE SHALL BE SHOWN ON THE AS-BUILT DRAWINGS, RECORD DRAWINGS OR PHOTOS.

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EROSION CONTROL NOTES:

1. SEE EROSION CONTROL PLAN & DETAILS

SURVEY AND CONTROL:

1. BOUNDARY, EXISTING TOPOGRAPHY AND CONTOURS, AND BENCHMARKS BASED ON THE FOLLOWING:
SURVEYOR: ATLANTIC SURVEYING, INC
308 S DILLARD ST.
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2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SURVEY MONUMENTATION, DISTURBED MONUMENTATION SHALL BE RESTORED BY A FLORIDA-LICENSED LAND SURVEYOR SELECTED BY THE OWNER AT THE CONTRACTOR'S SOLE EXPENSE.

3. BENCHMARK LOCATION AND ELEVATION ARE AS REPRESENTED BY SURVEYOR AT THE TIME OF THE SURVEY. CONTRACTOR SHALL VERIFY ITS CORRECTNESS AT TIME OF CONSTRUCTION.

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6. GEOTECHNICAL ENGINEER: UNIVERSAL ENGINEERING SCIENCES
REPORT NO(S): 1765631.V2
DATE (S): APRIL 22, 2020; REVISED MAY 11, 2020

7. MASTER DRAINAGE BY DAVID KELLY, PE OF POULOS & BENNETT, LLC

PAVING, DRAINAGE AND GRADING:

1. THE CONTRACTOR SHALL INSTALL, AS PART OF THE INFRASTRUCTURE AND PRIOR TO CERTIFICATE OF COMPLETION, DROP CURBS AND HANDICAP RAMPS AT ALL INTERSECTIONS OF SIDEWALK WITH THE PROPOSED PAVEMENT TO MEET STATE OF FLORIDA ACCESSIBILITY CODE AND FEDERAL A.D.A. REQUIREMENTS.

2. CONTRACTOR IS RESPONSIBLE FOR OBTAINING FDEP GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUND WATER FROM ANY NON-CONTAMINATED SITE ACTIVITY IN ACCORDANCE OF FLORIDA ADMINISTRATIVE CODE 62-621.300 (2), 62-620, AND FLORIDA STATUTES CHAPTER 403.

3. DURING CONSTRUCTION, THE GEOTECHNICAL ENGINEER PROVIDING PROJECT TESTING SHALL MONITOR CONSTRUCTION CONDITIONS AND PROVIDE RECOMMENDATIONS FOR ADDITIONAL ROADWAY UNDERDRAINS AS NEEDED. ENGINEER SHALL BE NOTIFIED OF ANY SUCH RECOMMENDATIONS.

4. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD STAKE CONSERVATION AREA LINES. OWNER RESERVES THE RIGHT TO CHECK THE STAKING AND REQUIRE IT TO BE RELOCATED IF NECESSARY. IT SHALL REMAIN IN PLACE UNTIL ADJACENT CONSTRUCTION IS COMPLETE.

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6. REGULATORY SIGNS (STOP, ETC.) SHALL BE IN PLACE PRIOR TO FINAL INSPECTION OF PAVING AND DRAINAGE IMPROVEMENTS, UNLESS SIGNAGE IS PROVIDED BY THE MUNICIPALITY.

7. PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCE BETWEEN CENTERLINES OF DRAINAGE STRUCTURES AND FROM INVERTS OF ENDWALLS AND/OR MITERED END SECTIONS. BIDDERS SHALL ADJUST FOR PIPE LENGTHS WHEN BIDDING MITERED END SECTIONS.

8. CONTRACTOR SHALL NOT COMPACT, STABILIZE, OR CONSTRUCT BASE COURSE WITHIN LANDSCAPE ISLANDS, TRACTS OR MEDIANS BEYOND LOCATIONS SHOWN IN ROADWAY CROSS SECTIONS. WHERE SUCH TREATMENT DOES OCCUR, IT SHALL BE REMOVED AND REPLACED WITH SUITABLE PLANTING SOILS ACCESSIBLE TO OWNER'S LANDSCAPE ARCHITECT.

9. ALL PAVEMENT RETURN RADII SHALL MEASURED FROM THE INTERFACE TO THE CONCRETE CURB AND PAVEMENT SURFACE UNLESS OTHERWISE NOTED.

10. STORM DRAINS SHALL BE REINFORCED CONCRETE PIPE, PER ASTM C-76 CLASS III, UNLESS OTHERWISE SPECIFIED. LIFTING HOLES ARE PROHIBITED.

11. DITCH BOTTOM AND CONTROL STRUCTURE INLET GRATES SHALL BE SECURED WITH CHAIN AND EYEBOLT.

12. FIVE (5) FEET OF SOD IS REQUIRED AROUND ALL DITCH BOTTOM INLETS, MANHOLES, HEADWALLS AND MITERED END SECTIONS.

13. THE LIMITS OF THE POND TRACTS SHALL BE SODDED FROM TRACT LIMITS TO LIMITS SHOWN IN POND SECTION. IN THE CASE OF DRY BOTTOM PONDS, THE BOTTOM WILL BE SEED AND MULCHED UNLESS OTHERWISE SPECIFIED.

14. BLUE REFLECTIVE PAVEMENT MARKERS FOR ALL FIRE HYDRANTS SHALL BE PLACED PER FDOT STANDARD PLANS 706-001.

15. TOP ELEVATIONS OF MANHOLES IN GRASSED AREAS SHALL BE AT MINIMUM 4 INCHES ABOVE FINISH GRADE AND SOD.

16. MINIMUM LONGITUDINAL SLOPE OF CURB SHALL BE 0.30% UNLESS SPECIFIED OTHERWISE.

17. CONTRACTOR IS RESPONSIBLE FOR GRADING ALL PAVEMENT TO DRAIN POSITIVELY. INTERSECTIONS SHALL BE TRANSITIONED TO PROVIDE A SMOOTH DRIVING SURFACE WHILE MAINTAINING POSITIVE DRAINAGE. SHALL AREAS OF POOR DRAINAGE BE OBSERVED, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PLACEMENT OF CURB OR PAVEMENT COURSES, SO THAT RECOMMENDATIONS FOR CORRECTION MAY BE MADE.

18. 100-YEAR FLOOD ELEVATIONS SHOWN HEREIN ARE DERIVED FROM (FEMA/FLOOD INSURANCE RATE MAP OF 12097C, COMMUNITY PANEL #12097C01056, DATED 6/18/2013)

19. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SURVEY MONUMENTATION, DISTURBED MONUMENTATION SHALL BE RESTORED BY A FLORIDA-LICENSED LAND SURVEYOR SELECTED BY THE OWNER AT CONTRACTOR'S EXPENSE.

20. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL STRUCTURAL CALCULATIONS AND SHOP DRAWINGS FOR PRE-CAST OR CAST IN PLACE HEADWALLS IF DIFFERENT THAN FDOT STANDARD PLANS.

Osceola County
Community Development

THIS APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:
 1. ALL DISTURBED COUNTY RIGHTS OF WAY SHALL BE RESTORED. SOD SHALL BE PLACED FROM BACK OF CURB/EDGE OF PAVEMENT (EXCLUDING SIDEWALKS) TO THE TOE OF BANK AND ALL AREAS SHALL MATCH OR EXCEED PRECONSTRUCTION CONDITIONS.
 2. ALL OFF-SITE DISTURBED AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION, OR BETTER.
 3. ENGINEER RESERVES THE RIGHT TO WITHHOLD AUTHORIZATION FOR PAYMENT FOR ANY ROADWORK WHICH HAS NOT BEEN TESTED BY A FLORIDA-REGISTERED GEOTECHNICAL ENGINEER AND REPORTED TO CONFORM TO PROJECT SPECIFICATIONS.
 4. DRAINAGE MANHOLES AND INLETS (NOT INCLUDING CONTROL STRUCTURES) IN THE PLANS ARE IDENTIFIED BY TOP TYPE ONLY. CONTRACTOR SHALL PROVIDE STANDARD DITCH BOTTOM INLET, J OR P STRUCTURE BOTTOMS, SIZED AS REQUIRED TO ACCOMMODATE PIPE SIZES AND ORIENTATIONS SHOWN. SHOP DRAWINGS SHALL BE SUBMITTED WHICH CLEARLY REPRESENT SUCH DATA.

23. CONTRACTOR SHALL STABILIZE AND PROTECT ALL END WALL, MITERED END SECTION, FLARED END SECTION, ETC. STRUCTURES THROUGHOUT THE PROJECT UNTIL THE BANK SLOPES OF THE RECEIVING WATER BODY ARE STABILIZED AND ACCEPTED BY OWNER.

24. DRAINAGE STRUCTURE TOP ELEVATIONS REFER TO THE ELEVATION OF THE TOP OF CURB FOR CURB INLETS AND THE RIM OR GRATE ELEVATION FOR MANHOLES AND DITCH BOTTOM INLETS. ELEVATIONS FOR THE RETENTION POND CONTROL STRUCTURES ARE SHOWN ON THE CONTROL STRUCTURE DETAIL SHEETS.

25. STATION AND OFFSET FOR CURB INLETS REFERS TO THE LOCATION IDENTIFIED AS "CENTER OF BOX" IN FDOT STANDARD INDEX 211. STATION AND OFFSET FOR MITERED END SECTIONS REFERS TO THE LOCATION IDENTIFIED AS "LOCATION REFERENCE" IN FDOT STANDARD INDEX 272. STATION AND OFFSET FOR FLARED END SECTIONS REFERS TO THE LOCATION IDENTIFIED AS "C/L OF PIPE" IN FDOT STANDARD INDEX 270. STATION AND OFFSET FOR MANHOLES AND DITCH BOTTOM INLETS REFERS TO THE CENTER OF THE STRUCTURE.

26. VERTICAL CURVE NOTATION ON ALL PLAN & PROFILE SHEETS IS AS FOLLOWS:
 BVCS: BEGIN VERTICAL CURVE STATION
 BVCE: BEGIN VERTICAL CURVE ELEVATION
 EVCS: END VERTICAL CURVE STATION
 EVCE: END VERTICAL CURVE ELEVATION

27. CONTRACTOR TO PROVIDE A STANDARD ISSUE NEW MAILBOX FOR EACH PROPERTY ALONG CYRILS DRIVE. CONTRACTOR TO COORDINATE WITH EACH PROPERTY OWNER FOR LOCATION OF THE MAILBOXES.

DEMOLITION NOTES:

- CONTRACTOR SHALL REMOVE ALL WASTE MATERIAL FOR DISPOSAL OFF-SITE. DISPOSAL SHALL CONFORM TO ALL APPLICABLE REGULATIONS.
- ANY MATERIALS CLAIMED AS SALVAGE BY OWNER EITHER IN THE FIELD OR IN THE DRAWINGS SHALL BE STOCKPILED FOR OWNER'S REMOVAL.
- CONTRACTOR SHALL BE KNOWLEDGEABLE OF THE CONSTRUCTION DOCUMENTS AND BE RESPONSIBLE FOR PROTECTING ANY EXISTING FACILITY SO DESIGNATED OR DESIGNATED TO BE UTILIZED IN THE WORK.
- CONTRACTOR SHALL REMOVE ALL FOUNDATIONS, CONCRETE SLABS AND UNDERGROUND STRUCTURES, EXISTING ON THE SITE AT THE TIME OF BIDDING UNLESS OTHERWISE DIRECTED.
- CONTRACTOR SHALL COORDINATE WITH APPLICABLE UTILITY COMPANIES AND BE RESPONSIBLE FOR THE TERMINATION, CAPPING-OFF AND REMOVAL OF ALL UNDERGROUND AND ABOVE-GROUND UTILITY SERVICES EXISTING AT THE TIME OF BIDDING UNLESS DIRECTED TO BID OTHERWISE.
- CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND DISPOSING ALL WASTE MATERIALS CONSISTENT WITH ALL RULES AND REGULATIONS APPLICABLE TO THE SPECIFIC MATERIAL FOUND.
- CLEARING & GRUBBING IS DEFINED IN FDOT STANDARD PLANS 2023-24.

STANDARD SPECIAL PURPOSE NOTES:

- THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
- THE ENGINEER SHALL BE NOTIFIED OF ANY WELLS ENCOUNTERED DURING CONSTRUCTION. ALL WELLS NOT DESIGNATED TO REMAIN OR FUNCTION SHALL BE PROPERLY SEALED AND ABANDONED PER APPLICABLE AGENCY REQUIREMENTS.

LIGHTING NOTES:

- CONTRACTOR IS TO COORDINATE WITH SARAH RISEDEN, OUC, PHONE: 407.639.8410, UPON RECEIVING NOTICE TO PROCEED, PROVIDING ANTICIPATED CONSTRUCTION SCHEDULE, TO ALLOW SUFFICIENT LEAD TIME FOR OUC TO OBTAIN MATERIALS. CONTRACTOR SHALL NOTIFY OUC IMMEDIATELY OF ANY SCHEDULE CHANGES THAT WILL IMPACT OUC'S CONSTRUCTION AND INSTALLATION WINDOW.
- CONTRACTOR SHALL FURNISH AND INSTALL OUC APPROVED PULL BOXES DIRECTLY FROM THE OUC SUPPLIER. COORDINATE WITH SARAH RISEDEN, OUC, PHONE: 407.639.8410, FOR ADDITIONAL OUC MATERIAL AND SUPPLIER REQUIREMENTS.

CONSULTANTS:

CIVIL: POULOS & BENNETT, LLC
 SURVEY: ATLANTIC SURVEYING, LLC
 GEOTECH: UNIVERSAL ENGINEERING SCIENCES
 ENVIRONMENTAL: AUSTIN ENVIRONMENTAL CONSULTANTS
 TRAFFIC/TRANSPORTATION: TRAFFIC & MOBILITY CONSULTANTS, LLC

STREET NAME SIGNAGE:

- STREET NAME SIGN PANEL HEIGHT SHALL BE 10" INCHES, WIDTH SHALL BE BASED ON TEXT SIZE 6" U.C./4.5" L.C., SERIES C LETTERING PER STANDARD ALPHABETS FOR HIGHWAY SIGNS. SPACES EXPANDED NOT MORE THAN 25% NOR CONDENSED MORE THAN 10%, WITH WHITE BORDER. STREET NAME SIGNS SHALL BE WHITE ON GREEN, EXCEPT SIGNS DESIGNATING NON-COUNTY MAINTAINED ROADS SHALL BE WHITE ON BLUE.

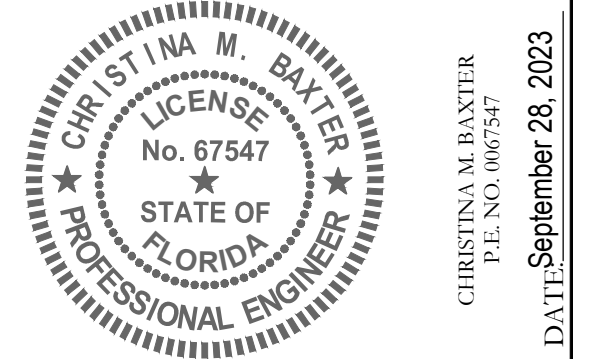
Legend

- = REMOVE EXISTING PAVEMENT
- = MULTI-USE PATH
- = EXISTING PAVEMENT
- = MILL & OVERLAY
- = SIDEWALK
- = SOIL BORING
- = ELECTRIC BOX
- = FIBER OPTIC MARKER
- = GAS VALVE
- = GUY WIRE
- = LIGHT POLE
- = MAILBOX
- = PHONE RISER
- = SPOT ELEVATION IN FEET
- = SIGN
- = TRAFFIC SIGNAL BOX
- = UTILITY POLE
- = FIRE HYDRANT
- = EXISTING FENCE LINE
- = PROPOSED FENCE LINE
- = SILT FENCE
- = EXISTING BURIED FIBER OPTIC
- = PROPOSED BURIED FIBER OPTIC
- = EXISTING OVERHEAD WIRES
- = PROPOSED OVERHEAD WIRES
- = EXISTING BURIED TELEPHONE
- = PROPOSED BURIED TELEPHONE
- = EXISTING BURIED GAS
- = EXISTING BURIED WATER MAIN
- = PROPOSED RECLAIM WATER MAIN

Miscellaneous Legend

OFFSET DISTANCE: +00.00 PARTIAL STATION, 50.00' LT, OFFSET SIDE

NOTE: ALL OFFSET ANNOTATIONS ARE FROM C/L OF CONSTRUCTION UNLESS NOTED IN SHEET



This item has been electronically signed and sealed by Christina M. Baxter on the date adjacent to the seal using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

R E V I S I O N S			
DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT

Poulos & Bennett, LLC
 2602 E. Livingston St., Orlando, FL 32803
 Tel. 407.487.2594 www.poulosandbennett.com
 Eng. Bus. No. 28567

OSCEOLA COUNTY
 PROJECT NO. (SDP23-0132)

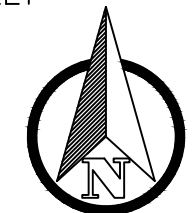
CYRILS DRIVE / NARCOOSSEE ROAD TO
 ABSHER ROAD - ROAD WIDENING
 GENERAL NOTES & DETAILS

SHEET NO.
 3

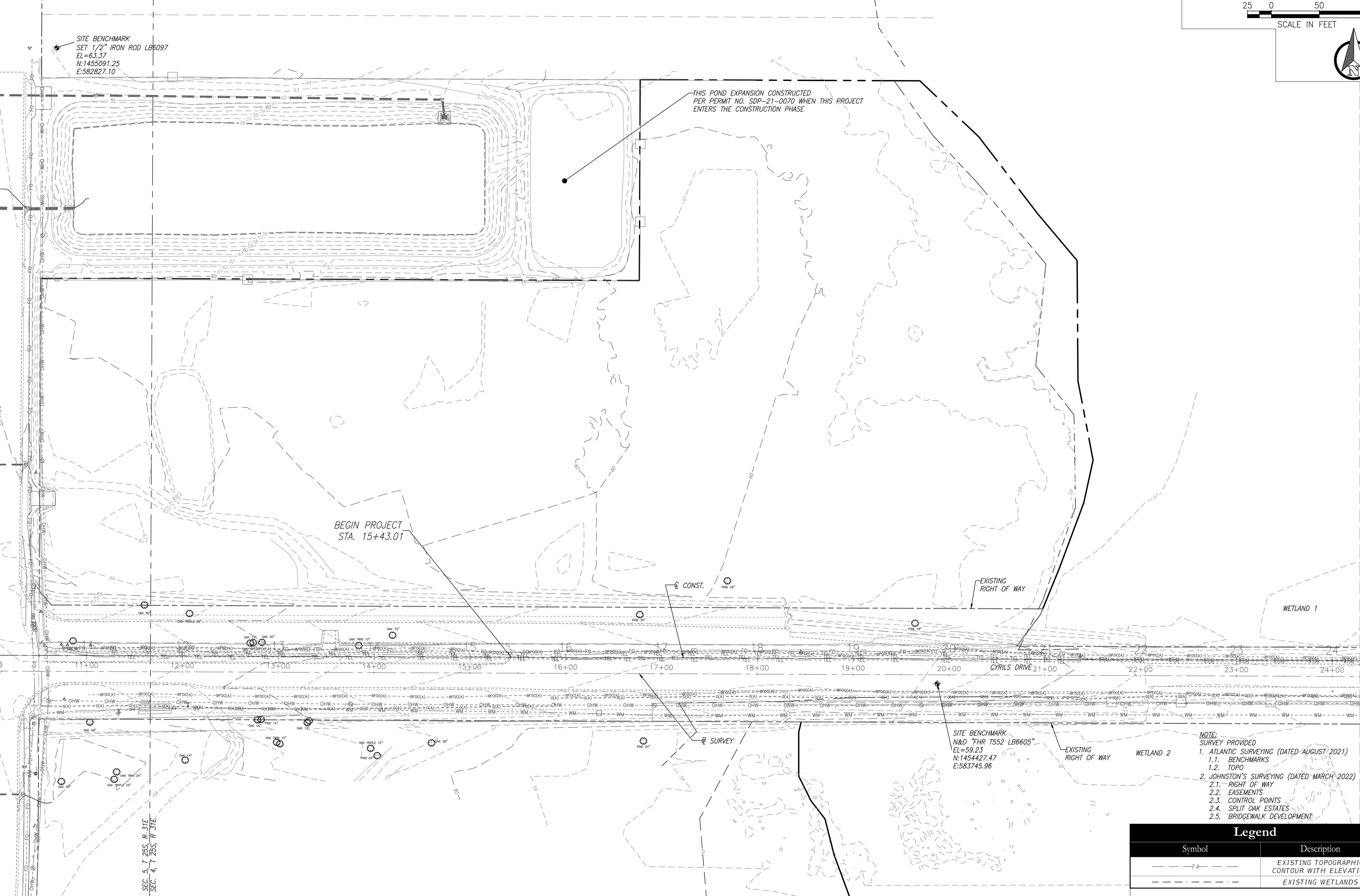
Z:\2017\17-042 TAVISDOCK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-C08&M-NOTES

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY ZONING ORDINANCE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE FACILITY AS CONSTRUCTED WHICH RESULT IN FAILURE TO MEET APPLICABLE CODE REQUIREMENTS. DOES IT REMAIN THE DEVELOPER'S RESPONSIBILITY TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT ARE INCLUDED WITHIN THESE PLANS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF A JURISDICTION OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

NOT VALID WITHOUT A LICENSE CONSTRUCTION PERMIT



363363
362
360
358
356
354
352
350



Z:\2017\17-042 TAVIS\DOCK - SUNBRIDGE\CYRILS DR\MARCOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-1020B-CD&M-EX

BEGIN PROJECT
STA. 15+43.01

THIS POND EXPANSION CONSTRUCTED PER PERMIT NO. SDP-21-0070 WHEN THIS PROJECT ENTERS THE CONSTRUCTION PHASE

SITE BENCHMARK
N&D "THR T552 LB6605"
EL=59.23
N:1454427.47
E:583745.96

- NOTE:
SURVEY PROVIDED
1. ATLANTIC SURVEYING (DATED AUGUST 2021)
 - 1.1. BENCHMARKS
 - 1.2. TOPO
 2. JOHNSTON'S SURVEYING (DATED MARCH 2022)
 - 2.1. RIGHT OF WAY
 - 2.2. EASEMENTS
 - 2.3. CONTROL POINTS
 - 2.4. SPLIT OAK ESTATES
 - 2.5. 'BRIDGEWALK' DEVELOPMENT

Legend	
Symbol	Description
---	EXISTING TOPOGRAPHIC CONTOUR WITH ELEVATION
- - - -	EXISTING WETLANDS

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION



Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

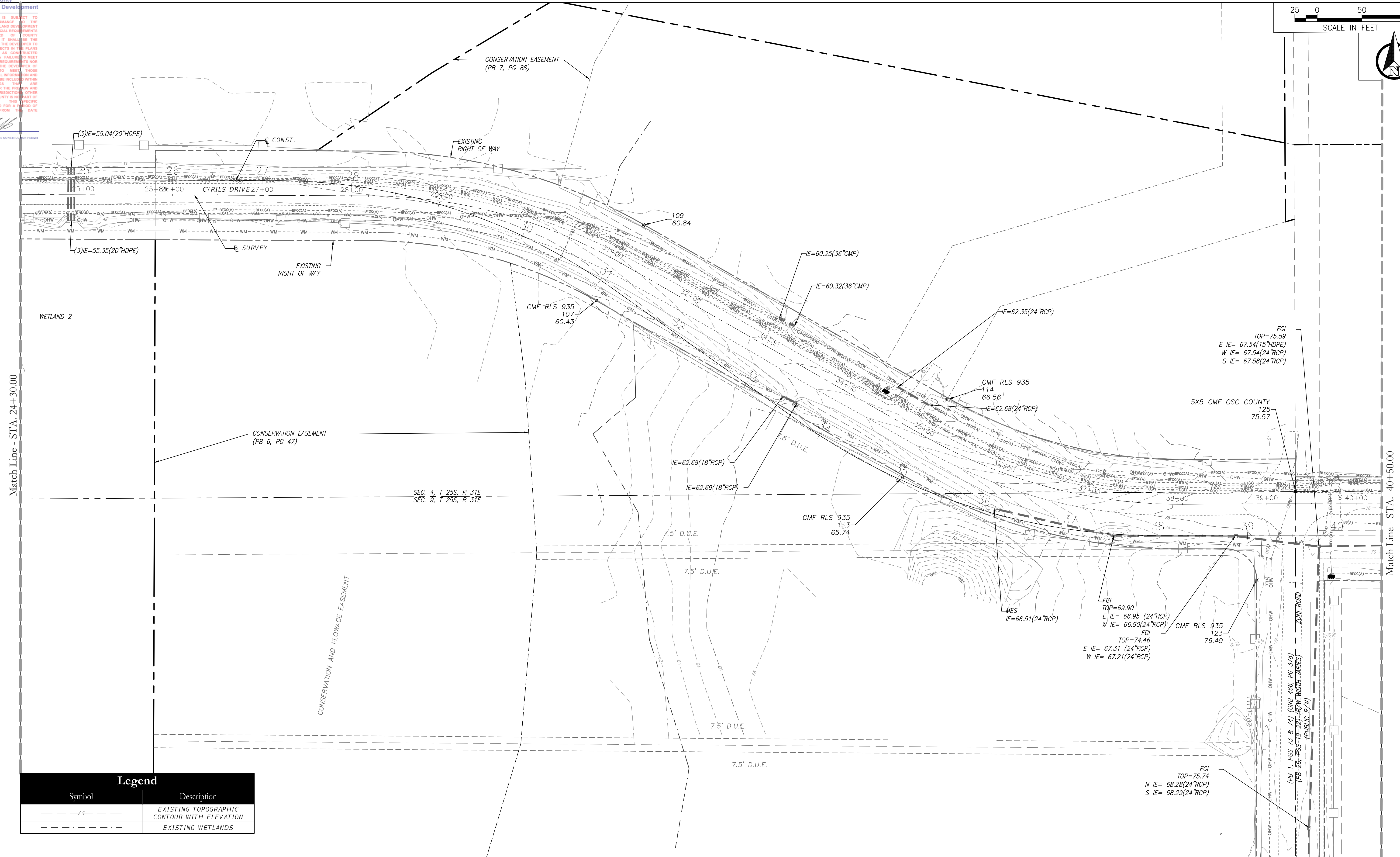
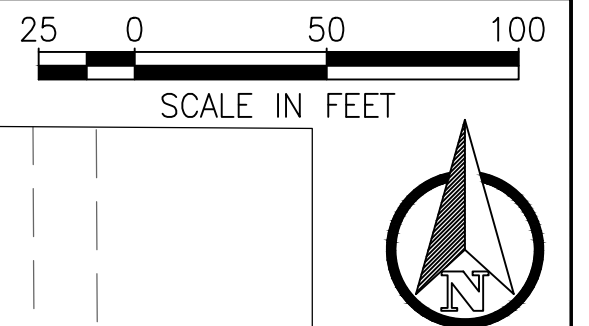
CYRILS DRIVE / MARCOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
EXISTING SURVEY & TOPOGRAPHY

SHEET NO.
4

Match Line - STA. 24+30.00

THIS APPROVAL IS SUBJECT TO SPECIFIC PERFORMANCE BY THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE FACILITY AS CONSTRUCTED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS. THE BOARD DOES NOT RELIEVE THE DEVELOPER OF RESPONSIBILITY TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE PLANS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTION OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



Legend	
Symbol	Description
---74---	EXISTING TOPOGRAPHIC CONTOUR WITH ELEVATION
---	EXISTING WETLANDS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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Poulos & Bennett, LLC
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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

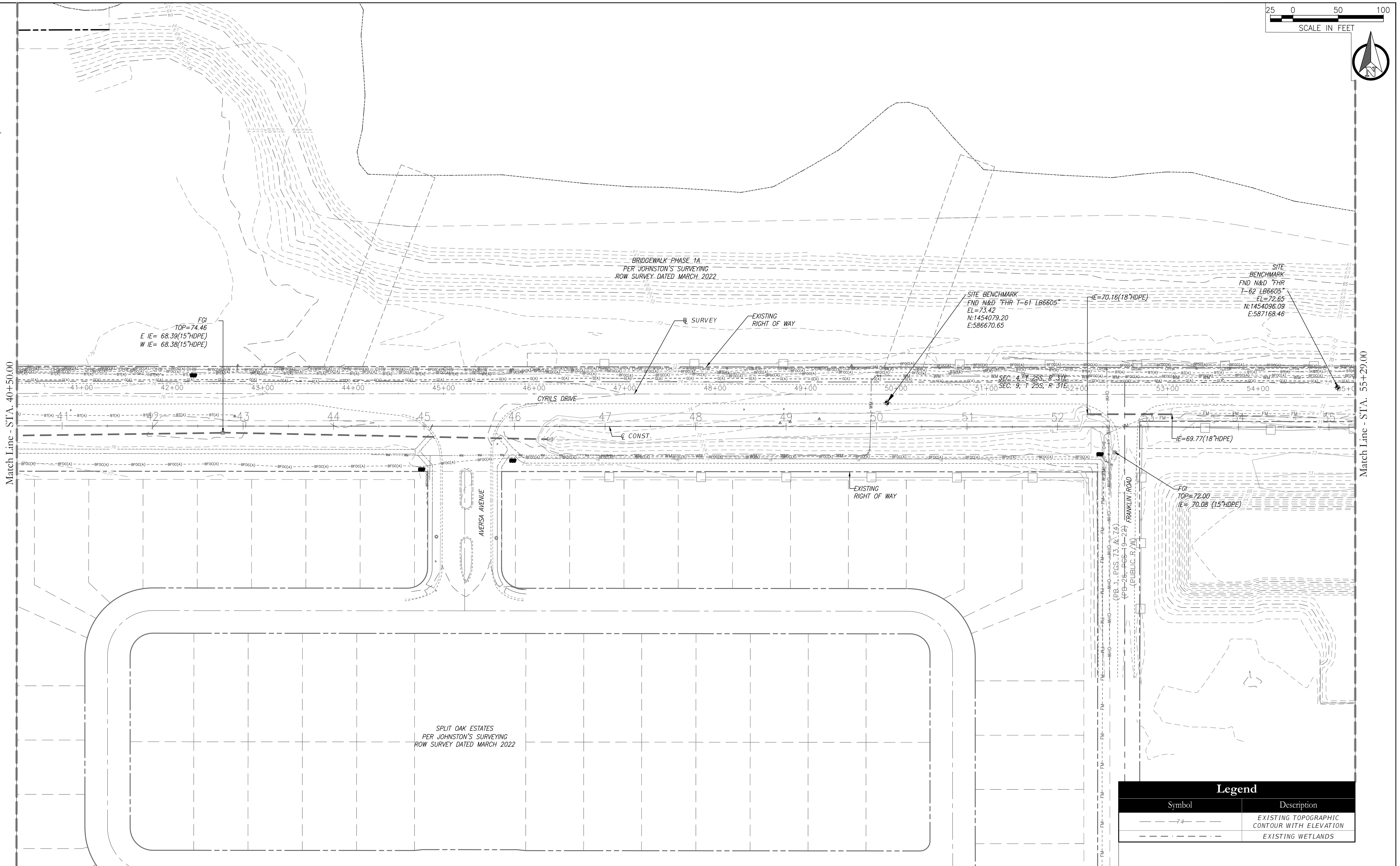
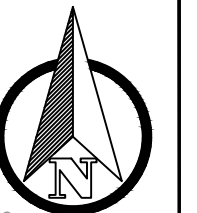
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
EXISTING SURVEY & TOPOGRAPHY

SHEET NO.
5

Z:\2017\17-042 TAVISDOCK - SUNBRIDGE\CYRILS DR\WAC05SEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-EX

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE FACILITY AS CONSTRUCTED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS. THIS DOES NOT RELIEVE THE DEVELOPER OF RESPONSIBILITY TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE PLANS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTIONS OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

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March Line - STA. 40+50.00

Match Line - STA. 55+29.00

Legend	
Symbol	Description
	EXISTING TOPOGRAPHIC CONTOUR WITH ELEVATION
	EXISTING WETLANDS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

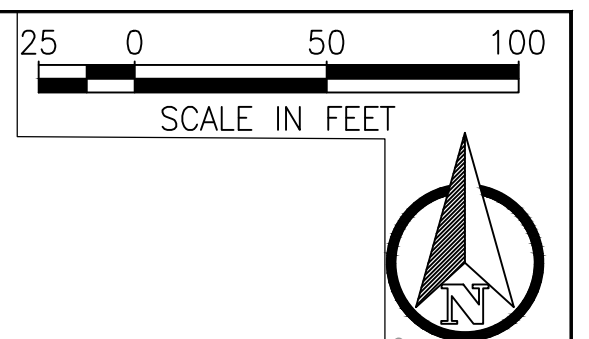
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
EXISTING SURVEY & TOPOGRAPHY

SHEET NO.
6

Z:\2017\17-042 TAVIS\STOCK - SUNBRIDGE\CYRILS DR\WARCOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-EX

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BRIDGEWALK PHASE 1A
PER JOHNSTON'S SURVEYING
ROW SURVEY DATED MARCH 2022

CONSERVATION EASEMENT
(ORB 1335 PG 657)
(PER JOHNSTON'S SURVEYING)

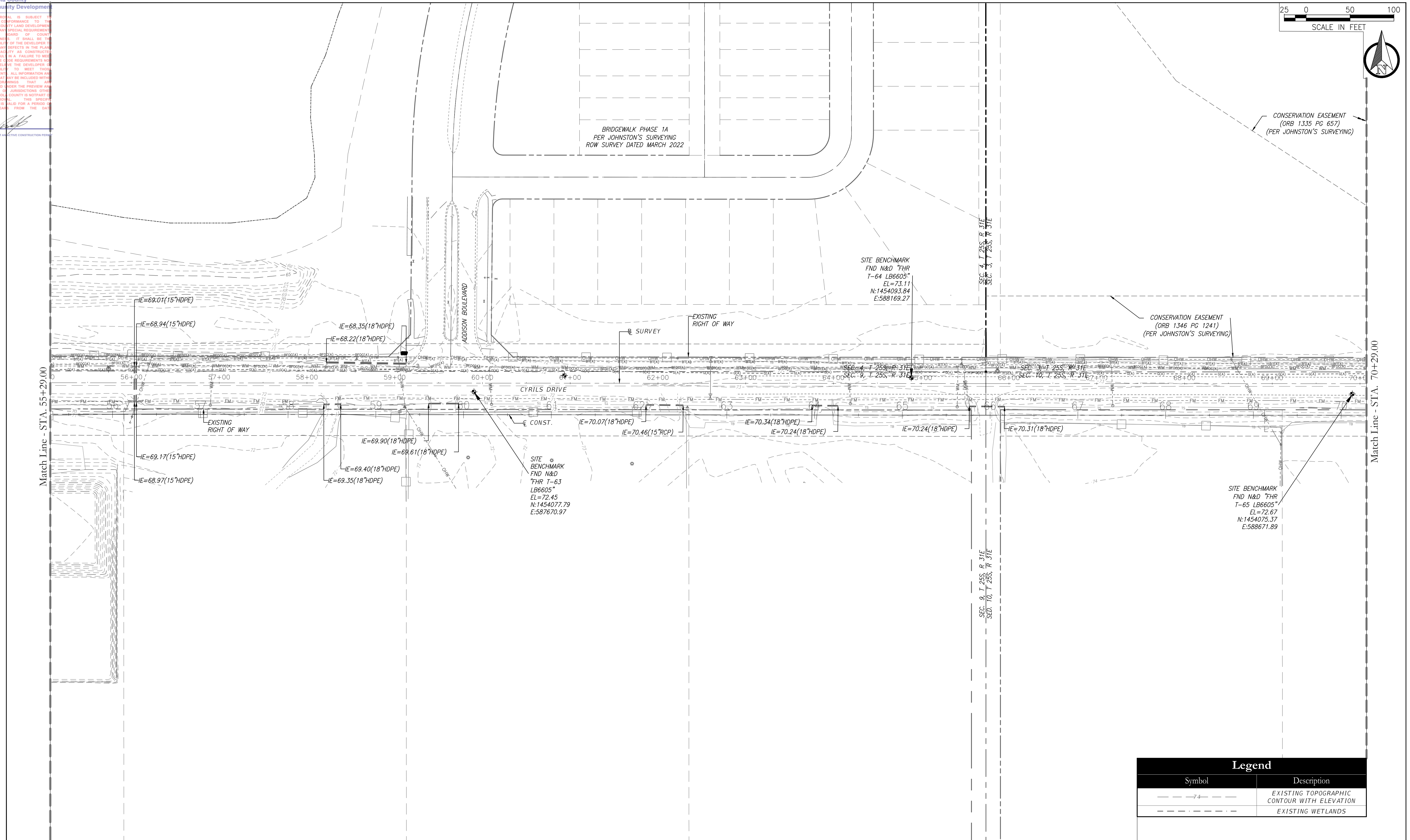
SITE BENCHMARK
FND N&D "FHR
T-64 LB6605"
EL=73.11
N:1454093.84
E:588169.27

CONSERVATION EASEMENT
(ORB 1346 PG 1241)
(PER JOHNSTON'S SURVEYING)

SITE BENCHMARK
FND N&D "FHR
T-65 LB6605"
EL=72.67
N:1454075.37
E:588671.89

Match Line - STA. 55+29.00

Match Line - STA. 70+29.00



Legend	
Symbol	Description
	EXISTING TOPOGRAPHIC CONTOUR WITH ELEVATION
	EXISTING WETLANDS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

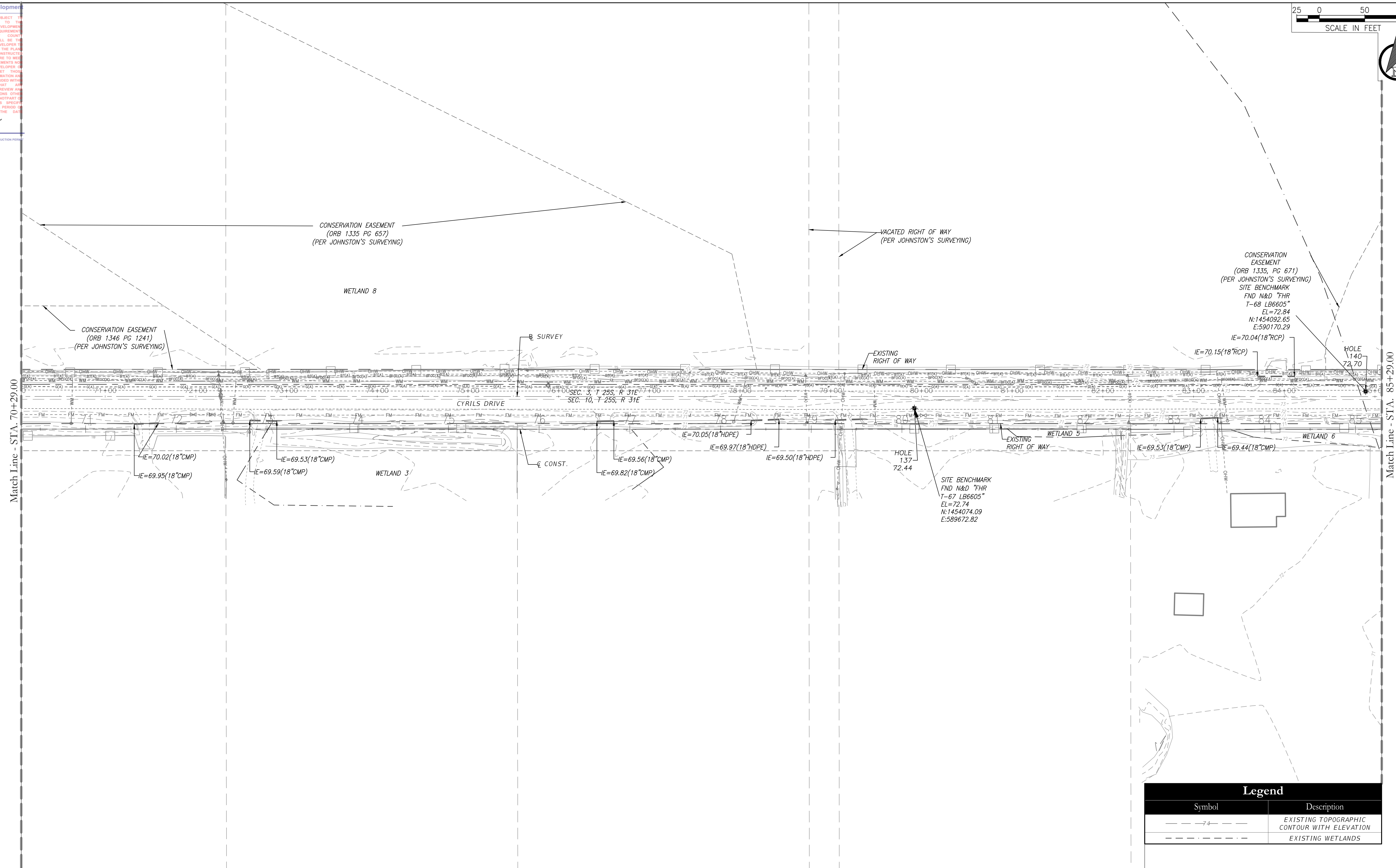
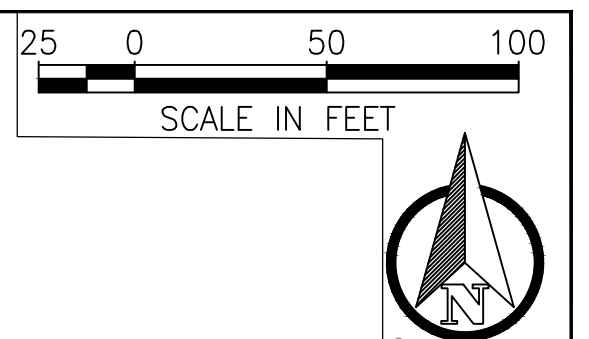
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
EXISTING SURVEY & TOPOGRAPHY

SHEET
NO.
7

Z:\2017\17-042 TAVIS/STOCK - SUNBRIDGE\CYRILS DR\WARCOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-EX

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLAN OR THE FACILITY AS CONSTRUCTED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS. THIS DOES NOT RELIEVE THE DEVELOPER OF RESPONSIBILITY TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE CHANGES THAT ARE CONSIDERED UNDER THE PREVIEW AUTHORITY OF JURISDICTIONS OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

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Legend	
Symbol	Description
---	EXISTING TOPOGRAPHIC CONTOUR WITH ELEVATION
- - -	EXISTING WETLANDS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

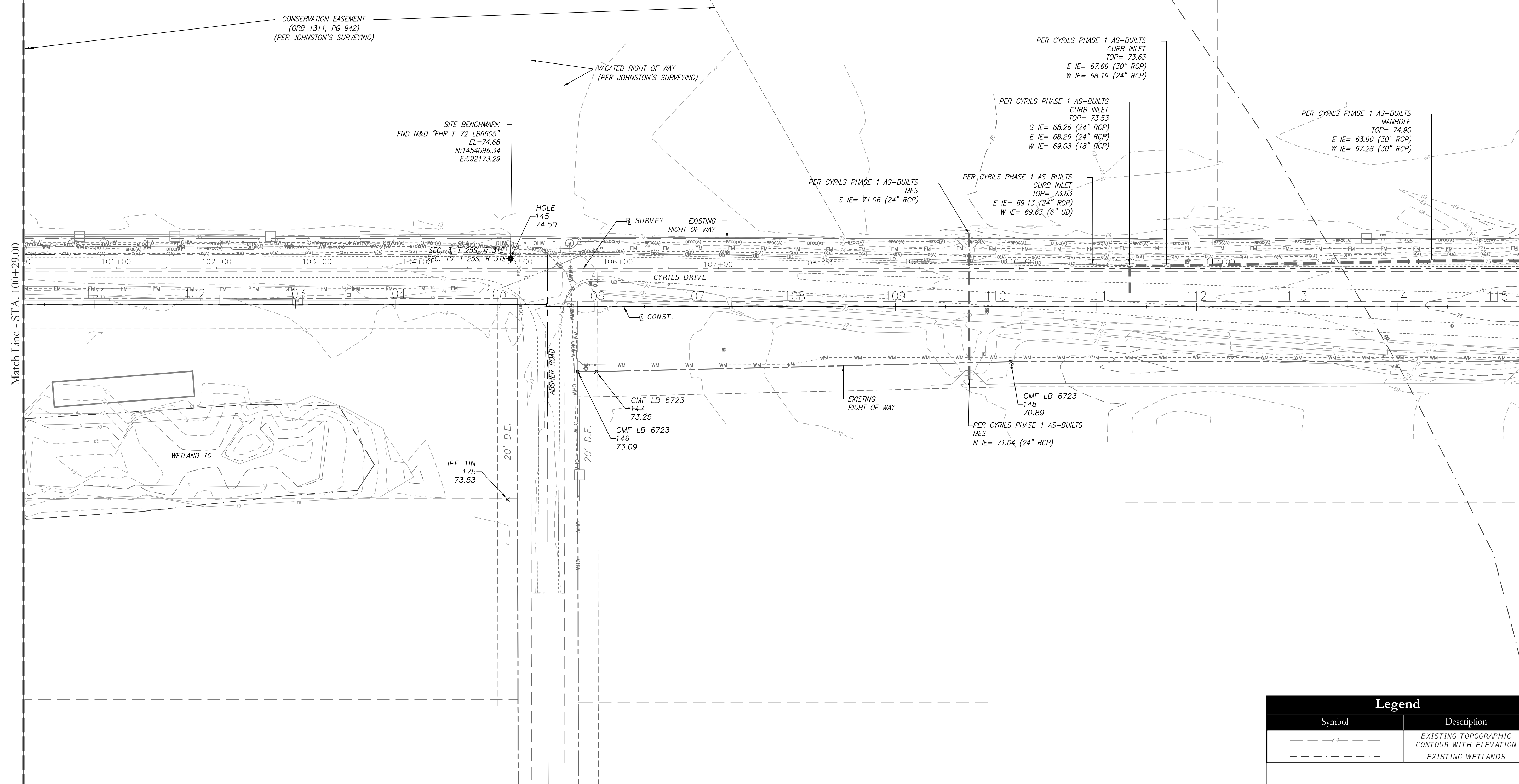
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
EXISTING SURVEY & TOPOGRAPHY

SHEET NO.
8

Z:\2017\17-042 TAVISOCK - SUNBRIDGE\CYRILS DR\WARCOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-EX

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Z:\2017\17-042 TAVISOCK - SUNBRIDGE\CYRILS DR\WACOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-EX

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

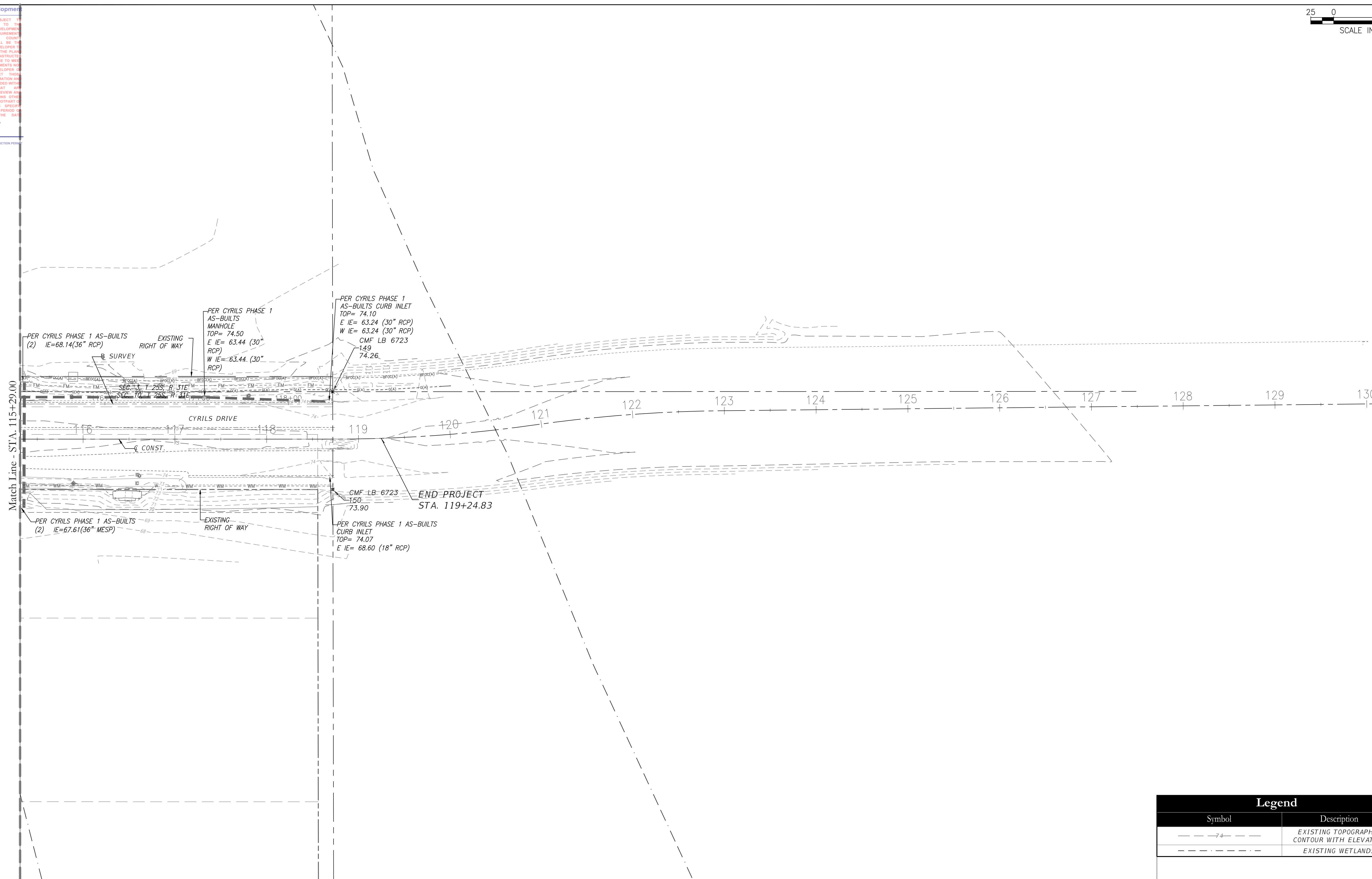
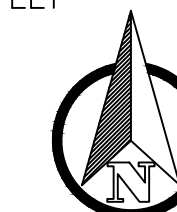
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
EXISTING SURVEY & TOPOGRAPHY

SHEET NO.
10

Legend	
Symbol	Description
---	EXISTING TOPOGRAPHIC CONTOUR WITH ELEVATION
- - -	EXISTING WETLANDS

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLAN OR THE FACILITY AS CONSTRUCTED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS. THIS DOES NOT RELIEVE THE DEVELOPER OF RESPONSIBILITY TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE CHANGES THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTIONS OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

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Legend	
Symbol	Description
---74---	EXISTING TOPOGRAPHIC CONTOUR WITH ELEVATION
- - - - -	EXISTING WETLANDS

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION



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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

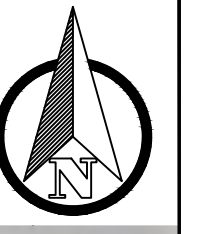
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
EXISTING SURVEY & TOPOGRAPHY

SHEET NO.

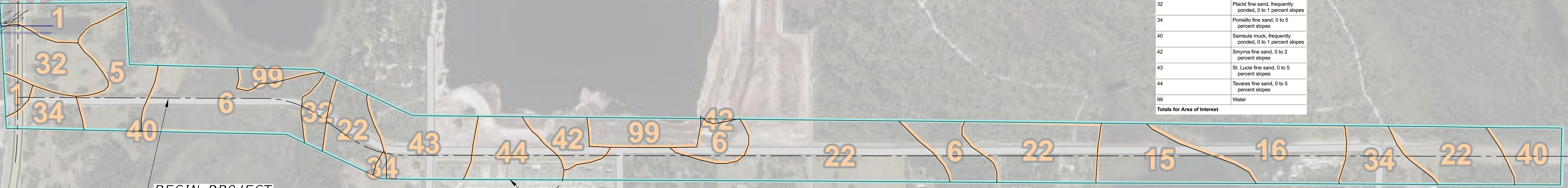
11

THIS APPROVAL IS SUBJECT TO SPECIFIC CONDITIONS TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE FACILITIES CONSTRUCTED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS. IF DOES IT REMAIN THE DEVELOPER OF RESPONSIBILITY TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE DRAWINGS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF A SUBMITTER OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

NOT VALID WITHOUT AN ACTIVE LICENSE PERMIT



Map Unit Symbol	Map Unit Name
1	Adamsville sand, 0 to 2 percent slopes
5	Basinger fine sand, 0 to 2 percent slopes
6	Basinger fine sand, depressional, 0 to 1 percent slopes
15	Horton muck, frequently ponded, 0 to 1 percent slopes
16	Immokalee fine sand, 0 to 2 percent slopes
22	Myakka fine sand, 0 to 2 percent slopes
32	Placid fine sand, frequently ponded, 0 to 1 percent slopes
34	Pomello fine sand, 0 to 5 percent slopes
40	Samsula muck, frequently ponded, 0 to 1 percent slopes
42	Smyrna fine sand, 0 to 2 percent slopes
43	St. Lucie fine sand, 0 to 5 percent slopes
44	Tavares fine sand, 0 to 5 percent slopes
99	Water
Totals for Area of Interest	



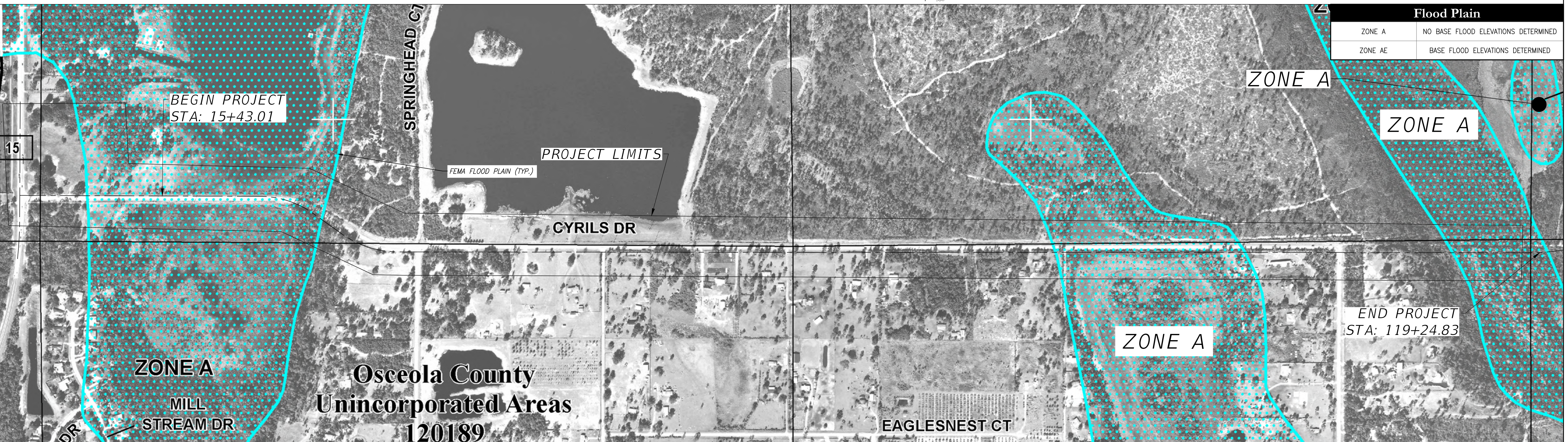
BEGIN PROJECT
STA: 15+43.01

PROJECT LIMITS

END PROJECT
STA: 119+24.83

Legend	
Symbol	Description
	SOIL BOUNDARY

SOILS VIEW - Source: United States Department of Agriculture Soils Report
1" = 350'



Flood Plain	
ZONE A	NO BASE FLOOD ELEVATIONS DETERMINED
ZONE AE	BASE FLOOD ELEVATIONS DETERMINED

BEGIN PROJECT
STA: 15+43.01

PROJECT LIMITS

END PROJECT
STA: 119+24.83

FLOOD ZONE MAP - Source: Donald W. McIntosh Associates, INC.
1" = 350'

Z:\2017\17-042 TAVISTOCK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-16208-CD&M-EX

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

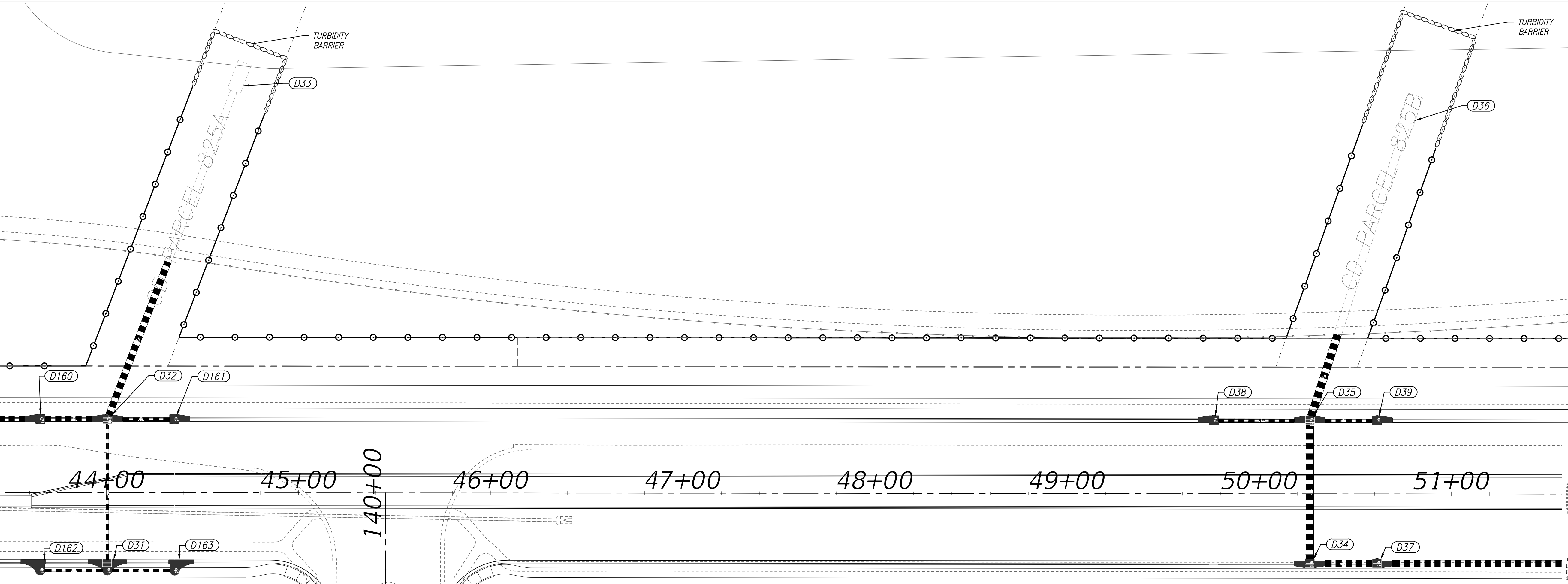
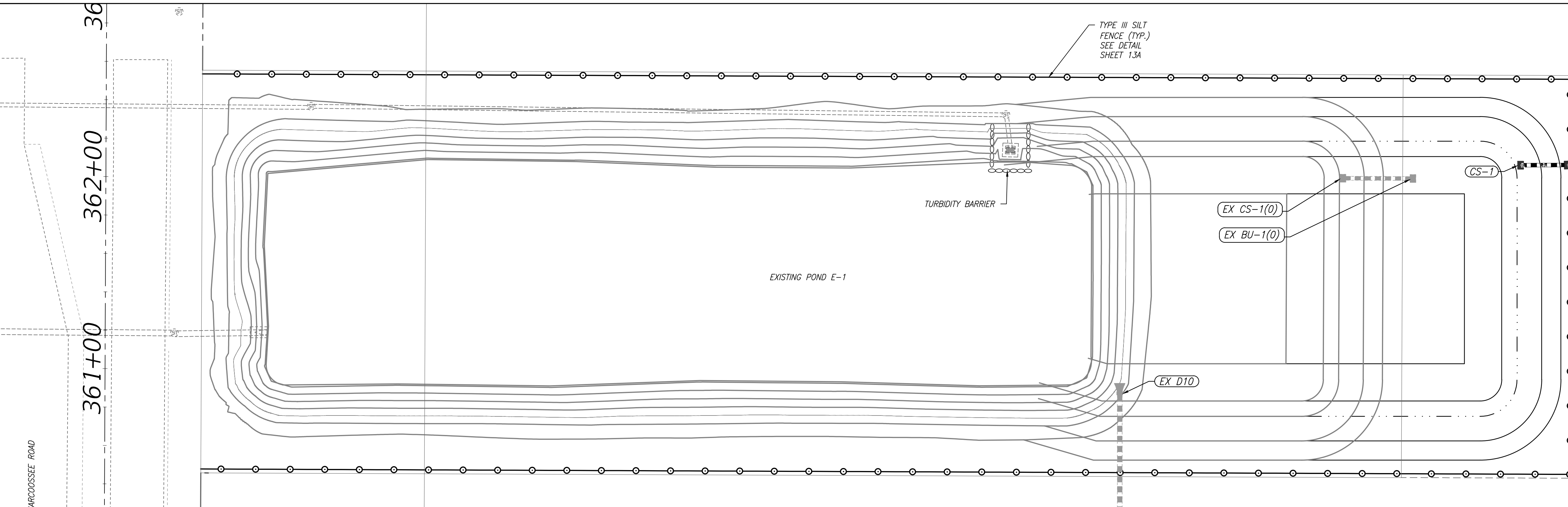
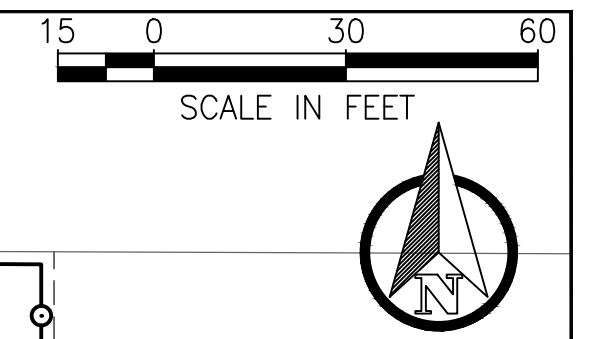
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
EXISTING CONDITIONS -
SOILS & FLOODPLAIN

SHEET NO.
12

Osceola County
Community Development

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLAN OR THE FACILITY AS CONSTRUCTION WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS. DOES IT RELIEVE THE DEVELOPER OF RESPONSIBILITY TO MEET THE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE DRAWINGS THAT ARE NOT CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTION. IF MORE THAN OSCEOLA COUNTY IS NOTIFIED OF THIS APPROVAL. THIS SPECIAL APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

NOT VALID WITHOUT ACTIVE CONSTRUCTION



CHRISTINA M. BAXTER
LICENSE
No. 67547
STATE OF FLORIDA
PROFESSIONAL ENGINEER
DATE: September 28, 2023

This item has been electronically signed and sealed by Christina M. Baxter on the date adjacent to the seal using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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PROJECT NO. (SDP23-0132)

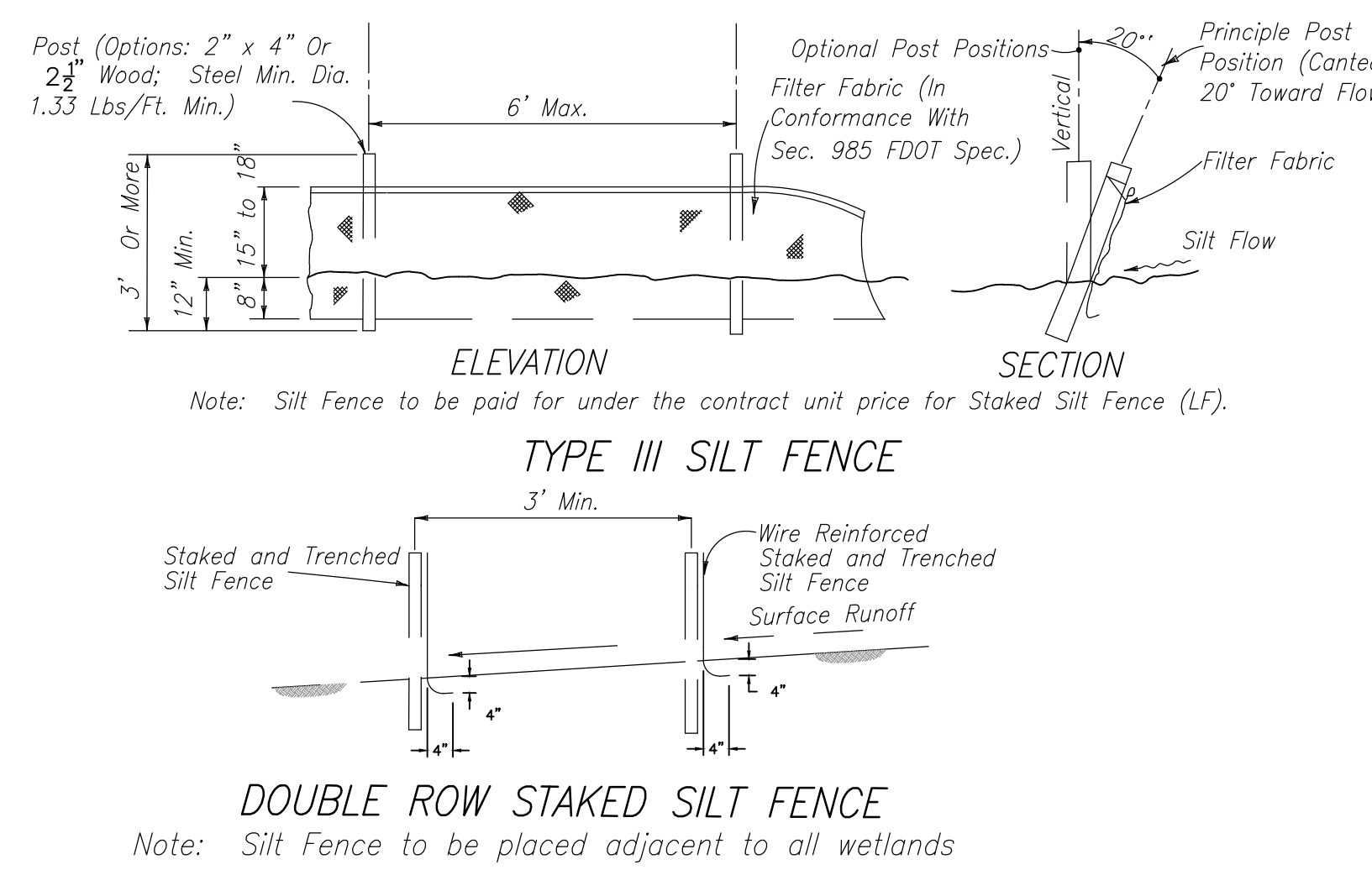
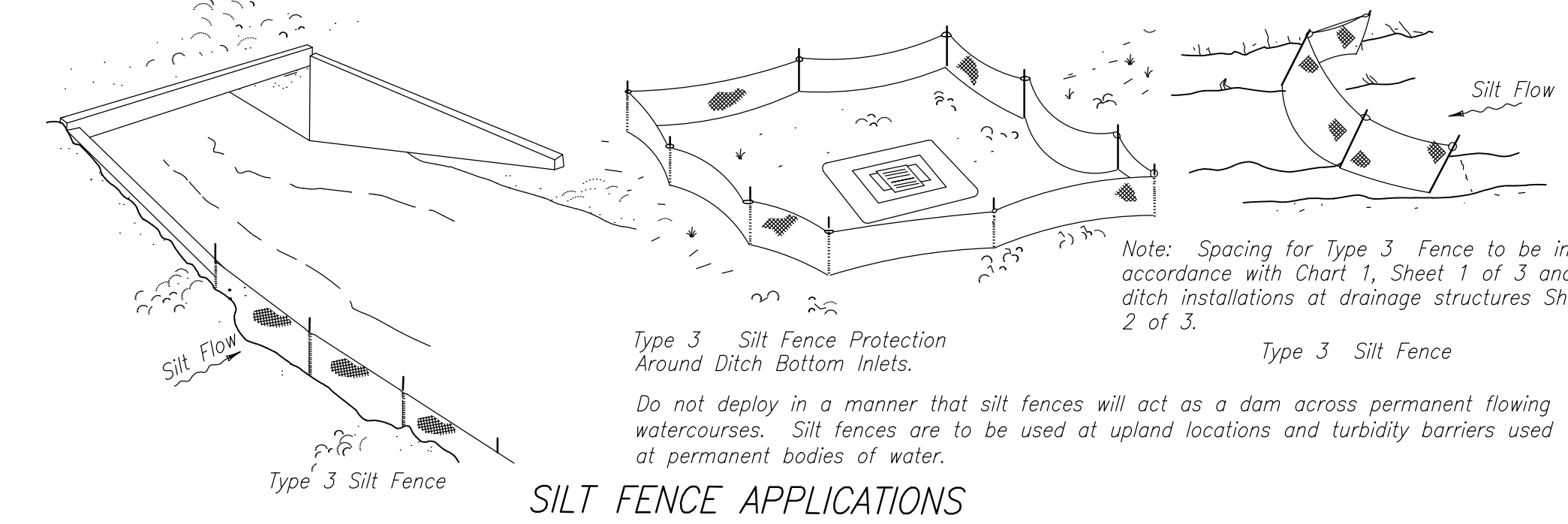
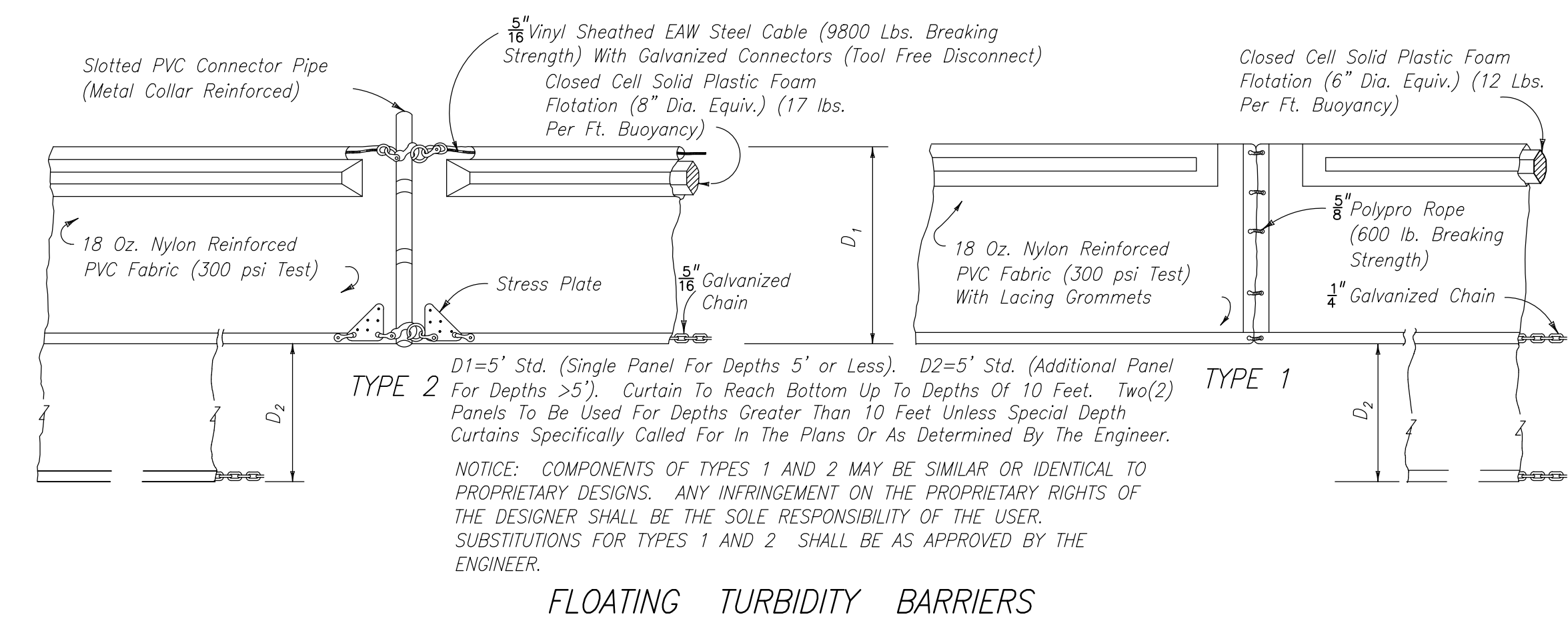
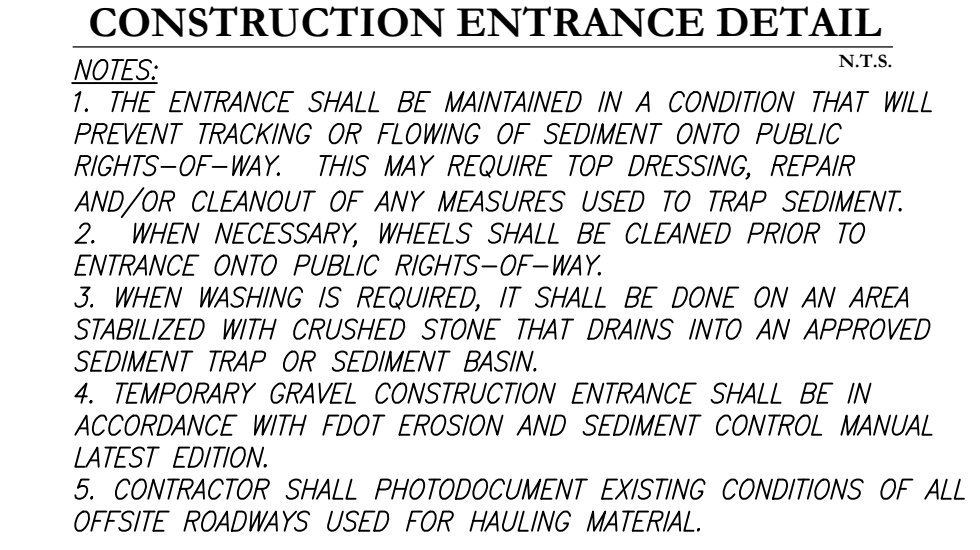
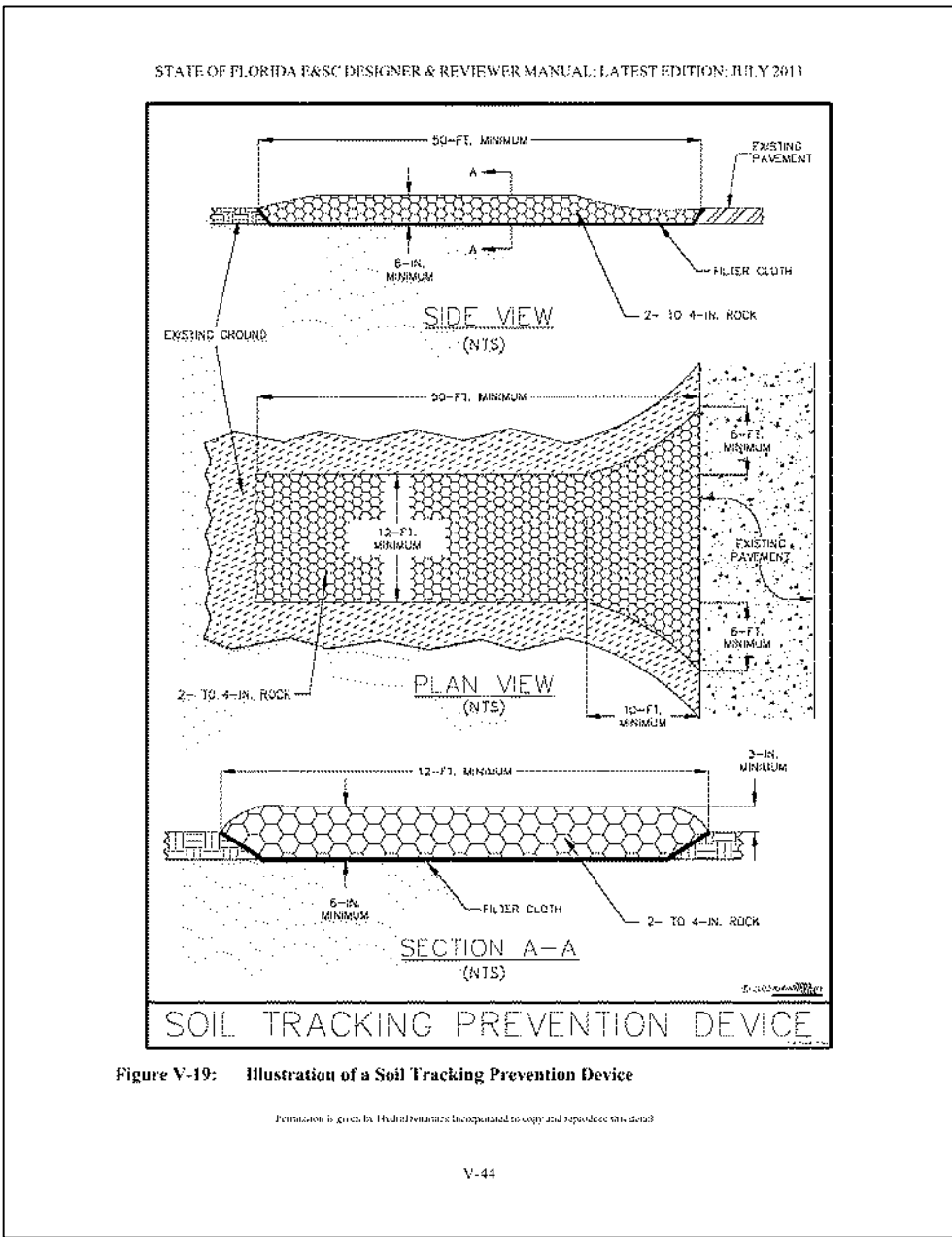
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
EROSION CONTROL PLAN

SHEET NO.
13N

Z:\2017\17-042 TAVIS/STOCK - SUNBRIER\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-04208-CD&M-ECP

EROSION CONTROL NOTES:

- DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO INSURE AGAINST POLLUTING, SILTING OR DISTURBING TO SUCH AN EXTENT AS TO CAUSE AN INCREASE IN TURBIDITY TO THE EXISTING SURFACE WATERS. SUCH MEASURES SHALL BE APPROVED BY THE PROJECT ENGINEER AND MAY INCLUDE, BUT NOT LIMITED TO, CONSTRUCTION OF TEMPORARY EROSION CONTROL STRUCTURES, SUCH AS SEDIMENT BASINS, SEDIMENT CHECKS, OR SILT BARRIERS.
- SODDING OF DETENTION PONDS SHOULD BE ACCOMPLISHED WITHIN SEVEN (7) DAYS FOLLOWING COMPLETION OF GRADING TO MINIMIZE EROSION POTENTIAL.
- AT A MINIMUM, THE RETENTION/DETENTION STORAGE AREA MUST BE EXCAVATED TO ROUGH GRADE PRIOR TO BUILDING CONSTRUCTION OR PLACEMENT OF IMPERVIOUS SURFACE WITHIN THE AREA TO BE SERVED BY THOSE FACILITIES TO PREVENT REDUCTION IN STORAGE VOLUME AND PERCOLATION RATES. ALL ACCUMULATED SEDIMENT MUST BE REMOVED FROM THE STORAGE AREA PRIOR TO FINAL GRADING AND STABILIZATION.
- IF DURING CONSTRUCTION, THE PROPOSED EROSION CONTROL SYSTEM DOES NOT PERFORM SATISFACTORILY, ALTERNATIVES AND ADDITIONAL METHODS OF PROTECTION SHALL BE IMPLEMENTED BY THE CONTRACTOR IN ORDER TO COMPLY WITH S.F.W.M.D. AND OSCEOLA COUNTY EROSION PROTECTION STANDARDS. CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR ALL EROSION CONTROL COSTS INCLUDING ANY COSTS ASSOCIATED WITH COMPLIANCE ISSUES AND ENFORCEMENT ACTIONS.
- THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A DETAILED SWPPP PLAN TO OSCEOLA COUNTY FOR REVIEW AND APPROVAL A MINIMUM OF 2 WORKING DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING. AT A MINIMUM, THE EROSION CONTROL PLAN SHALL PROPOSE SILT SCREEN OR SYNTHETIC HAY BALES AND TURBIDITY BARRIERS, IN ACCORDANCE WITH THE CONSTRUCTION PLANS.
- 2' STRIP OF SOD SHALL BE PLACED BEHIND BACK OF CURB. THE CURBSIDE BMP SHALL BE INSTALLED AS INDICATED IN THE SWPPP WHILE GRADING IS ACTIVE.
- ALL PERMANENT EROSION CONTROL MEASURES SHALL BE COMPLETED WITHIN 7 DAYS OF FINAL GRADING. ALL TEMPORARY EROSION CONTROL SHALL BE MAINTAINED UNTIL PERMANENT MEASURES ARE COMPLETED AND ESTABLISHED.
- CONTRACTOR SHALL STAKE IN ALL SOD UNTIL SUCH TIME THAT GROUND IS STABILIZED IN ORDER TO PREVENT EROSION. ALL SLOPES GREATER THAN 6:1 SHALL BE SODDED AND STAKED.
- WORK SHALL BE DONE IN ACCORDANCE WITH EPA, FDEP, SFWMD, AND OSCEOLA COUNTY BEST MANAGEMENT PRACTICES AND EROSION CONTROL SPECIFICATIONS.
- DISCHARGE OF GROUNDWATER FROM DEWATERING OPERATIONS REQUIRES APPROVAL FROM FDEP AND SFWMD. THE DEVELOPER/CONTRACTOR SHALL OBTAIN A FDEP GENERIC PERMIT FOR THE DISCHARGE OF GROUND WATER FROM DEWATERING OPERATIONS PURSUANT TO THE REQUIREMENTS OF 62-621.300(2)(A) AND 62-620 F.A.C. AND FLORIDA STATUTES CHAPTER 403.
- PRIOR TO THE START OF LAND DISTURBING ACTIVITIES, WHICH INCLUDES DEMOLITION, EARTHWORK AND/OR CONSTRUCTION, THE DEVELOPER/CONTRACTOR SHALL PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND SUBMIT TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) A NOTICE OF INTENT (NOI) TO OBTAIN COVERAGE UNDER THE NPDES GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES (CGP) PURSUANT TO THE REQUIREMENTS OF 62-621.300(4)(A) F.A.C. UPON COMPLETION OF ALL LAND DISTURBING ACTIVITIES AND AFTER FINAL STABILIZATION OF THE SITE IS COMPLETE, THE DEVELOPER/CONTRACTOR SHALL SUBMIT TO FDEP A NOTICE OF TERMINATION (NOT) TO END THEIR COVERAGE UNDER THE CGP.
- BMPs TO CONTROL DUST SHALL BE IMPLEMENTED, AS NEEDED, DURING THE COURSE OF LAND DISTURBING ACTIVITIES.
- EXCAVATION ACTIVITY SHALL BE CONDUCTED SO AS TO CONTROL THE GENERATION AND OFF-SITE MIGRATION OF DUSTS AND PARTICLES. ALL AREAS IN WHICH SUCH DUSTS OR PARTICLES MAY BE GENERATED SHALL BE KEPT WET, TREATED WITH CHEMICAL DUST DETERGENTS, OR CONTROLLED IN ANOTHER MANNER TO REDUCE THE POTENTIAL FOR THEIR OFFSITE MIGRATION. ATMOSPHERIC DISCHARGES FROM PROCESSING AND DRYING EQUIPMENT SHALL COMPLY WITH ALL APPLICABLE STATE, FEDERAL AND LOCAL LAWS. TO MINIMIZE DUST AND TO PREVENT THE DEPOSIT OF SOIL EXCAVATION MATERIAL ON PAVED ROADS, TRUCKS SHALL BE COVERED WITH THEIR TAILGATES LATCHED. DIRT ROAD SEGMENTS OF THE DESIGNATED HAUL ROUTE SHALL REQUIRE REGULAR WATERING, AS NECESSARY, TO MINIMIZE DUST GENERATED BY HAULING ACTIVITIES.
- NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR DIRECTLY TO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.
- CONTRACTOR TO EXTEND EROSION SOCK PIPE 1' (FT.) BEYOND CURB THROAT AT EACH END. THREE (3) SAND BAGS ARE REQUIRED FOR EACH SOCK PIPE.
- ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH NPDES REQUIREMENTS.
- CONTRACTOR SHALL REMAIN RESPONSIBLE FOR OPERATION AND MAINTENANCE OF POLLUTION PROTECTION/BMP MEASURES UNTIL CONSTRUCTION HAS BEEN COMPLETED IN SUBSTANTIAL CONFORMANCE WITH THE CONTRACT PLANS AND CERTIFIED AS SUCH BY POULOS & BENNETT, REGARDLESS OF WHETHER CONTRACTOR HAS SUBMITTED A NOTICE OF TERMINATION (NOT) TO FDEP.



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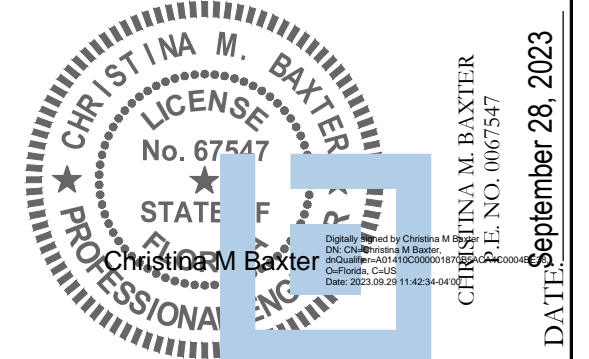
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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
EROSION CONTROL PLAN

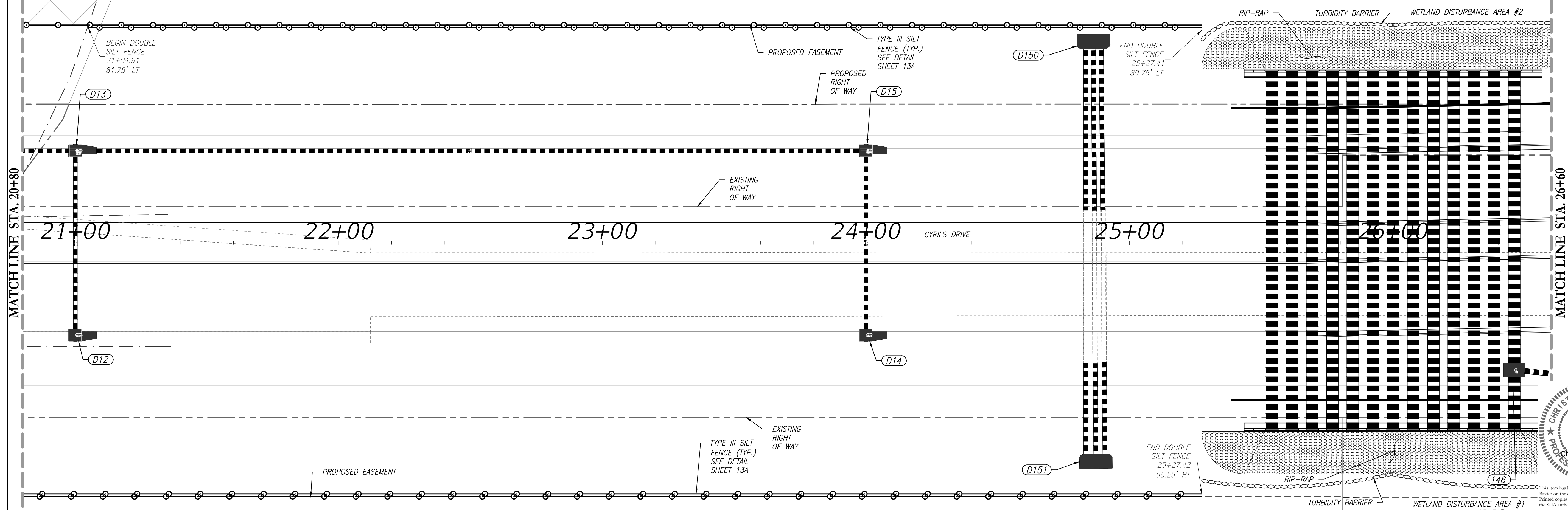
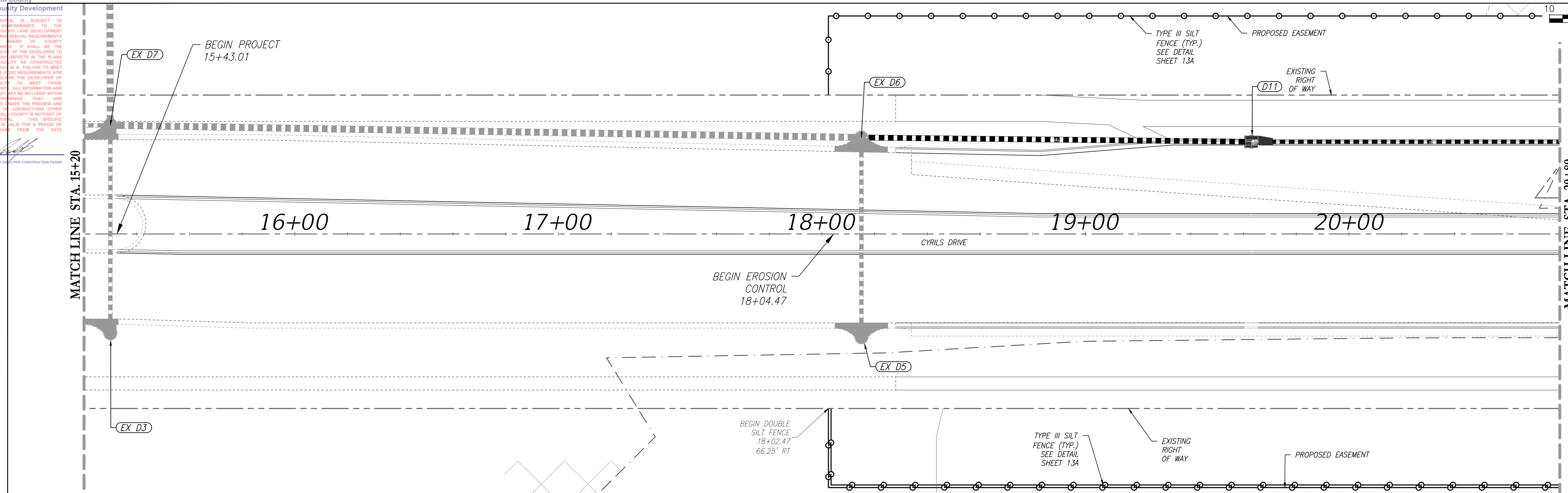
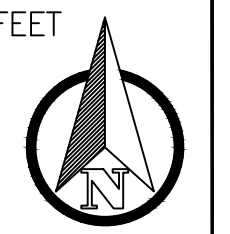
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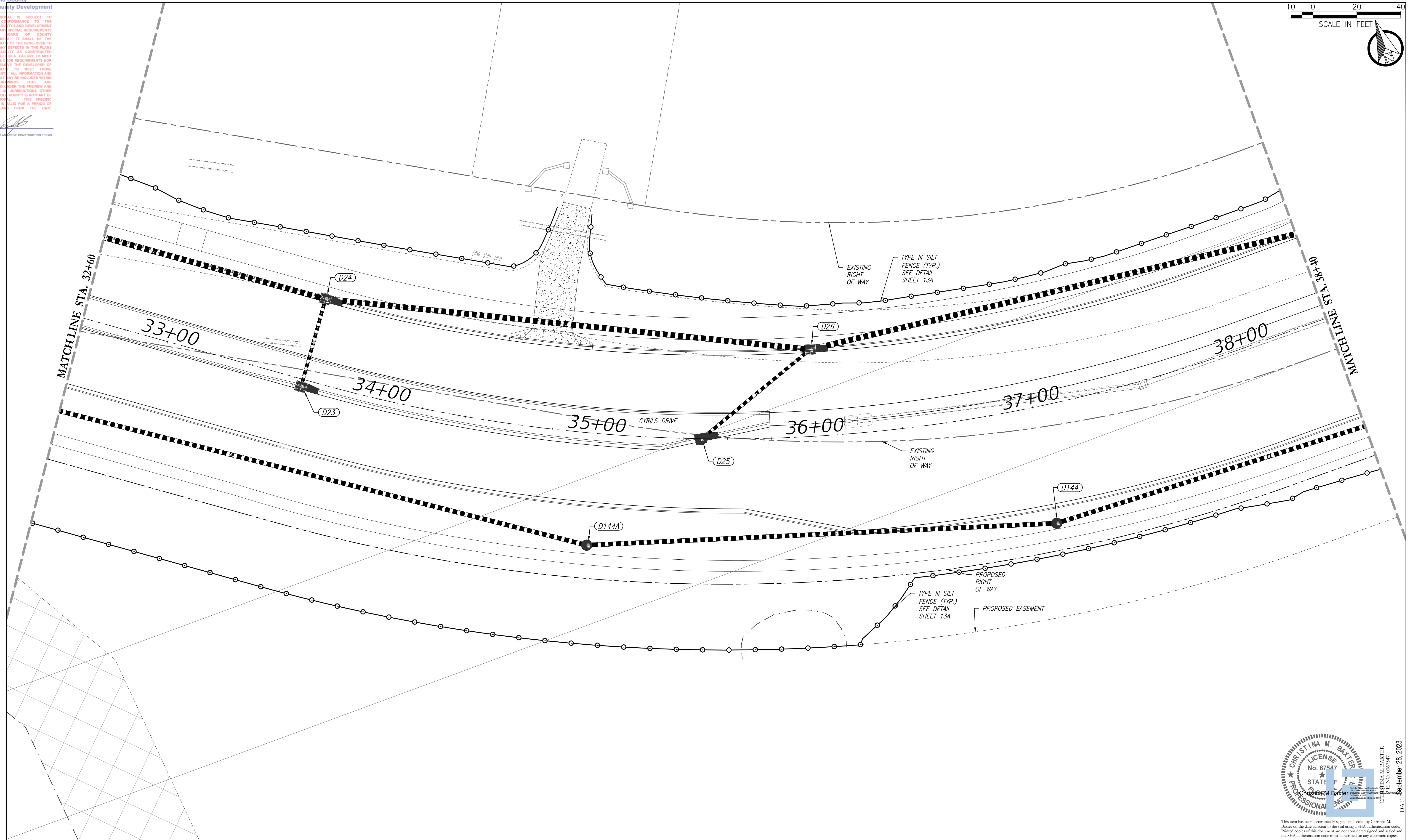
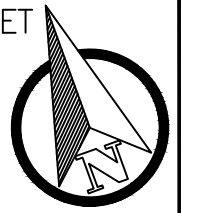


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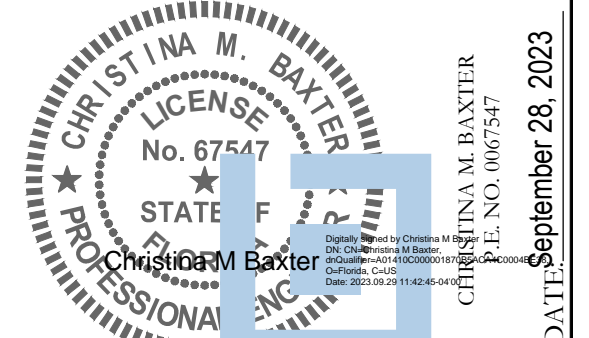
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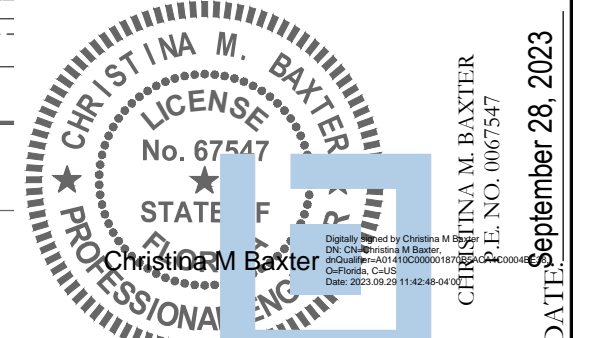
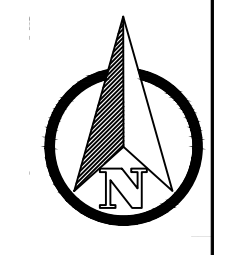
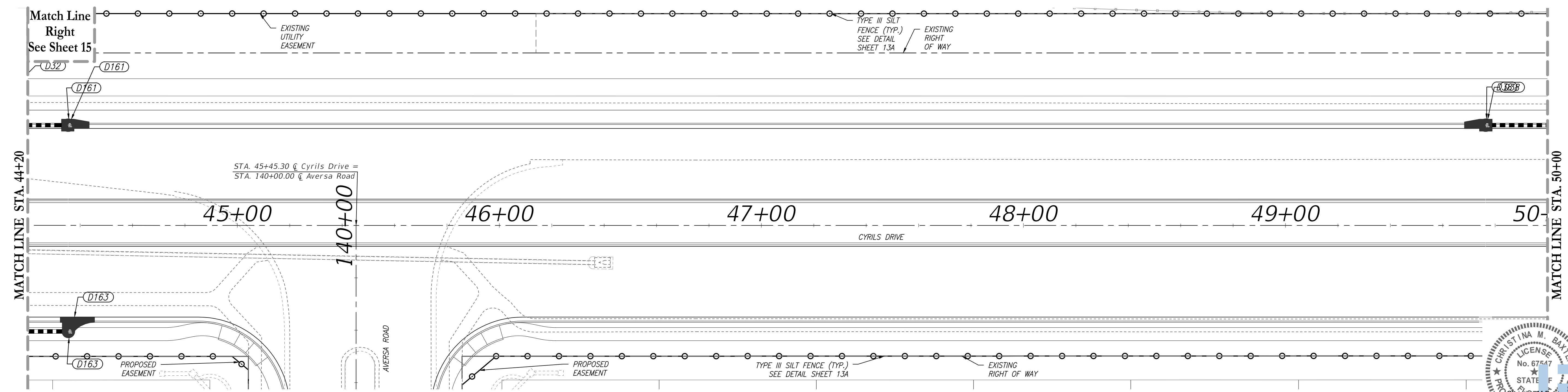
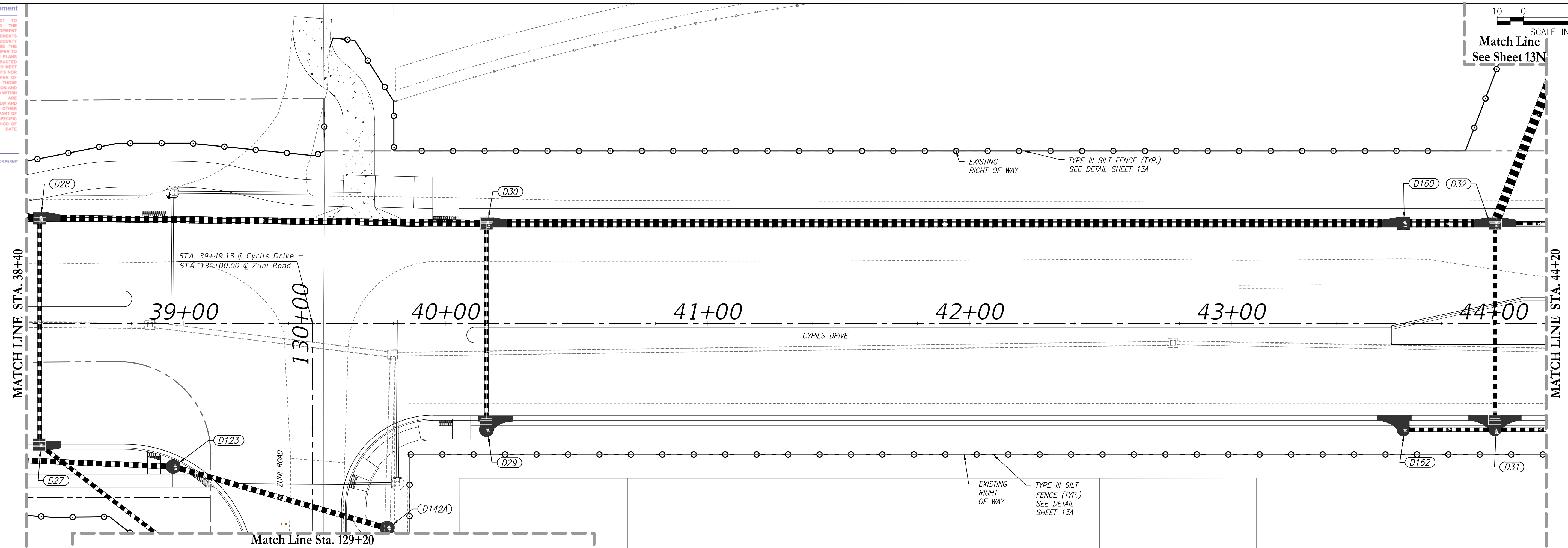
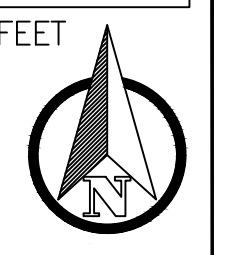
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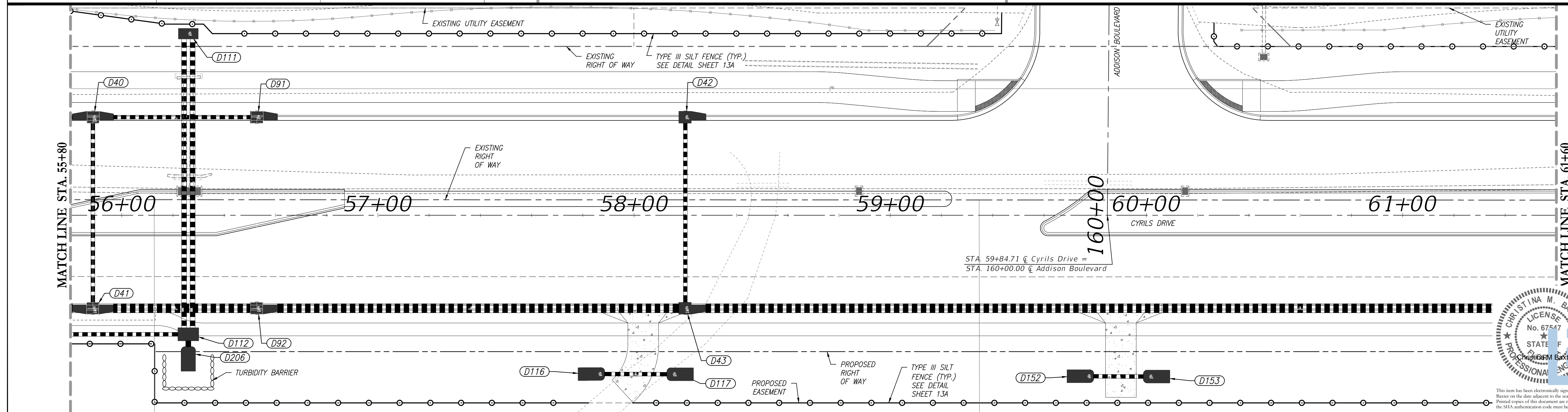
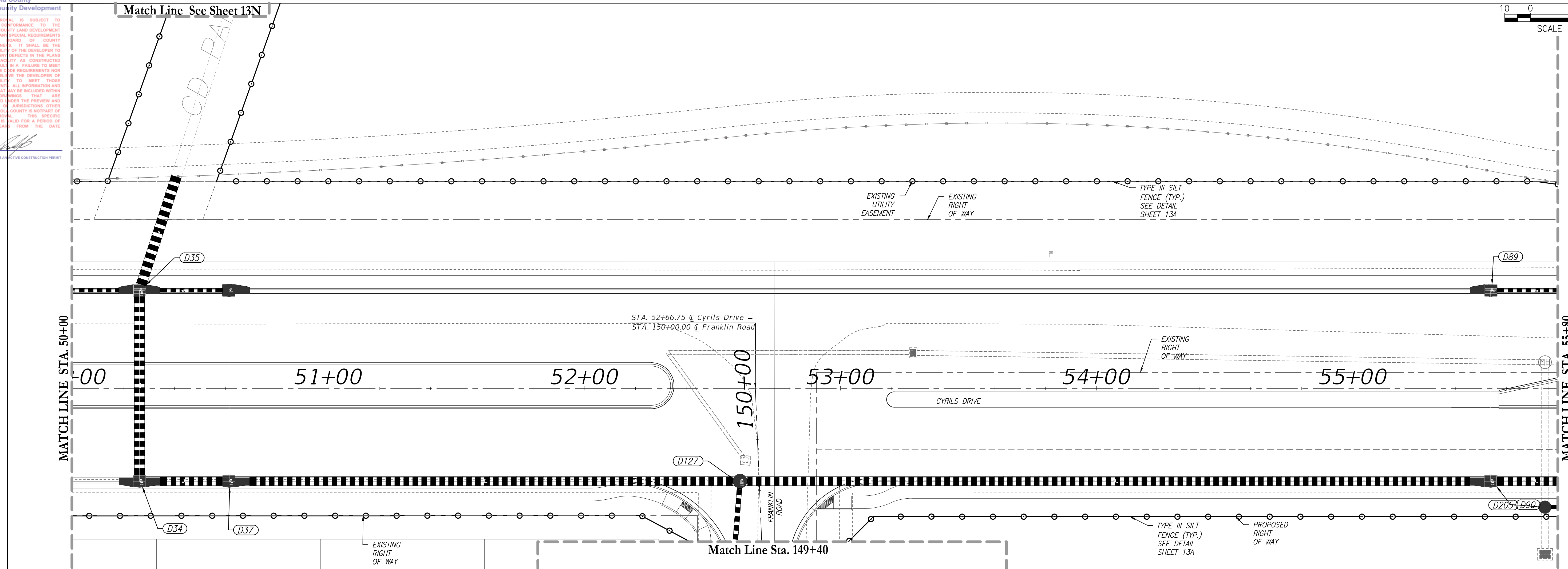
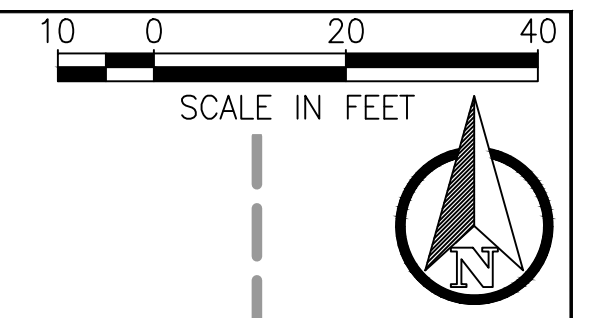
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Osceola County
Community Development

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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
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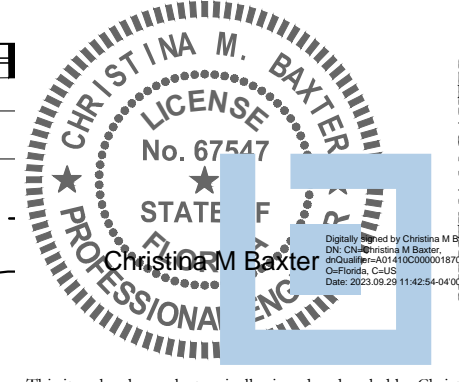
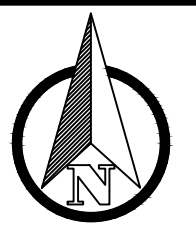
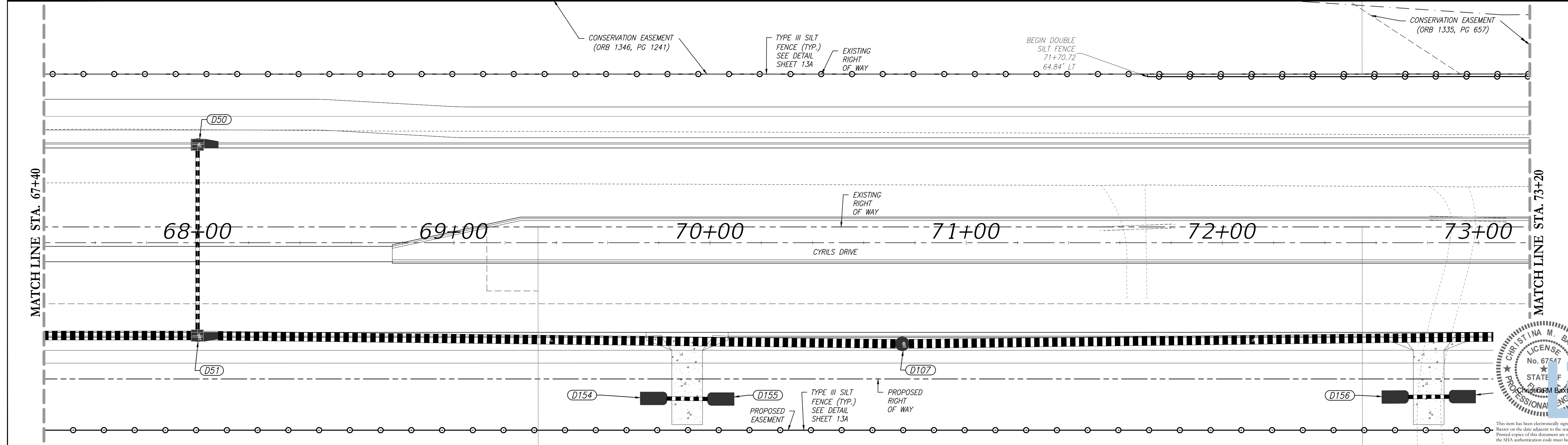
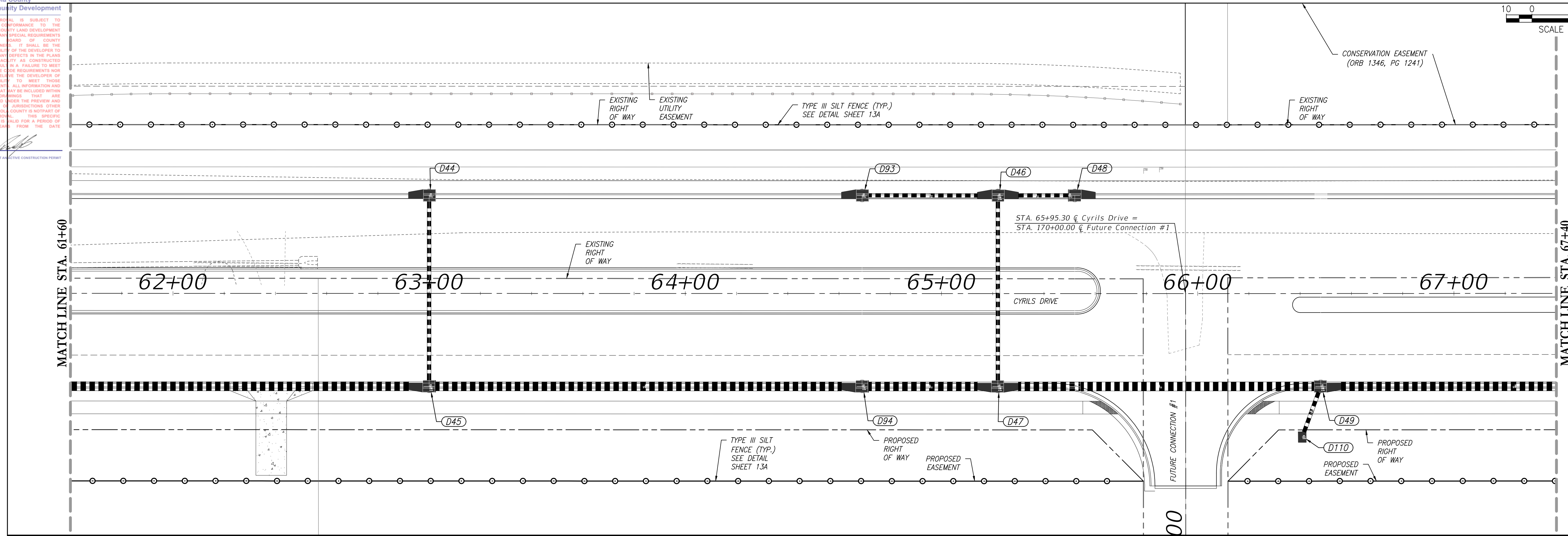
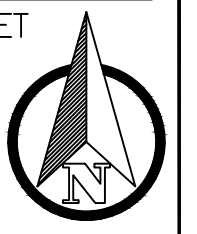
CHRISTINA M. BAXTER
LICENSE No. 67547
STATE OF FLORIDA
PROFESSIONAL ENGINEER
DATE: September 28, 2023

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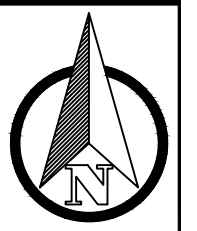
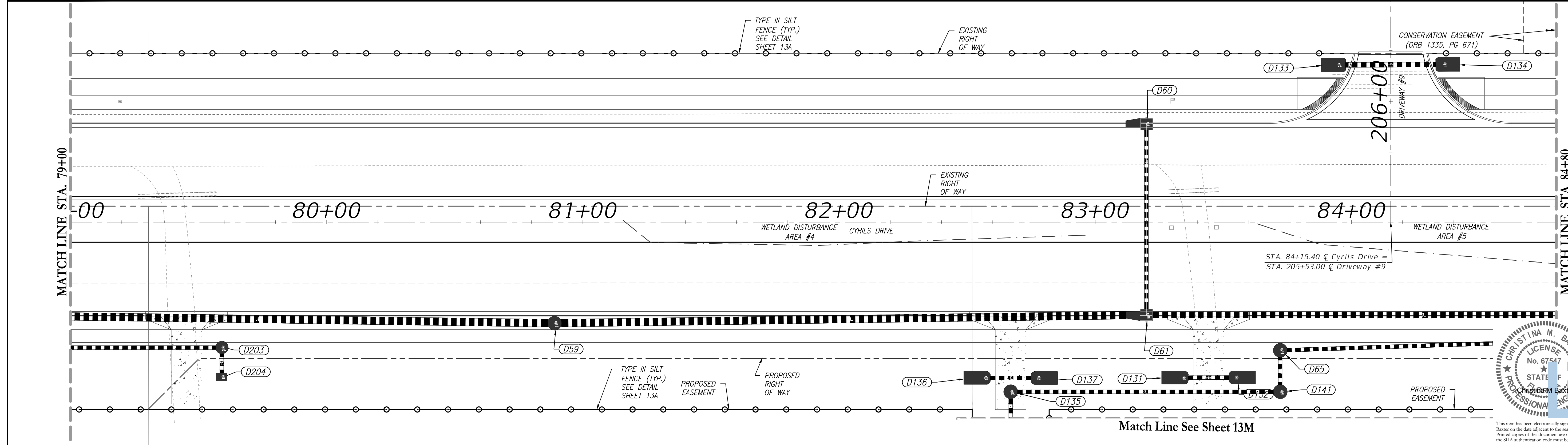
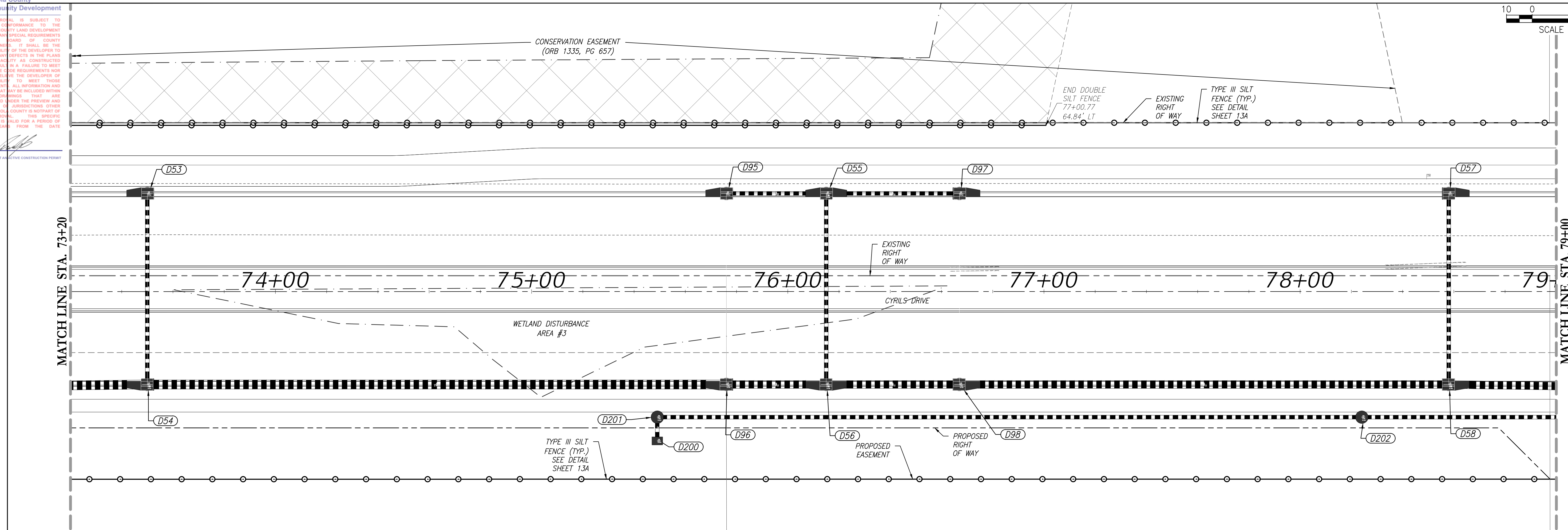
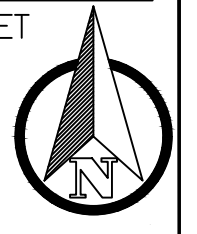
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
EROSION CONTROL PLAN

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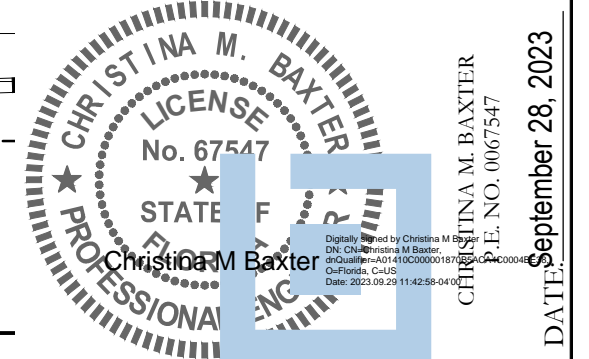
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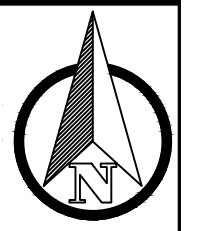
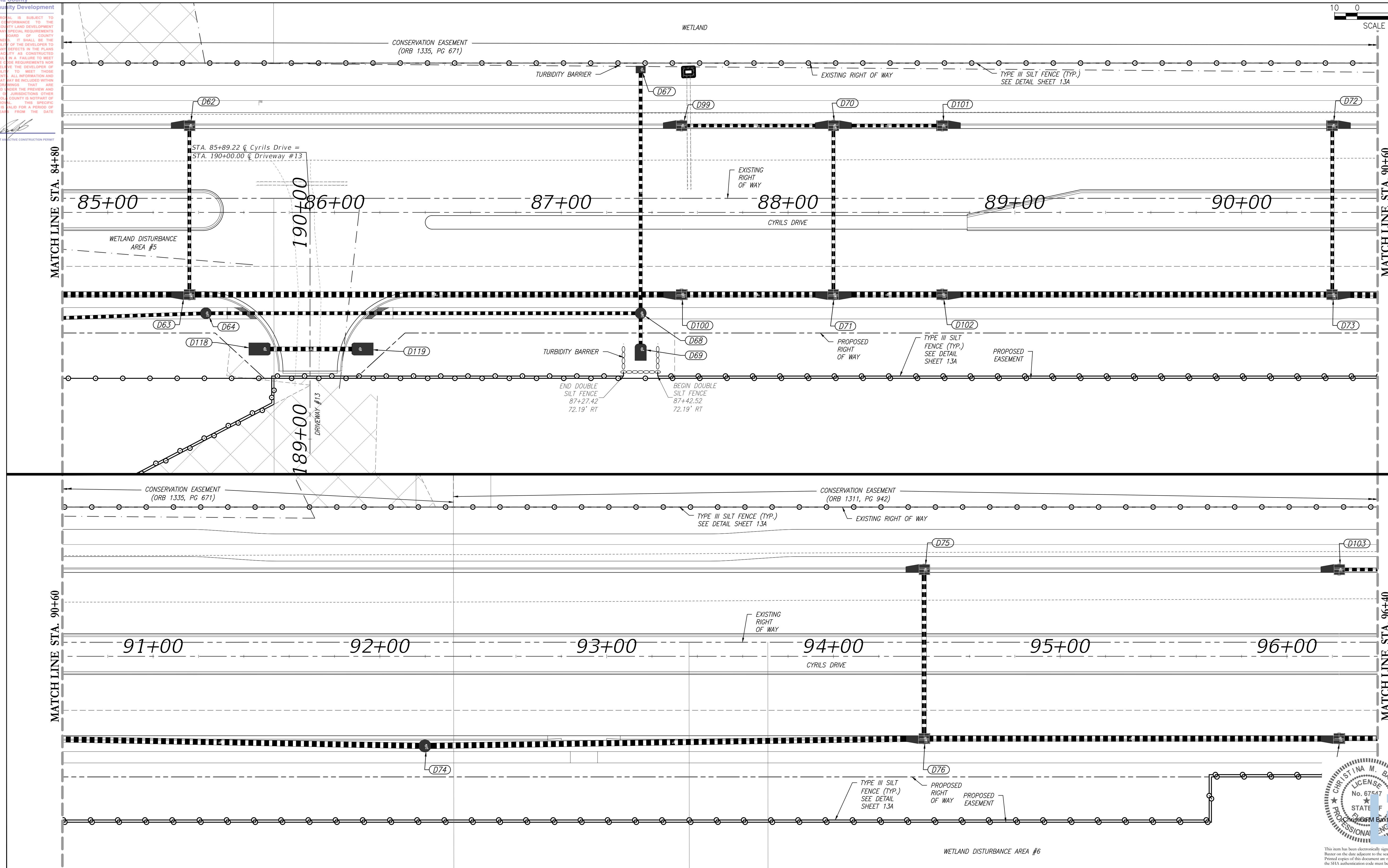
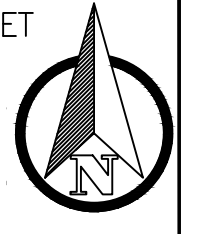


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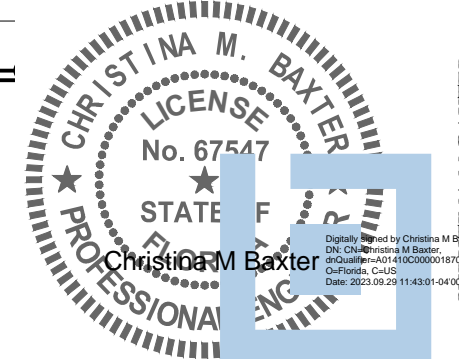
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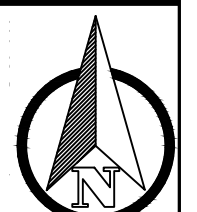
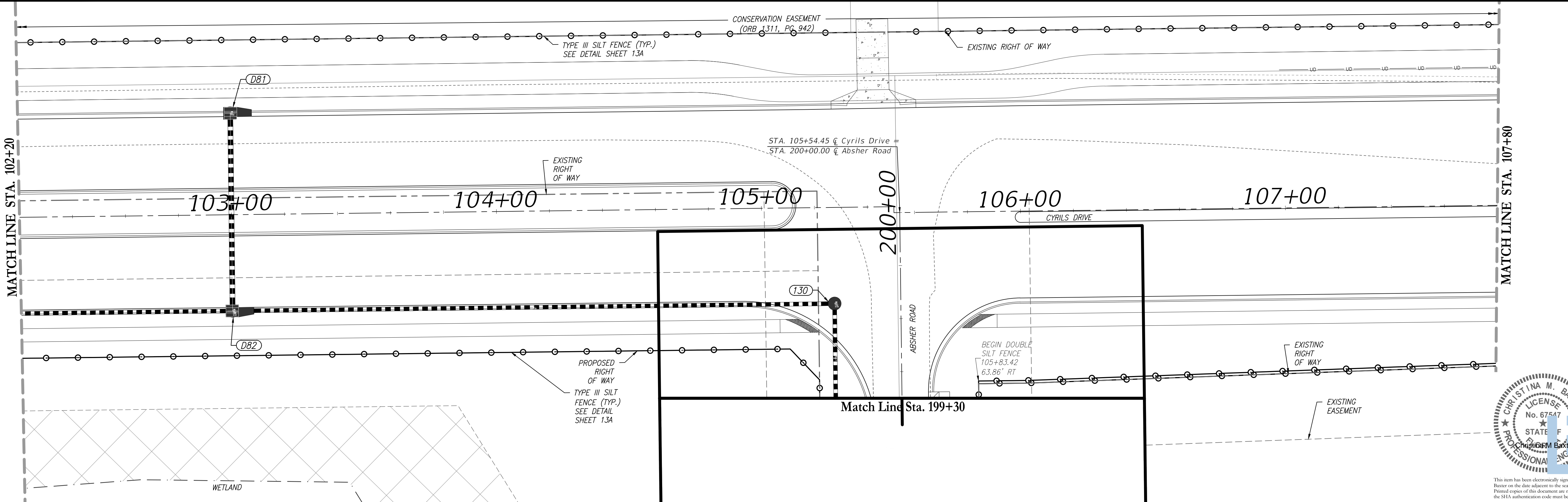
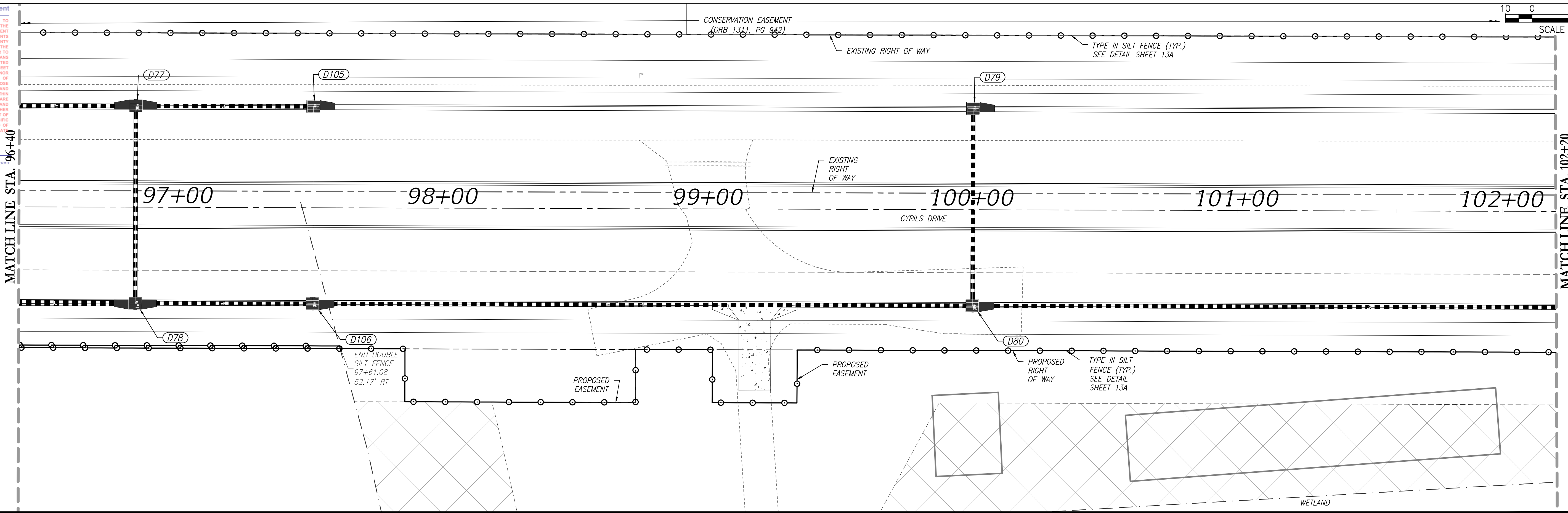
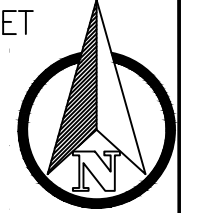
SHEET NO.
131



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Z:\2017\17-042 TAVISDOCK - SUNBRIDGE\CYRILS DR\ARCOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-ECF

REVISIONS			
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POULOS & BENNETT
Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
EROSION CONTROL PLAN

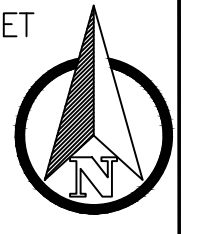
SHEET NO.
13J



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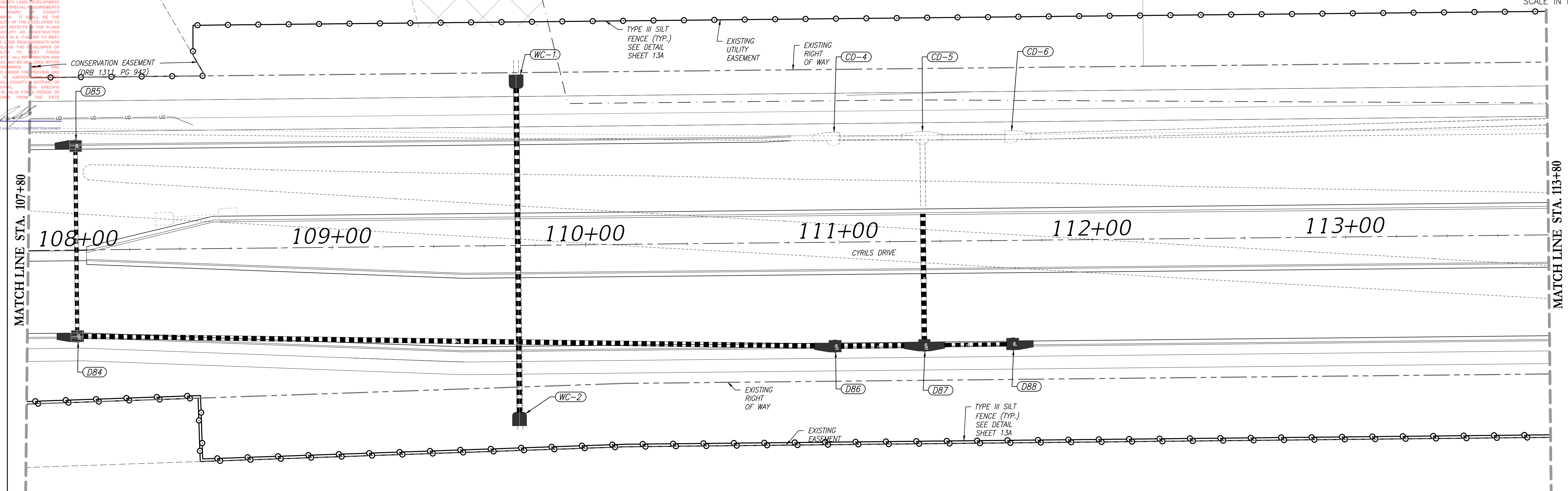
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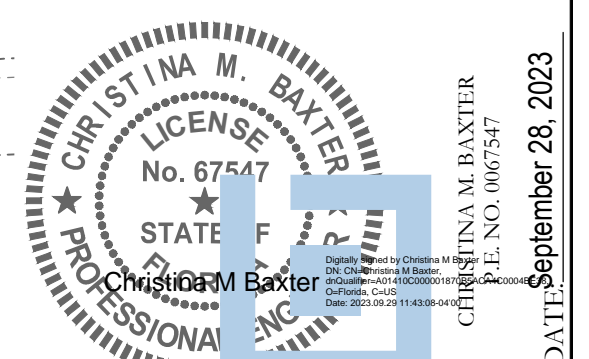
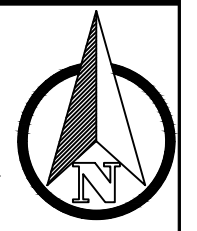
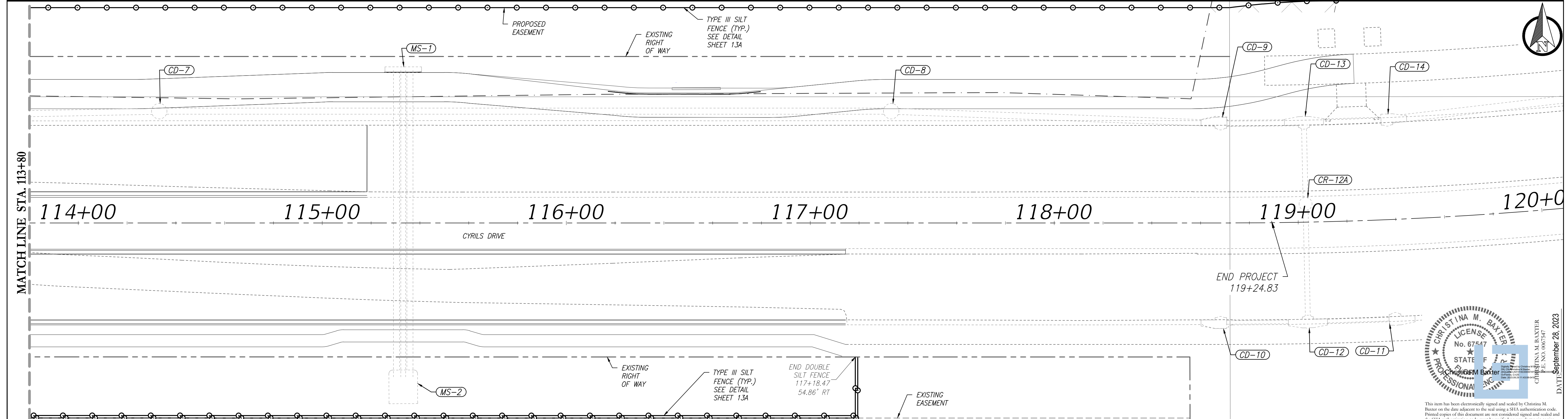
MATCH LINE STA. 107+80

MATCH LINE STA. 113+80



MATCH LINE STA. 113+80

120+00



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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

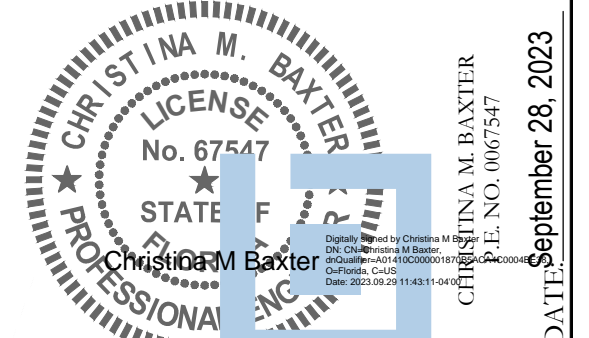
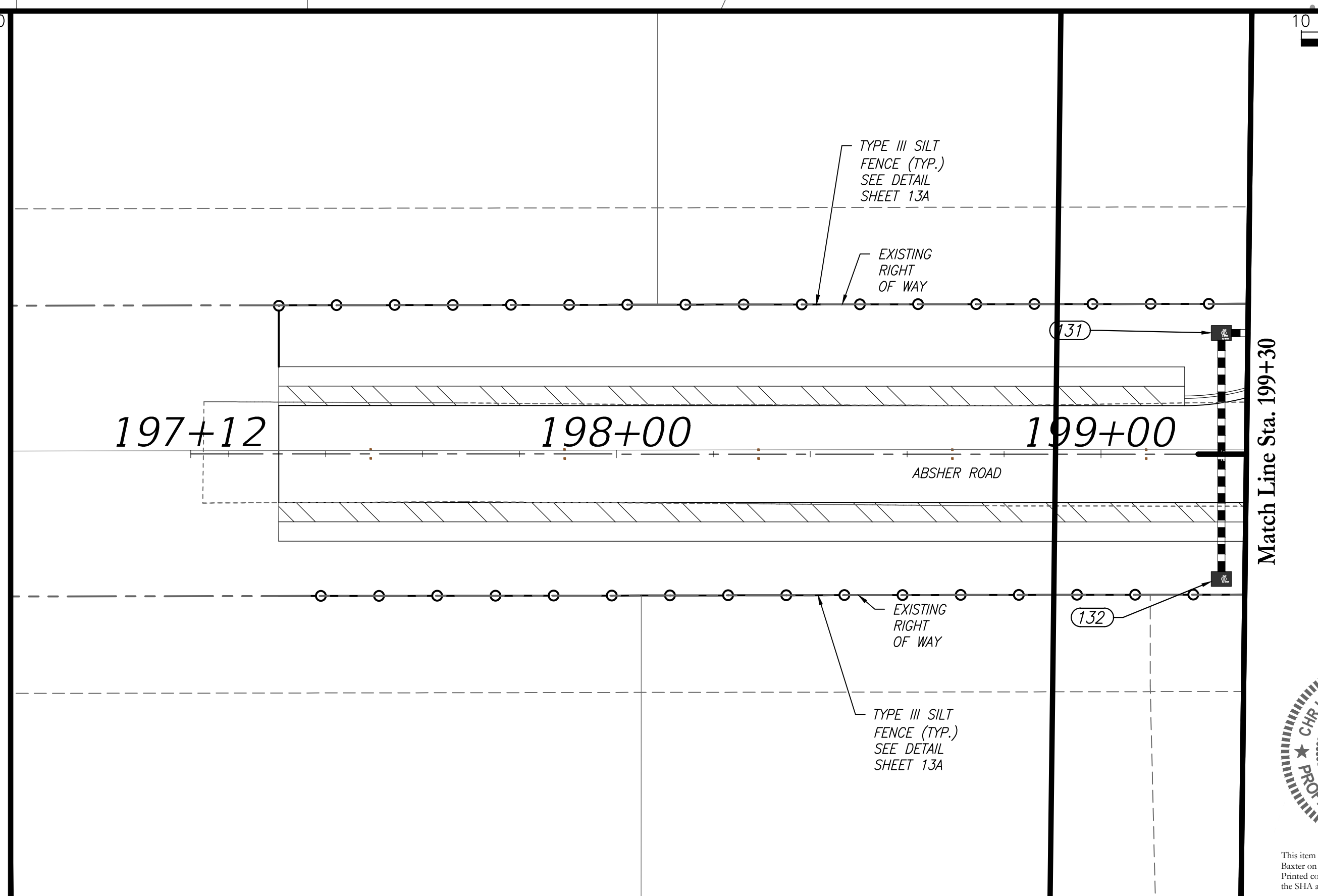
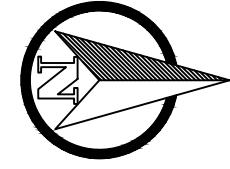
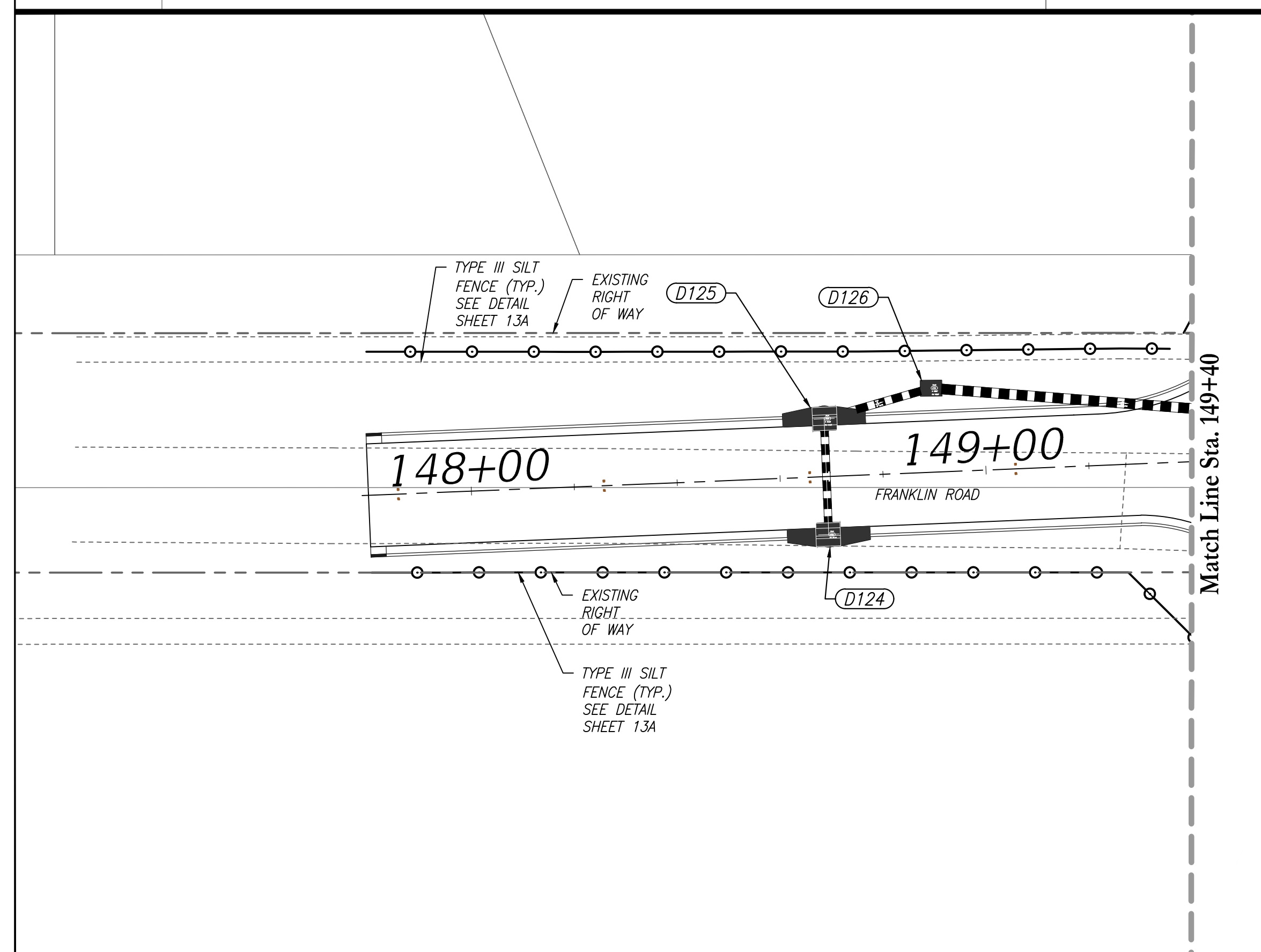
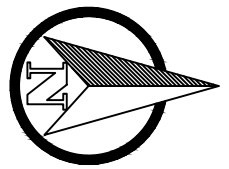
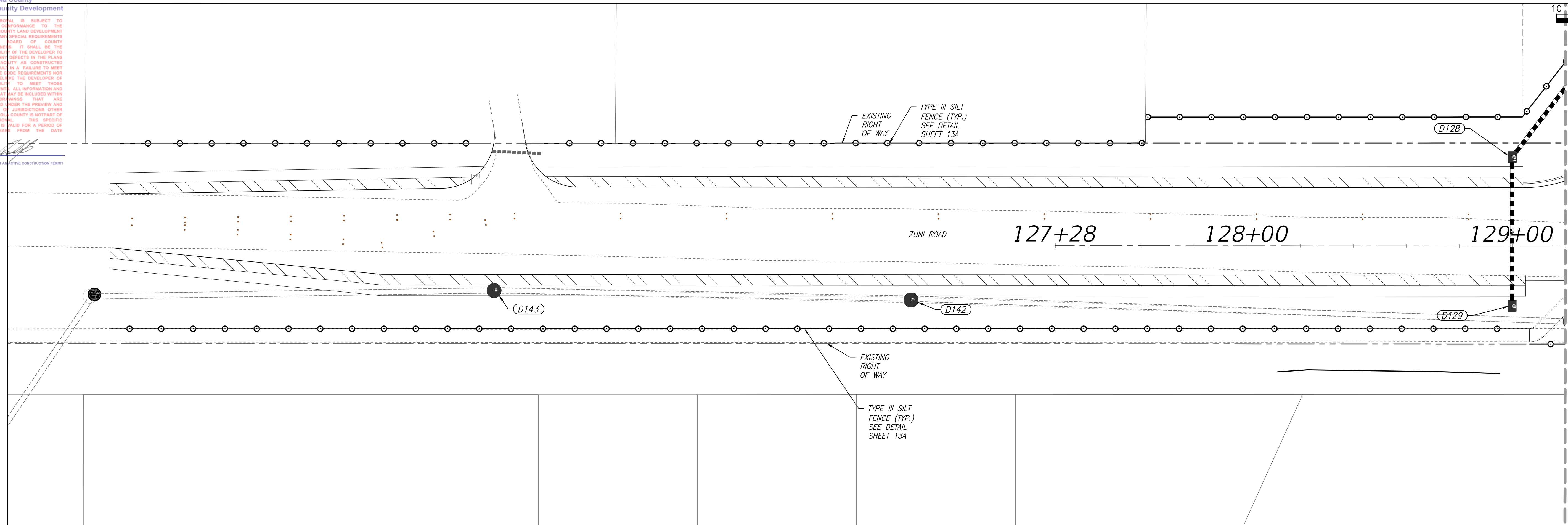
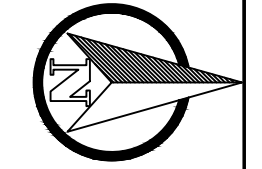
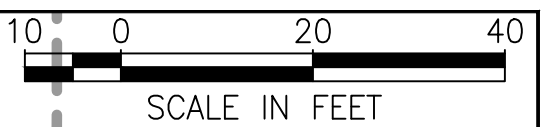
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
EROSION CONTROL PLAN

SHEET NO.
13K

Z:\2017\17-042 TAVIS/STOCK - SUBMITTALS\CYRILS DR\WIDENING TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-ECP

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DATE: September 28, 2023

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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

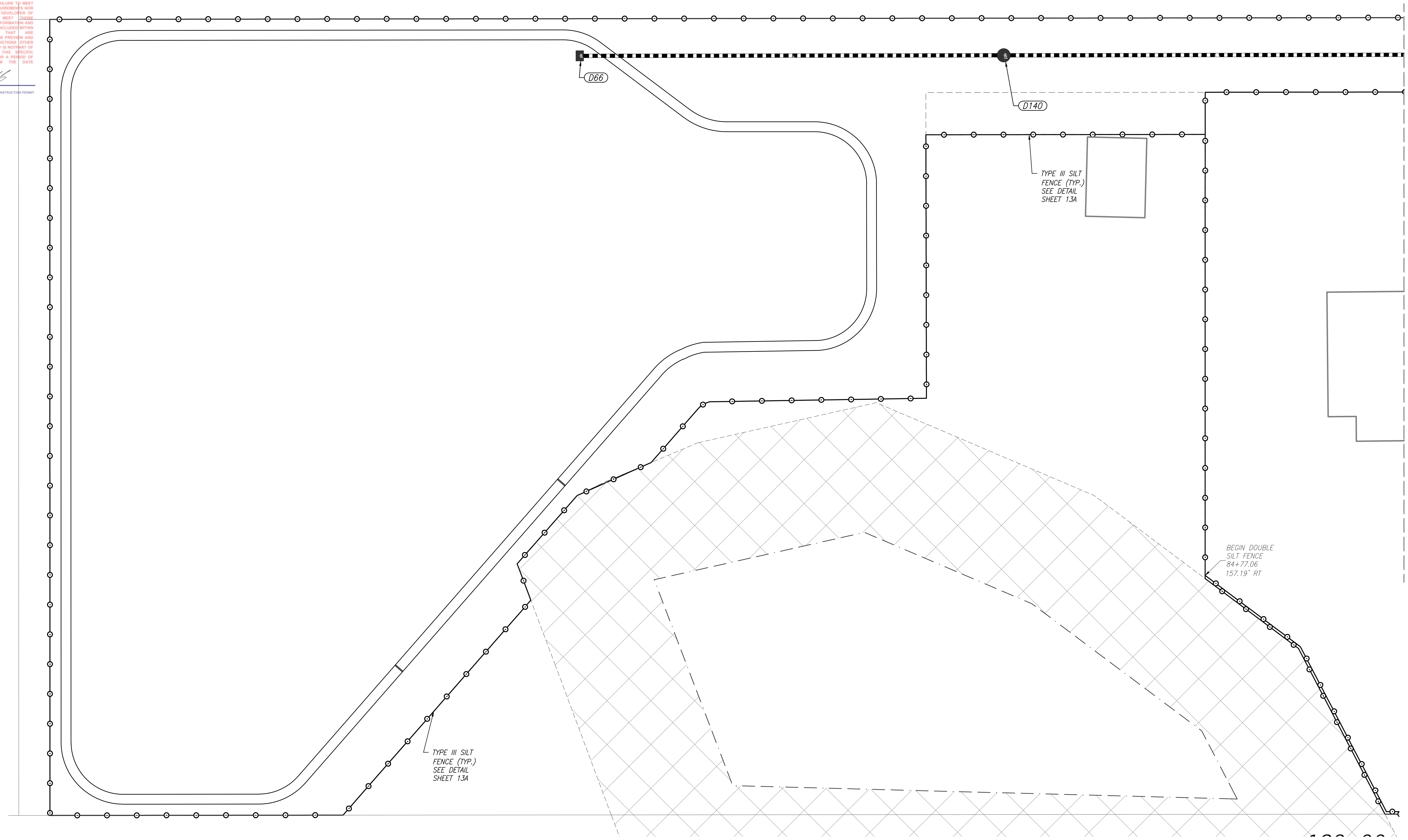
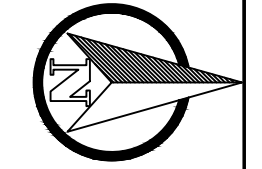
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
EROSION CONTROL PLAN

SHEET NO.
13L

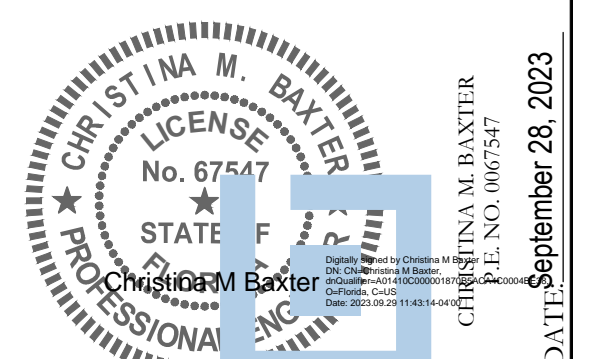
Z:\2017\17-042 TAVISSTOCK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-ECP

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Match Line See Sheet 13H



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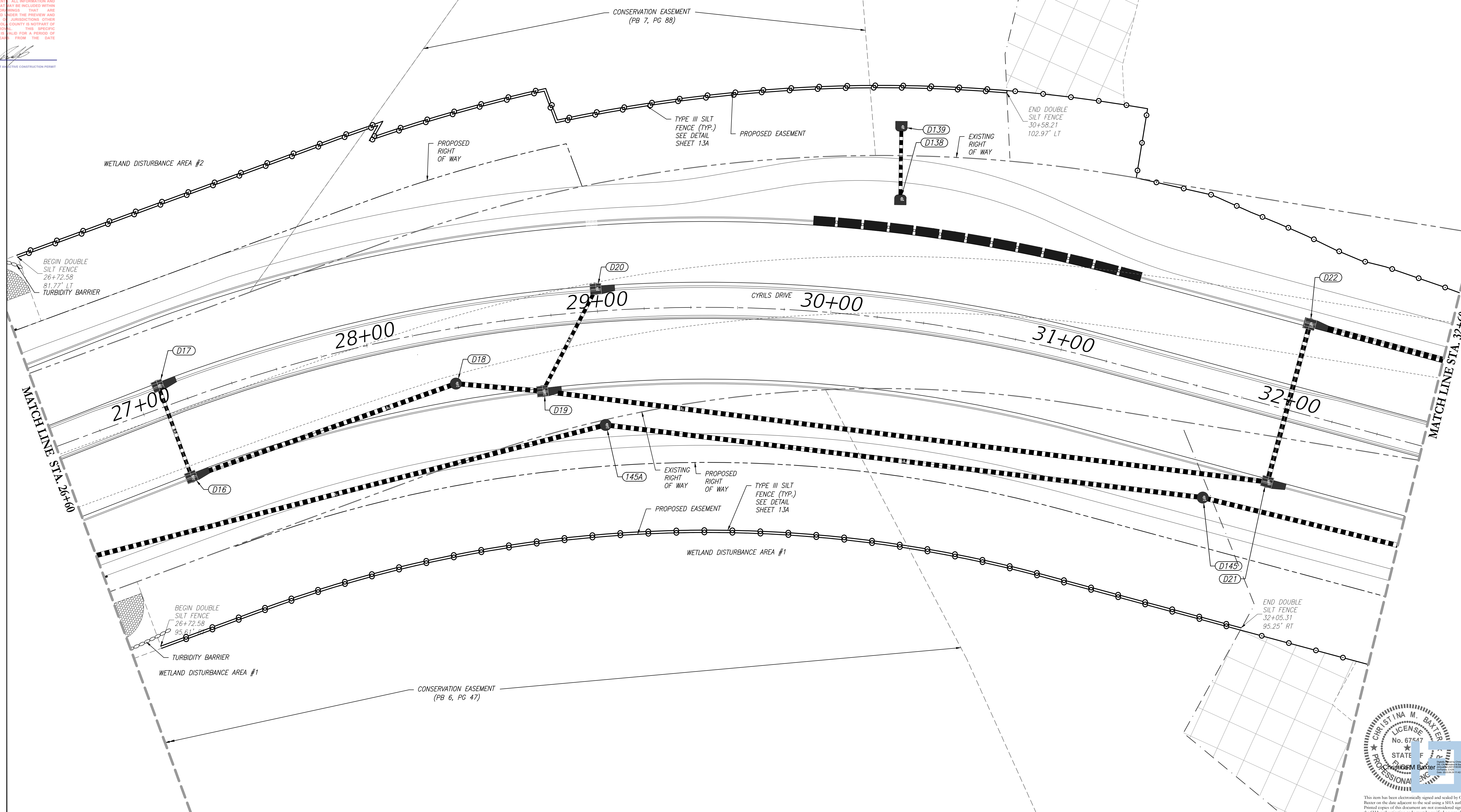
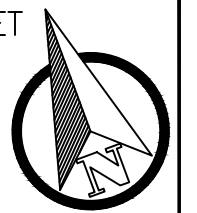
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
EROSION CONTROL PLAN

SHEET NO.
13M

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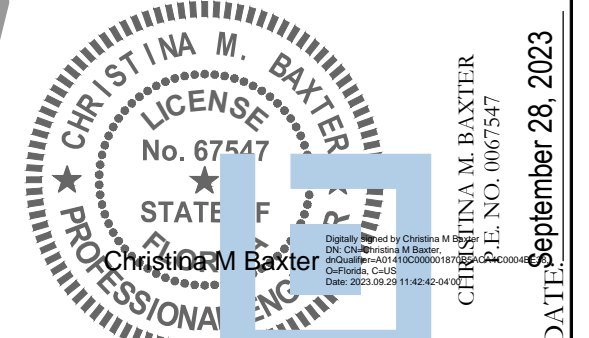
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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
EROSION CONTROL PLAN

SHEET NO.
13C

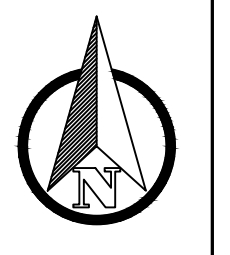
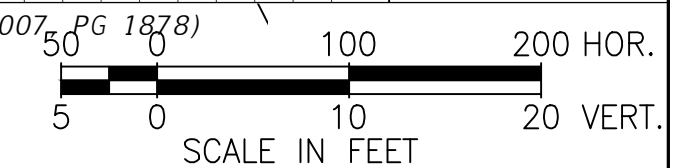
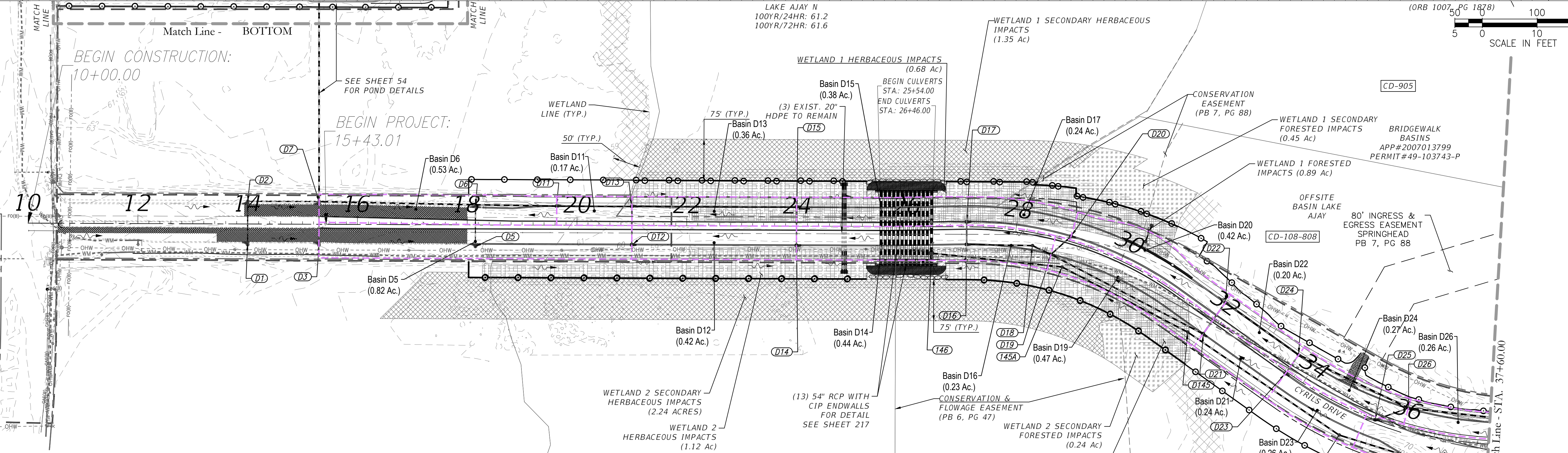
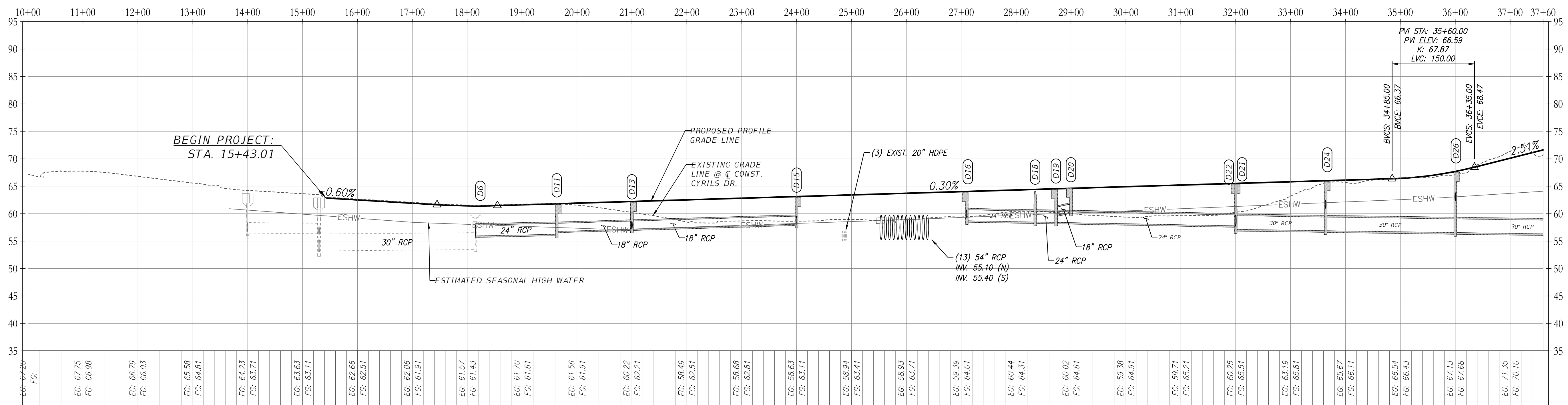


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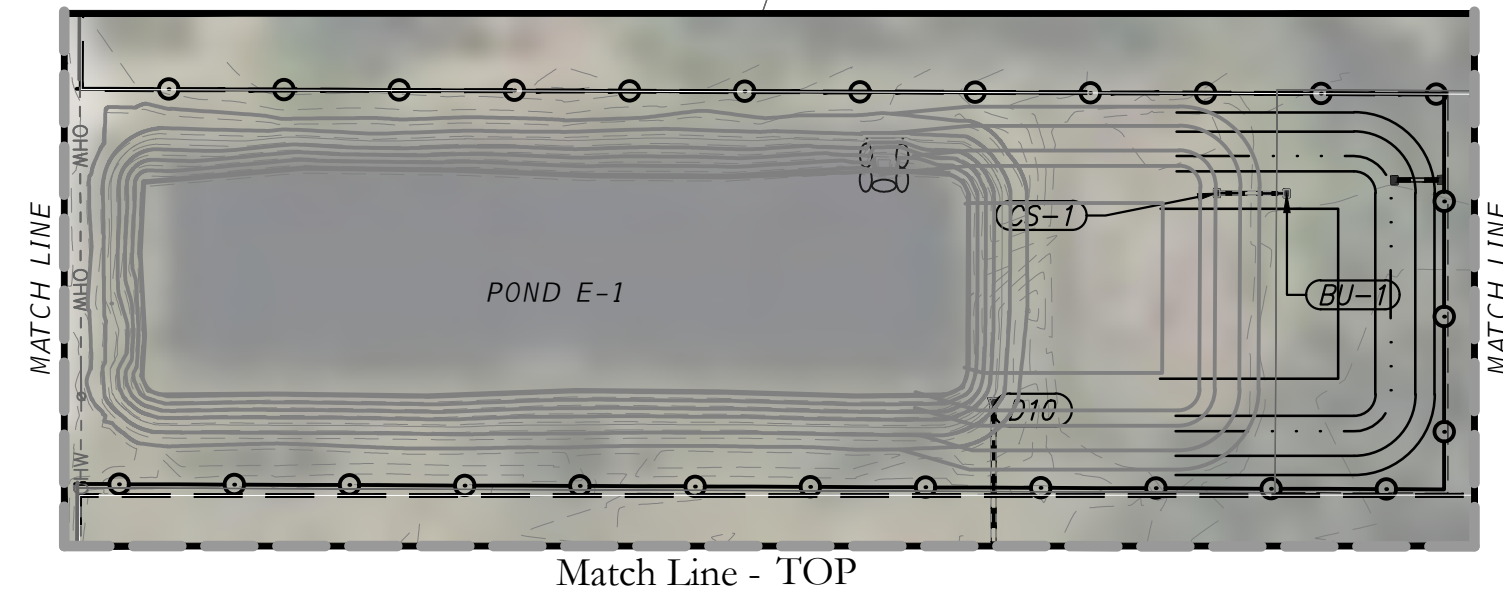
Osceola County
Community Development

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LEGEND	
SYMBOL	DESCRIPTION
[Symbol: Dotted pattern]	PROPOSED HERBACEOUS WETLAND IMPACTS PER CYRILS DRIVE WIDENING IMPROVEMENTS
[Symbol: Cross-hatched pattern]	PROPOSED SECONDARY HERBACEOUS FORESTED WETLAND IMPACTS PER CYRILS DRIVE WIDENING IMPROVEMENTS
[Symbol: Stippled pattern]	PROPOSED FORESTED WETLAND IMPACTS PER CYRILS DRIVE WIDENING IMPROVEMENTS
[Symbol: Diagonal lines]	PROPOSED SECONDARY FORESTED WETLAND IMPACTS PER CYRILS DRIVE WIDENING IMPROVEMENTS
[Symbol: Solid black area]	50' UPLAND BUFFER
[Symbol: Wavy line]	FLOWLINE



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PROJECT NO. (SDP23-0132)

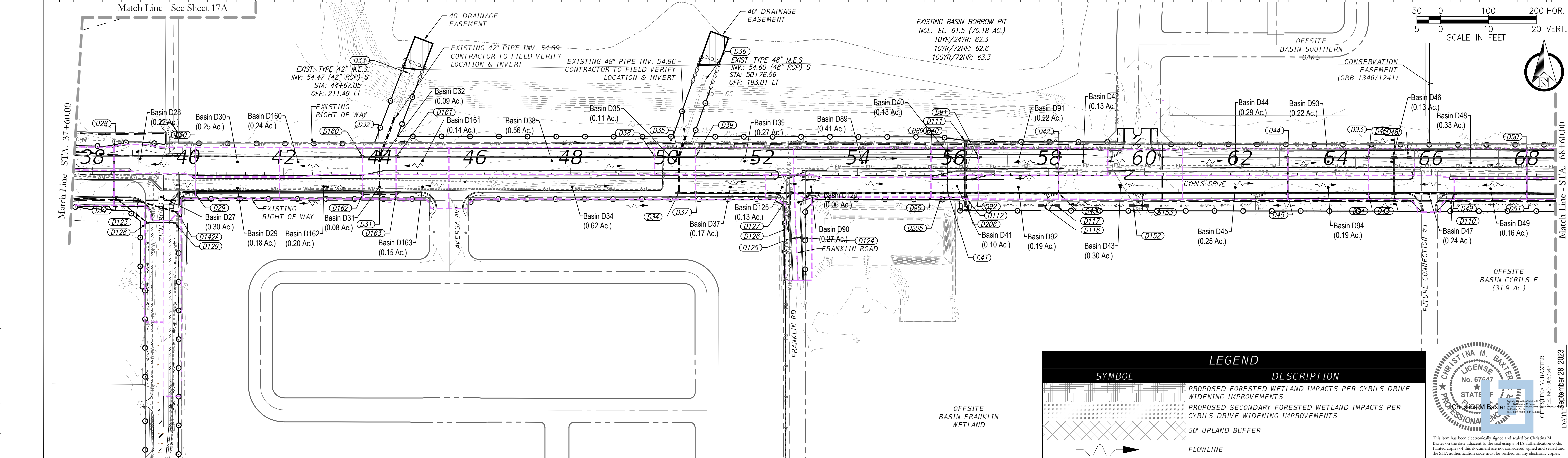
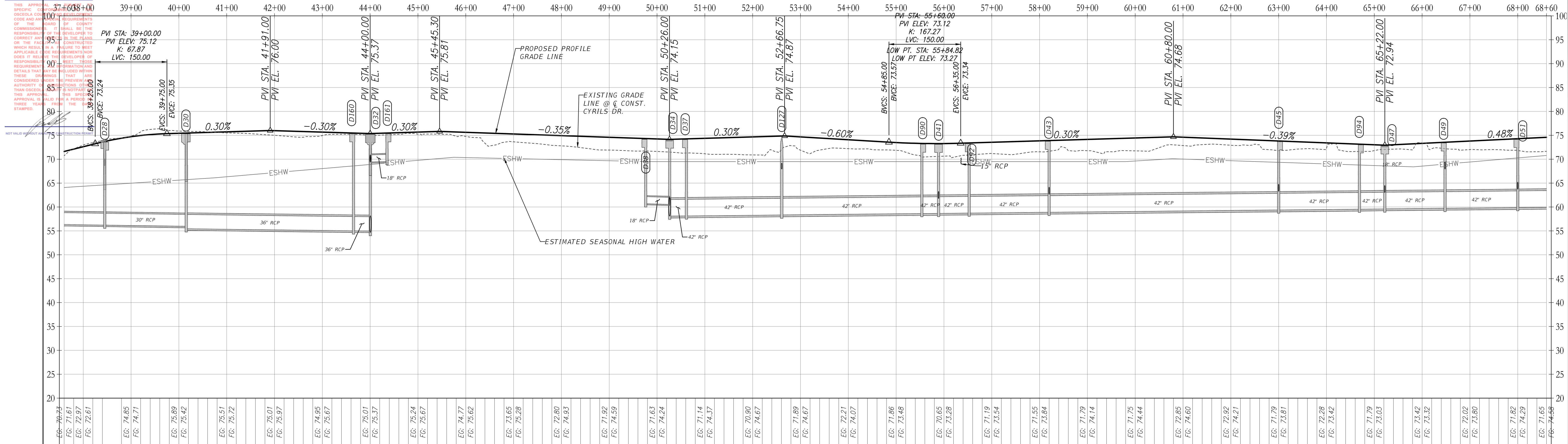
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
DRAINAGE MAP

SHEET NO.
14

CHRISTINA M. BAXTER
LICENSE No. 67547
STATE OF FLORIDA
PROFESSIONAL ENGINEER
September 28, 2023

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OSCEOLA COUNTY
 PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
 ABSHER ROAD - ROAD WIDENING
 DRAINAGE MAP

SHEET NO. 15

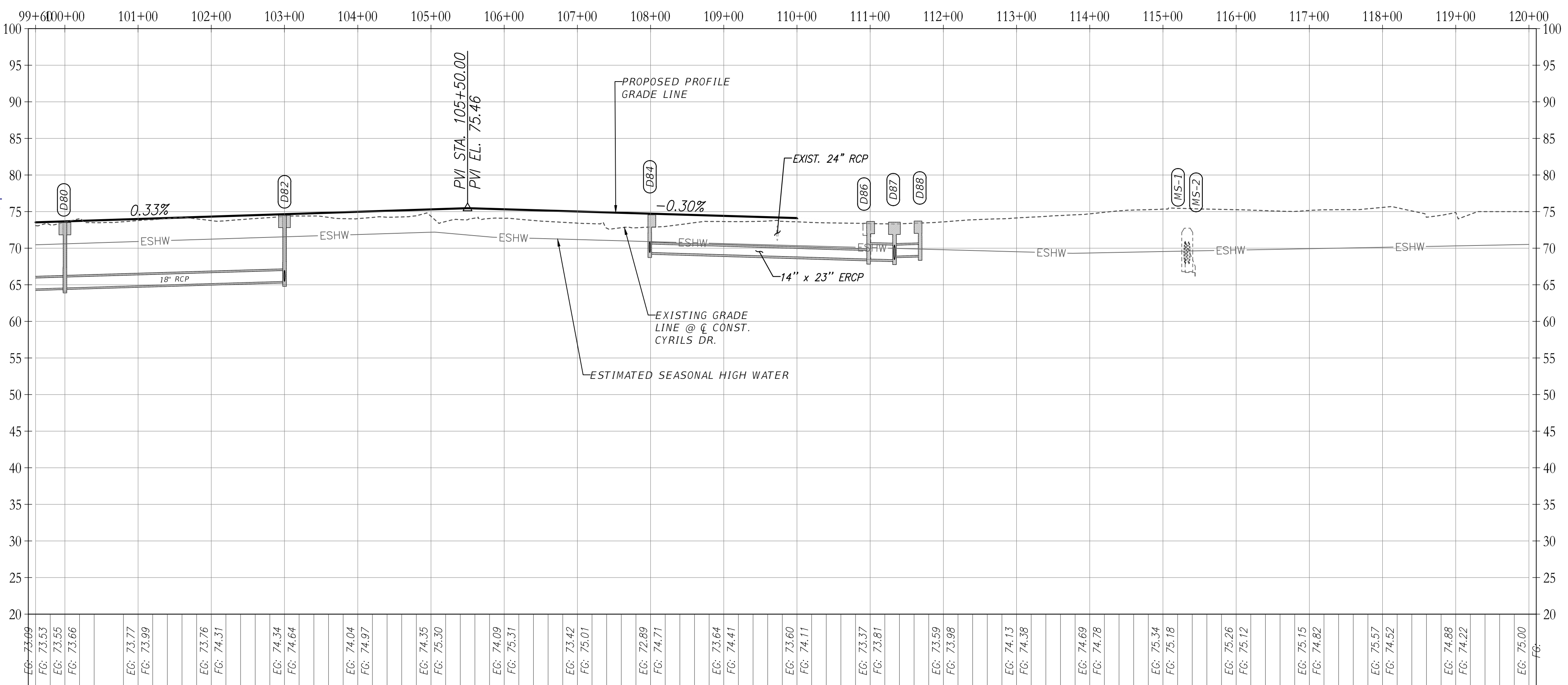
LEGEND	
SYMBOL	DESCRIPTION
[Cross-hatched pattern]	PROPOSED FORESTED WETLAND IMPACTS PER CYRILS DRIVE WIDENING IMPROVEMENTS
[Dotted pattern]	PROPOSED SECONDARY FORESTED WETLAND IMPACTS PER CYRILS DRIVE WIDENING IMPROVEMENTS
[Diagonal lines]	50' UPLAND BUFFER
[Wavy line with arrow]	FLOWLINE

CHRISTINA M. BAXTER
 LICENSE No. 67547
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 DATE: September 28, 2023

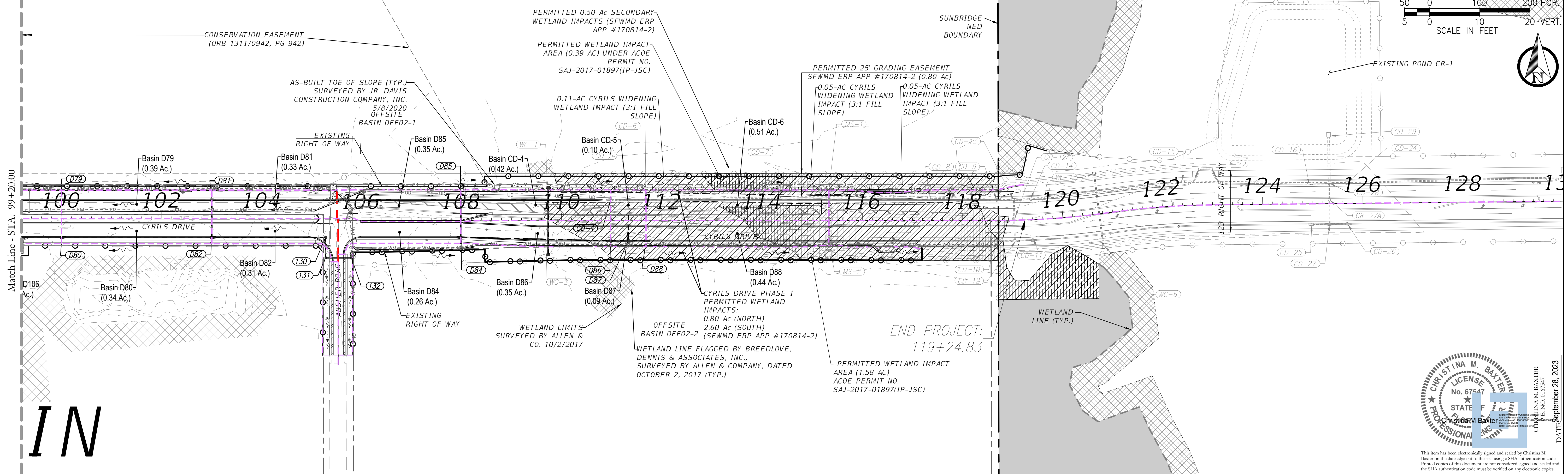
Z:\2017\17-042 TAMISOCK - SUNBRIDGE\CYRILS DR\WIDENING\OSCEOLA\COUNTY\17042-04208-CD&M-DM

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LEGEND	
SYMBOL	DESCRIPTION
[Symbol]	SFWMND-PERMITTED WETLAND IMPACTS PER CYRILS DRIVE PHASE 1 IMPROVEMENTS
[Symbol]	ACOE-PERMITTED WETLAND IMPACTS PER CYRILS DRIVE PHASE 1 IMPROVEMENTS
[Symbol]	PROPOSED CYRILS WIDENING WETLAND IMPACTS
[Symbol]	PERMITTED SECONDARY WETLAND IMPACTS PER CYRILS DRIVE PHASE 1 IMPROVEMENTS
[Symbol]	50' UPLAND BUFFER
[Symbol]	PERMITTED GRADING EASEMENT
[Symbol]	SURVEYED WETLAND LINE
[Symbol]	AS-BUILT TOE OF SLOPE SPOT ELEVATION
[Symbol]	FLOWLINE



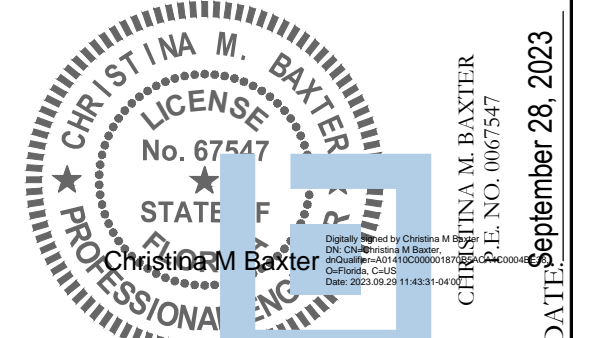
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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
DRAINAGE MAP

SHEET NO.
17



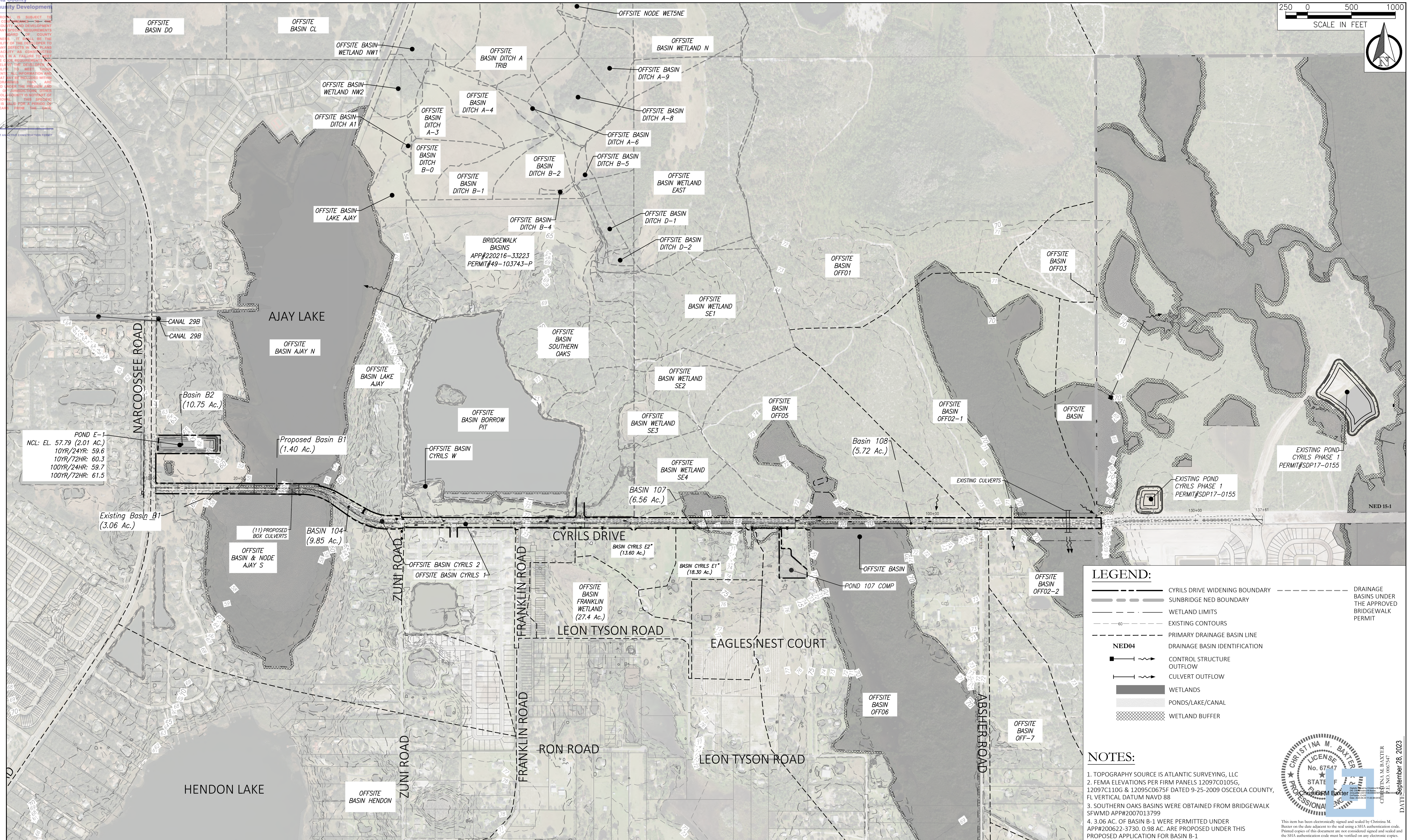
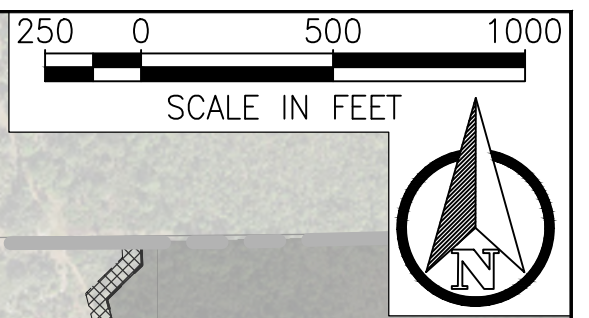
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Osceola County
Community Development

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POND E-1
NCL: EL. 57.79 (2.01 AC.)
10YR/24HR: 59.6
10YR/72HR: 60.3
100YR/24HR: 59.7
100YR/72HR: 61.5

Basin B2
(10.75 Ac.)

Proposed Basin B1
(1.40 Ac.)

OFFSITE BASIN BORROW PIT

BASIN 107
(6.56 Ac.)

Basin 108
(5.72 Ac.)

BASIN 104
(9.85 Ac.)

BASIN CYRILS E2*
(13.60 Ac.)

BASIN CYRILS E1*
(18.30 Ac.)

LEON TYSON ROAD

EAGLES NEST COURT

RON ROAD

LEON TYSON ROAD

HENDON LAKE

LEGEND:

- CYRILS DRIVE WIDENING BOUNDARY
- SUNBRIDGE NED BOUNDARY
- WETLAND LIMITS
- EXISTING CONTOURS
- PRIMARY DRAINAGE BASIN LINE
- DRAINAGE BASIN IDENTIFICATION
- CONTROL STRUCTURE OUTFLOW
- CULVERT OUTFLOW
- WETLANDS
- PONDS/LAKE/CANAL
- WETLAND BUFFER
- DRAINAGE BASINS UNDER THE APPROVED BRIDGEWALK PERMIT

NOTES:

- TOPOGRAPHY SOURCE IS ATLANTIC SURVEYING, LLC
- FEMA ELEVATIONS PER FIRM PANELS 12097C0105G, 12097C110G & 12095C0675F DATED 9-25-2009 OSCEOLA COUNTY, FL VERTICAL DATUM NAVD 88
- SOUTHERN OAKS BASINS WERE OBTAINED FROM BRIDGEWALK SFWMD APP#2007013799
- 3.06 AC. OF BASIN B-1 WERE PERMITTED UNDER APP#200622-3730. 0.98 AC. ARE PROPOSED UNDER THIS PROPOSED APPLICATION FOR BASIN B-1



REVISIONS			
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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

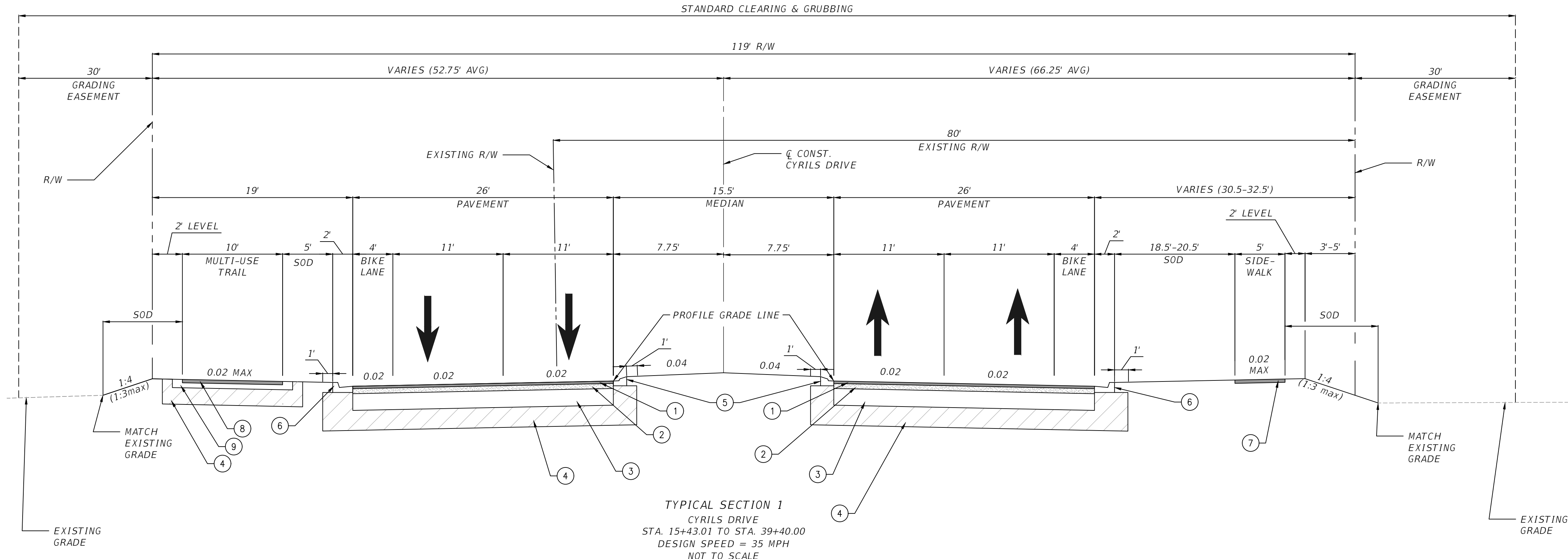
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
DRAINAGE MAP

SHEET NO.
18

Z:\2017\17-042 TAVISOCK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\CH1 & FIG5\STORMWATER\FIGURE 7 POST-DEVELOPMENT BASIN MAP

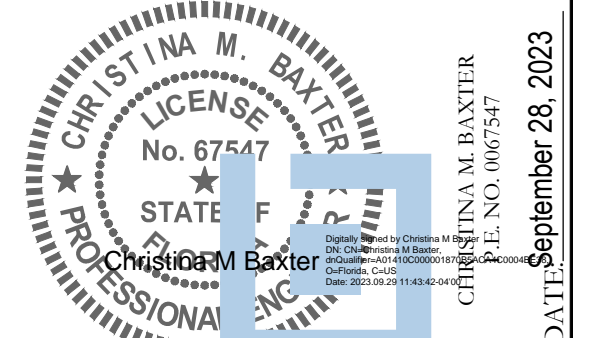
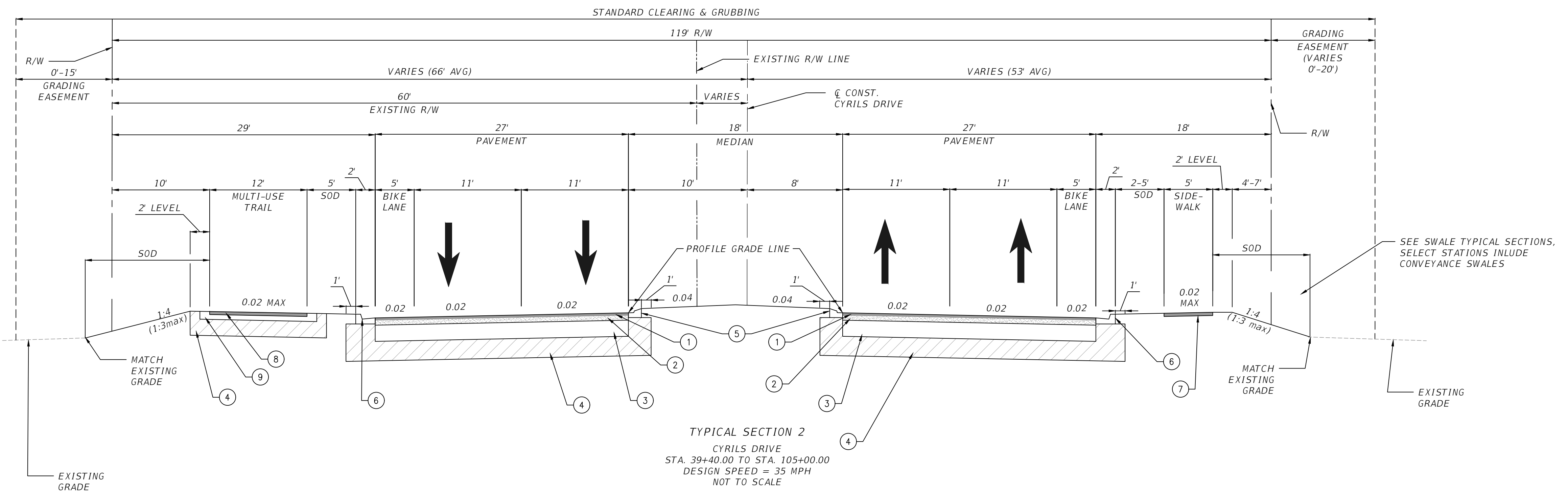
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NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



Legend	
ID	Description
1	1" SP FRICTION COURSE (TRAFFIC B)
2	2" STRUCTURAL COURSE TYPE SP-12.5 (TRAFFIC B)
3	10" LIMEROCK BASE COURSE WITH LBR=100 (SN=3.86)
4	12" STABILIZED SUBGRADE WITH LBR=40
5	TYPE 'A' CURB & GUTTER
6	TYPE 'F' CURB & GUTTER
7	4" THICK CONCRETE SIDEWALK
8	1" TYPE SP-9.5 (TRAFFIC A)
9	4" LIMEROCK BASE (LBR100)

- NOTES:
- PAVEMENT STRUCTURE DESIGN PER LIMITED GEOTECHNICAL EXPLORATION CYRILS DRIVE ROADWAY WIDENING BY UNIVERSAL ENGINEERING SCIENCES, APRIL 22, 2020 REVISED FEBRUARY 1, 2021
 - CONTRACTOR SHALL SEE RIGHT OF WAY MAPS FOR RIGHT OF WAY STAKING
 - FROM STATION 68+50 TO STATION 107+00, PAVEMENT DESIGN WILL CHANGE TO 10" RCA BASE (LBR 150)



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Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

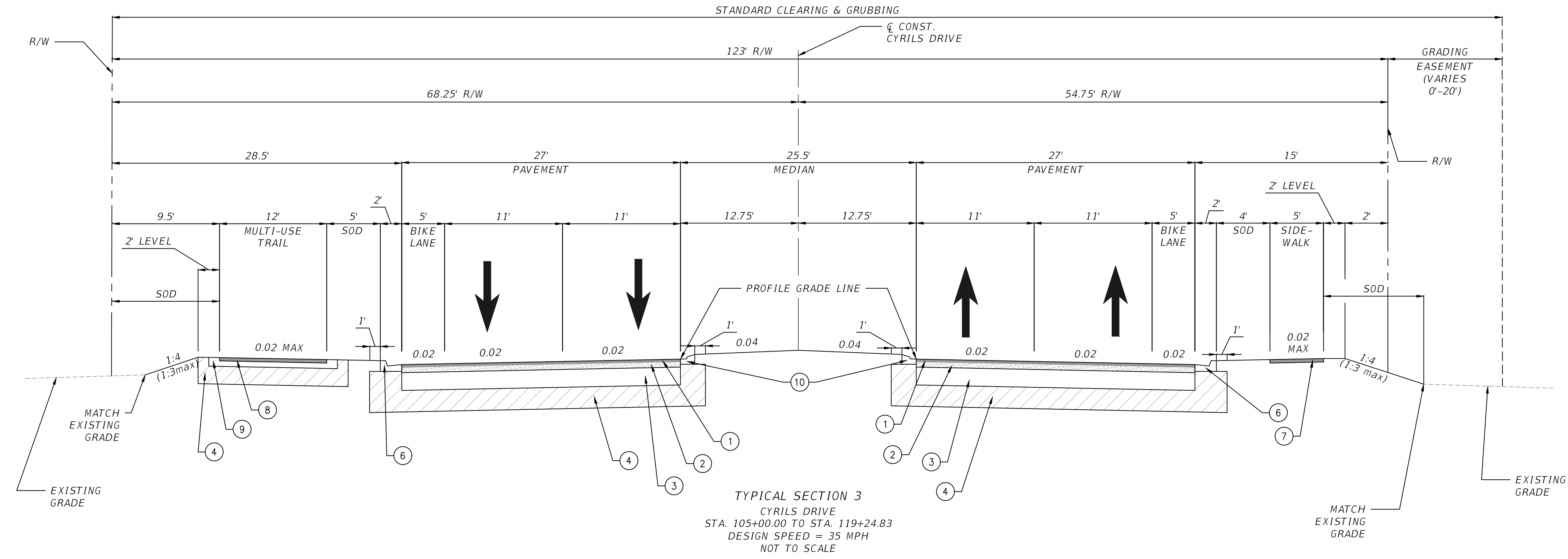
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
TYPICAL ROADWAY SECTIONS

SHEET NO.
19

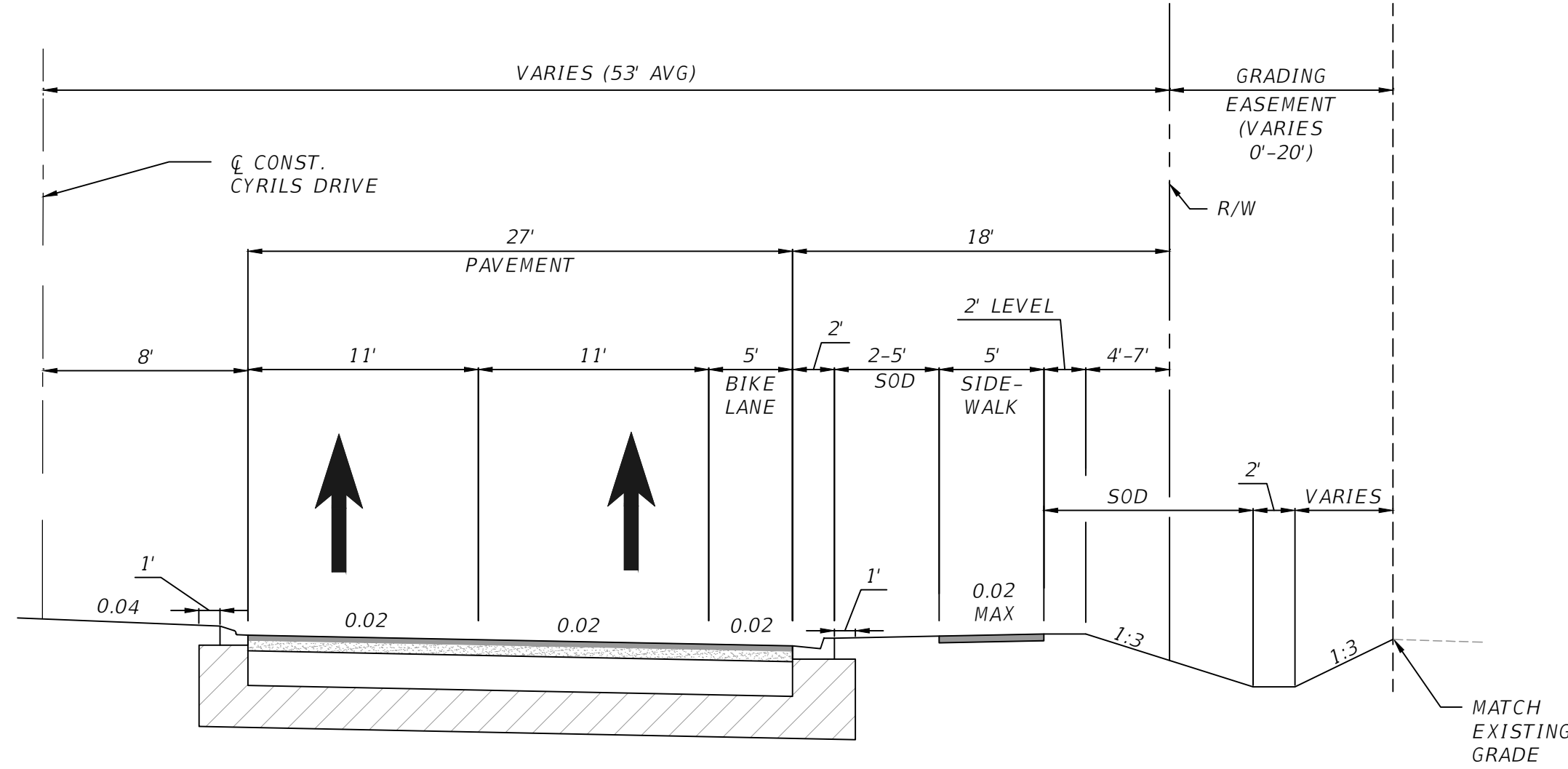
Z:\2017\17-042 TAVISSTOCK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-17S

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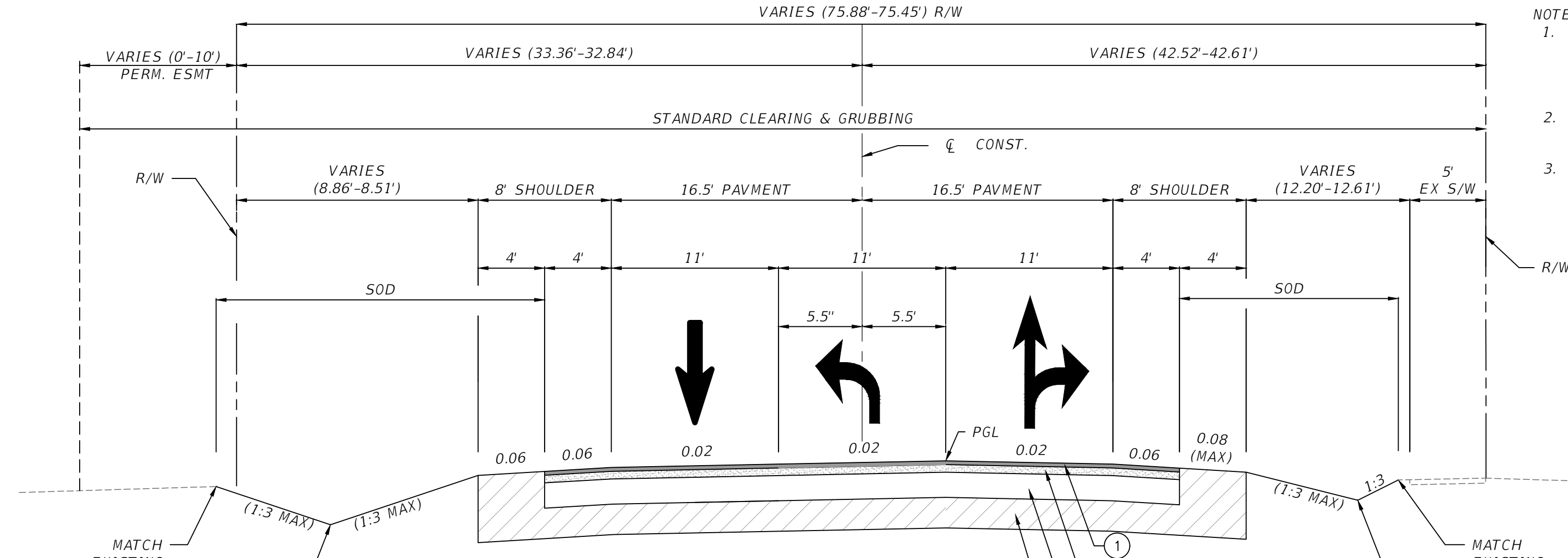


Legend	
ID	Description
①	1" FRICTION COURSE (TRAFFIC B)
②	2" STRUCTURAL COURSE TYPE SP-12.5 (TRAFFIC B)
③	10" LIMEROCK BASE COURSE WITH LBR=100 (SN=3.86)
④	12" STABILIZED SUBGRADE WITH LBR=40
⑤	TYPE 'A' CURB & GUTTER
⑥	TYPE 'F' CURB & GUTTER
⑦	4" THICK CONCRETE SIDEWALK
⑧	1" TYPE SP-9.5 (TRAFFIC A)
⑨	4" LIMEROCK BASE (LBR100)
⑩	TYPE 'E' CURB & GUTTER



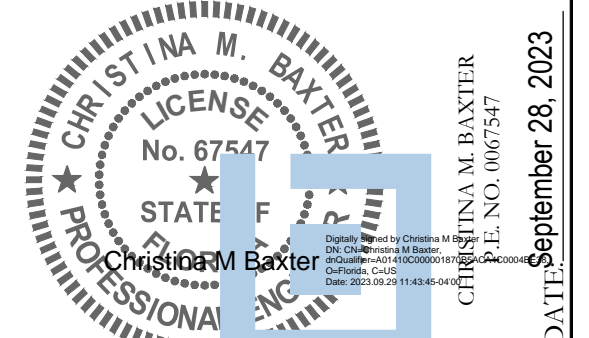
TYPICAL SECTION
CYRILS DRIVE SWALES
STA. 56+25.00 to STA. 60+20.00
STA 66+41.00 to STA 70+25.00 (D110)
STA 70+25.00 to STA 75+49.00 (D200)
STA 79+59.00 (D204) to STA 85+45.00
MIN SWALE CONVEYANCE SLOPE = 0.20%
(SEE CROSS SECTIONS FOR BOTTOM ELEVATIONS)
DESIGN SPEED = 35 MPH
NOT TO SCALE

ANY STATIONS NOT LISTED BETWEEN WILL HAVE A TIE IN SLOPE ONLY PER TYPICAL SECTION 2



TYPICAL SECTION
ZUNI ROAD
STA 123+73.00 - STA 129+94.52
DESIGN SPEED = 35 MPH
NOT TO SCALE

- NOTES:
- PAVEMENT STRUCTURE DESIGN PER LIMITED GEOTECHNICAL EXPLORATION CYRILS DRIVE ROADWAY WIDENING BY UNIVERSAL ENGINEERING SCIENCES, APRIL 22, 2020 REVISED FEBRUARY 1, 2021
 - CONTRACTOR SHALL SEE RIGHT OF WAY MAPS FOR RIGHT OF WAY STAKING
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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

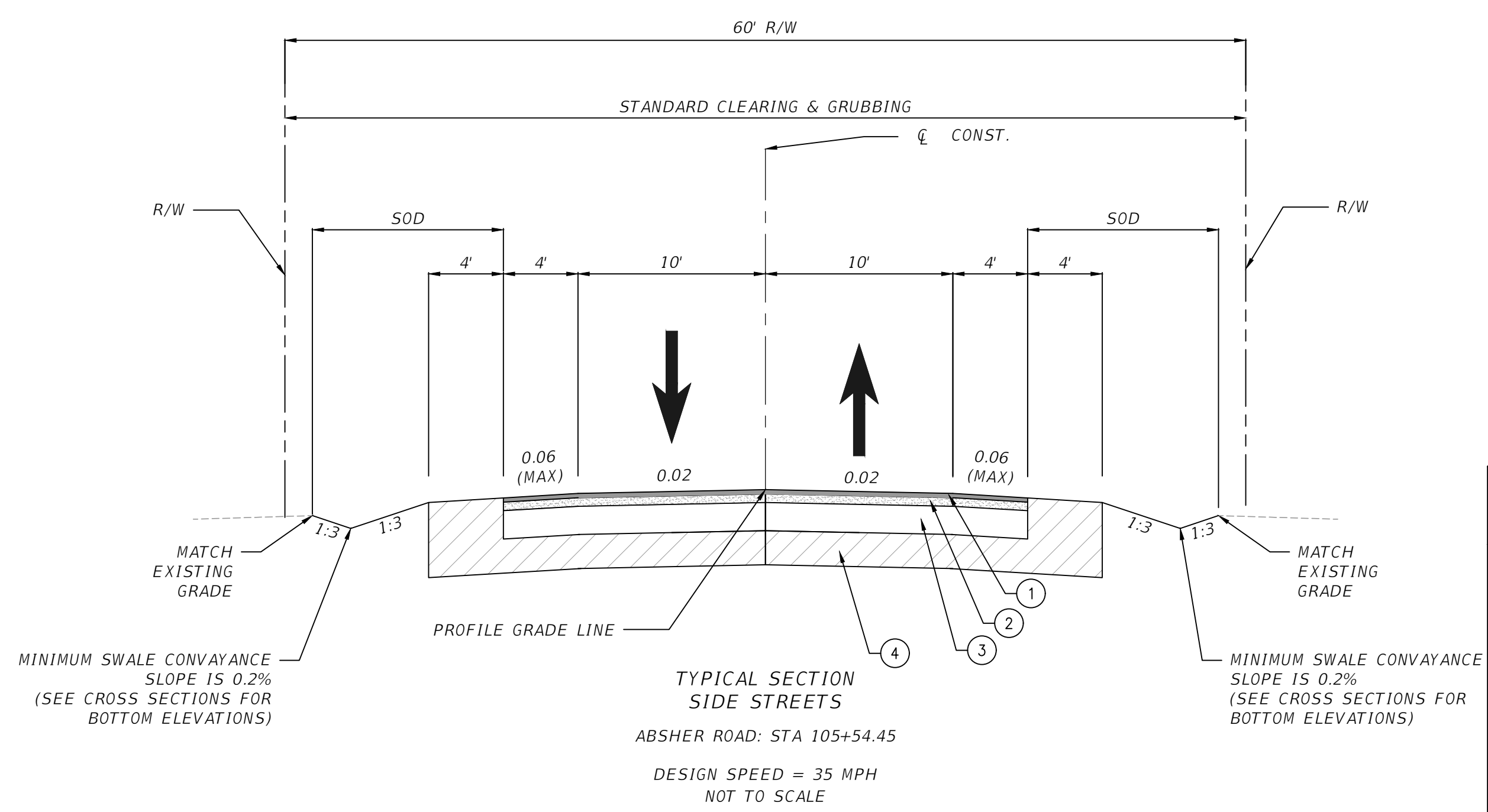
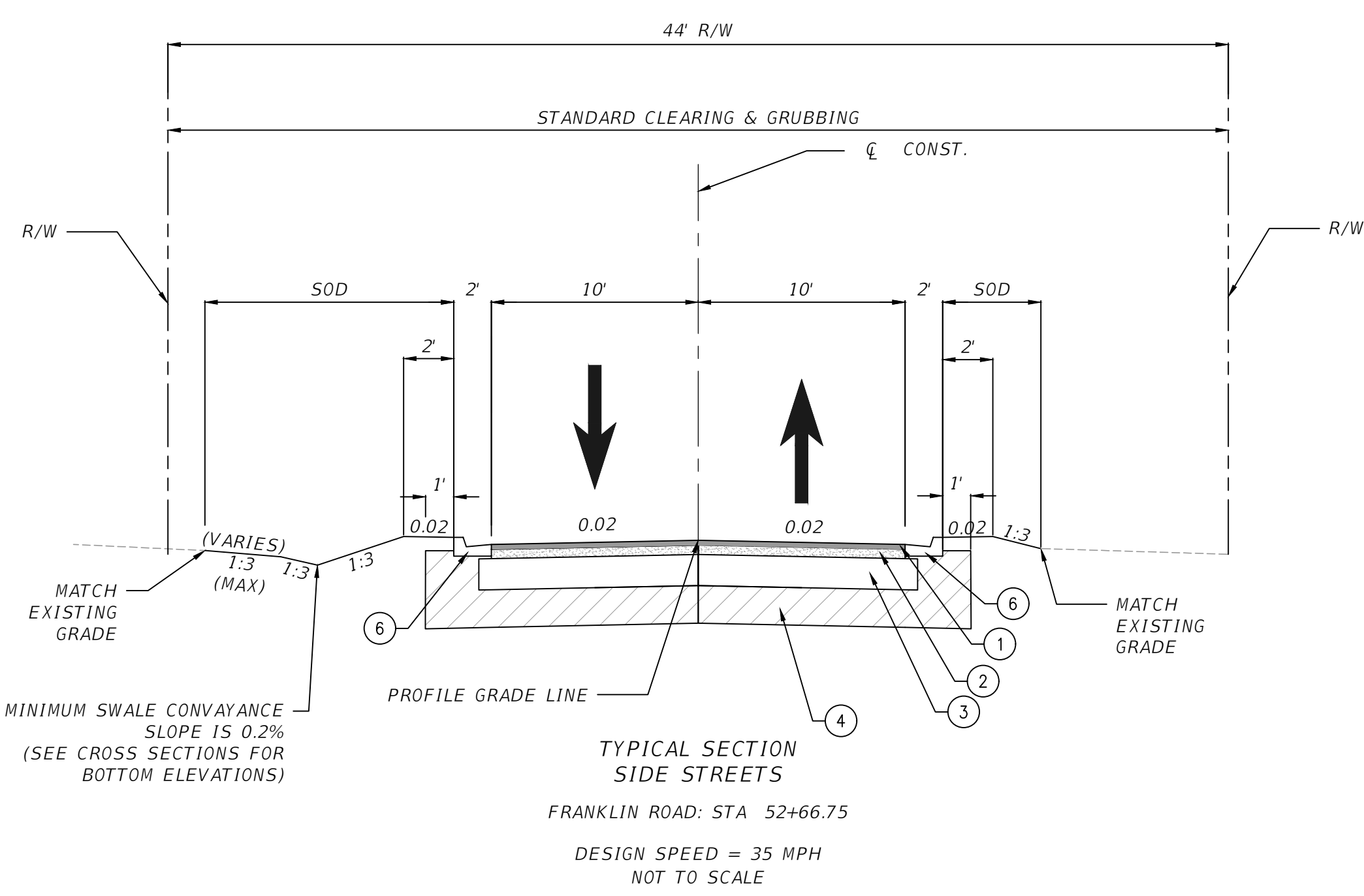
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
TYPICAL ROADWAY SECTIONS

SHEET NO.
20

Z:\2017\17-042 TAMISOCK - SUNBRIDGE\CYRILS DR\WALCOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-IF5

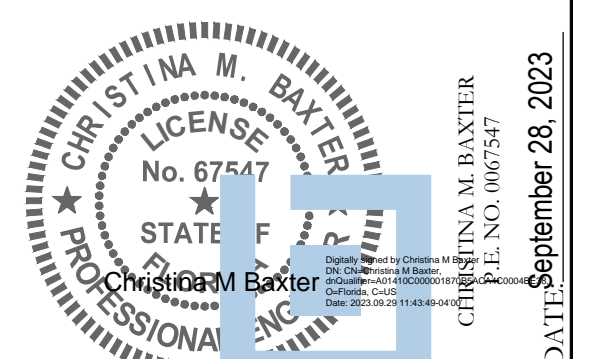
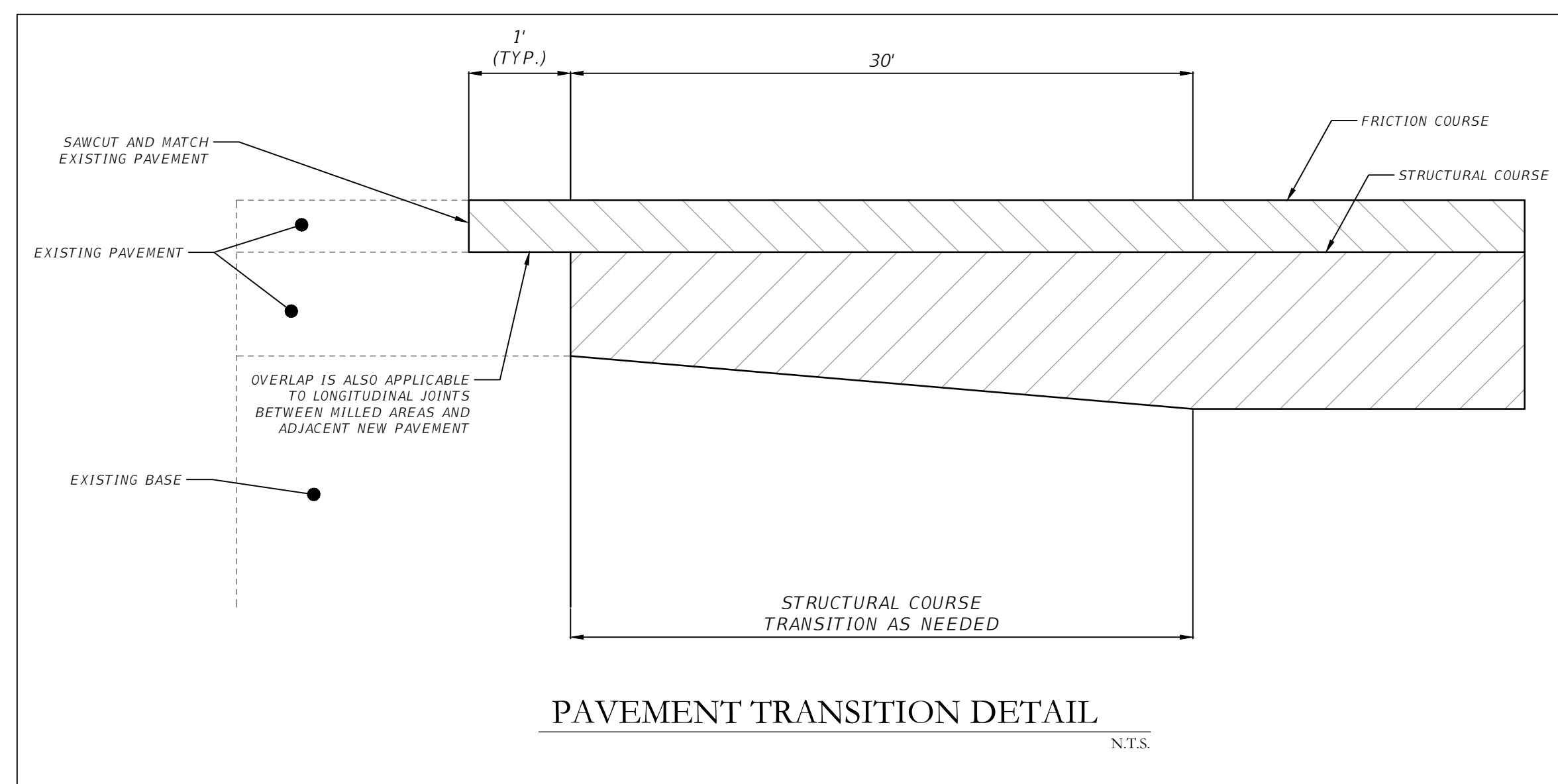
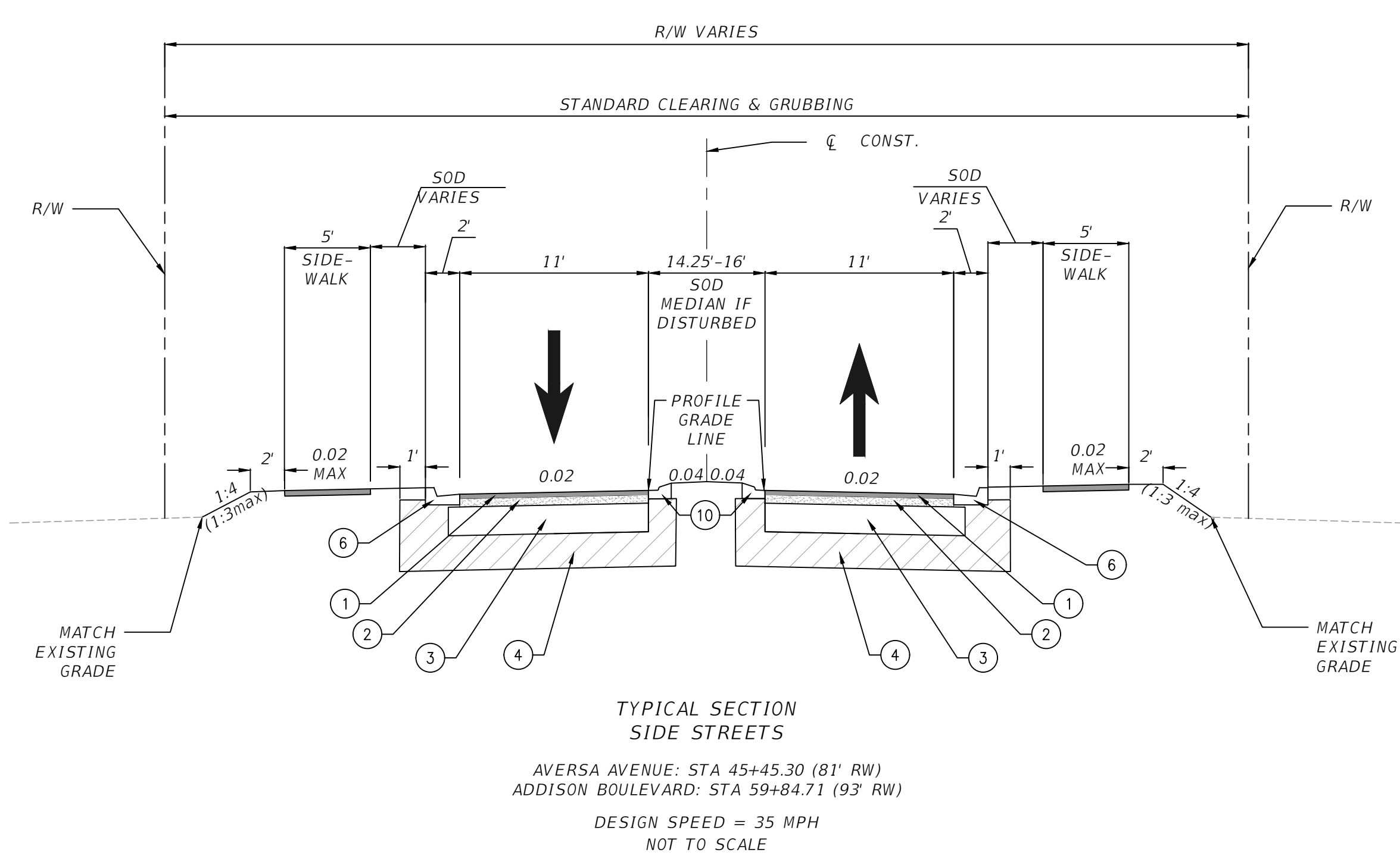
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9	4" LIMEROCK BASE (LBR100)
10	TYPE 'E' CURB & GUTTER

- NOTES:
- PAVEMENT STRUCTURE DESIGN PER LIMITED GEOTECHNICAL EXPLORATION CYRILS DRIVE ROADWAY WIDENING BY UNIVERSAL ENGINEERING SCIENCES, APRIL 22, 2020 REVISED FEBRUARY 1, 2021
 - PAVEMENT DESIGN FOR FUTURE CONNECTION #1, DRIVEWAY #13 SHALL BE 3" STRUCTURAL COURSE TYPE SP-12.5
 - CONTRACTOR SHALL SEE RIGHT OF WAY MAPS FOR RIGHT OF WAY STAKING



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Z:\2017\17-042 TAVISDOCK - SUNBRIDGE\CYRILS DR\ARCOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-IF5

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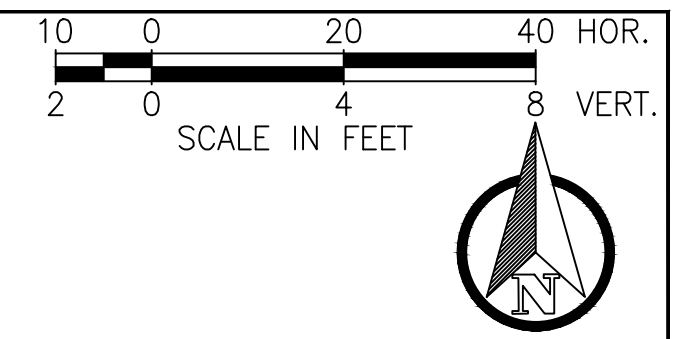
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
TYPICAL ROADWAY SECTIONS

SHEET NO.	21
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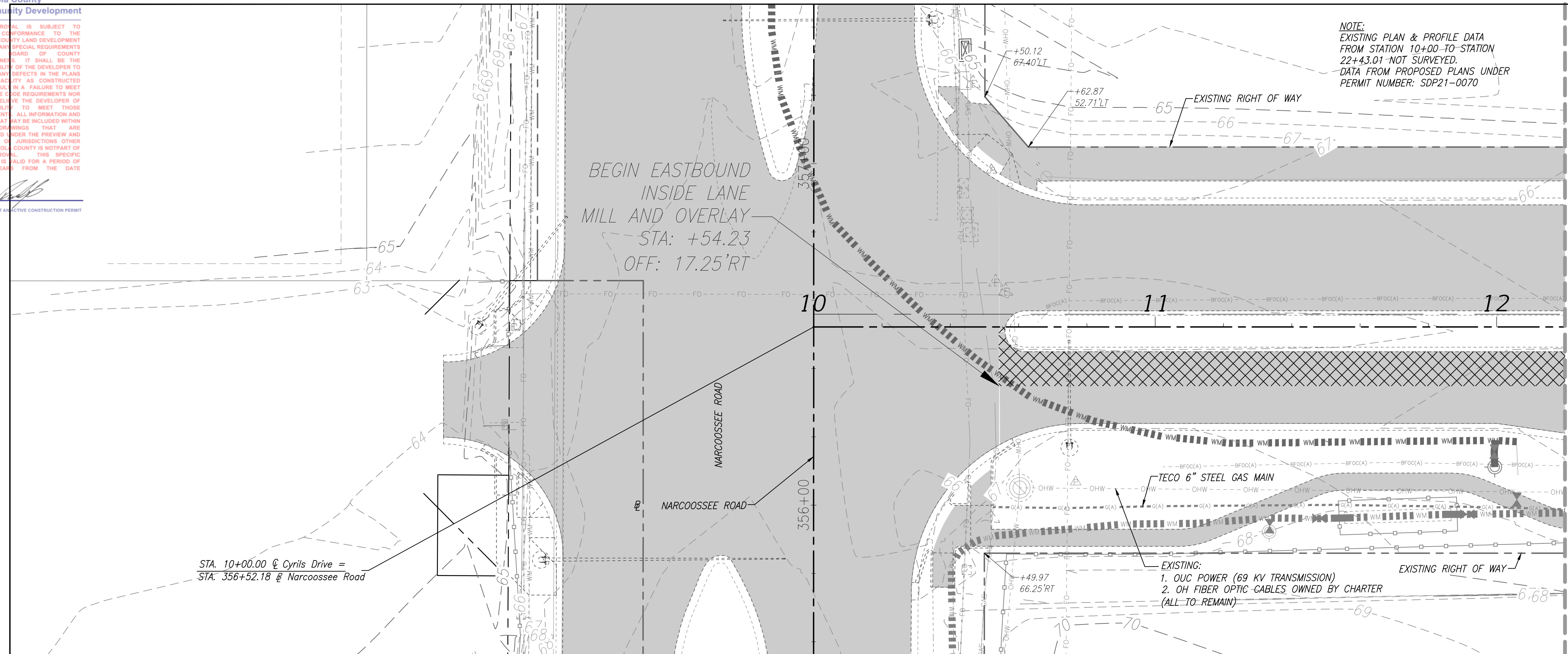
Osceola County
Community Development

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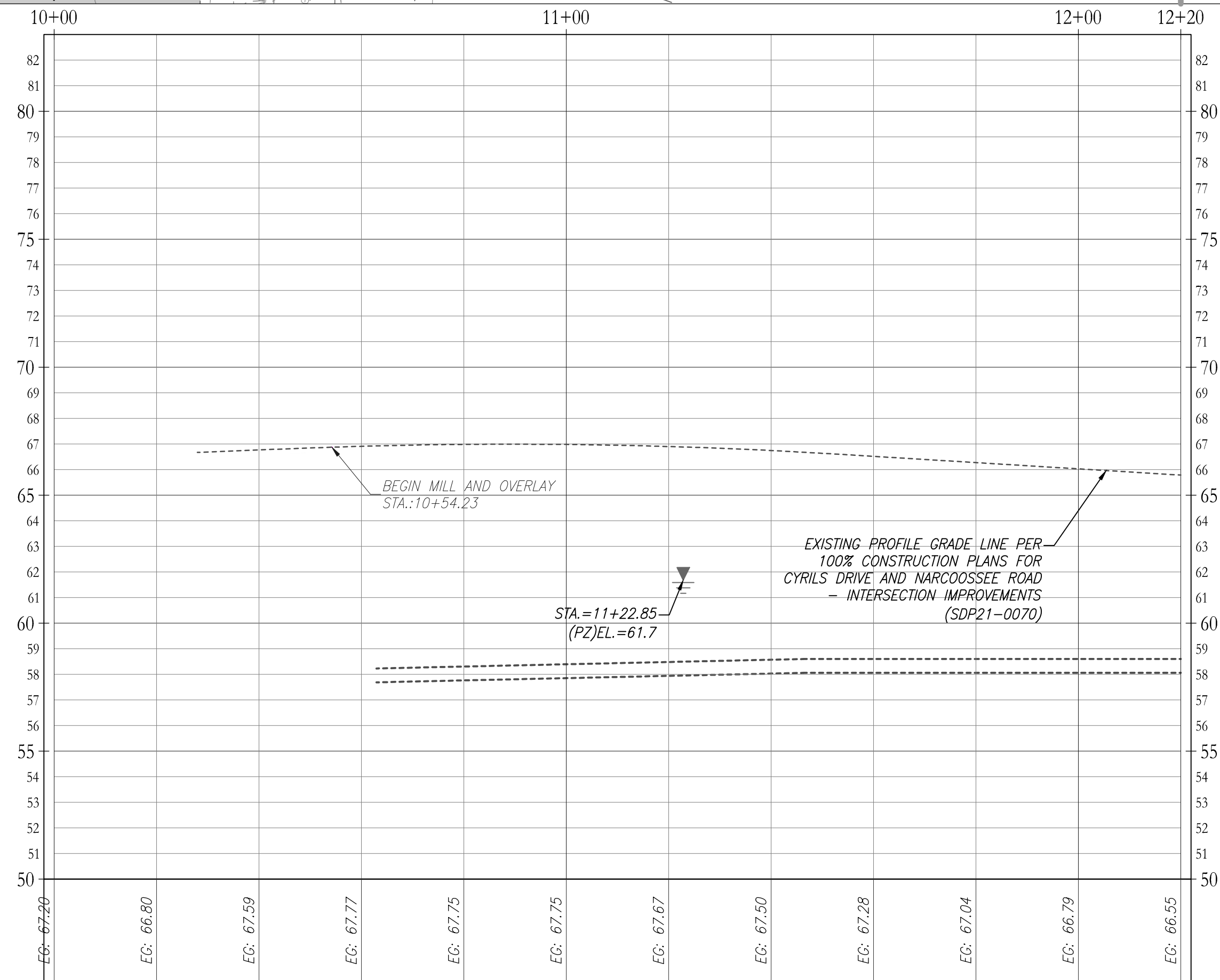


NOTE:
EXISTING PLAN & PROFILE DATA FROM STATION 10+00 TO STATION 22+43.01 NOT SURVEYED.
DATA FROM PROPOSED PLANS UNDER PERMIT NUMBER: SDP21-0070



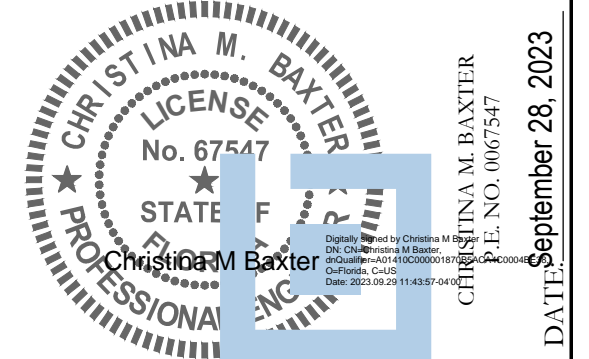
Legend

- = REMOVE EXISTING PAVEMENT
- = MULTI-USE PATH
- = EXISTING PAVEMENT
- = MILL & OVERLAY
- = SIDEWALK



NOTE: GAS MAIN HORIZONTAL LOCATION IS SHOWN IN PLAN VIEW PER SURVEY INFORMATION COLLECTED BY ATLANTIC SURVEYING IN JUNE 2023. THE GAS MAIN INFORMATION SHOWN IN PROFILE VIEW IS BASED ON THE TECO DESIGN LEVEL GAS MAIN PLANS (NO AS-BUILT DATA WAS PROVIDED BY TECO). SOFT DIG VERTICAL SURVEY INFORMATION PROVIDED AT DESIGNATED CONFLICT AREAS BY ATLANTIC SURVEYING (SEE UTILITY ADJUSTMENT SHEETS FOR SOFT DIG INFORMATION). CONTRACTOR TO FIELD VERIFY GAS MAIN LOCATION AT CROSSINGS & POINTS OF CONFLICT AND NOTIFY P&B OF ANY AREAS OF CONCERN.

SEE GENERAL NOTES SHEET FOR LEGEND



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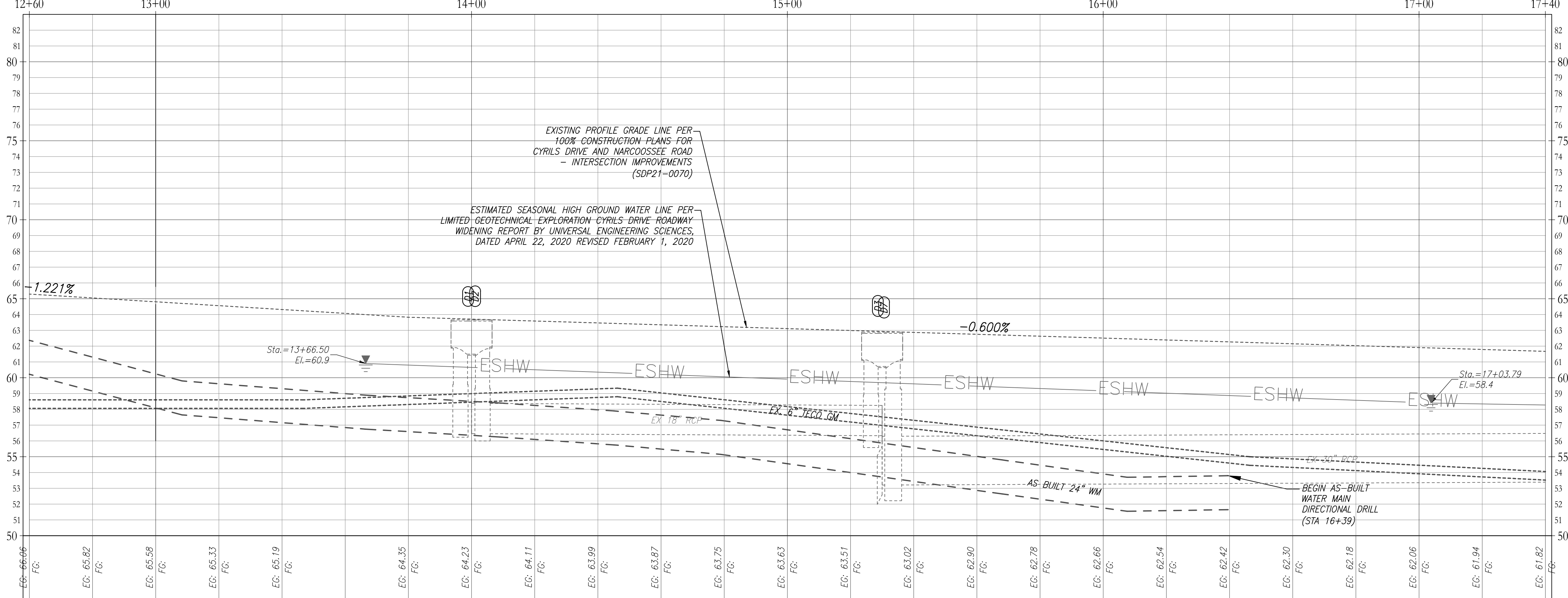
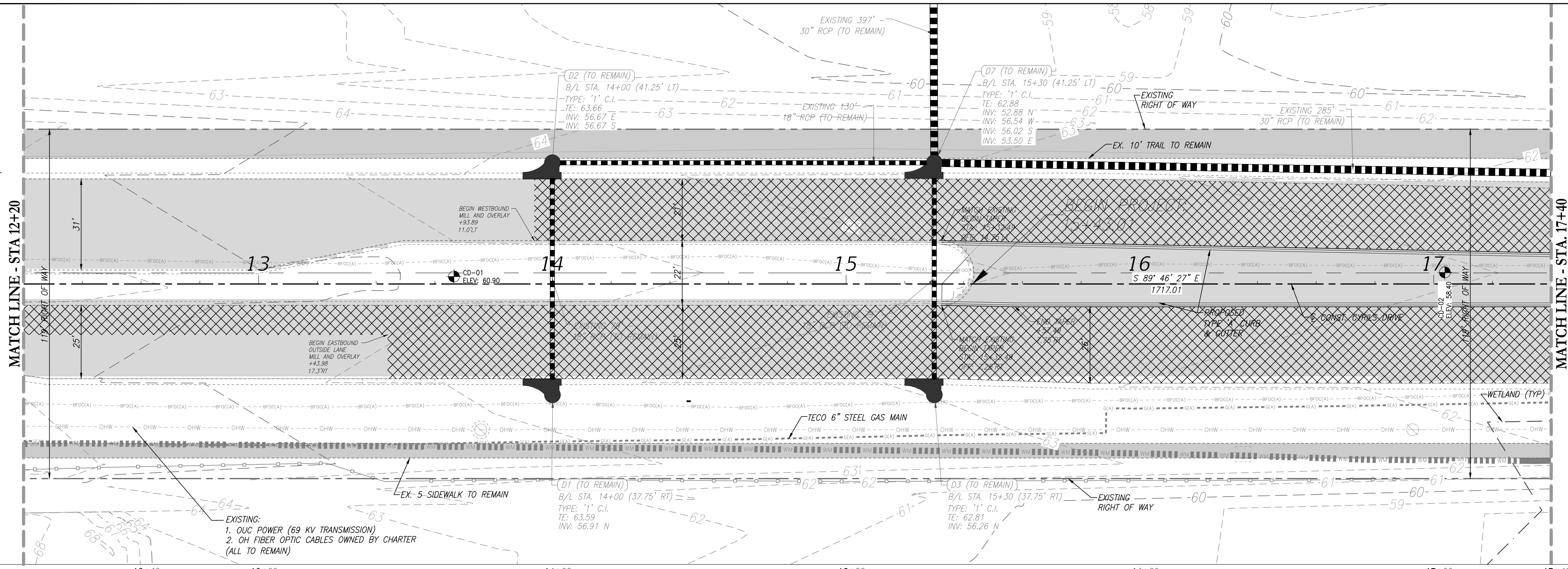
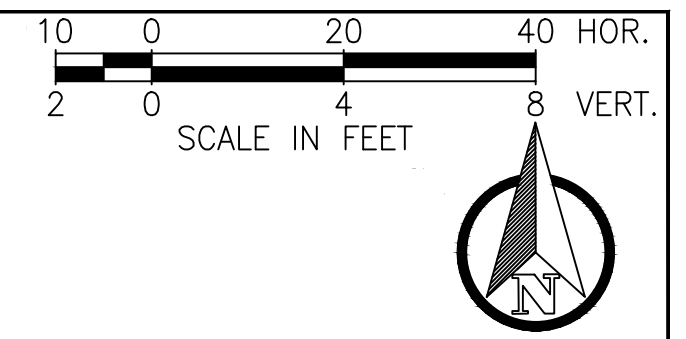
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
PLAN & PROFILE

SHEET NO.
23

Z:\2017\17-042 TAVISBOOK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-00208-CD&M-PP

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CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
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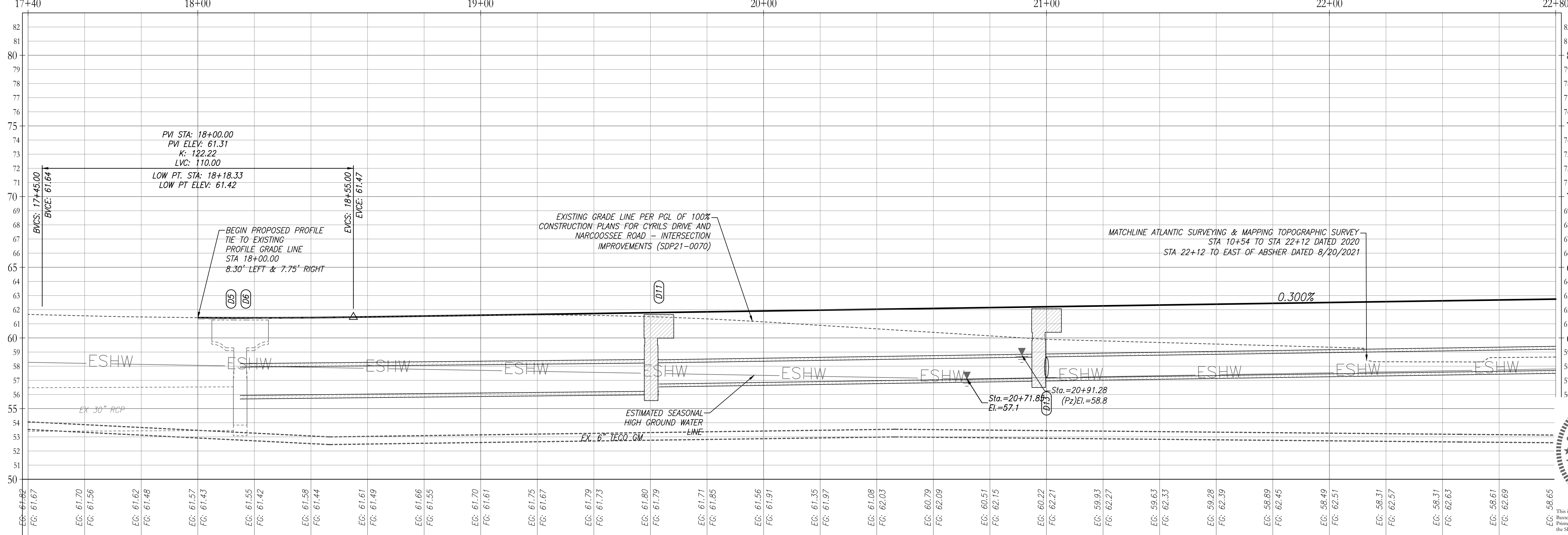
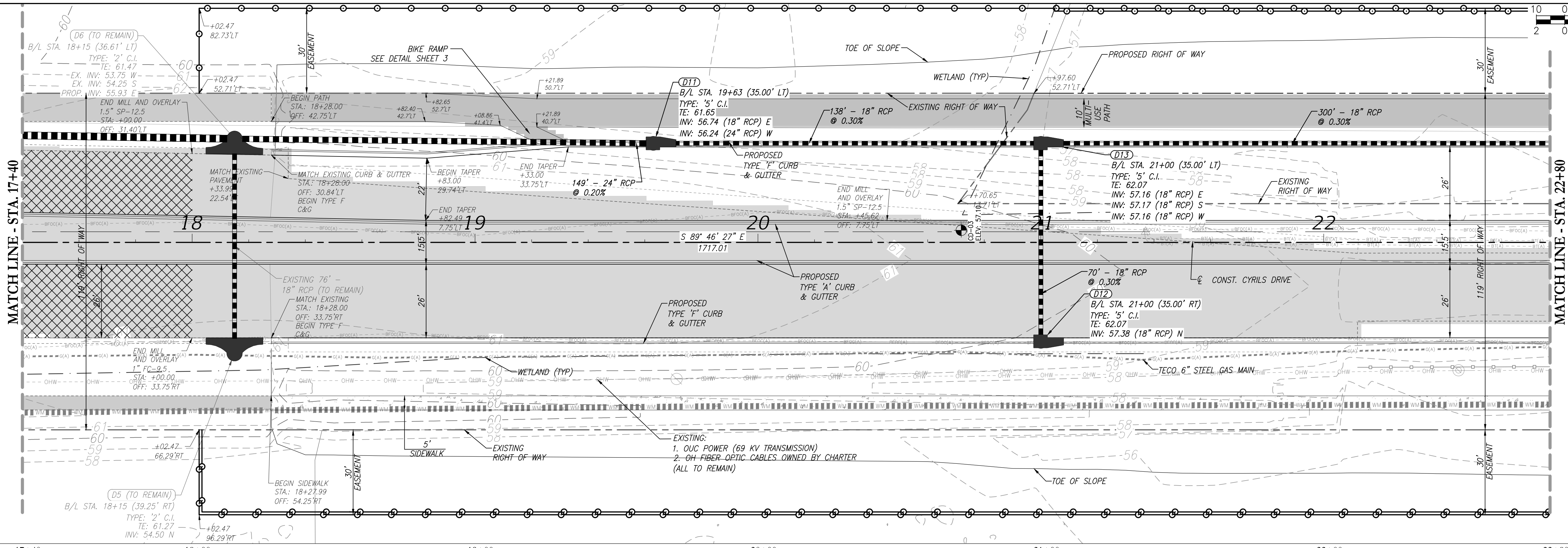
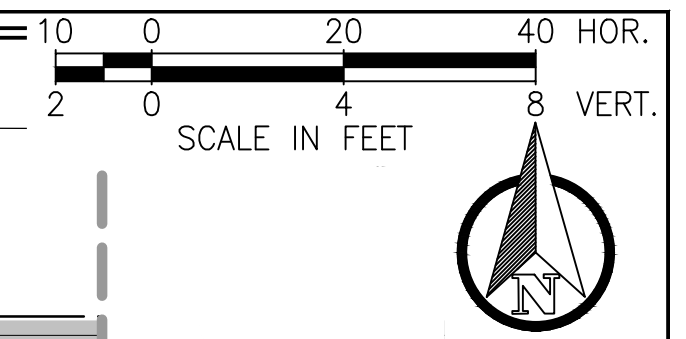
SHEET NO.
24

Z:\2017\17-042 TAMISDCK - SUNBRIE/CYRILS DR NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-16208-CD&M-PP

Osceola County
Community Development

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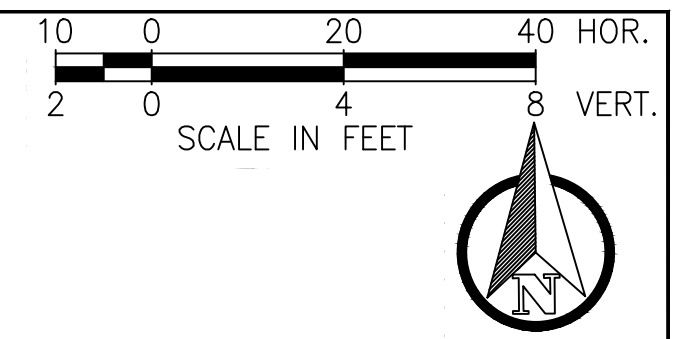
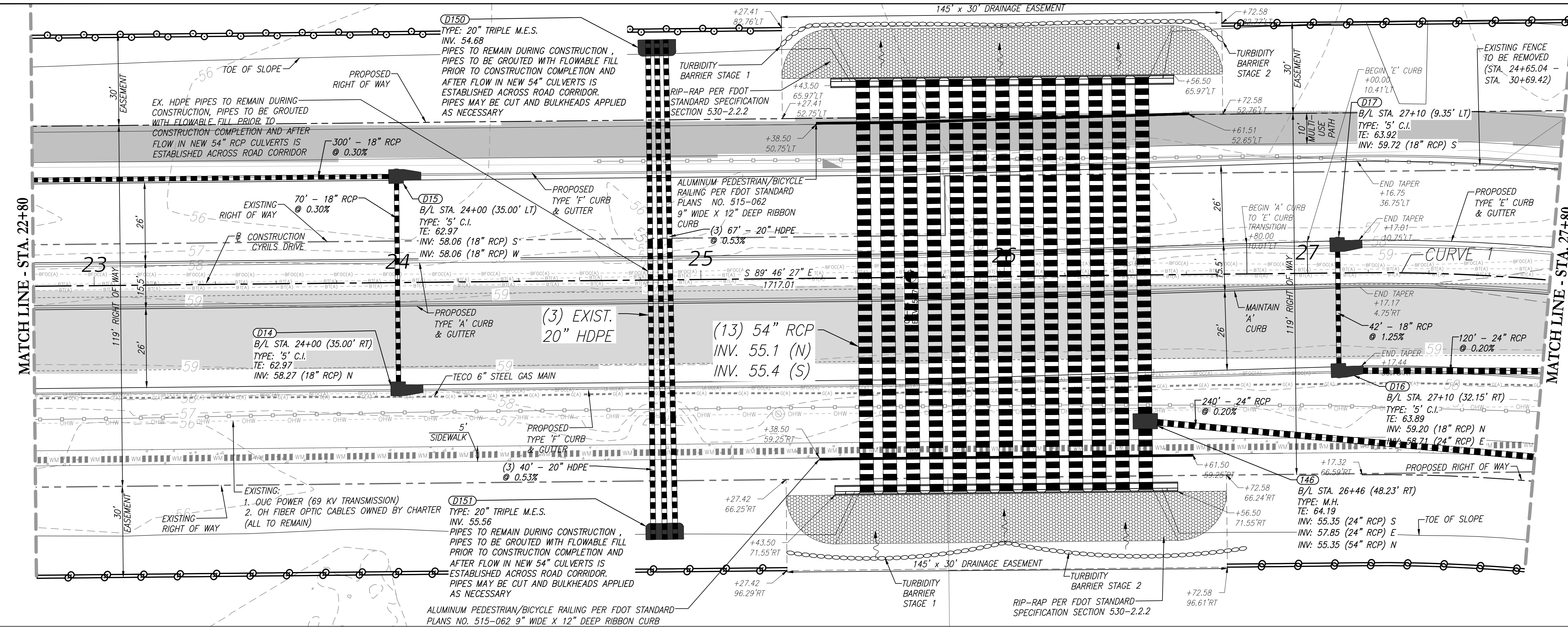
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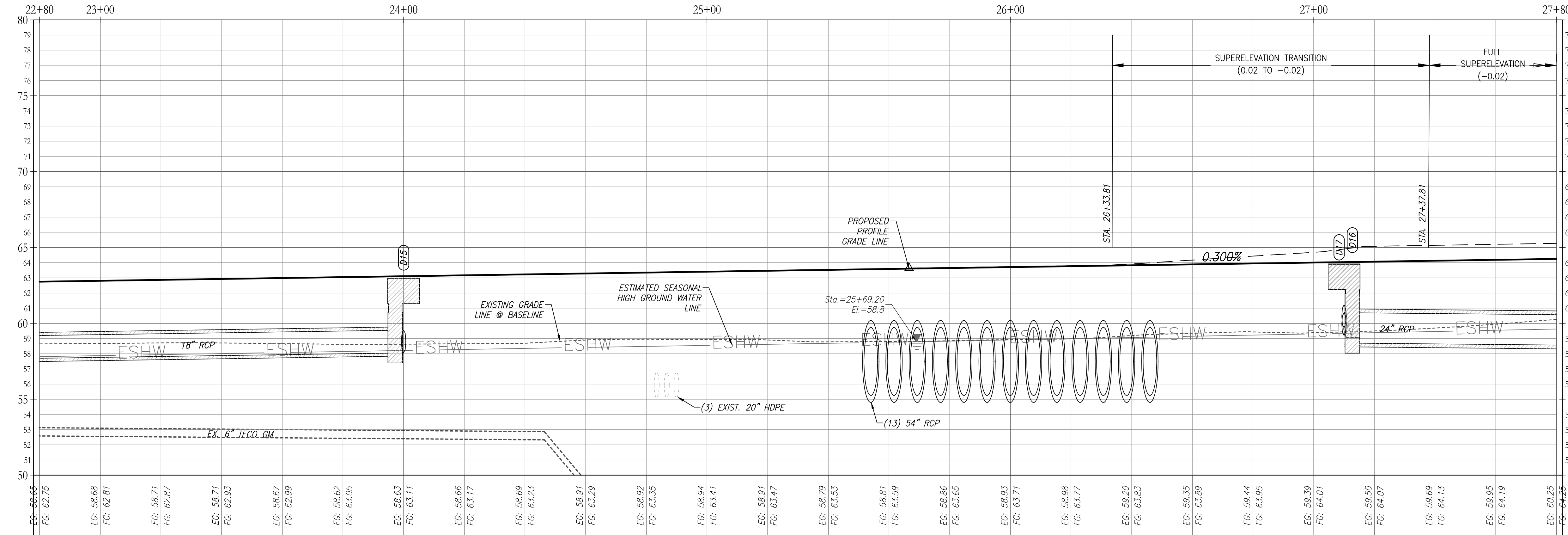
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PLAN & PROFILE

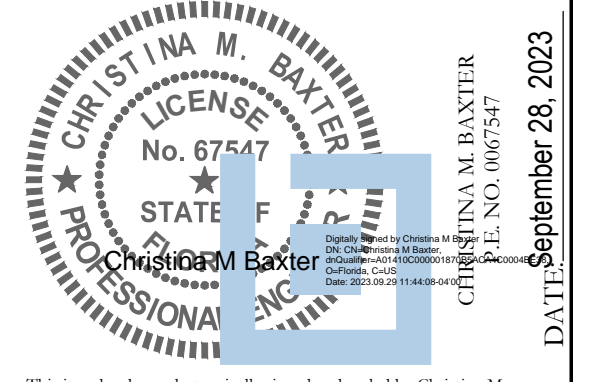
SHEET NO.
25



NOTE:
1. STRUCTURAL CALCULATIONS FOR CAST IN PLACE OR PRE-CAST HEAD WALLS SHALL BE PROVIDED BY CONTRACTOR WITH SHOP DRAWINGS FOR REVIEW AND APPROVAL BY OSCEOLA COUNTY.
2. SEE TURBIDITY BARRIER STAGE 1 AND 2 NOTES ON SHEET 9



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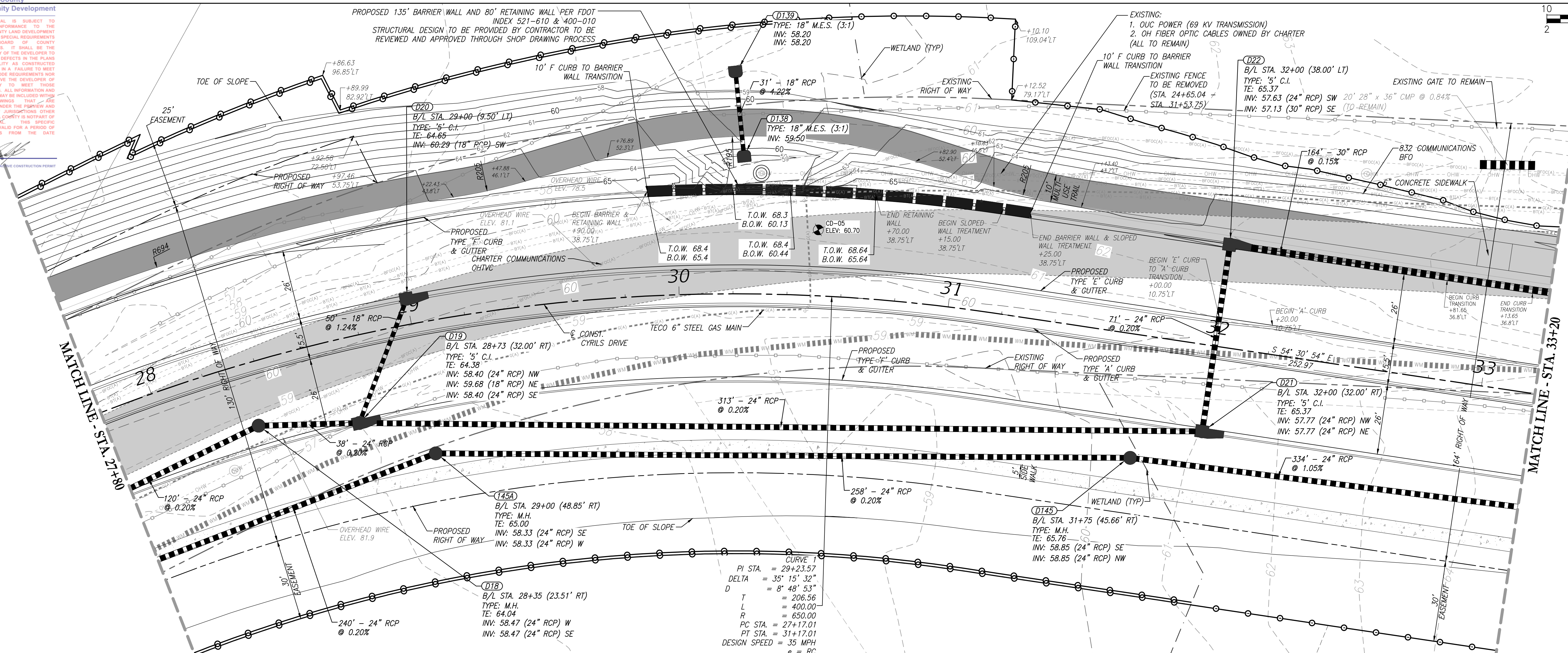
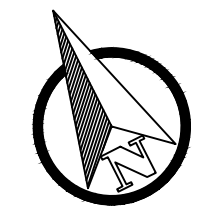
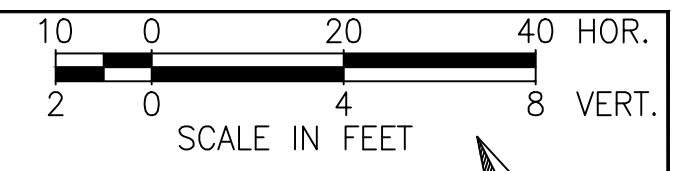
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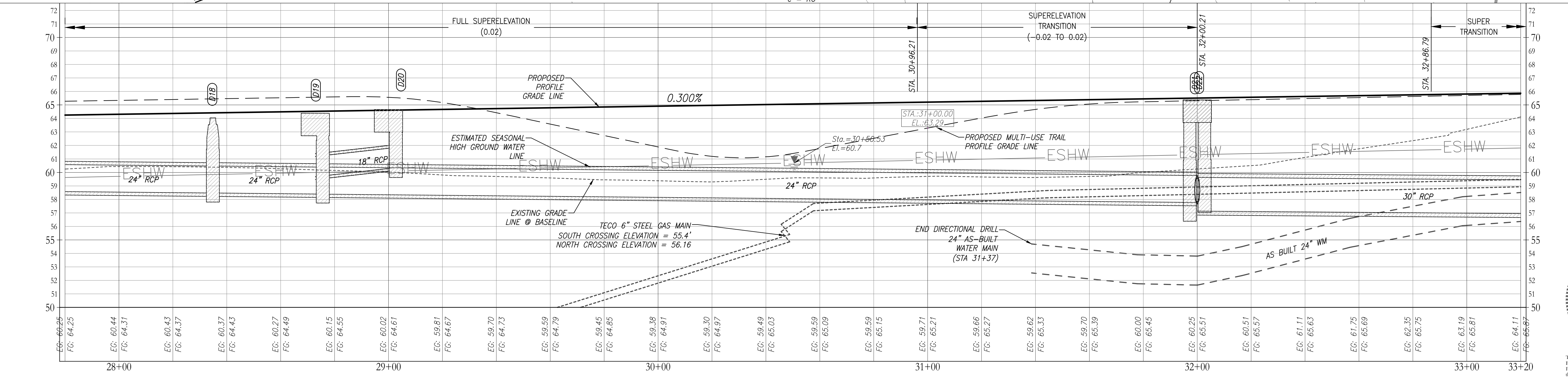
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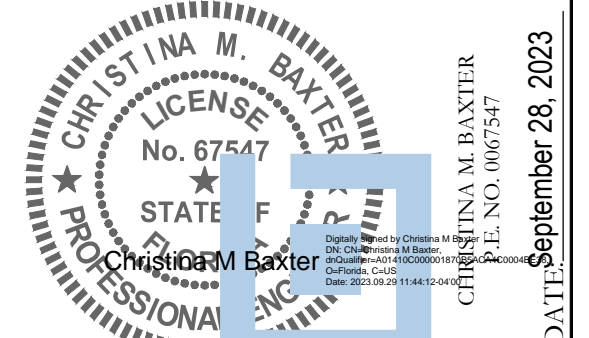
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CURVE 1
 PI STA. = 29+23.57
 DELTA = 35° 15' 32"
 D = 8' 48' 53"
 T = 206.56
 L = 400.00
 R = 650.00
 PC STA. = 27+17.01
 PT STA. = 31+17.01
 DESIGN SPEED = 35 MPH
 e = RC



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OSCEOLA COUNTY
 PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
 ABSHER ROAD - ROAD WIDENING
 PLAN & PROFILE

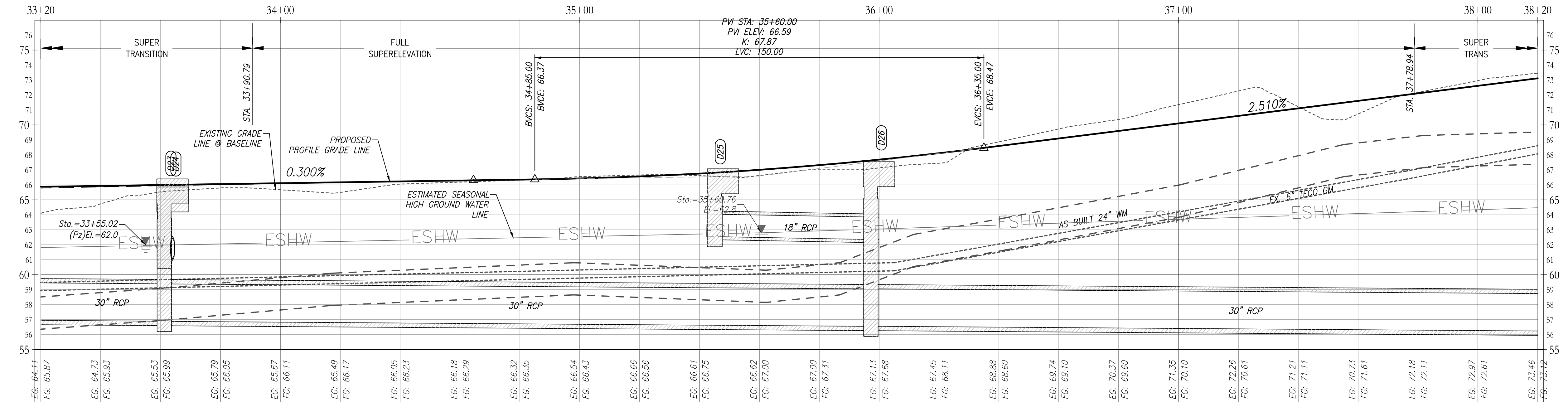
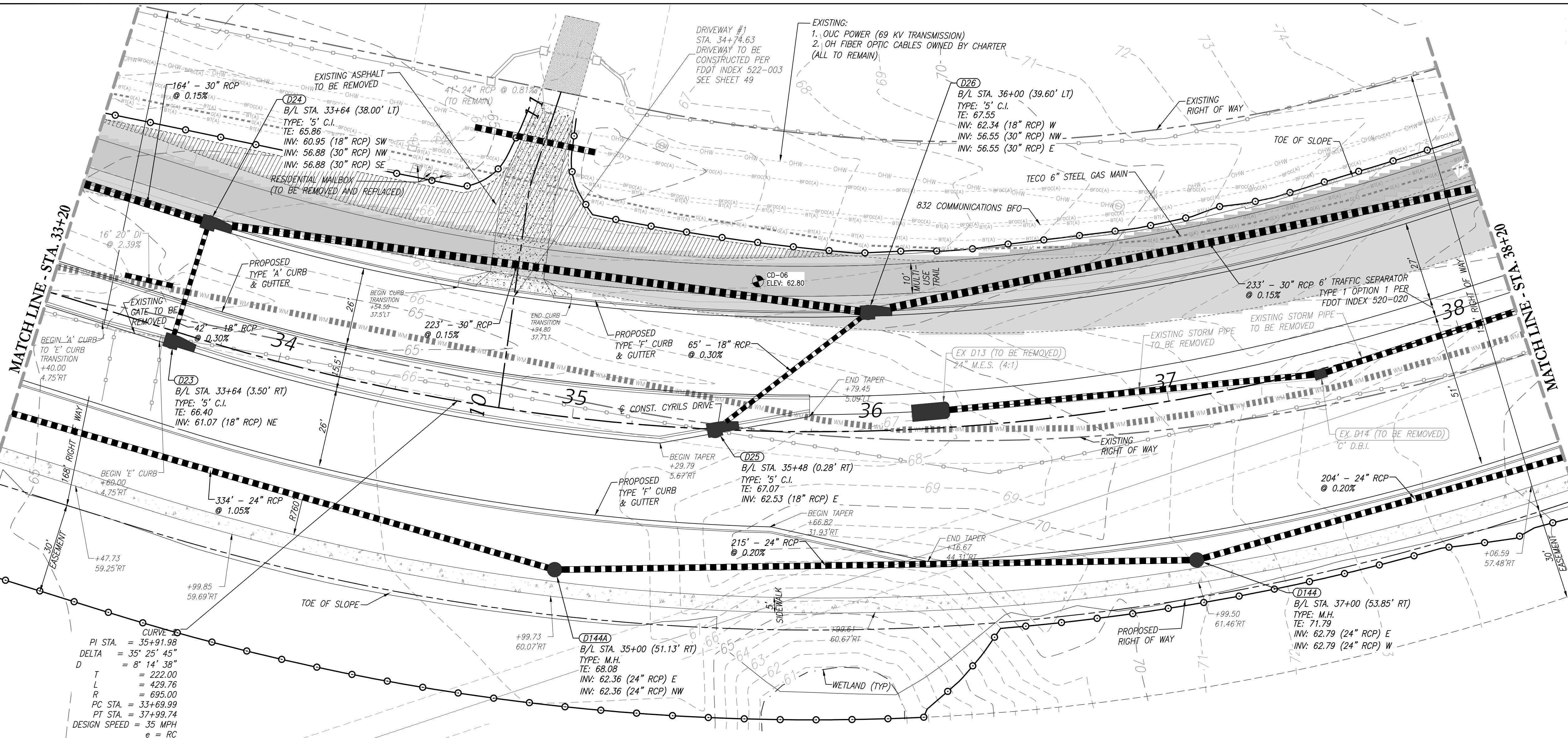
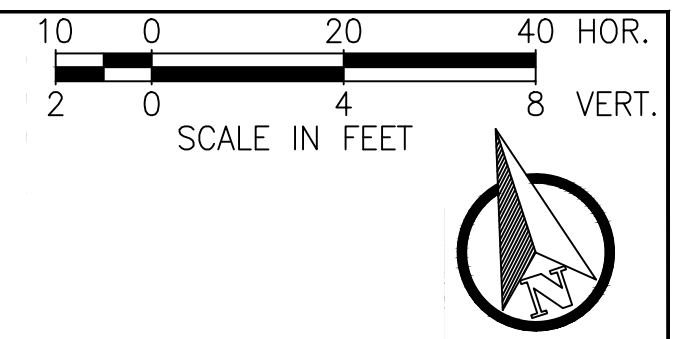
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Z:\2017\17-042 TAMISTOCK - SUNBRIKE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-PP

Osceola County
Community Development

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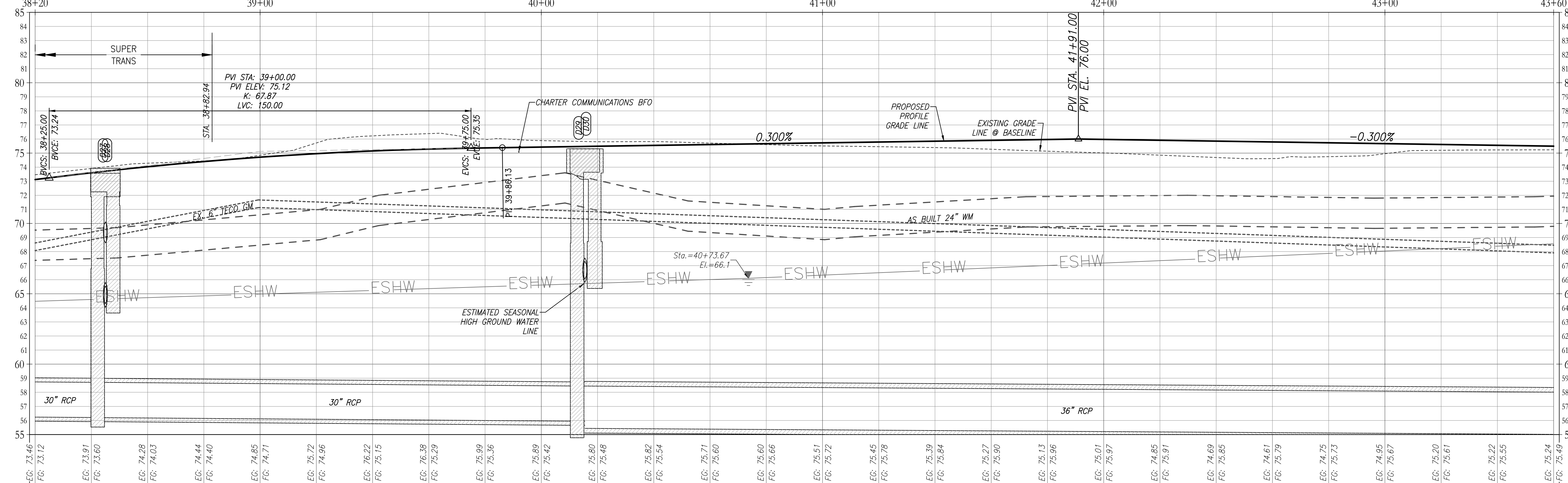
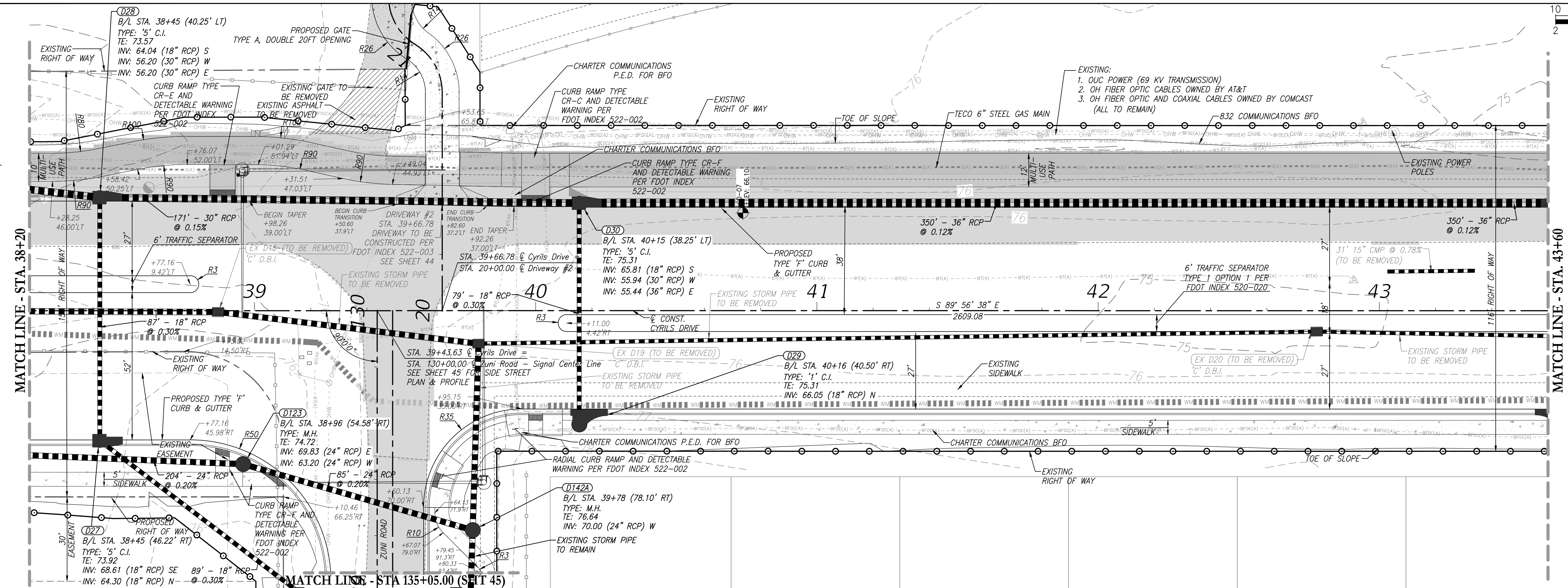
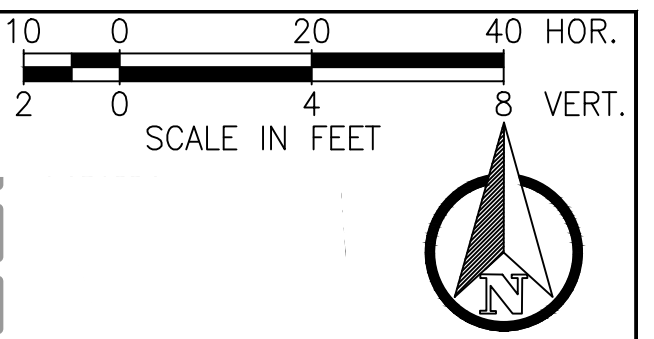
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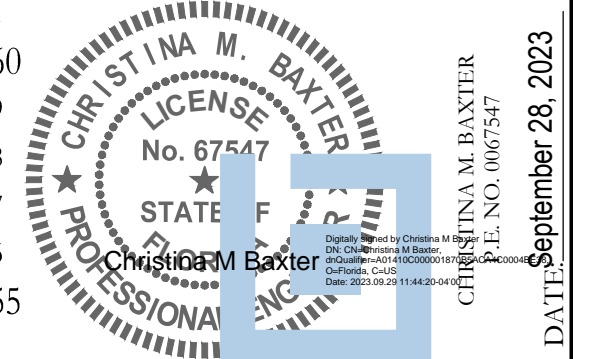
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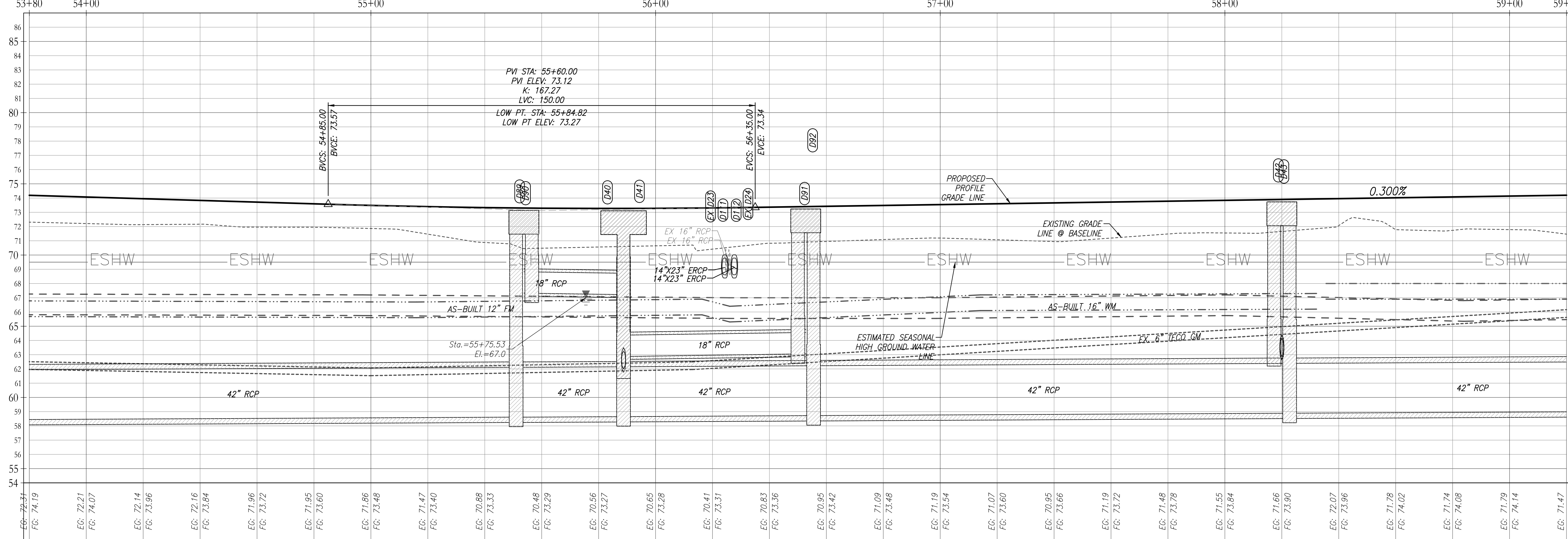
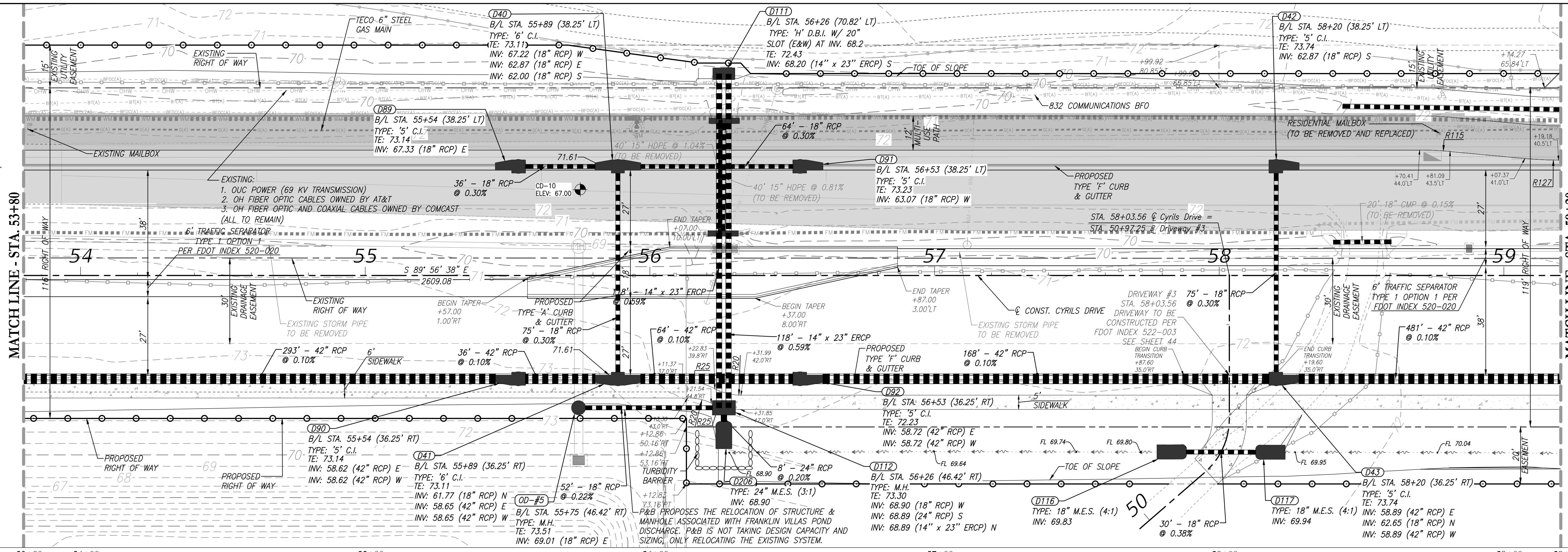
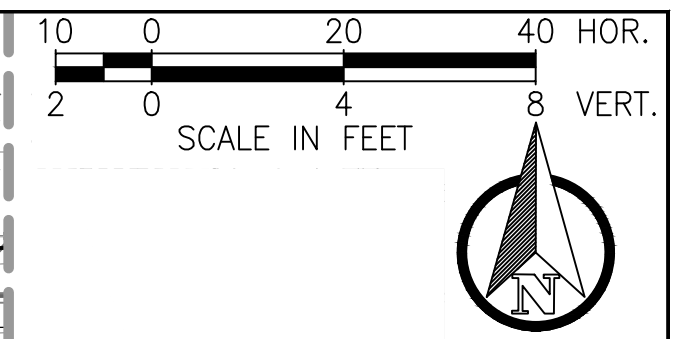


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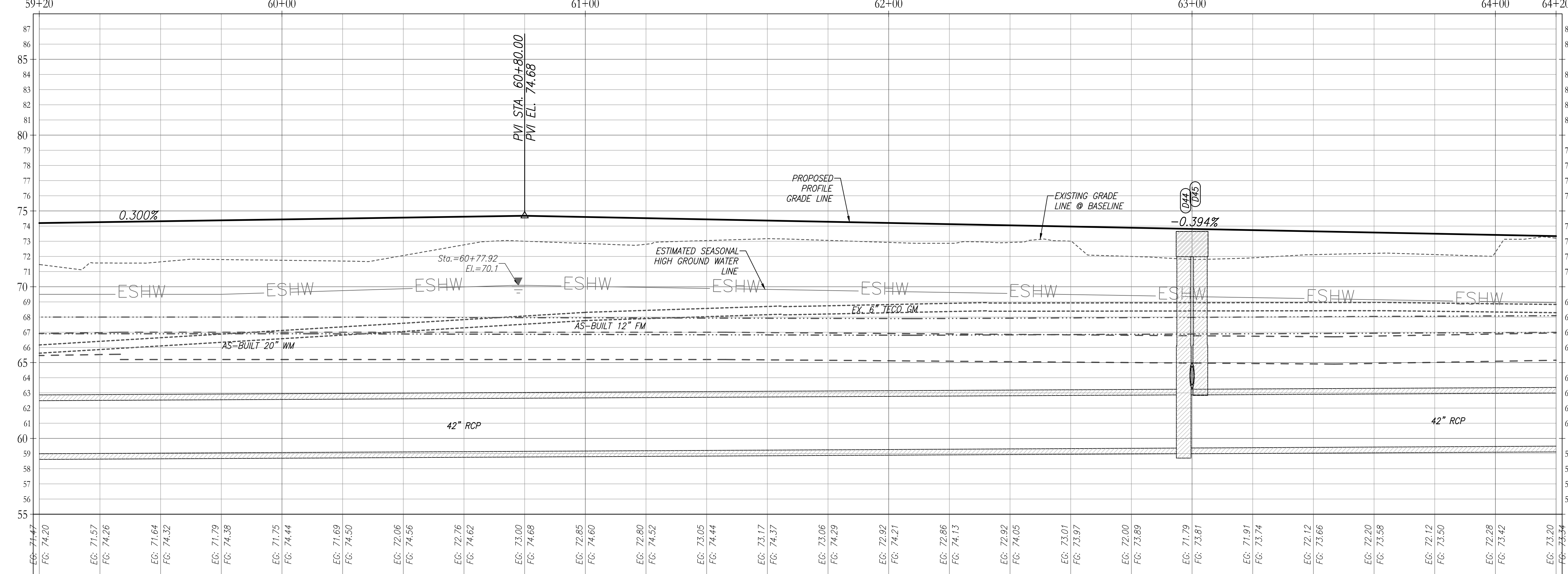
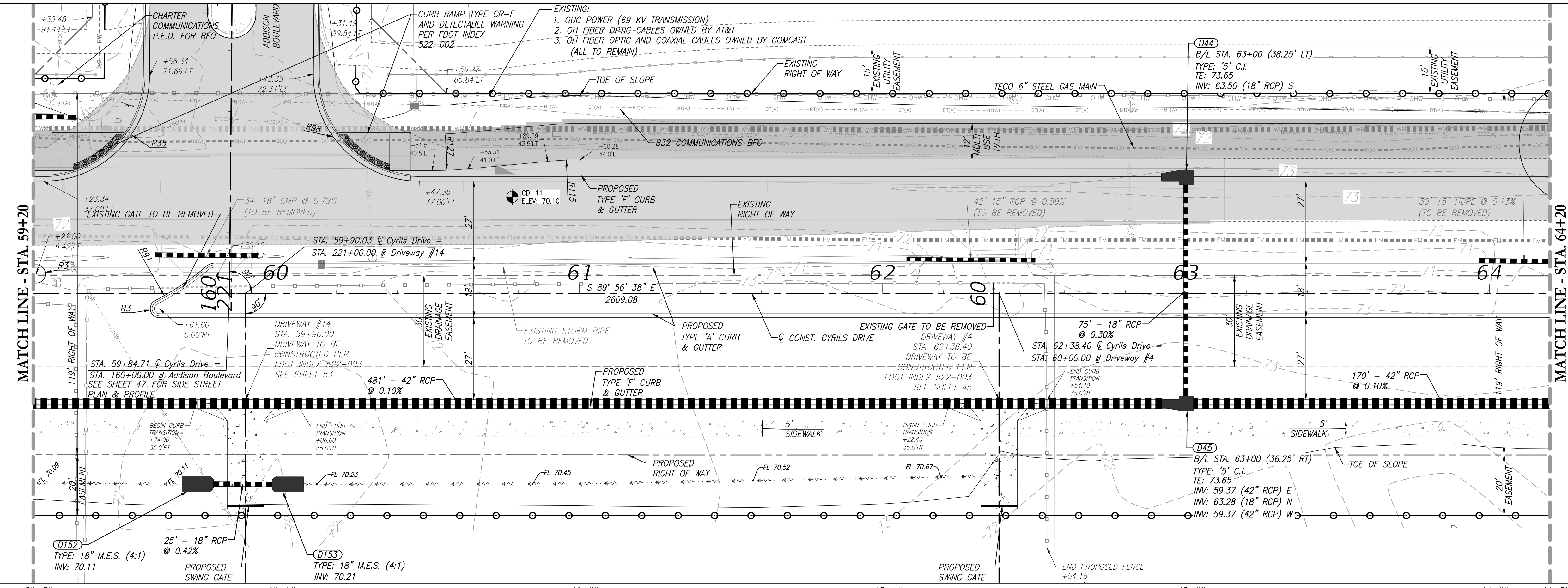
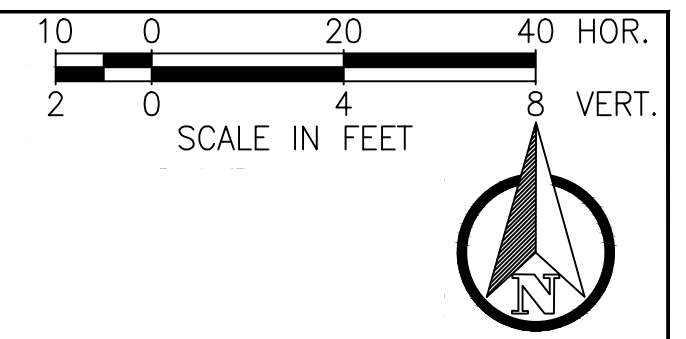
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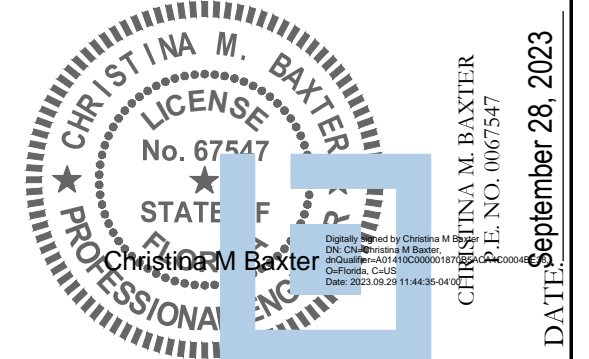
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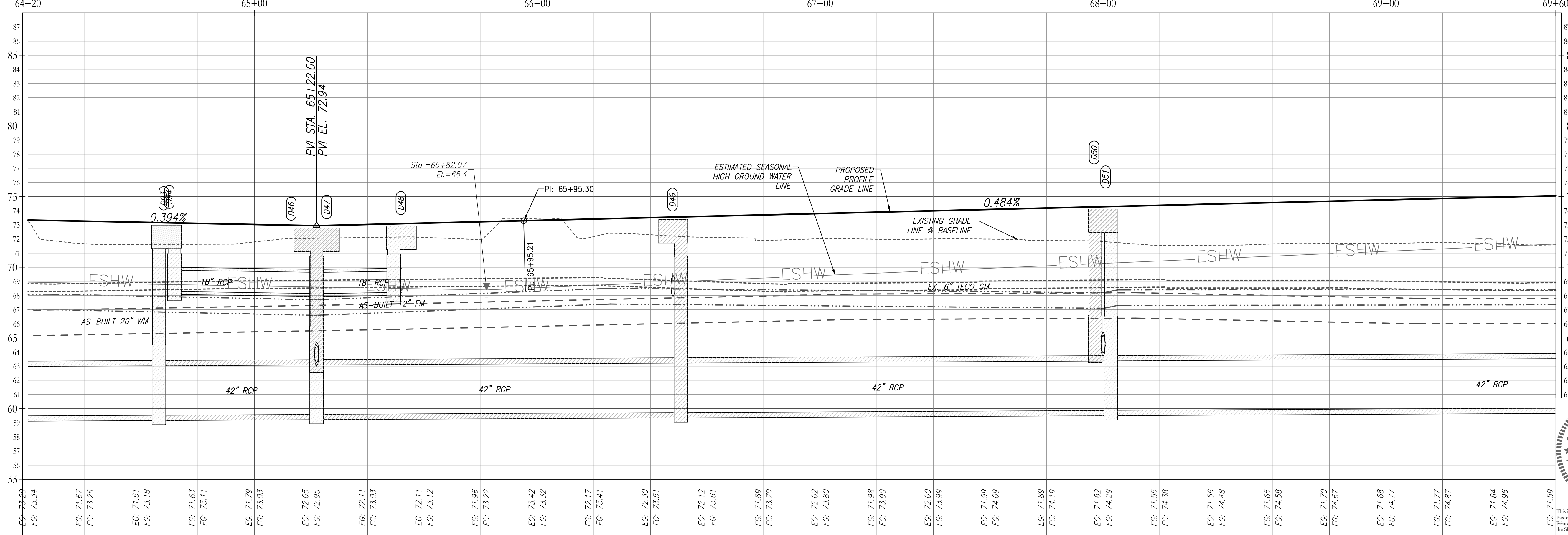
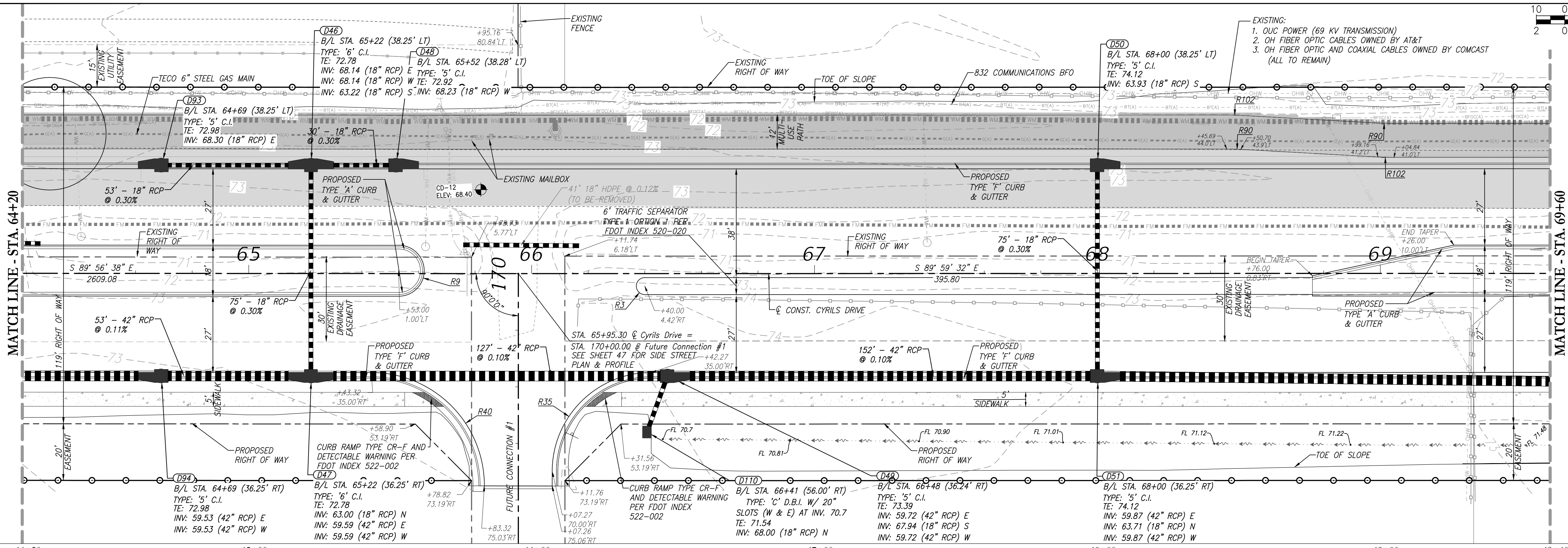
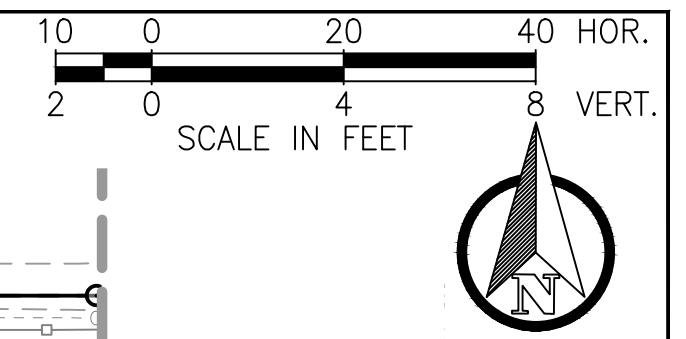
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CHRISTINA M. BAXTER
LICENSE No. 67547
STATE OF FLORIDA
PROFESSIONAL ENGINEER
September 28, 2023

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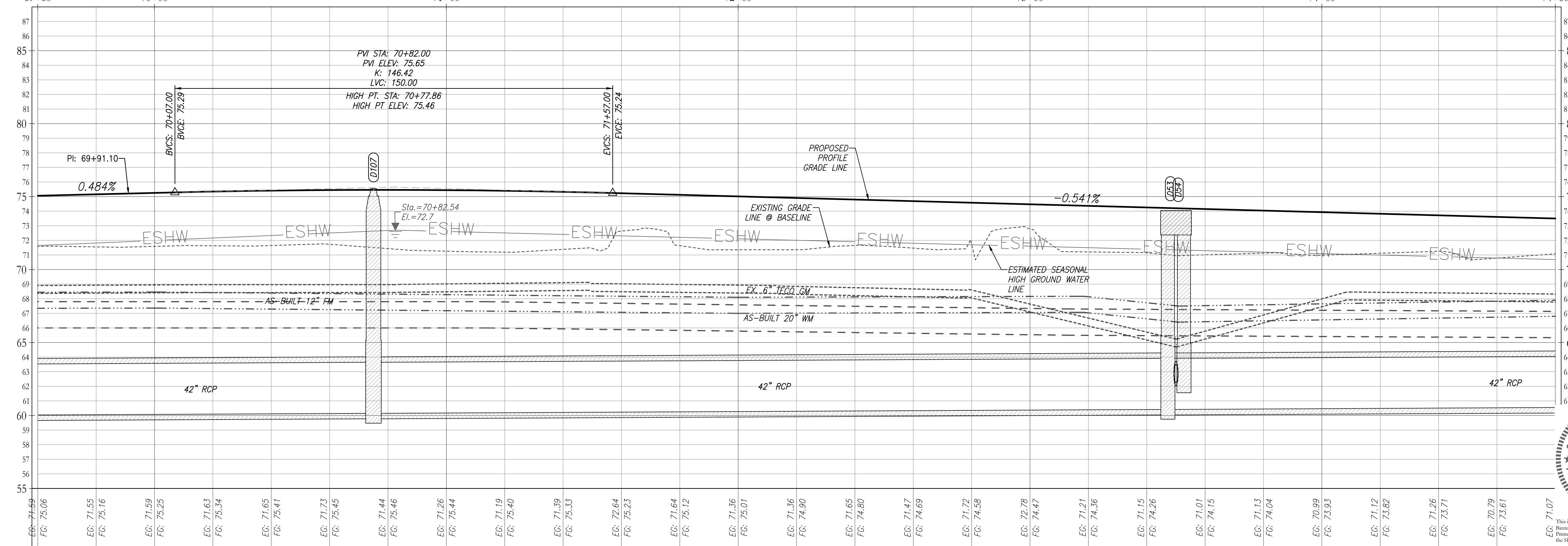
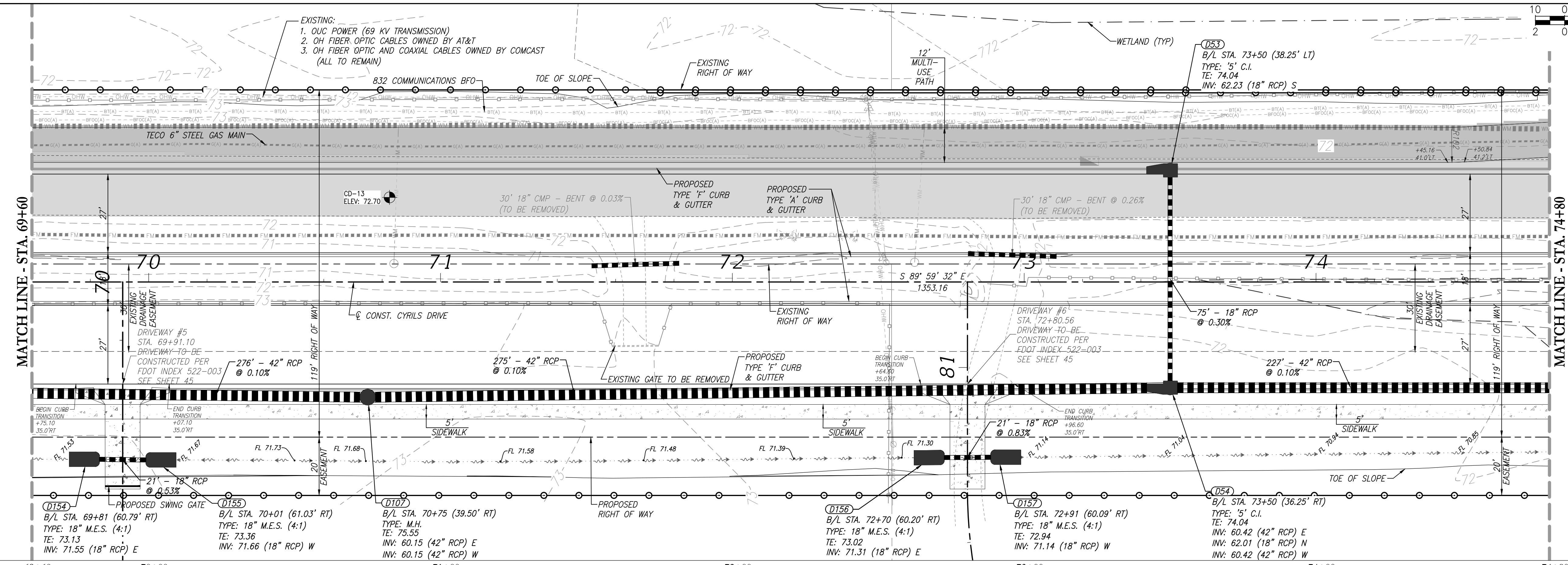
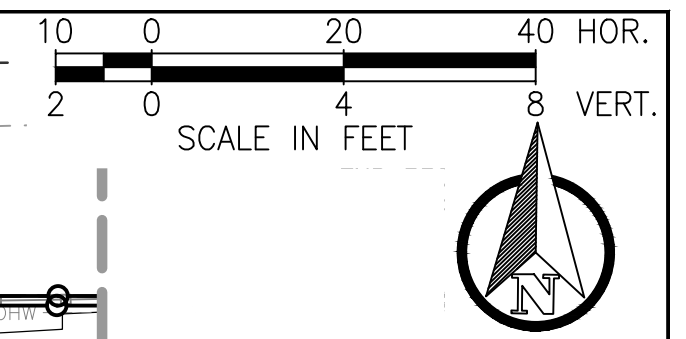
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Osceola County
Community Development

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CHRISTINA M. BAXTER
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PROFESSIONAL ENGINEER
September 28, 2023

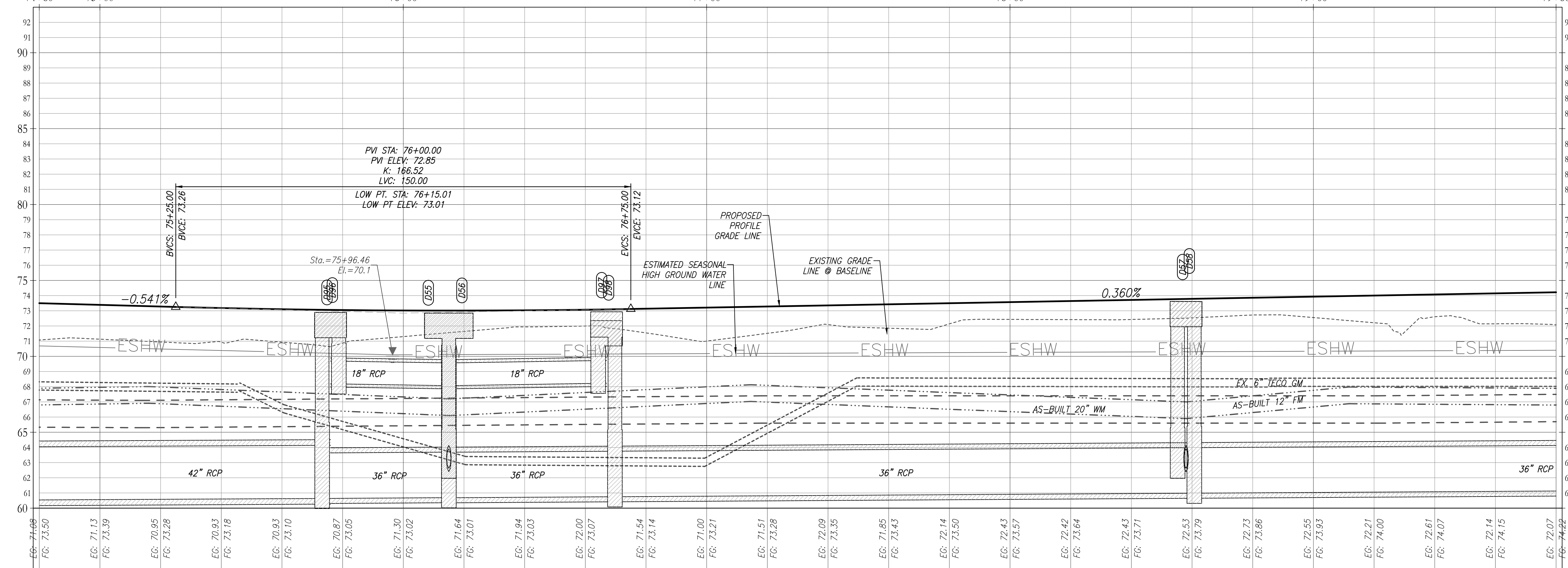
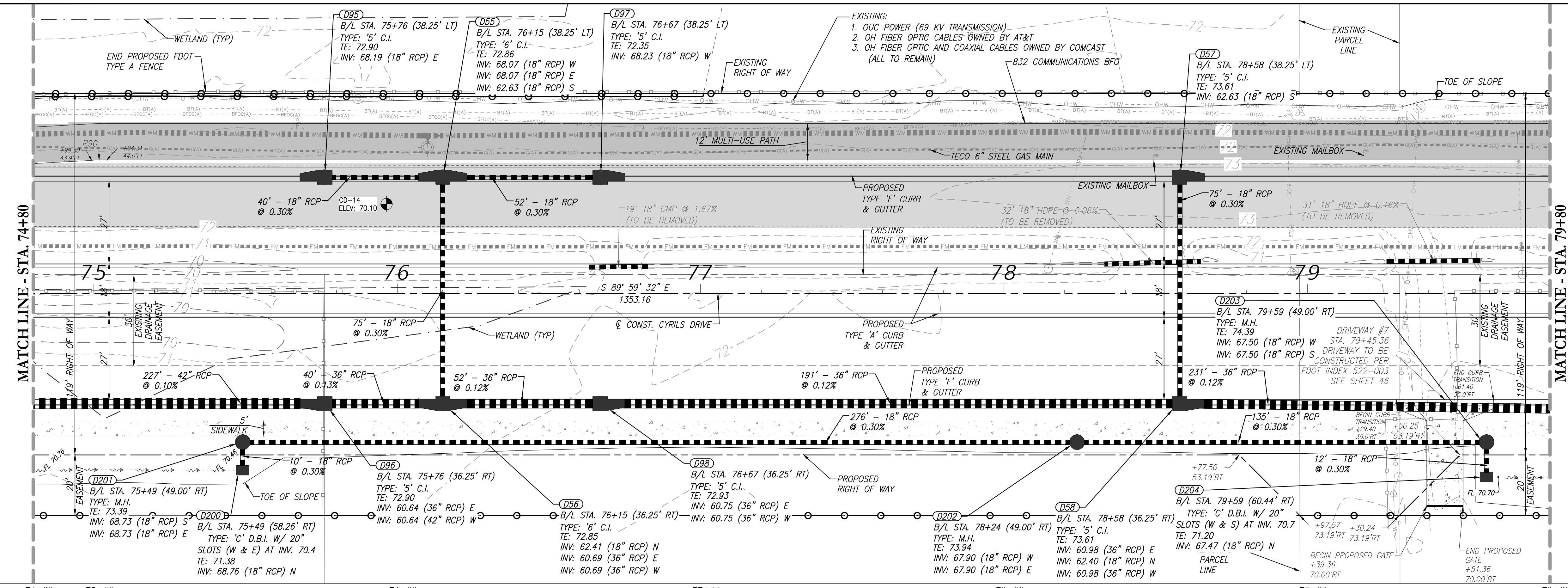
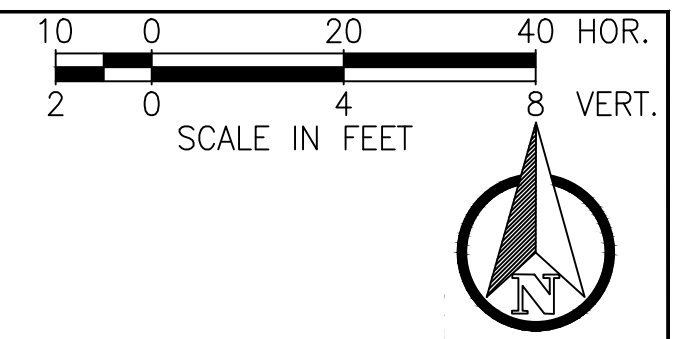
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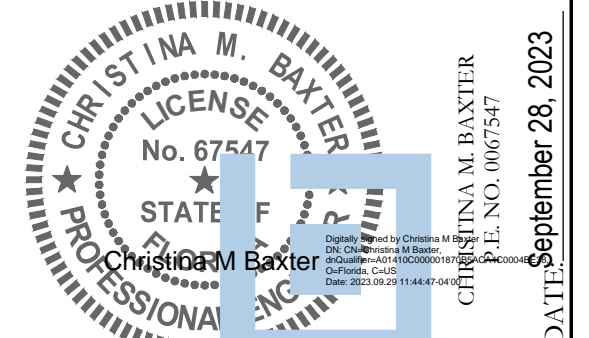
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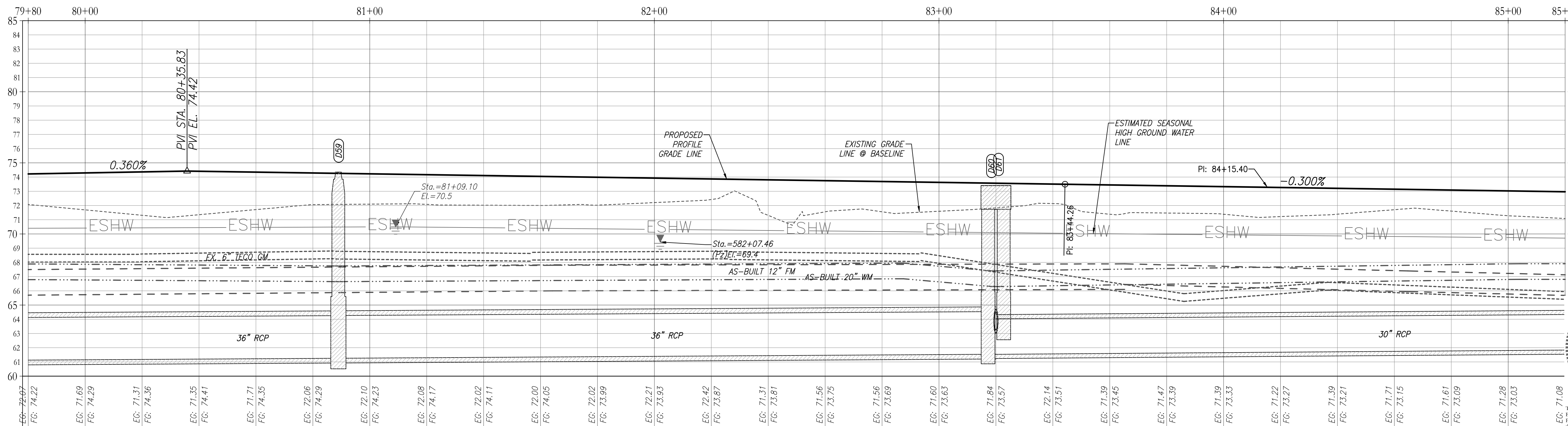
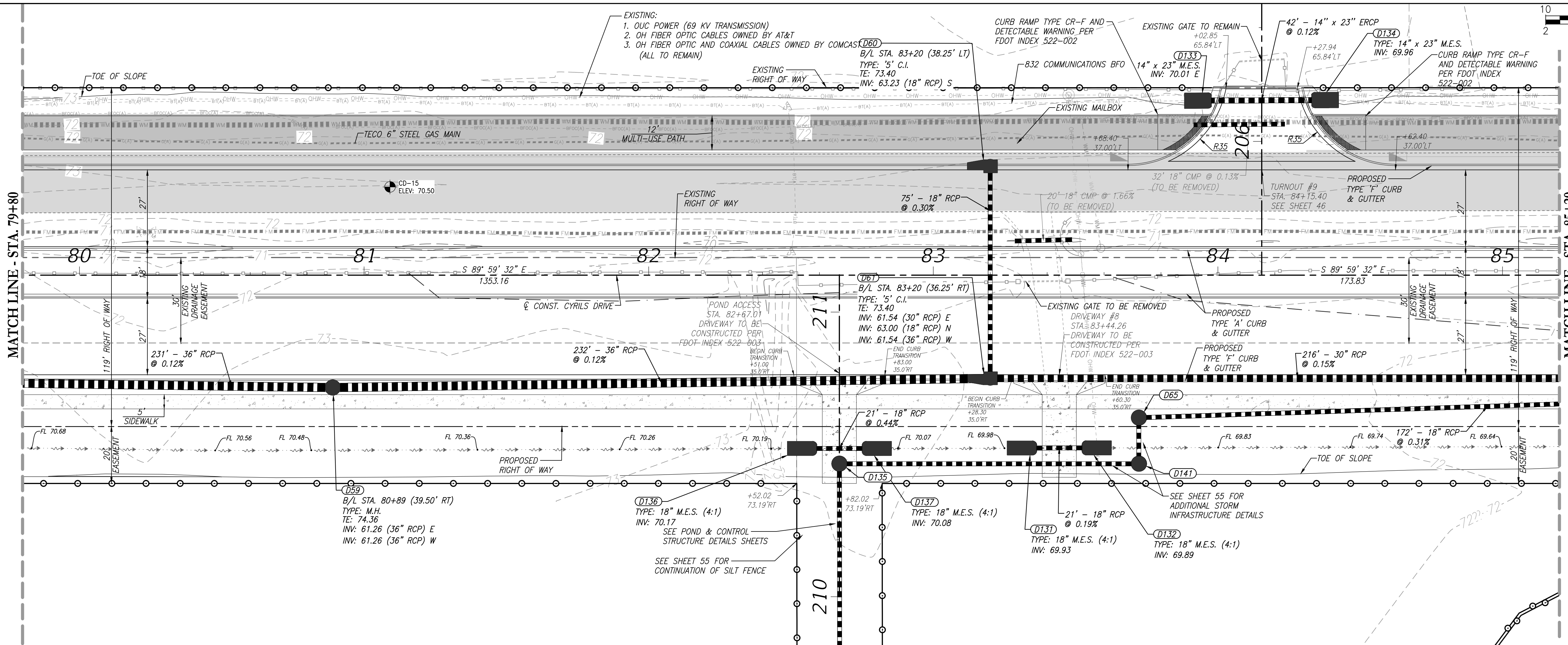
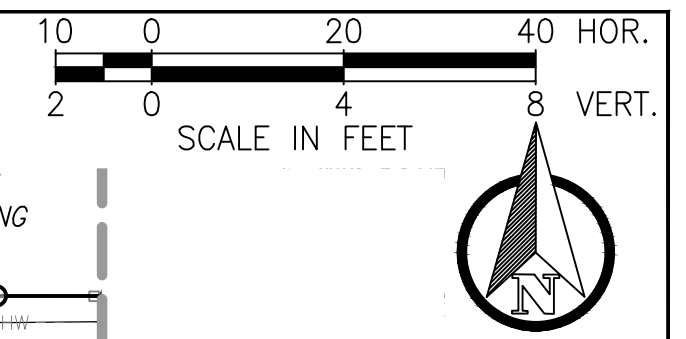


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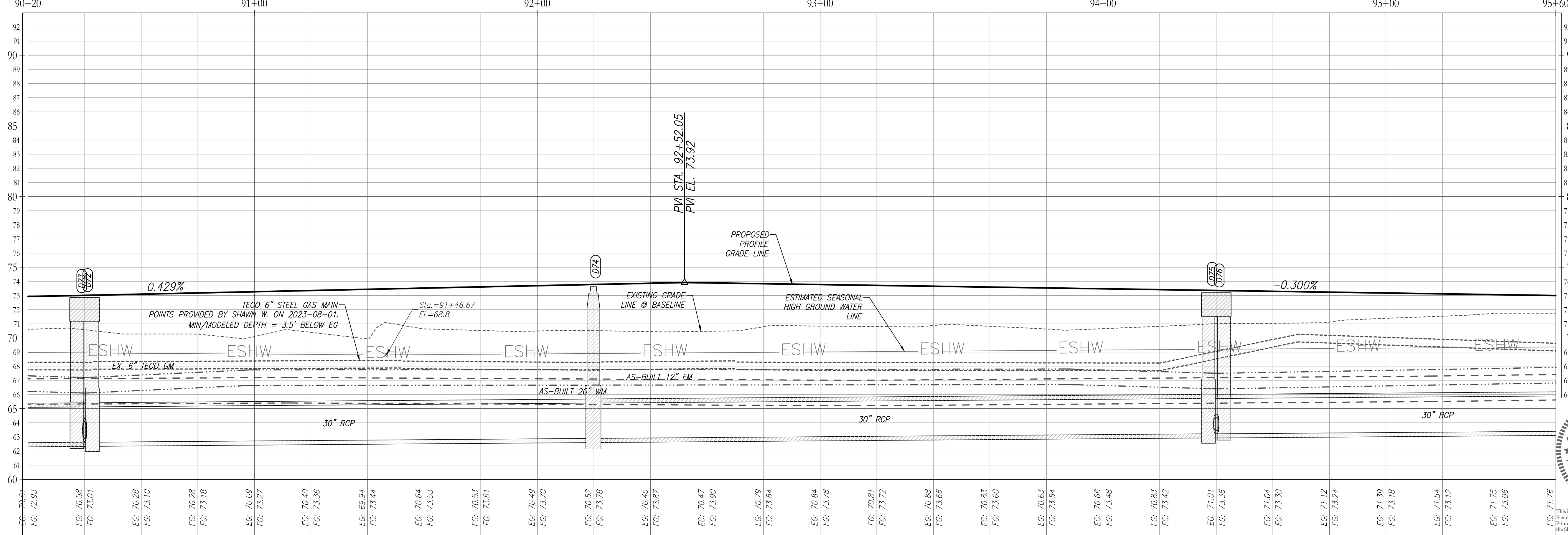
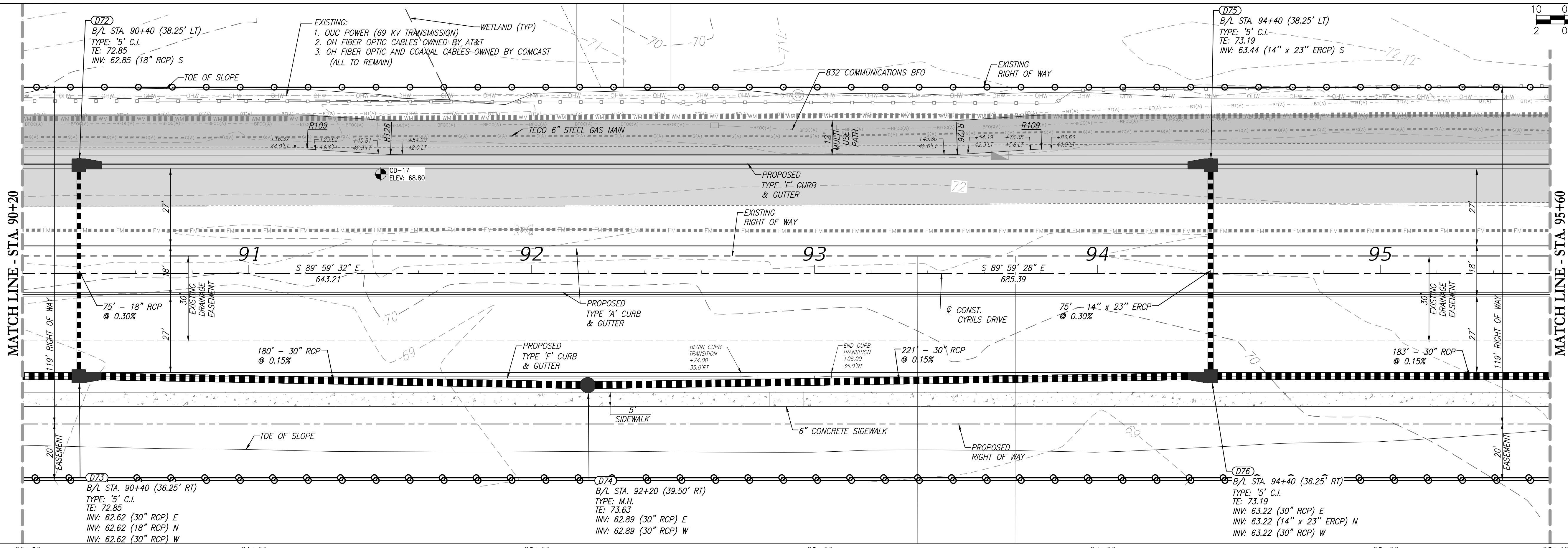
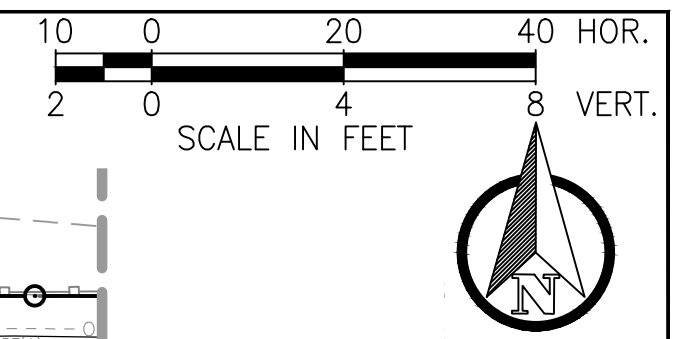
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CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
PLAN & PROFILE

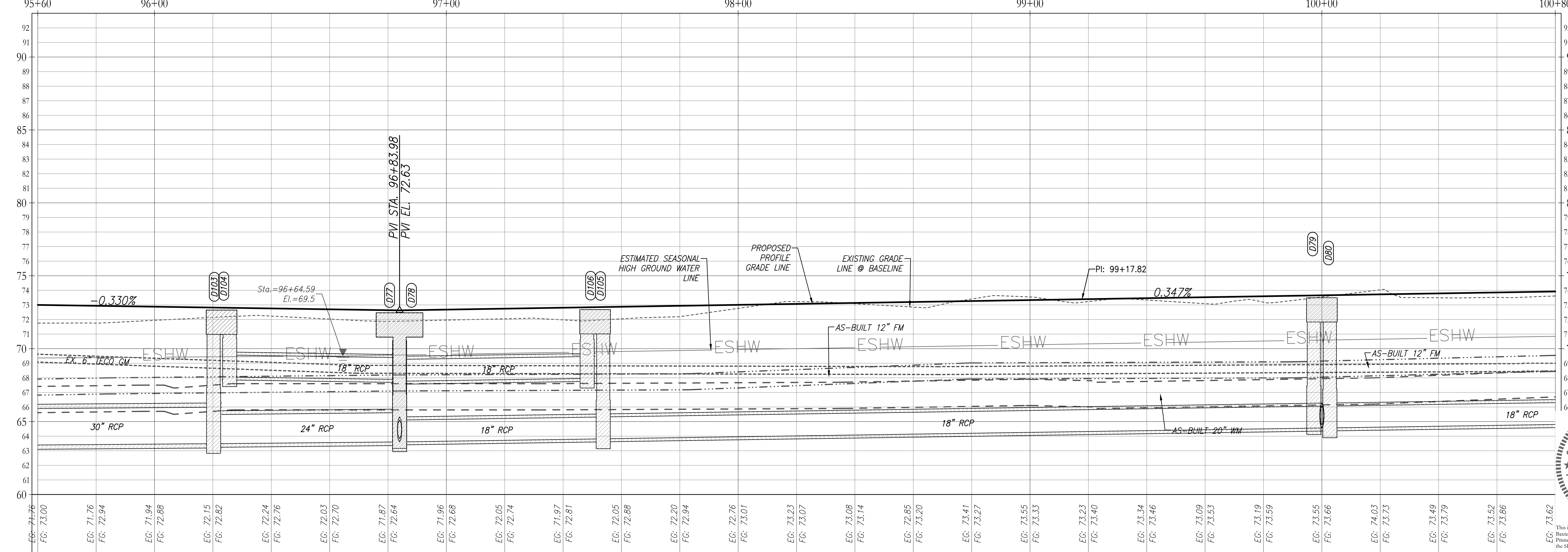
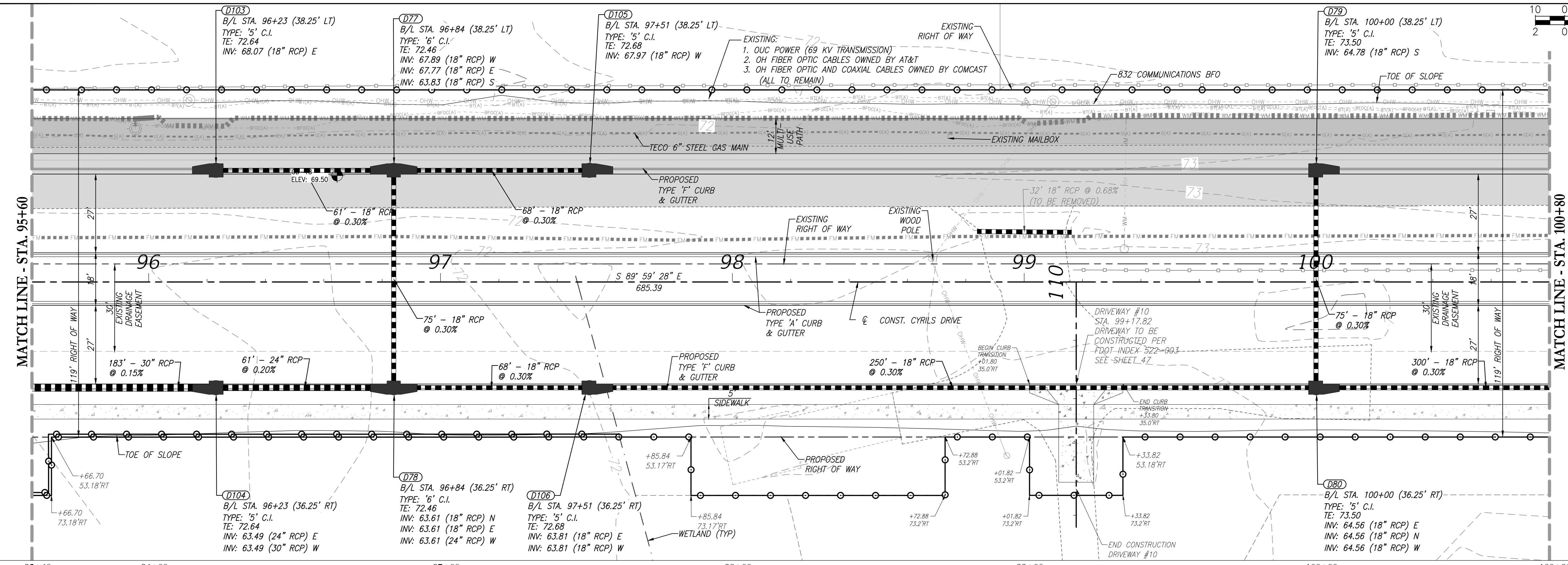
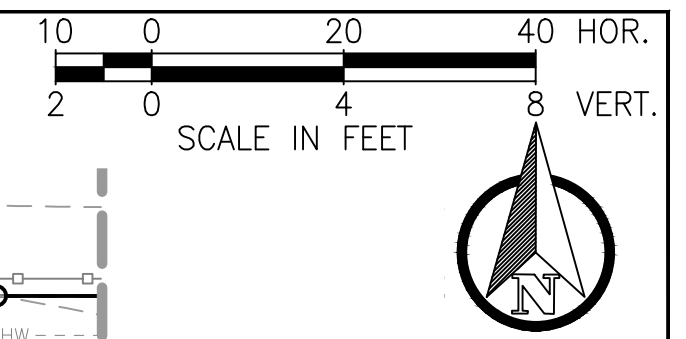
SHEET NO.
39

Z:\2017\17-042 TAMISOCK - SUNBRIE/CYRILS DR / NARCOOSSEE TO ABSHER/CAD/FINAL/COUNTY\17042-0203-CD&M-PP

Osceola County
Community Development

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NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



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DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT

Poulos & Bennett, LLC
 2602 E. Livingston St., Orlando, FL 32803
 Tel. 407.487.2594 www.poulosandbennett.com
 Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
PLAN & PROFILE

SHEET NO.
40



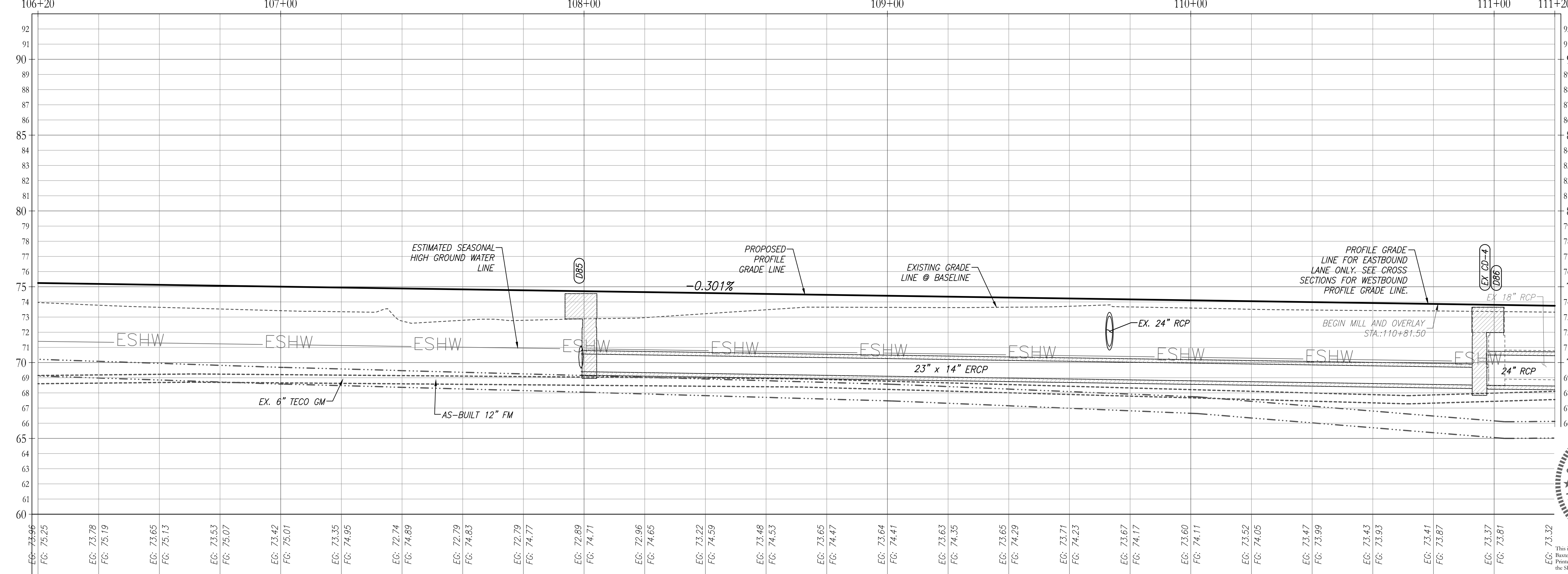
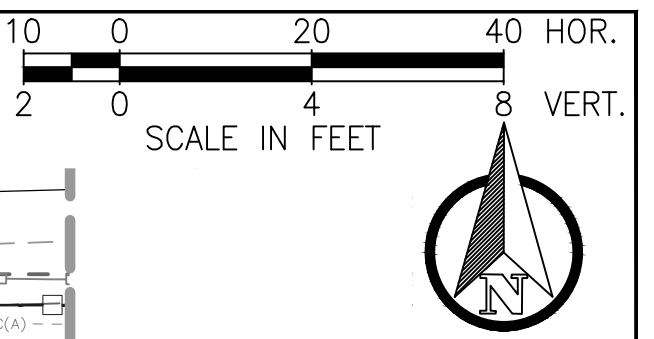
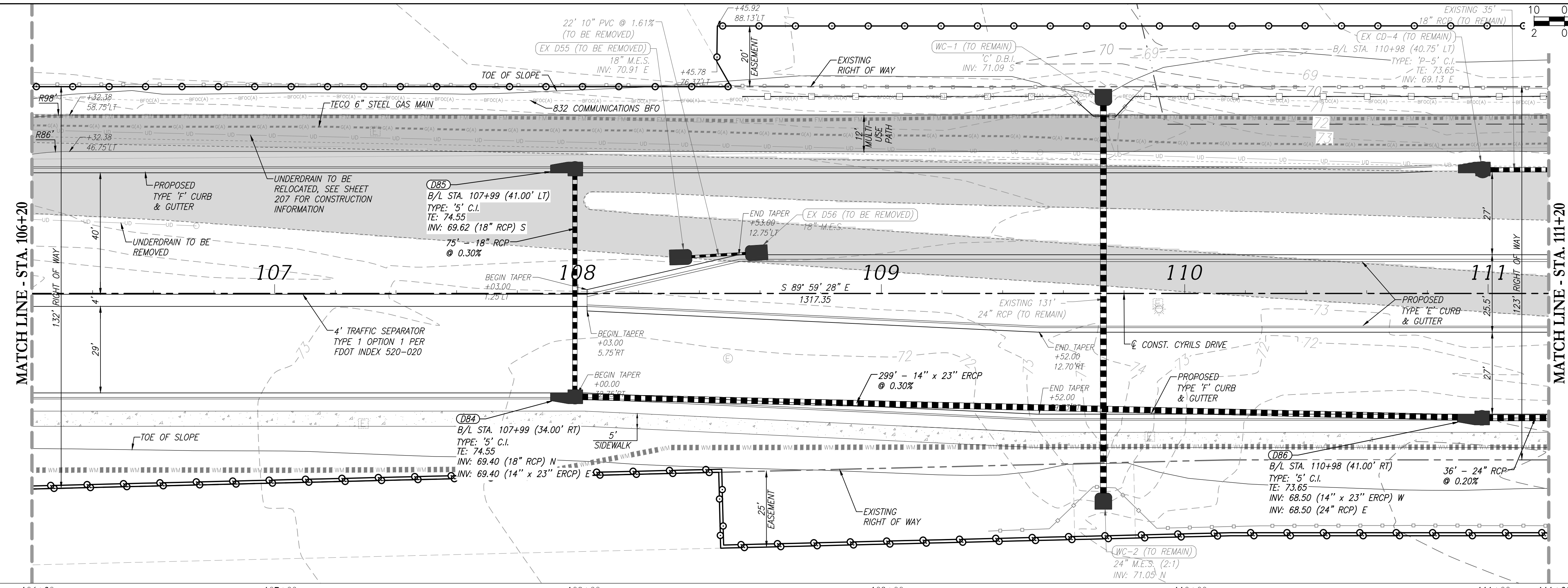
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Osceola County
Community Development

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Z:\2017\17-042 TAMISDCK - SUNBROOK\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-PP

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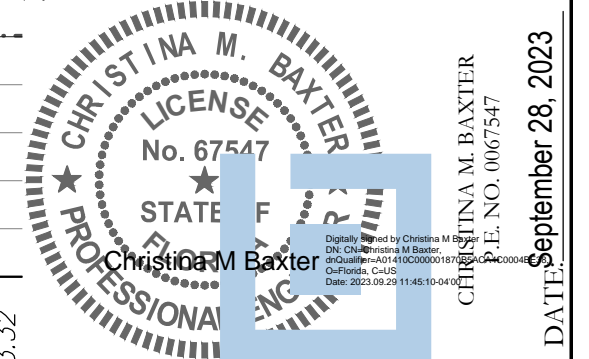
POULOS & BENNETT

Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2394 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
PLAN & PROFILE

SHEET NO.
42

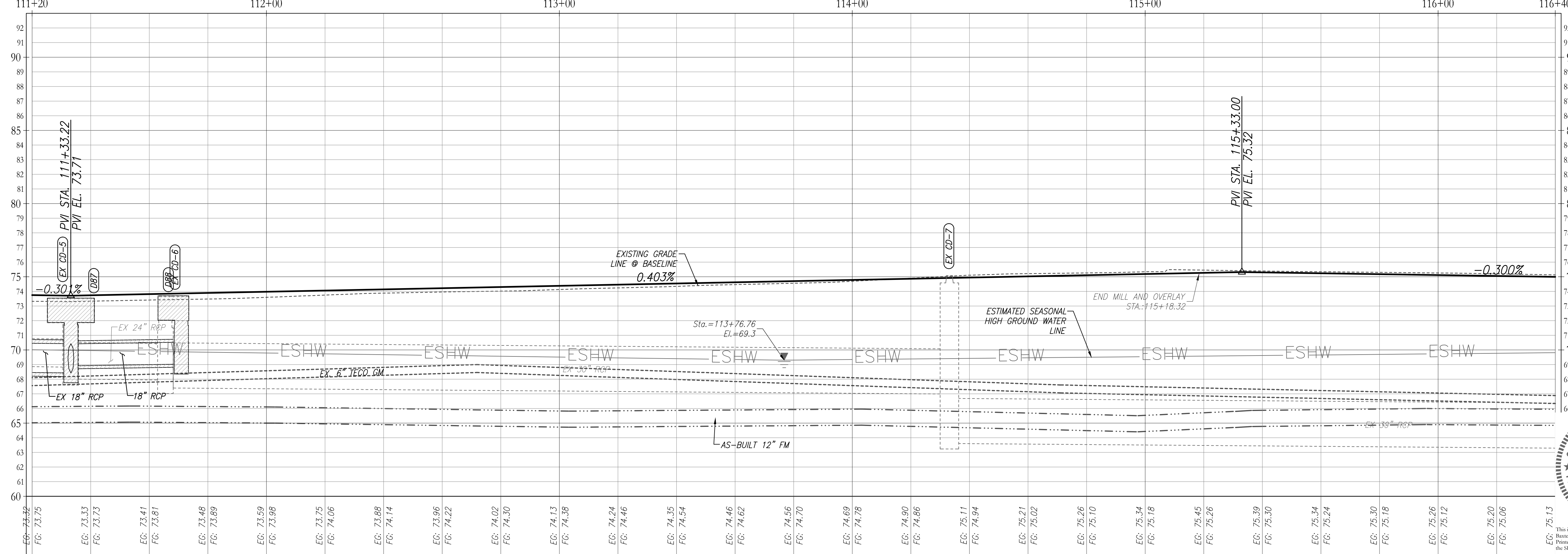
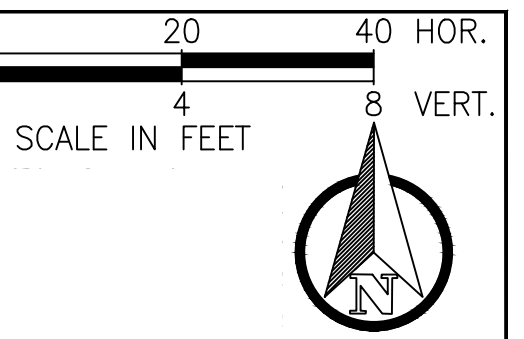
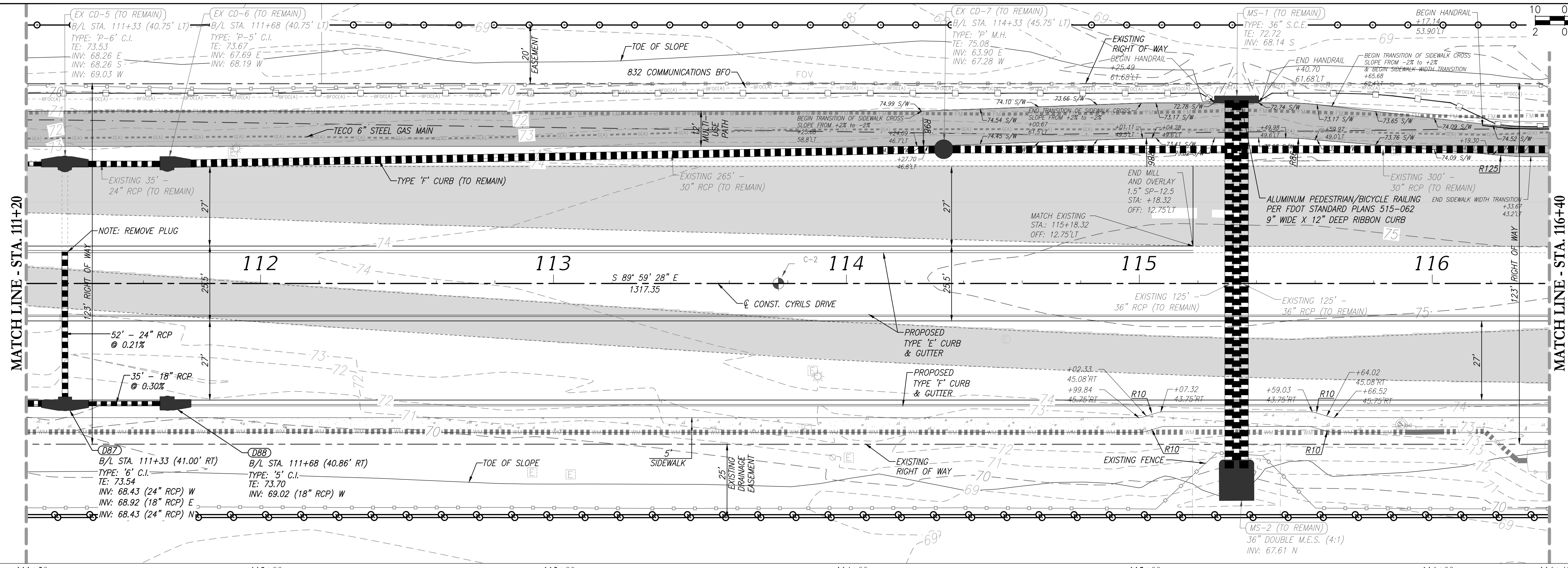


Christina M. Baxter
September 28, 2023

Osceola County
Community Development

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PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
PLAN & PROFILE

SHEET NO.
43

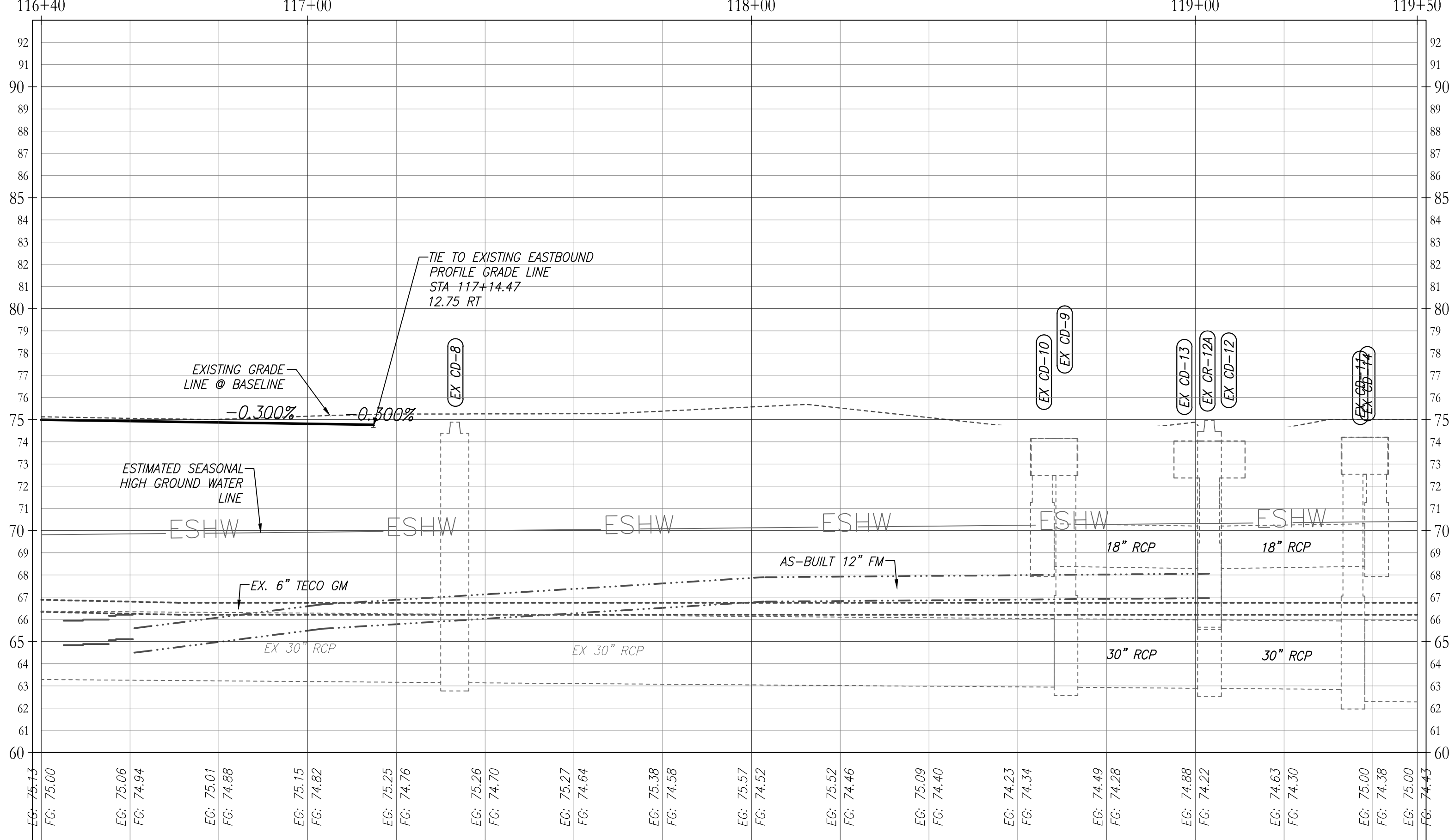
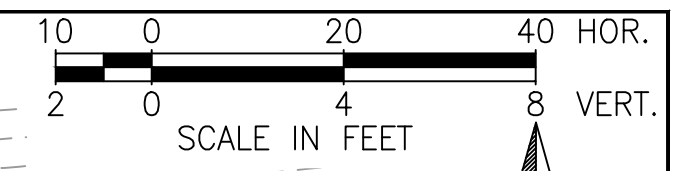
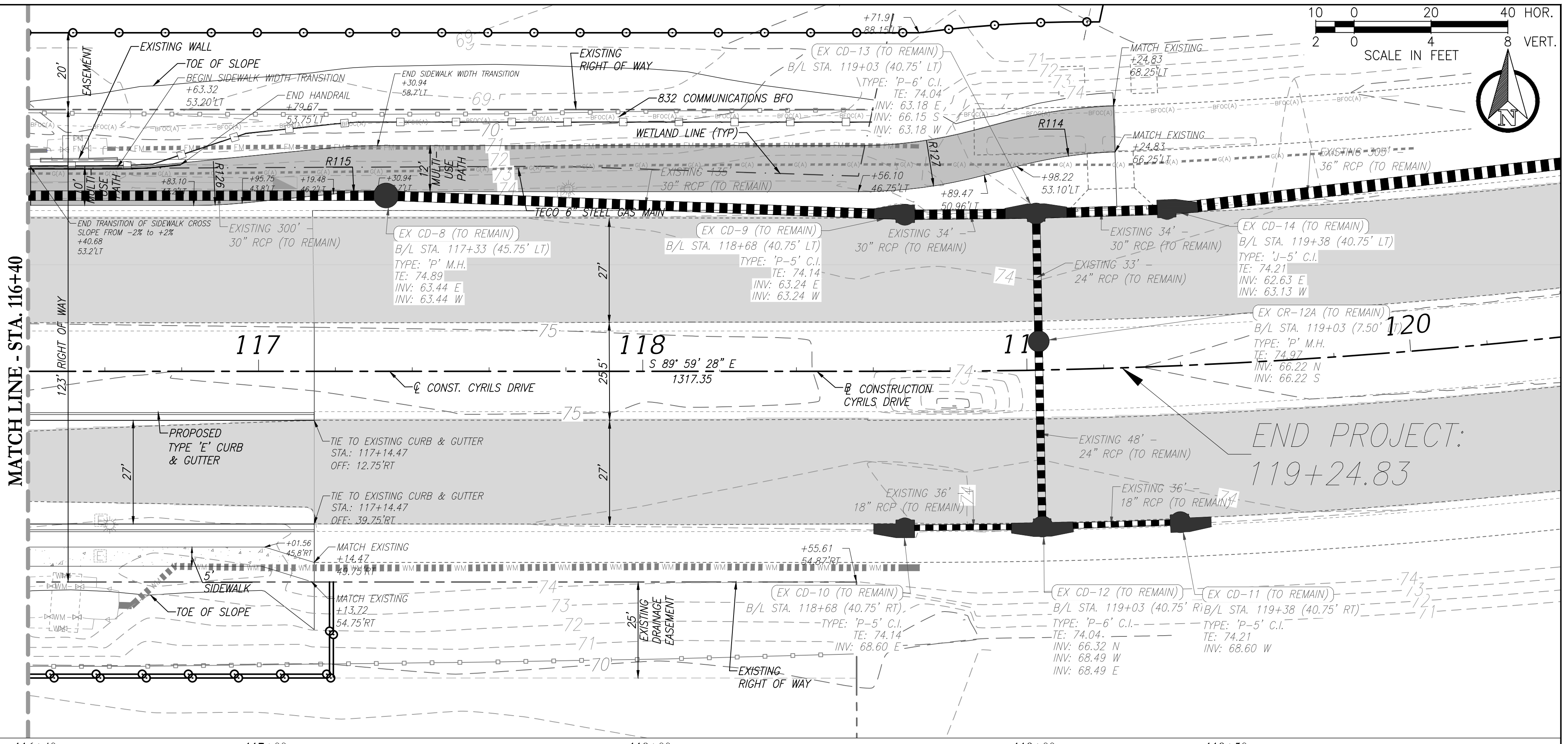
CHRISTINA M. BAXTER
LICENSE No. 67547
STATE OF FLORIDA
PROFESSIONAL ENGINEER
September 28, 2023

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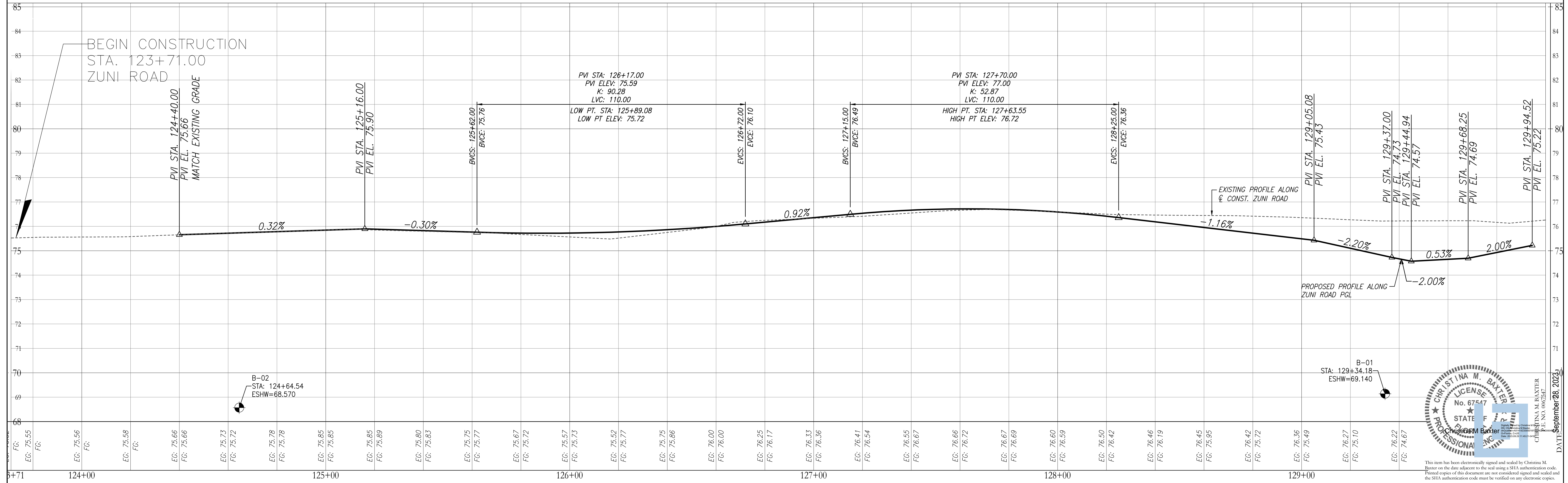
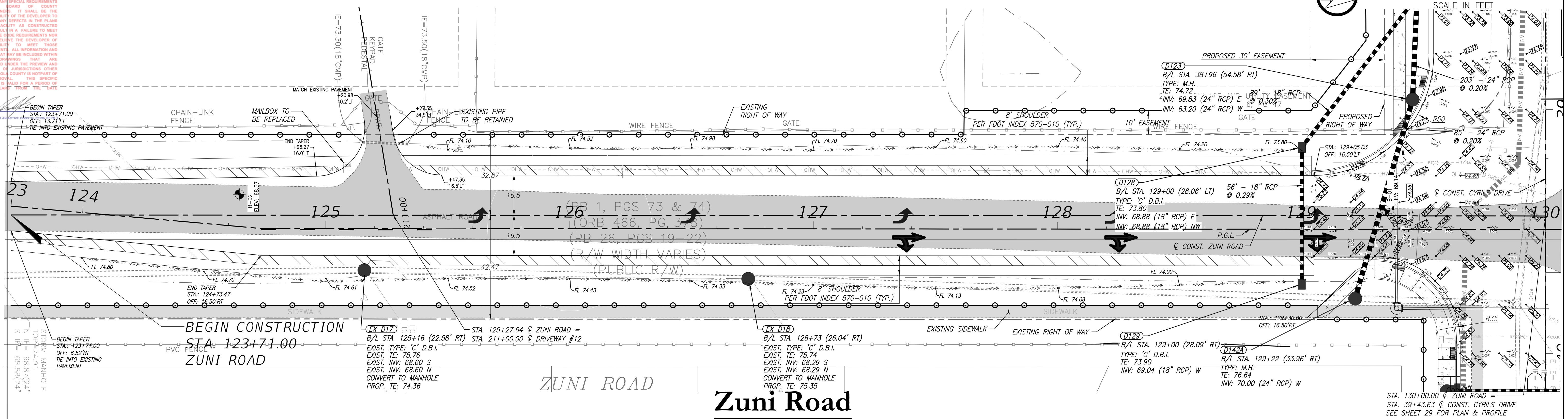
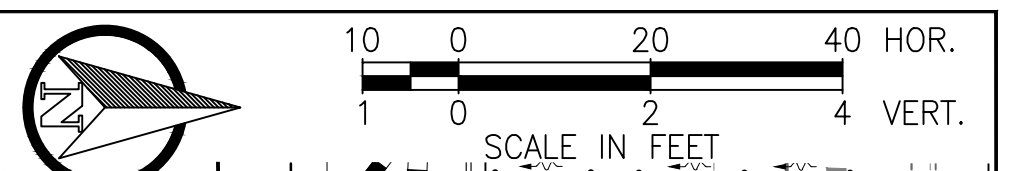
POULOS & BENNETT
Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
PLAN & PROFILE

SHEET NO.
44

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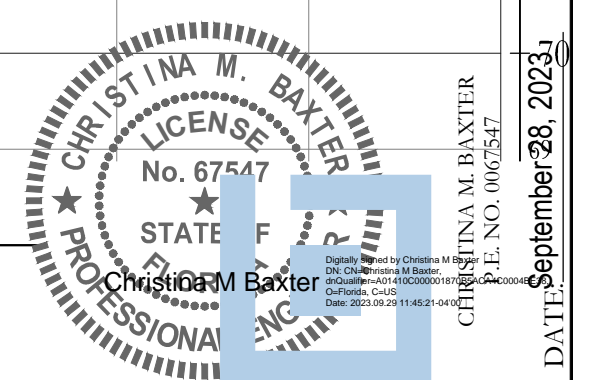
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POULOS & BENNETT
Poulos & Bennett, LLC
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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
SIDE STREET PLAN & PROFILE

SHEET NO.
45



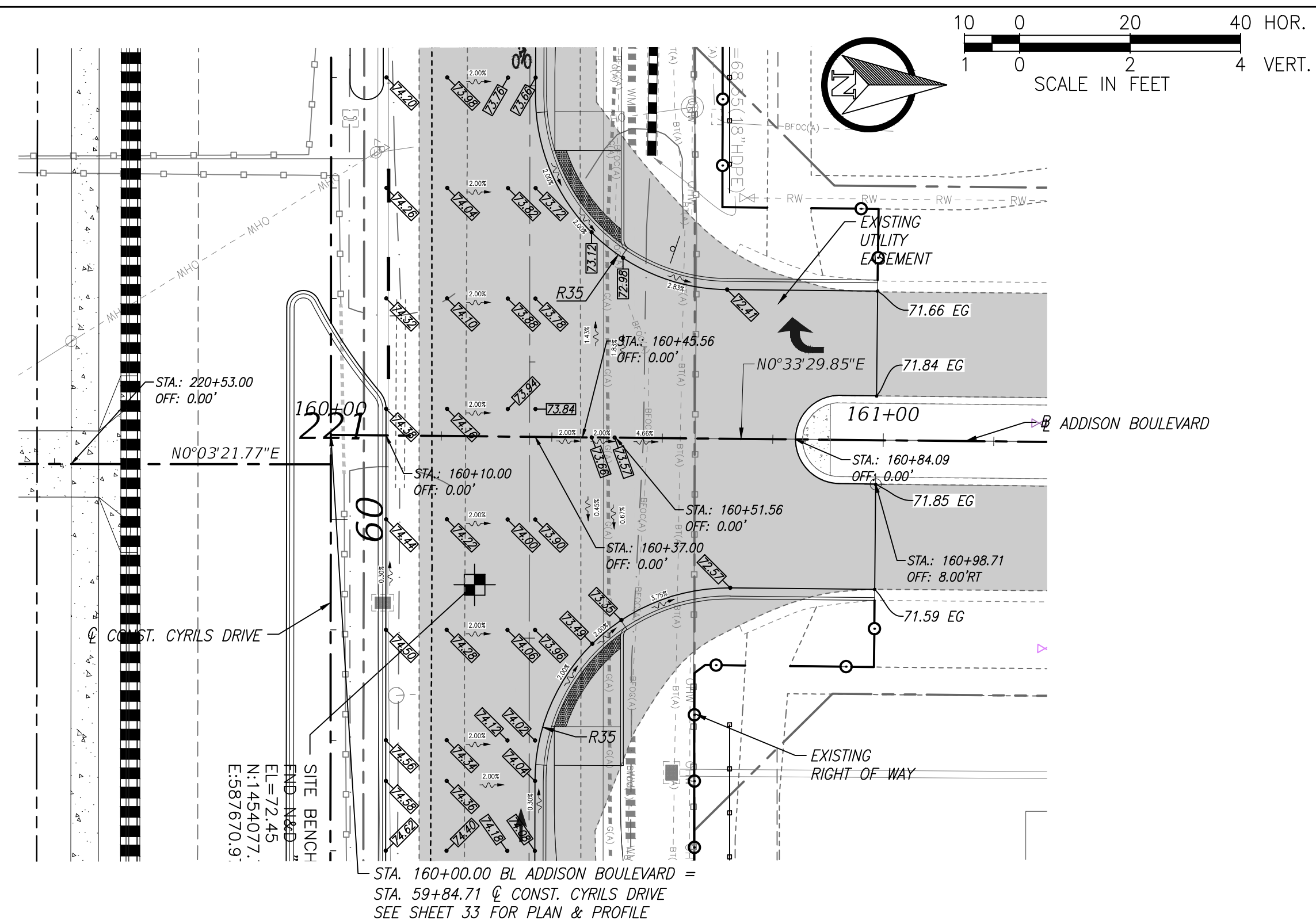
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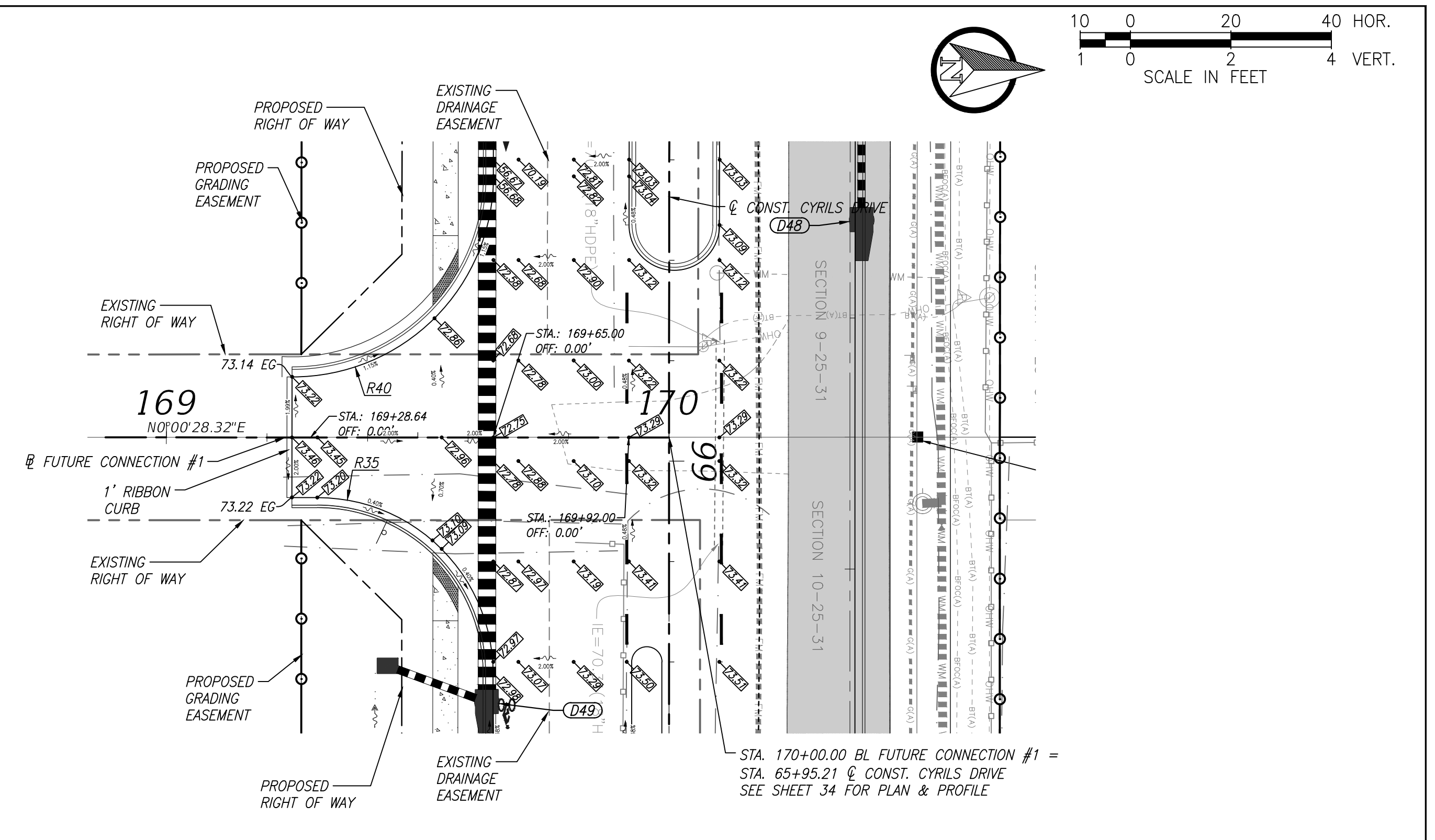
Osceola County
Community Development

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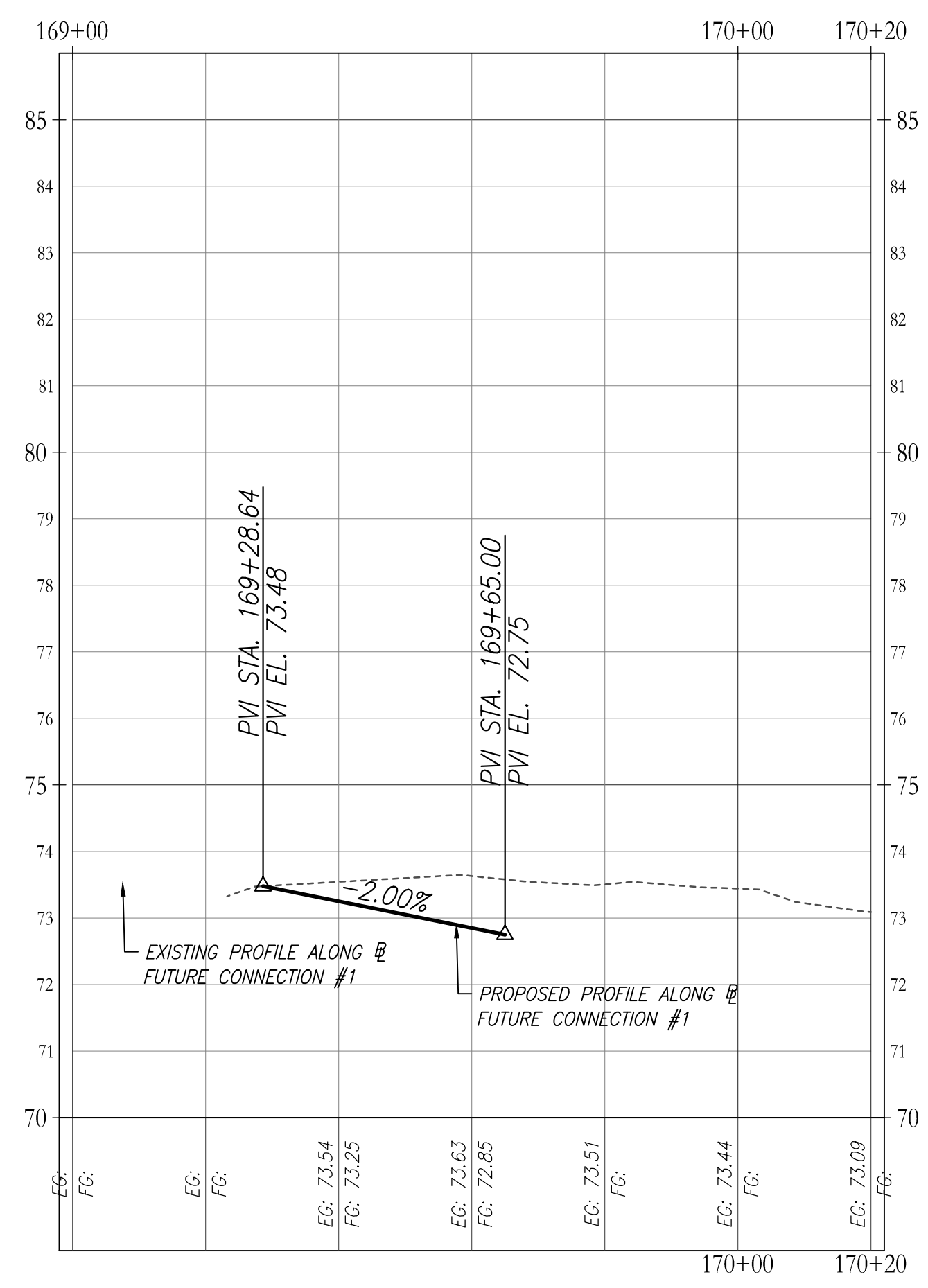
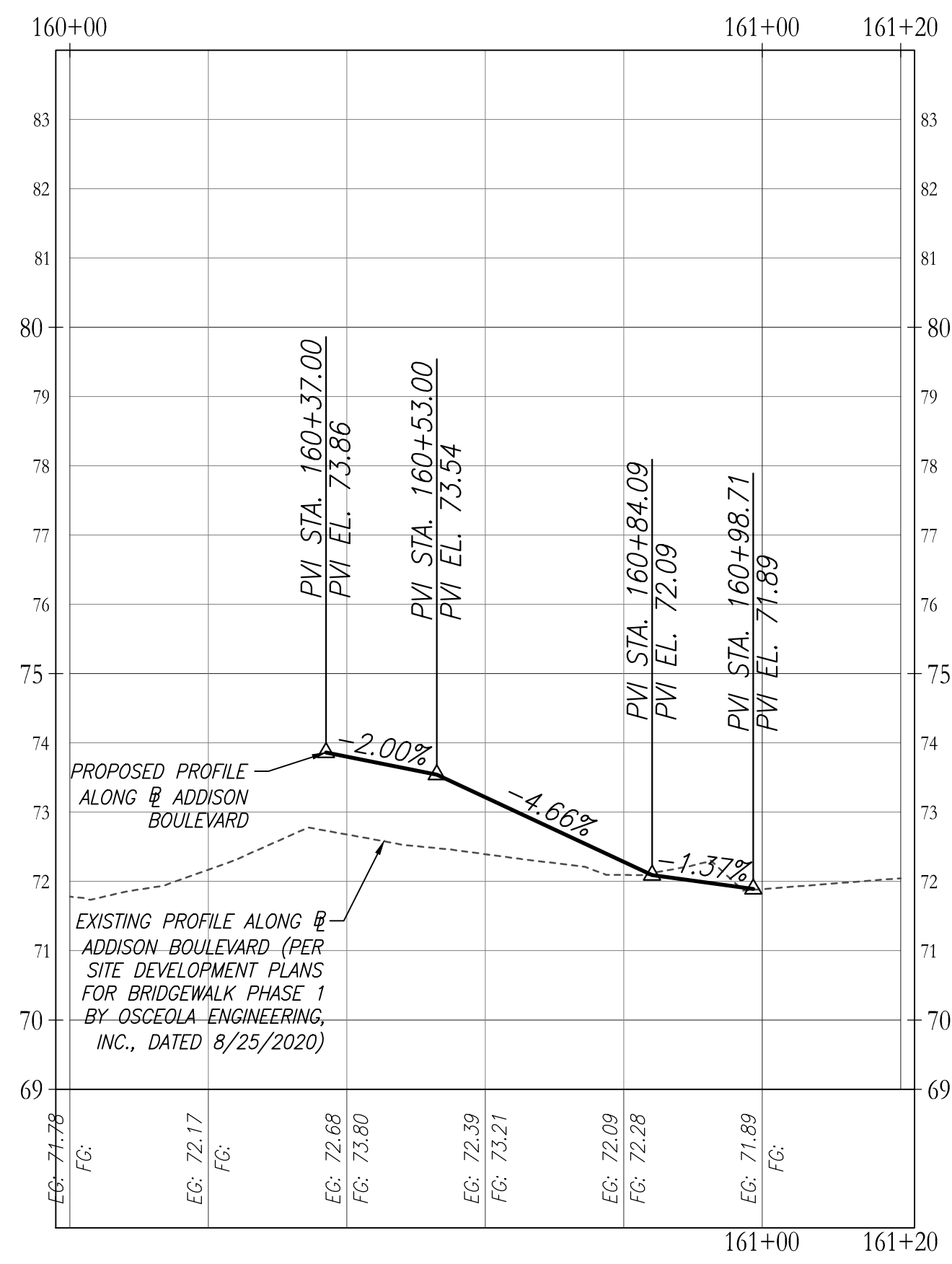
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Addison Boulevard



Future Connection #1



REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

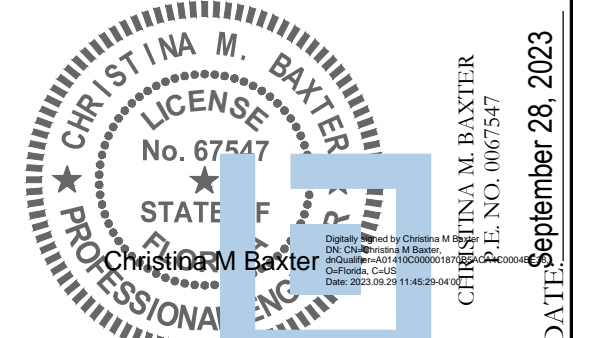
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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
SIDE STREET PLAN & PROFILE

SHEET NO.
47

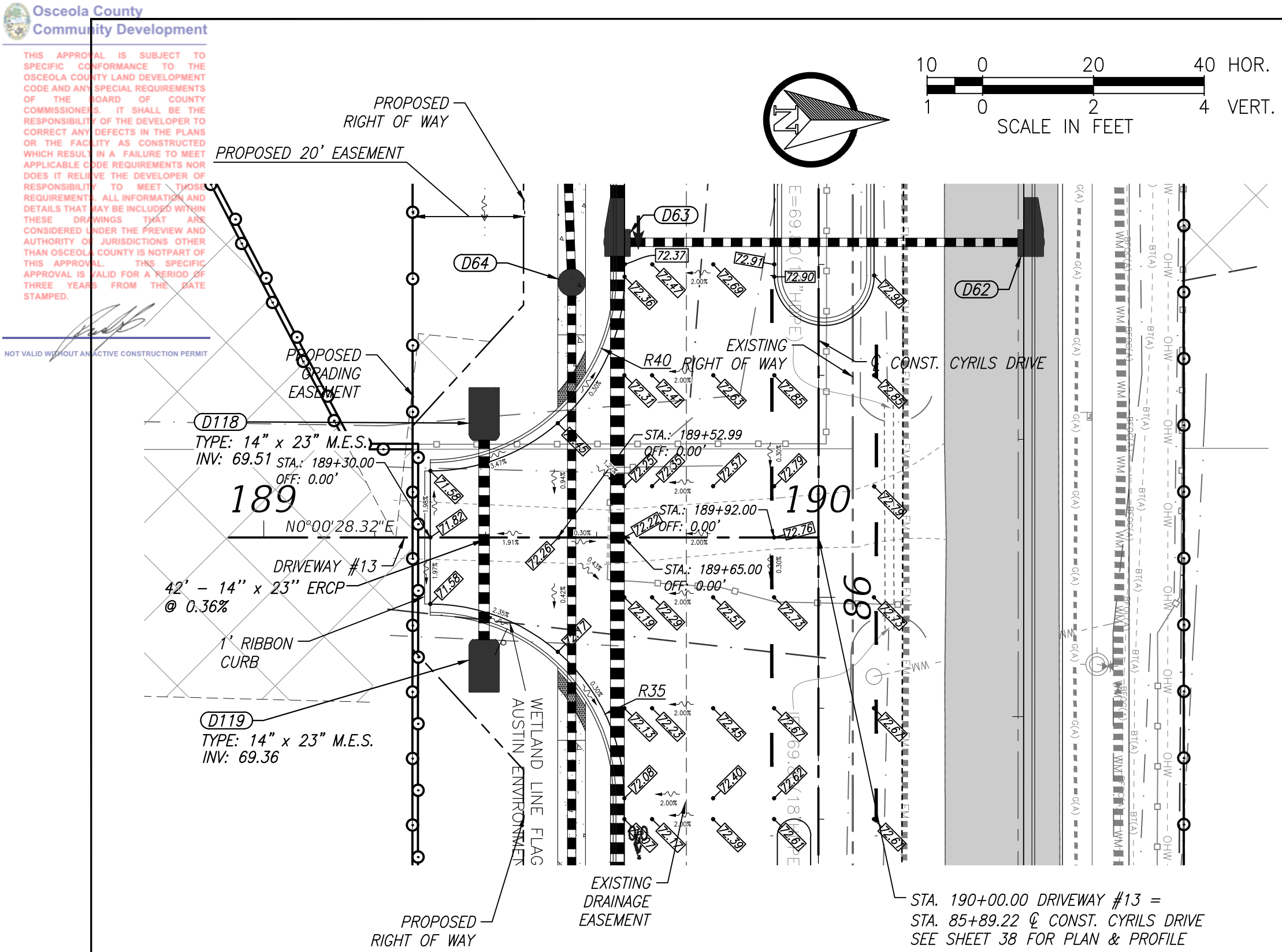


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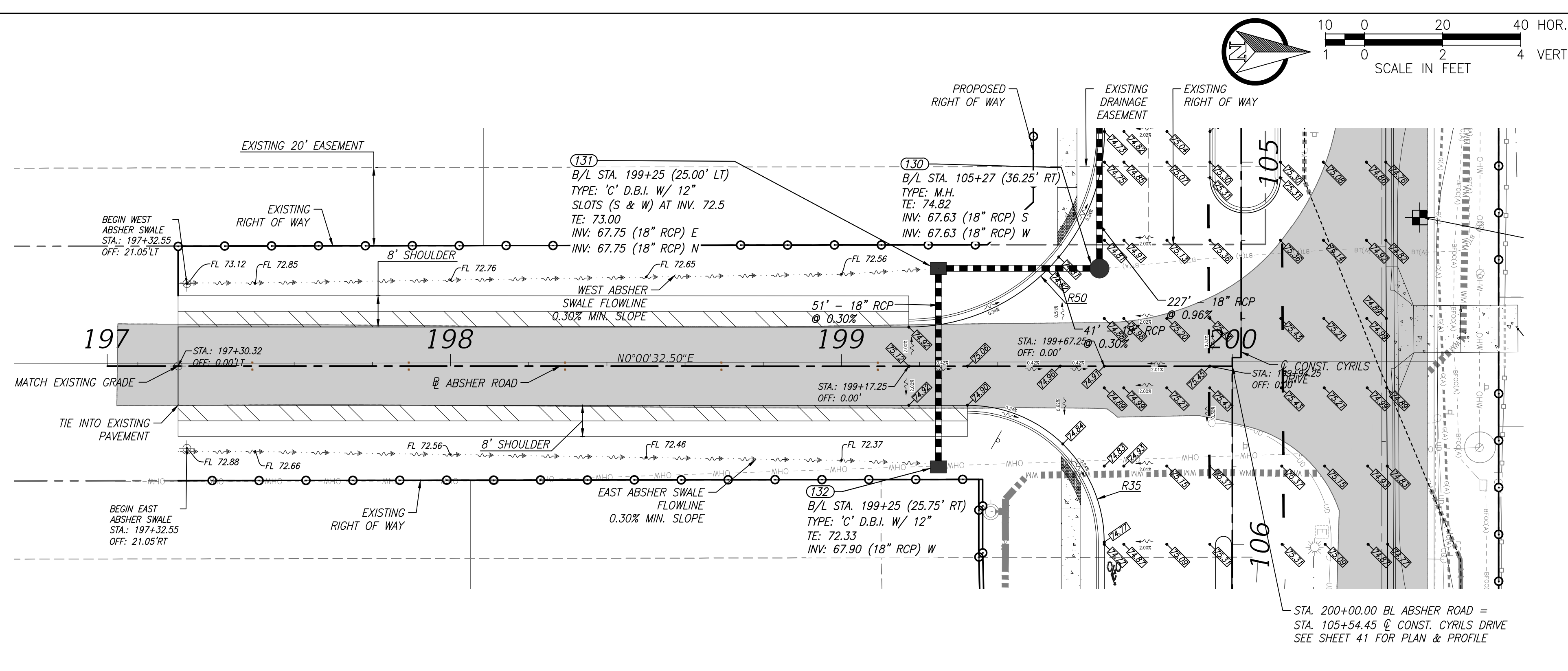
Z:\2017\17-042 TAMISDCK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-00208-CD&M-PP - SIDEStreets

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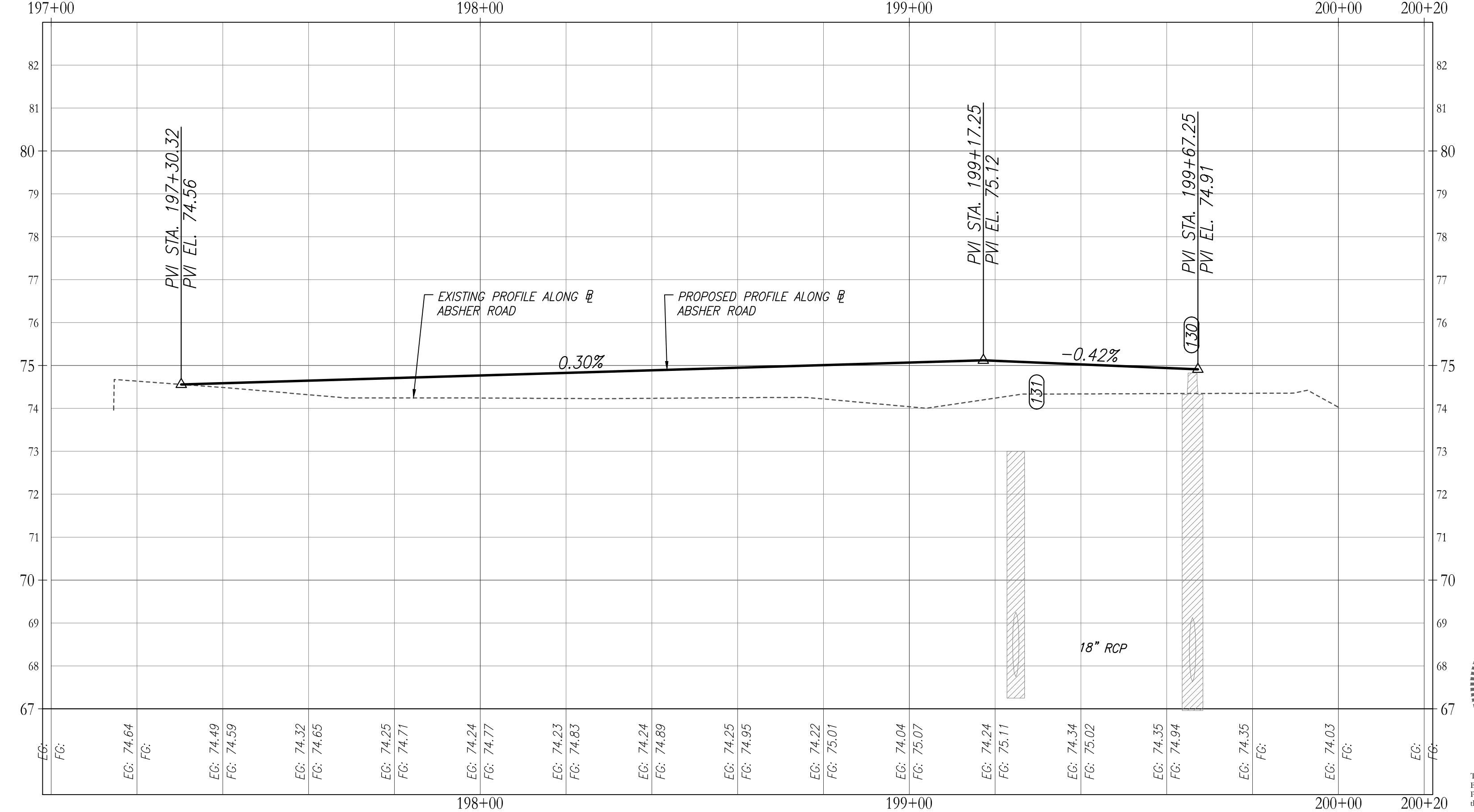
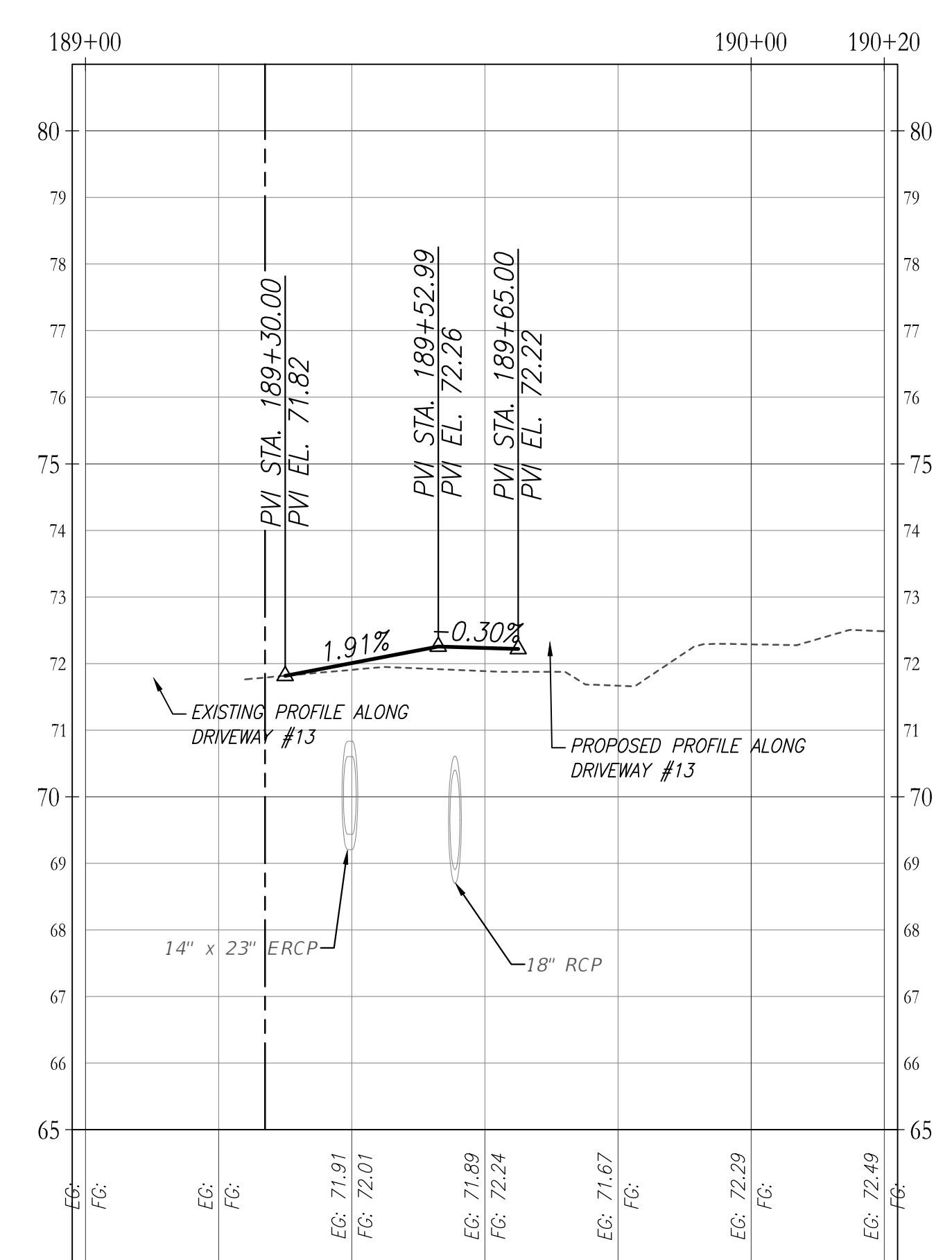
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Driveway #13



Absher Road



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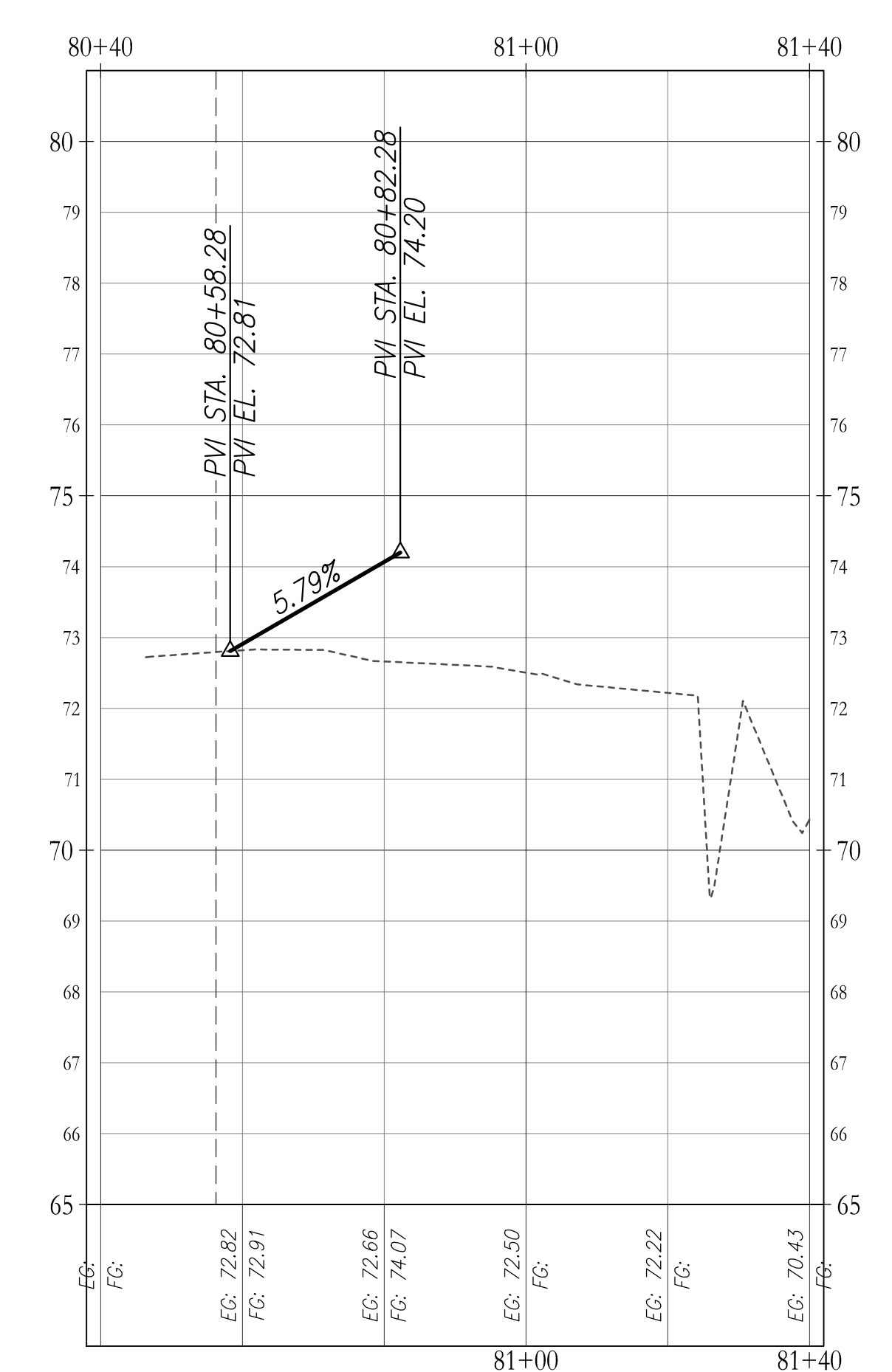
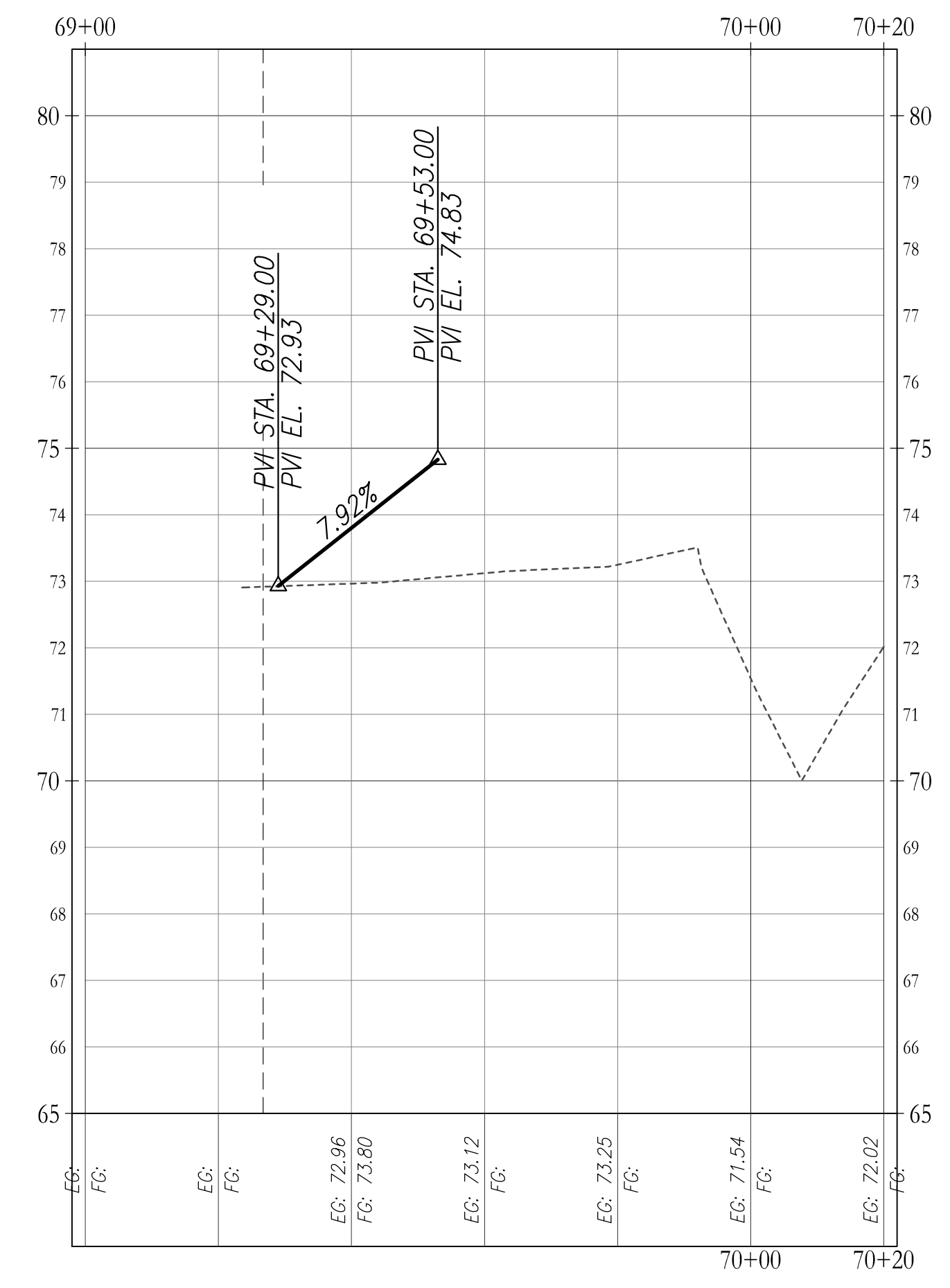
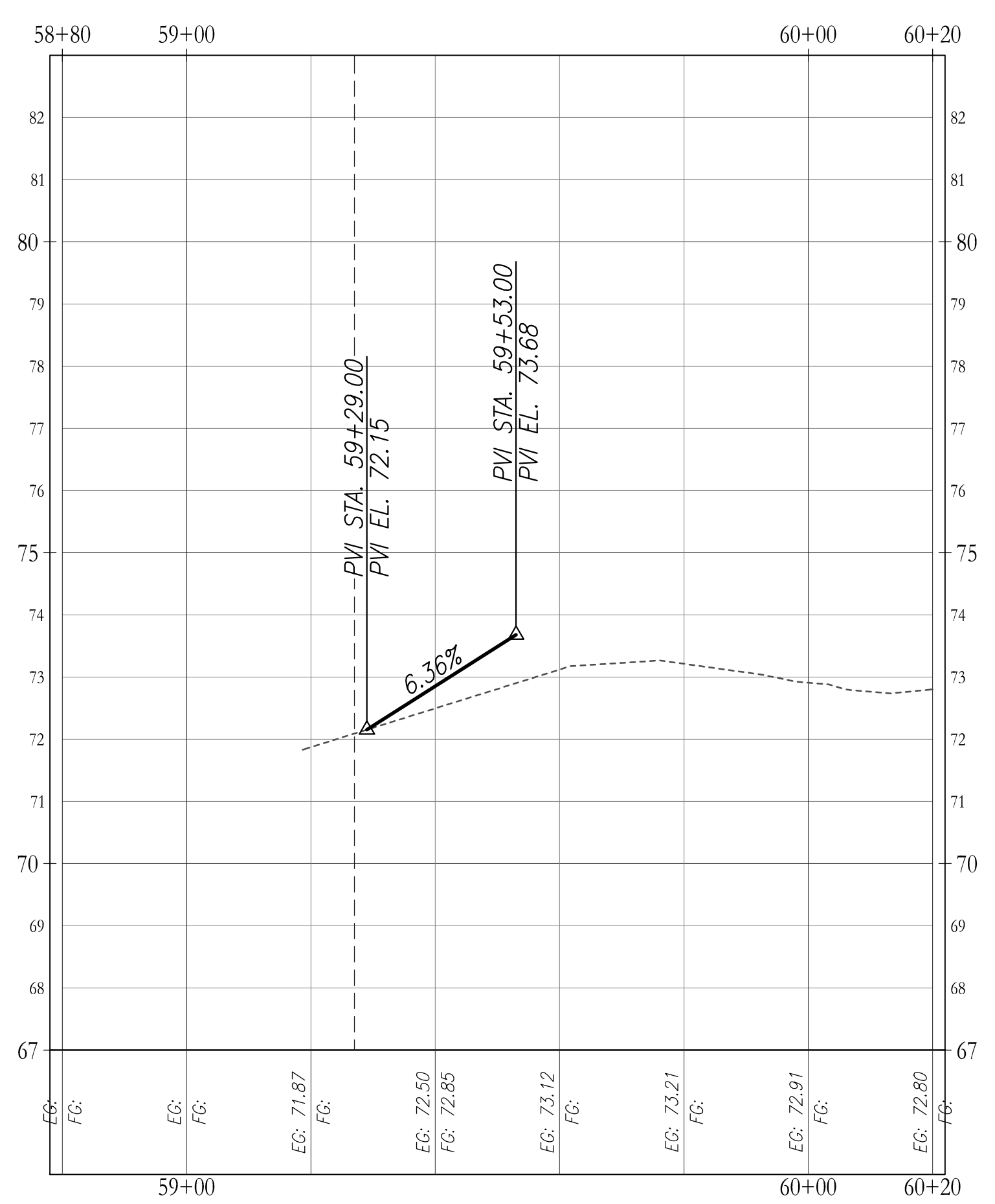
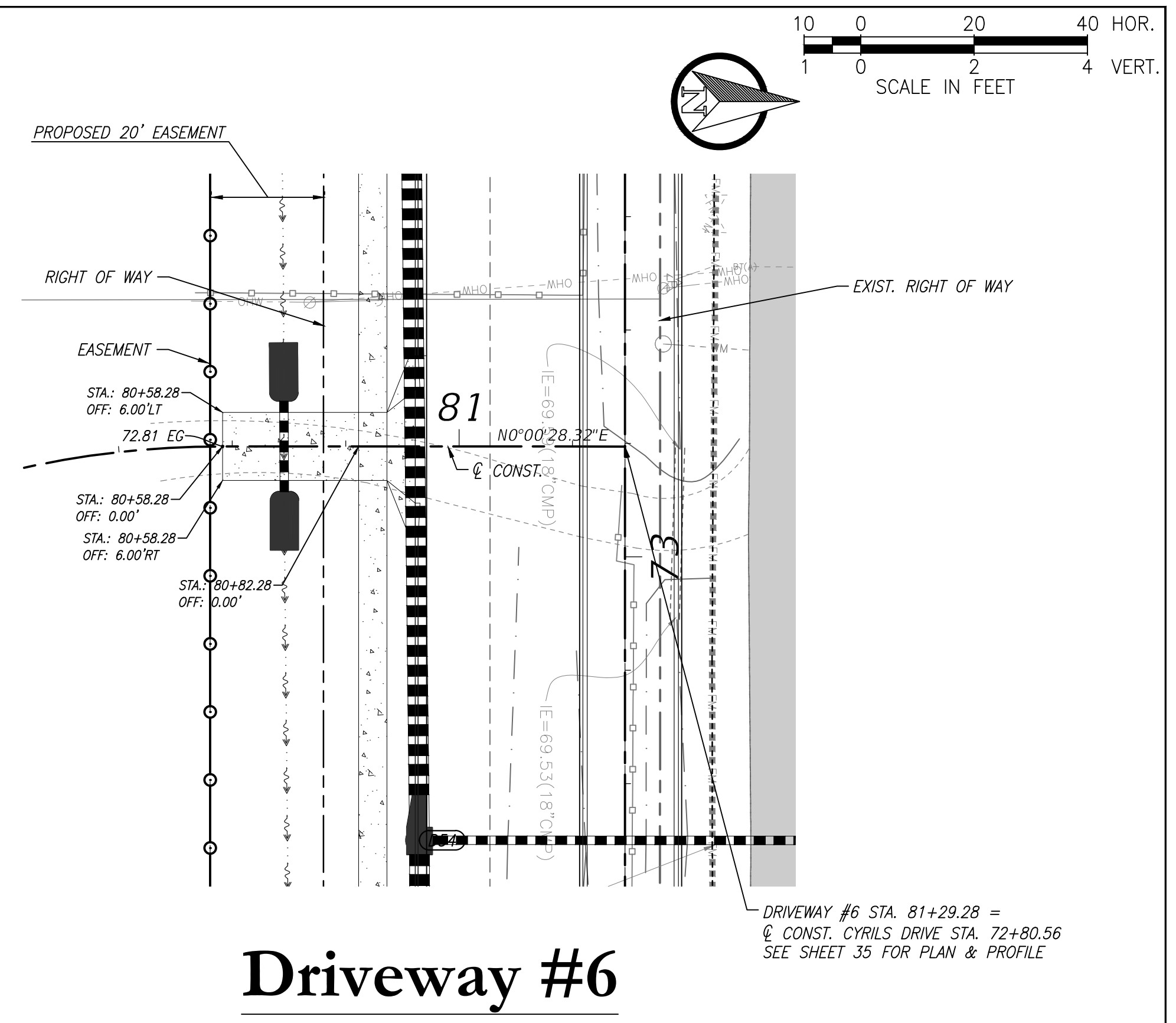
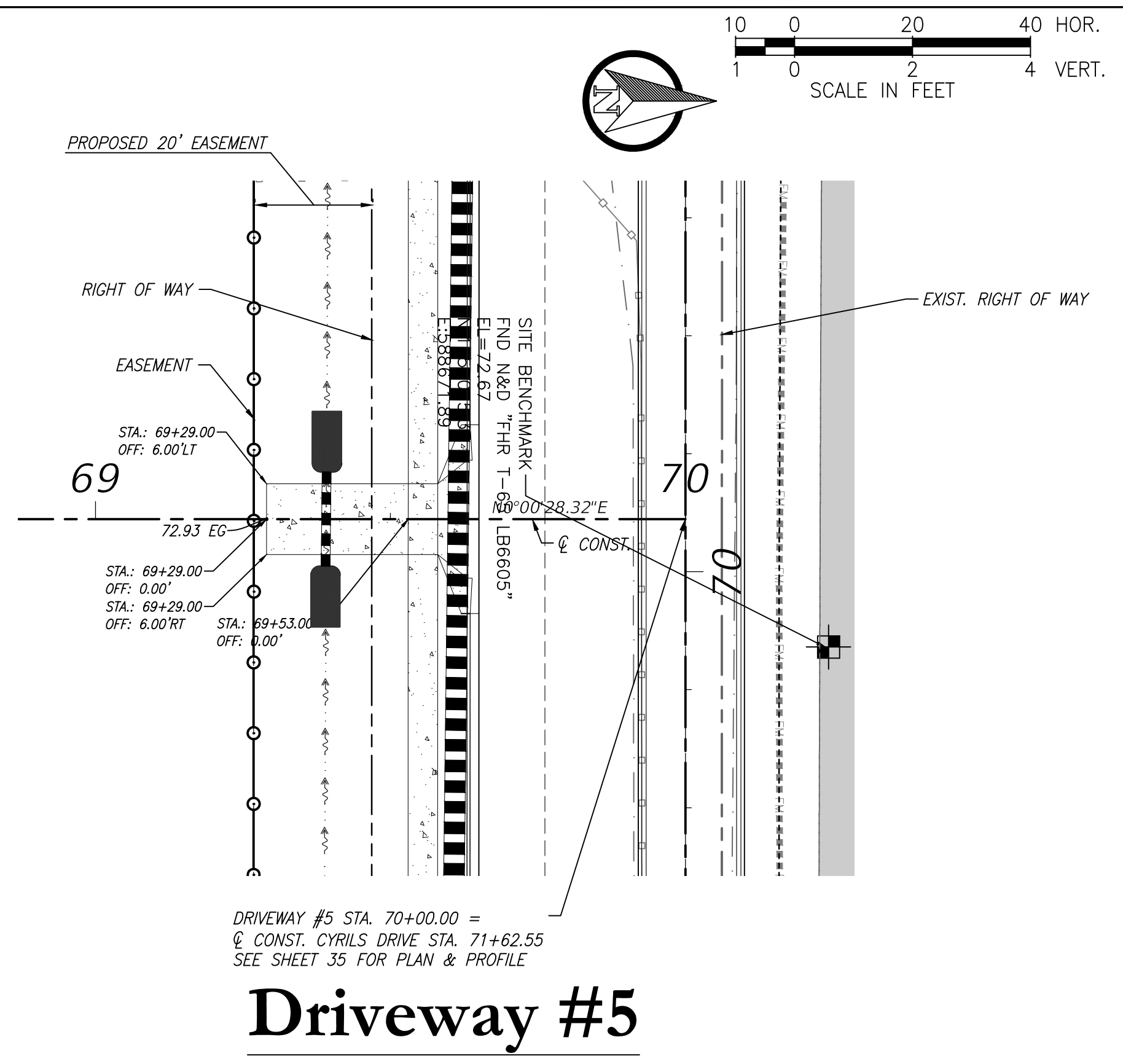
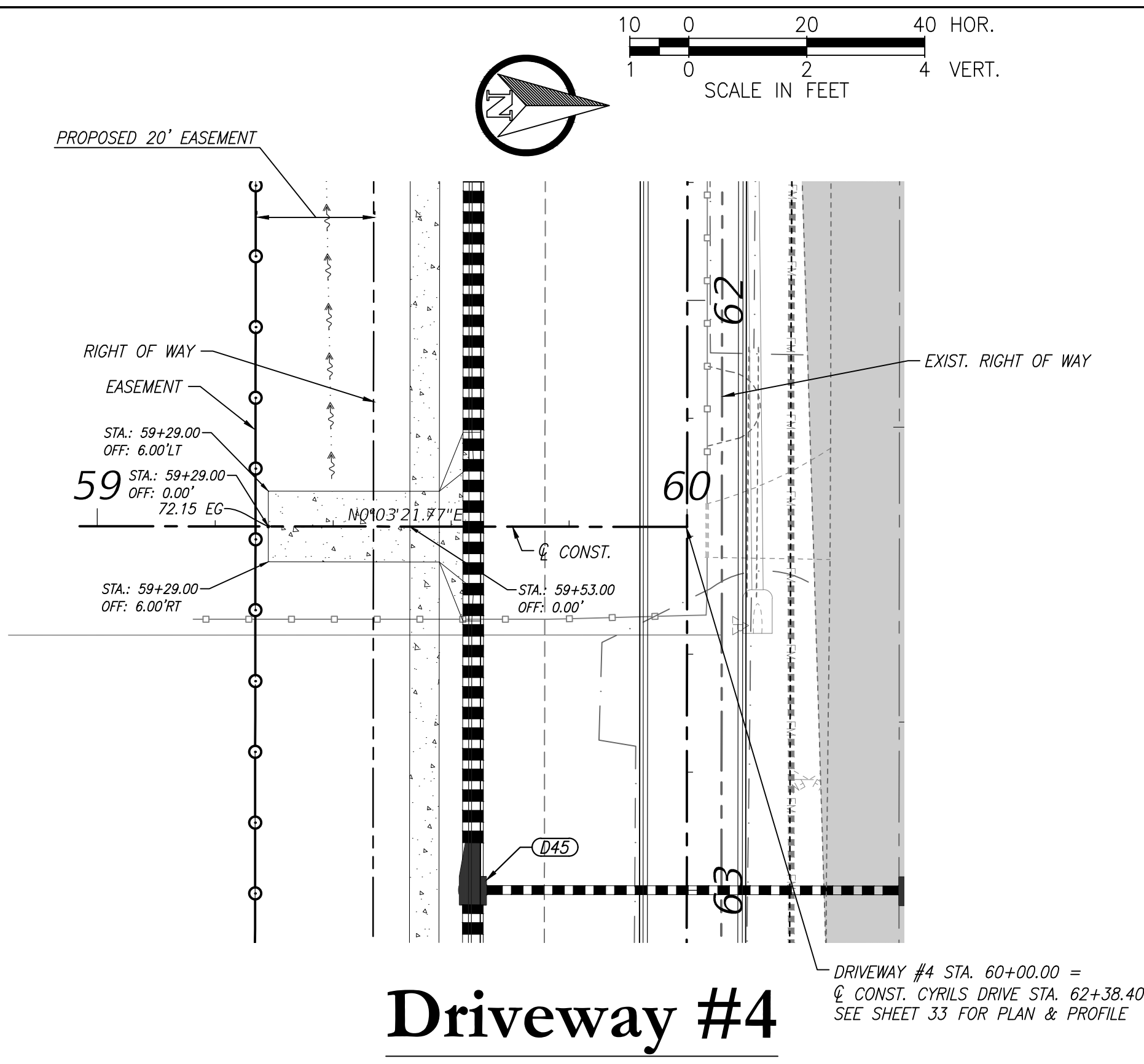
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
SIDE STREET PLAN & PROFILE

SHEET NO.
48

CHRISTINA M. BAXTER
LICENSE No. 67547
STATE OF FLORIDA
PROFESSIONAL ENGINEER
September 28, 2023

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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
DRIVEWAY PLAN & PROFILE

SHEET NO.
50

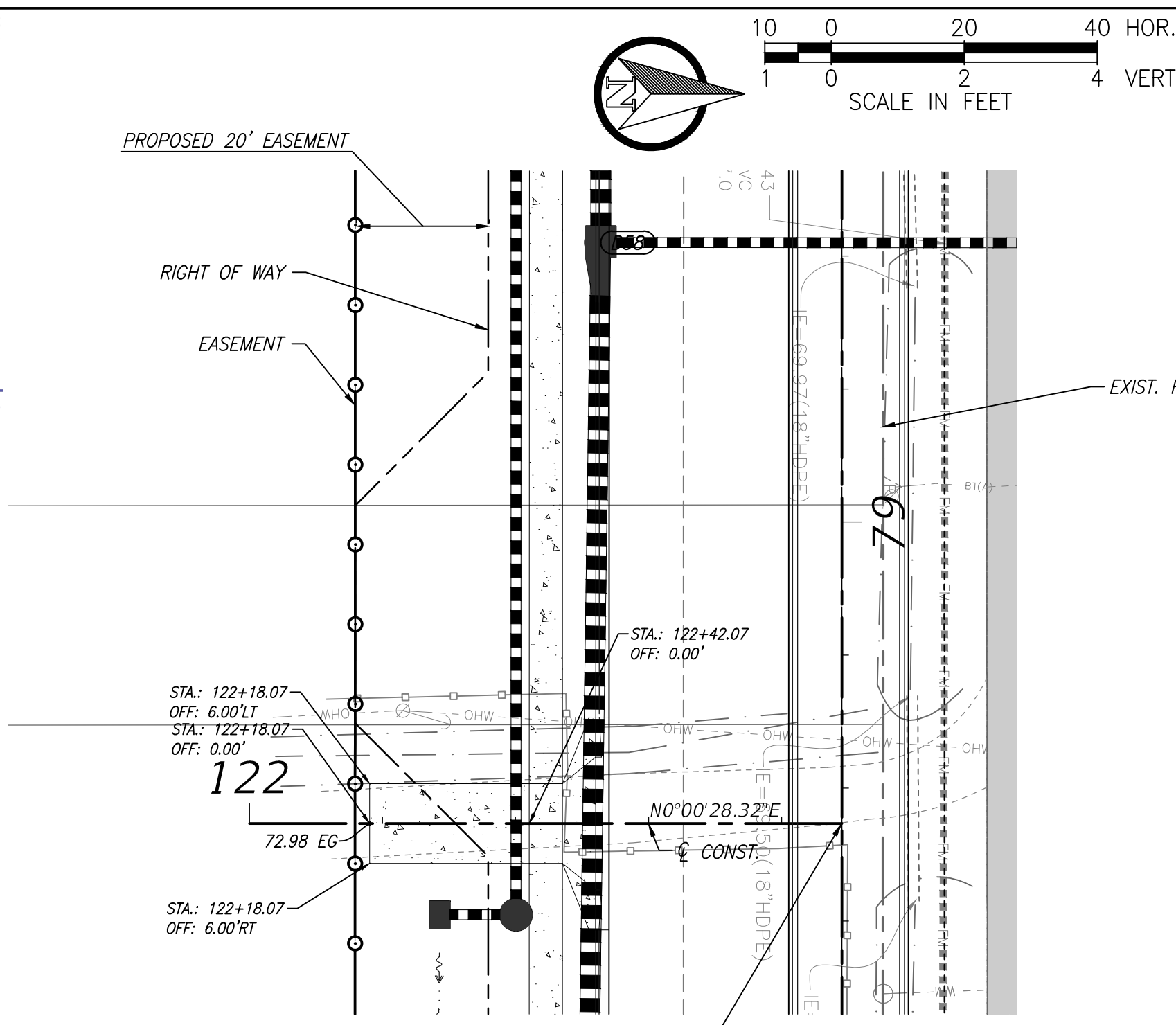


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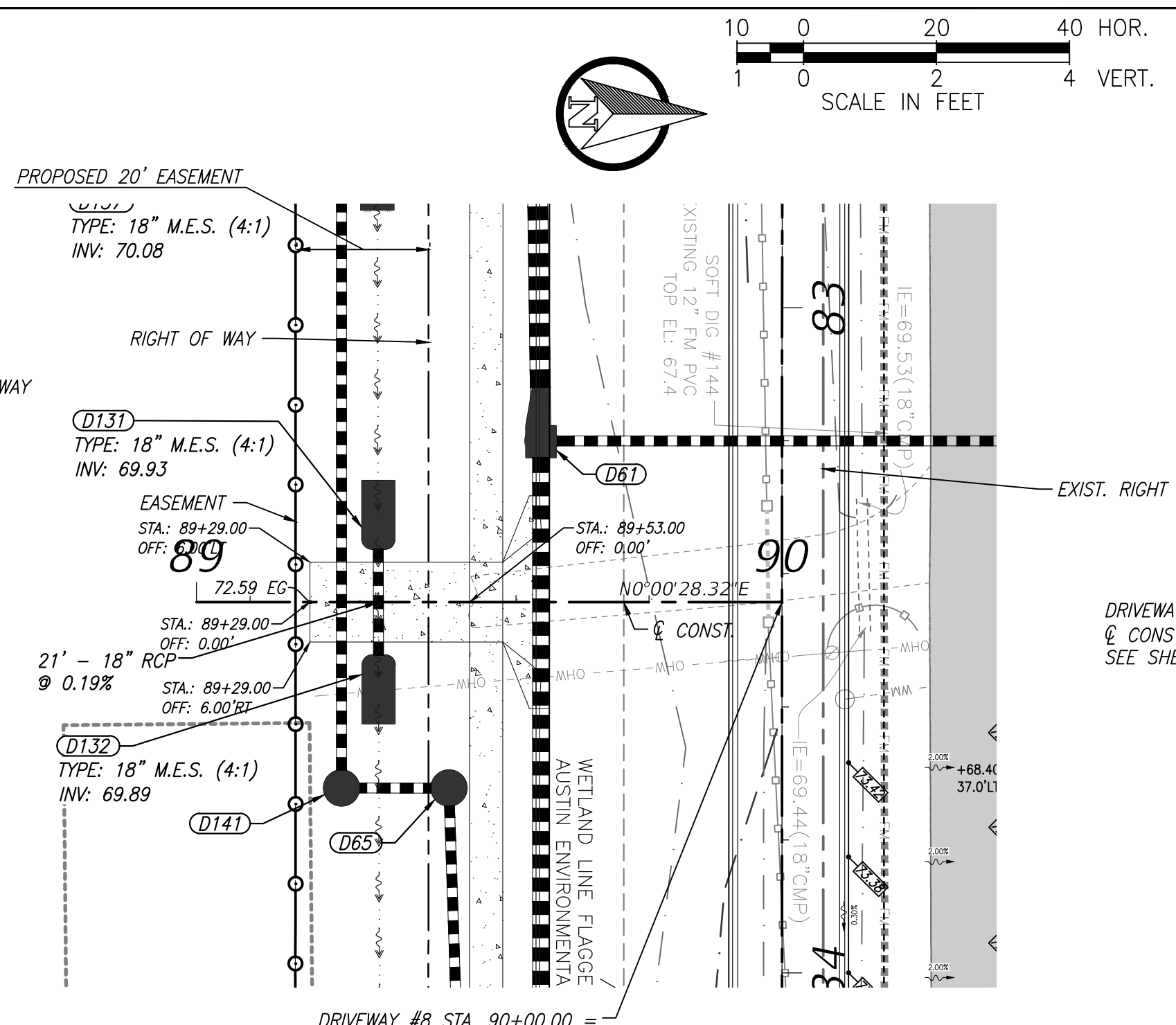
Osceola County
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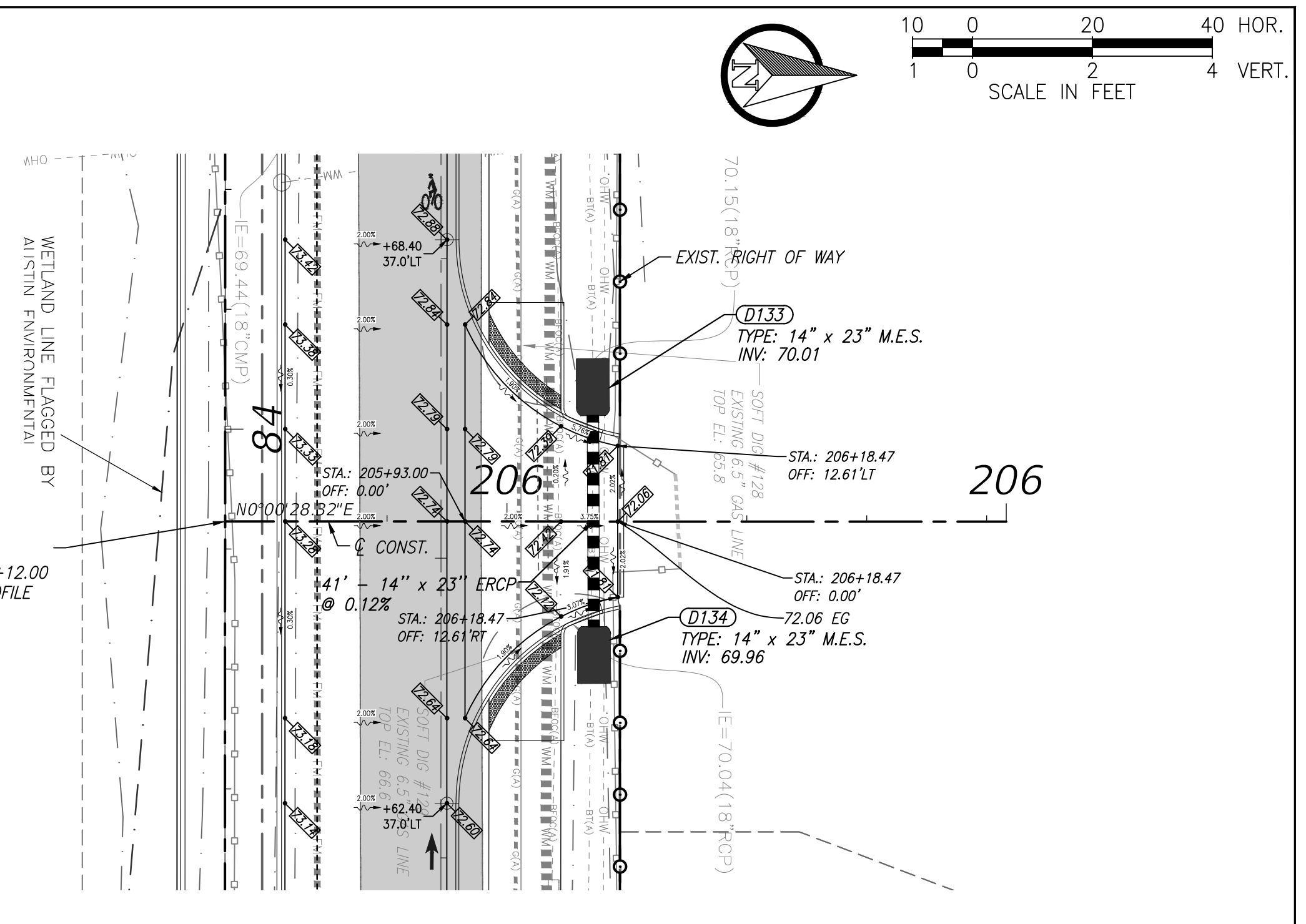
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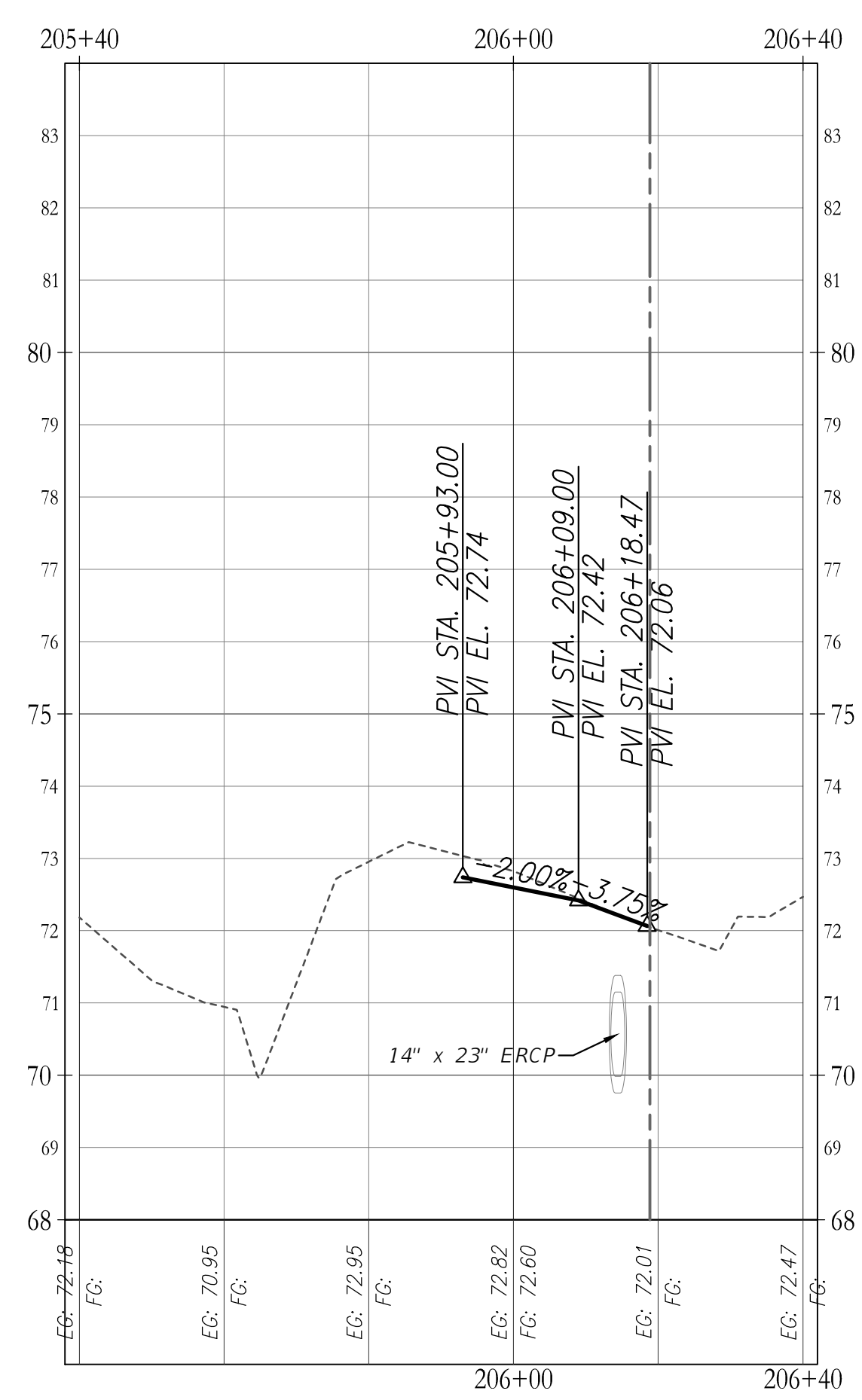
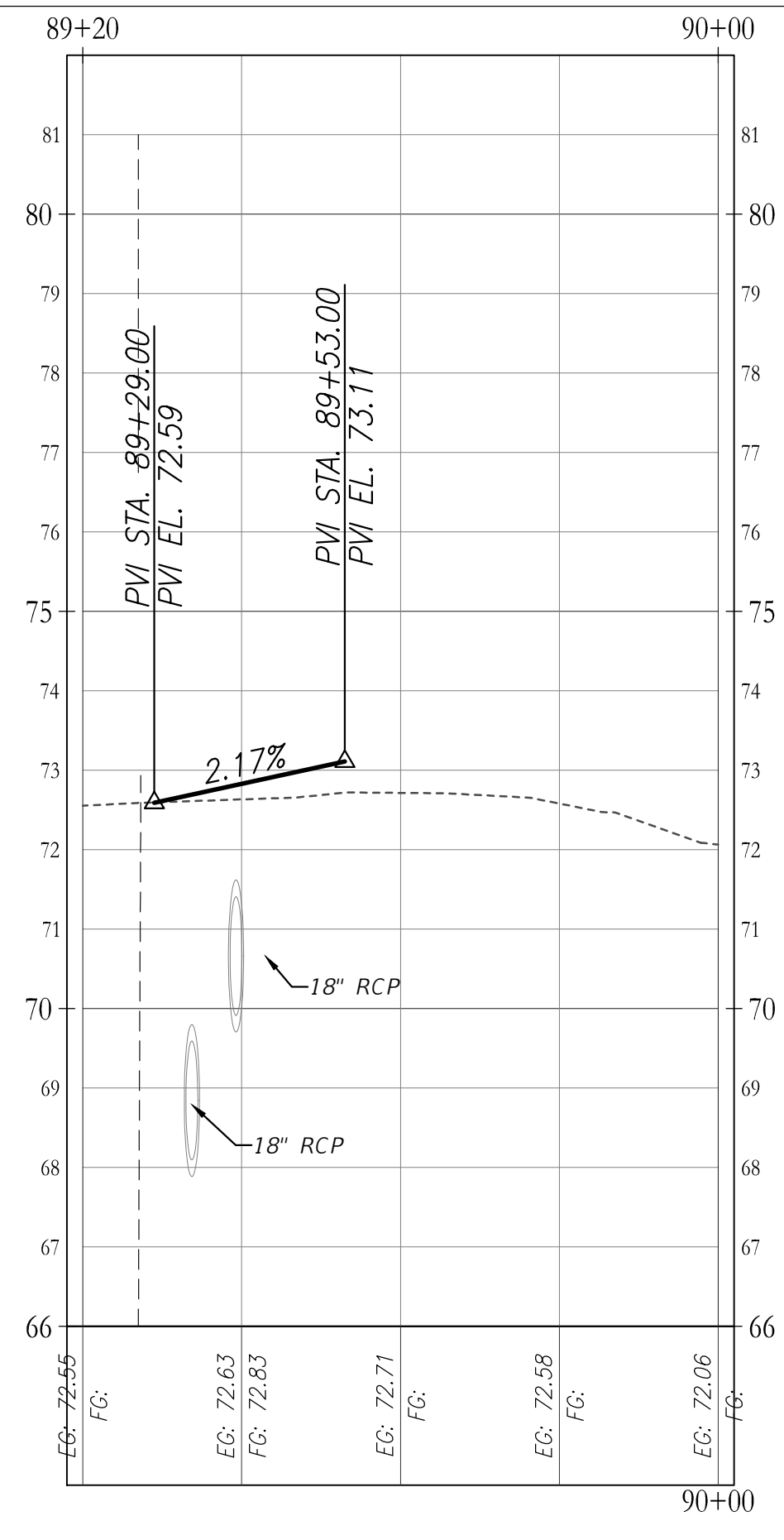
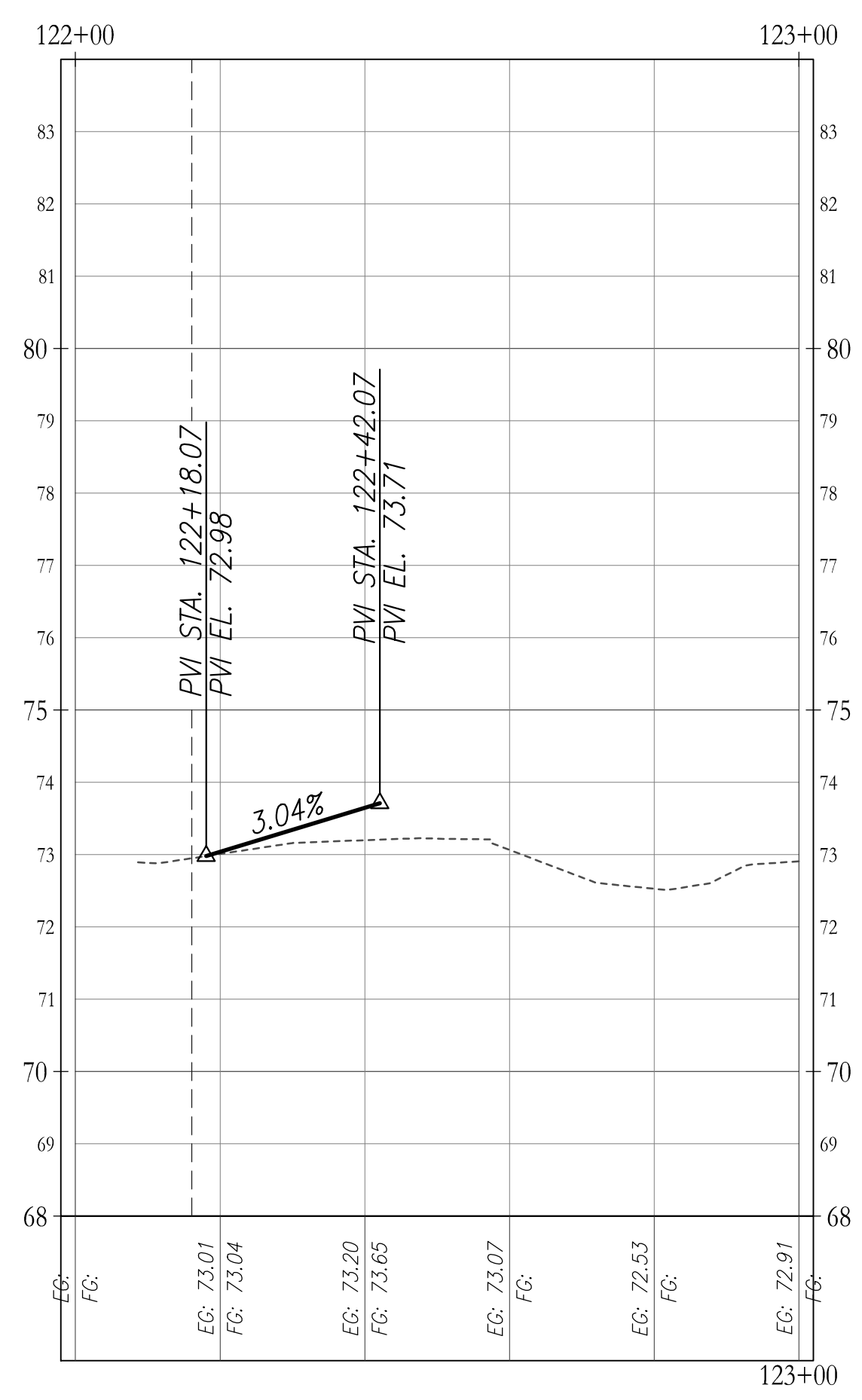
Driveway #7



Driveway #8



Driveway #9



CHRISTINA M. BAXTER
LICENSE
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STATE OF FLORIDA
PROFESSIONAL ENGINEER
September 28, 2023

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Z:\2017\17-042 TAMISOCK - SUNBRIDGE\CYRILS DR\ARCOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-04208-CD&M-PP - SUBSTREETS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT

Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

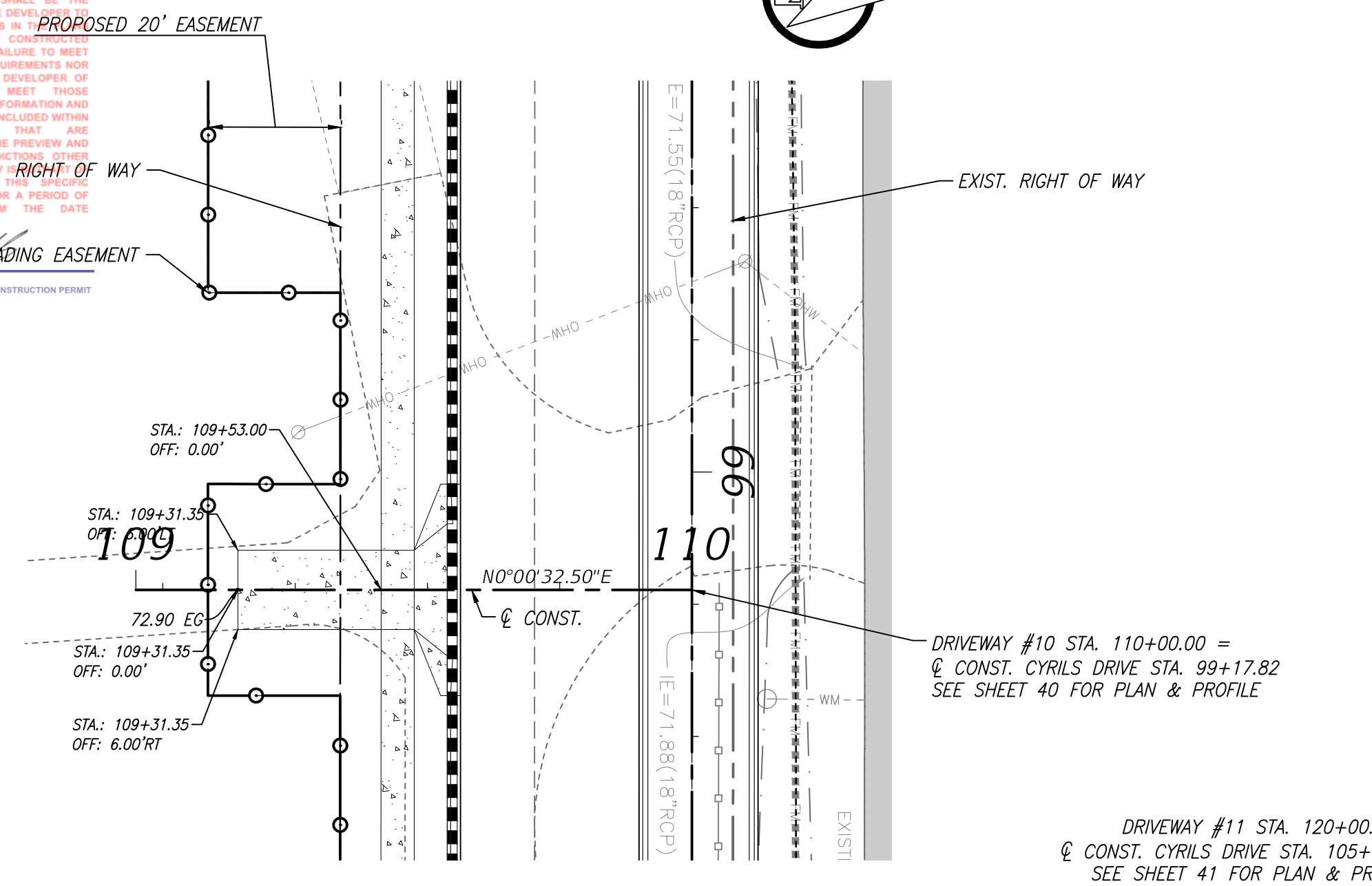
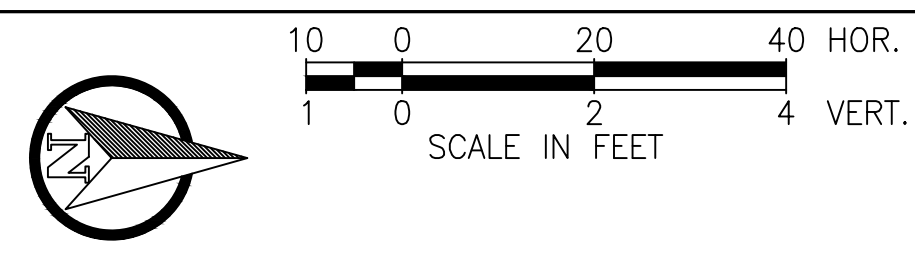
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
DRIVEWAY PLAN & PROFILE

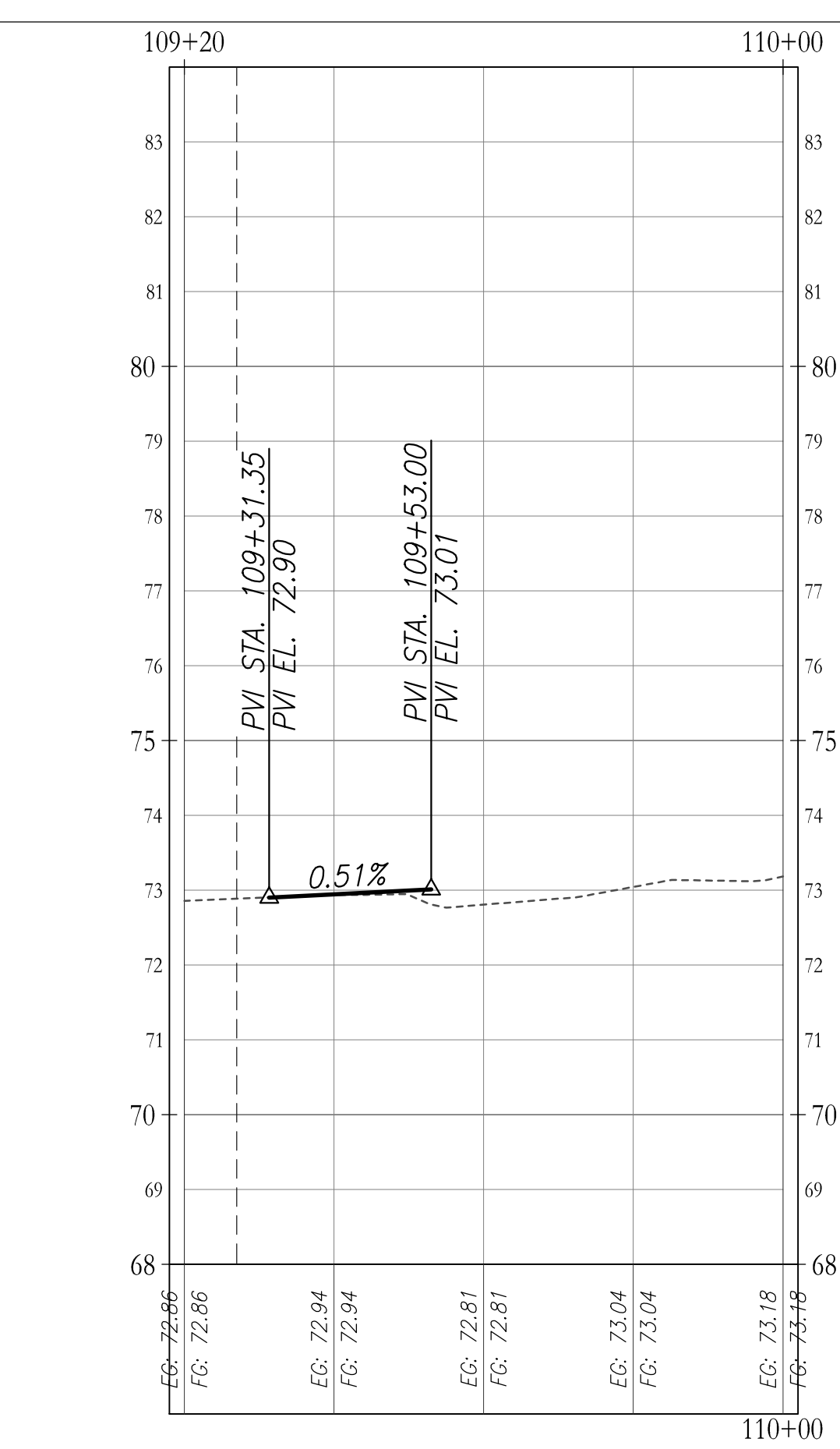
SHEET NO.
51

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE REVIEWER TO CORRECT ANY DEFECTS IN THE PLAN WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS. THE REVIEWER DOES NOT RELIEVE THE DEVELOPER OF RESPONSIBILITY TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE DRAWINGS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTION ARE MORE THAN OSCEOLA COUNTY'S SPECIAL APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

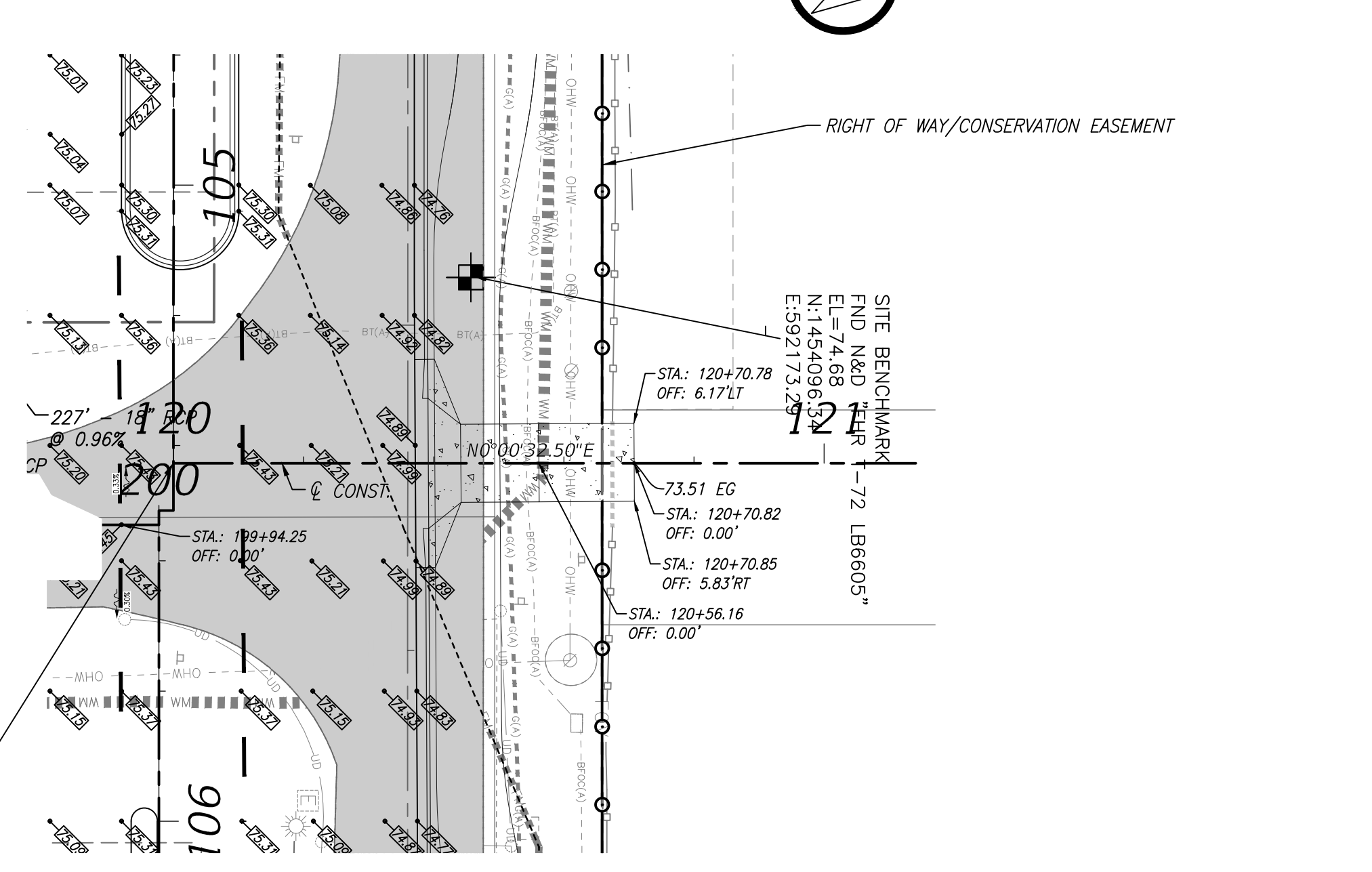
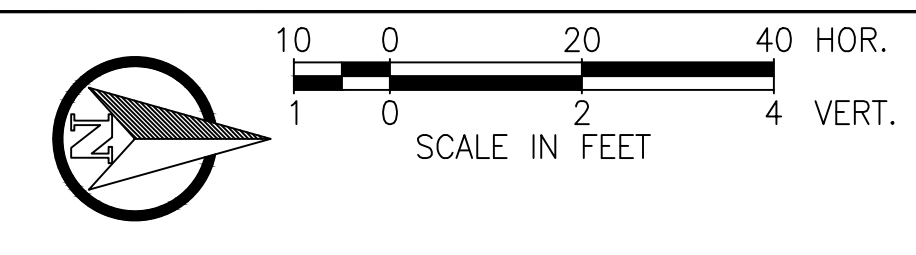
NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



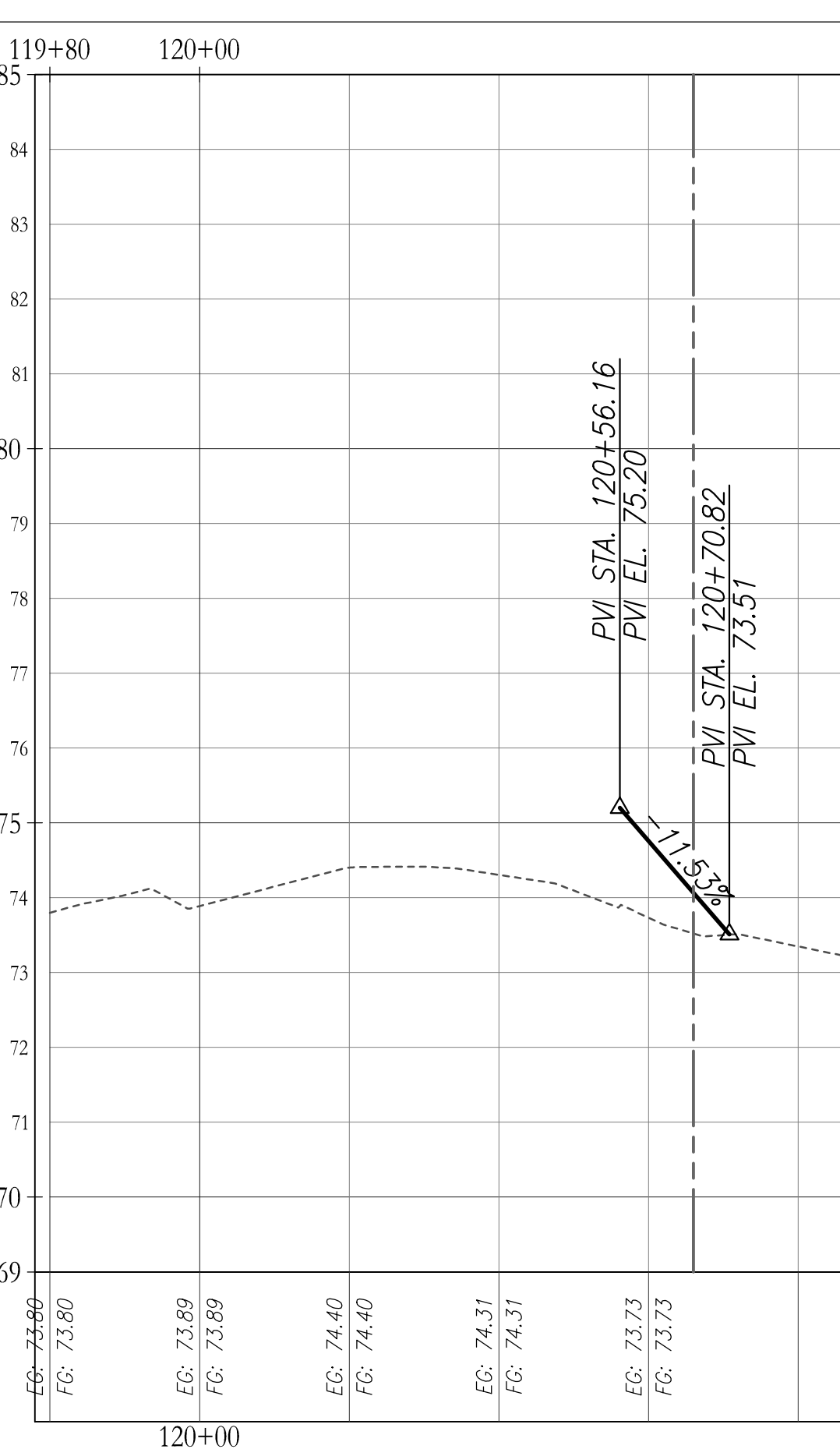
Driveway #10



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

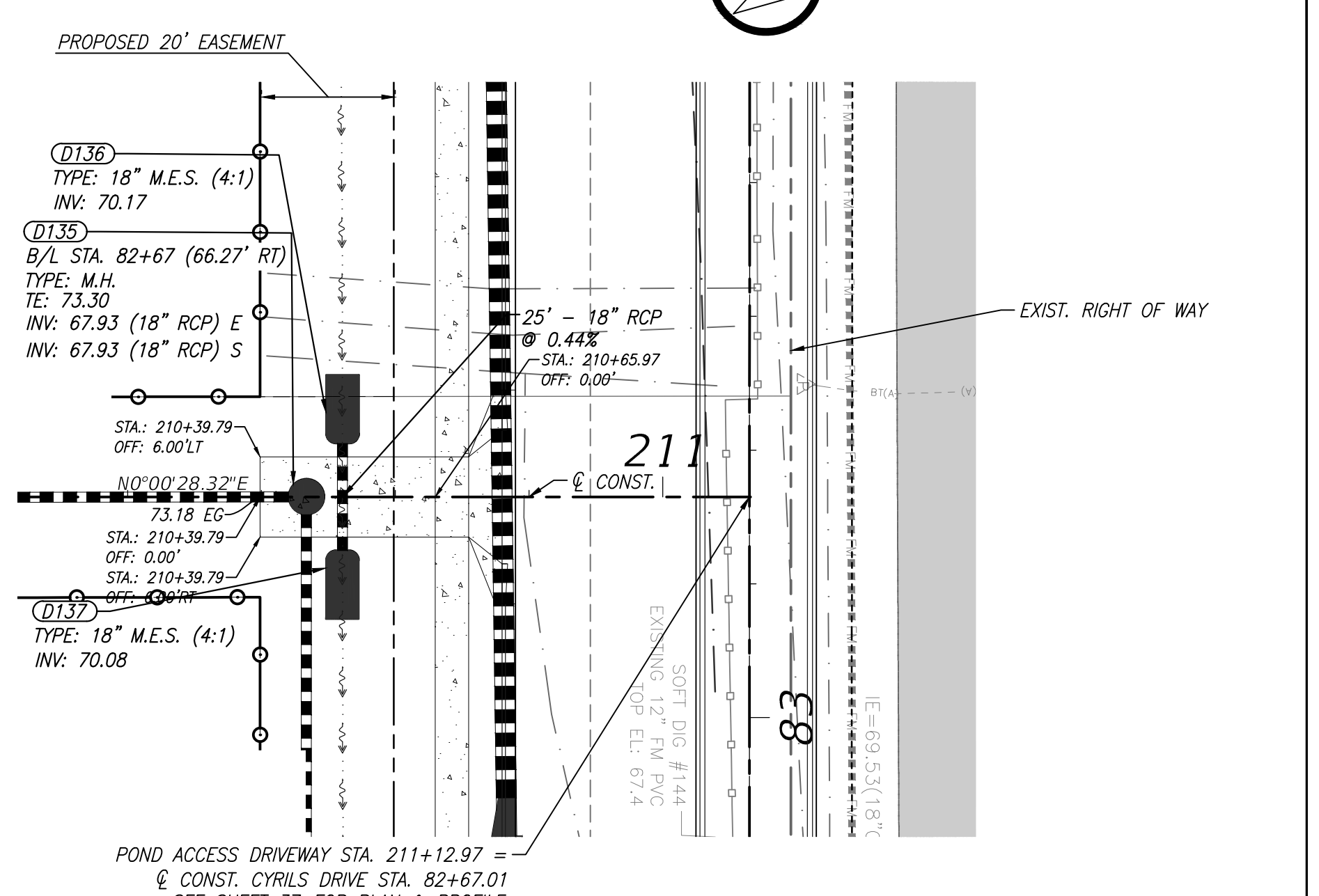
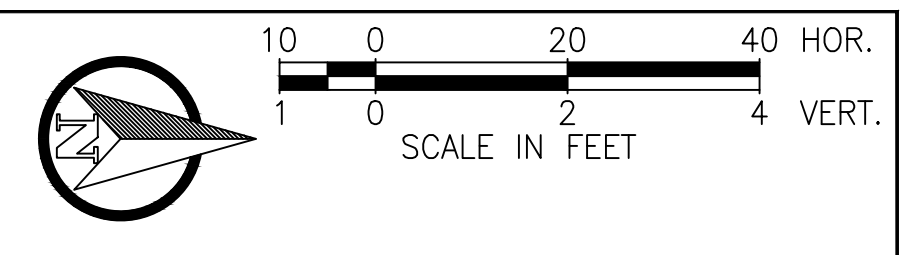


Driveway #11

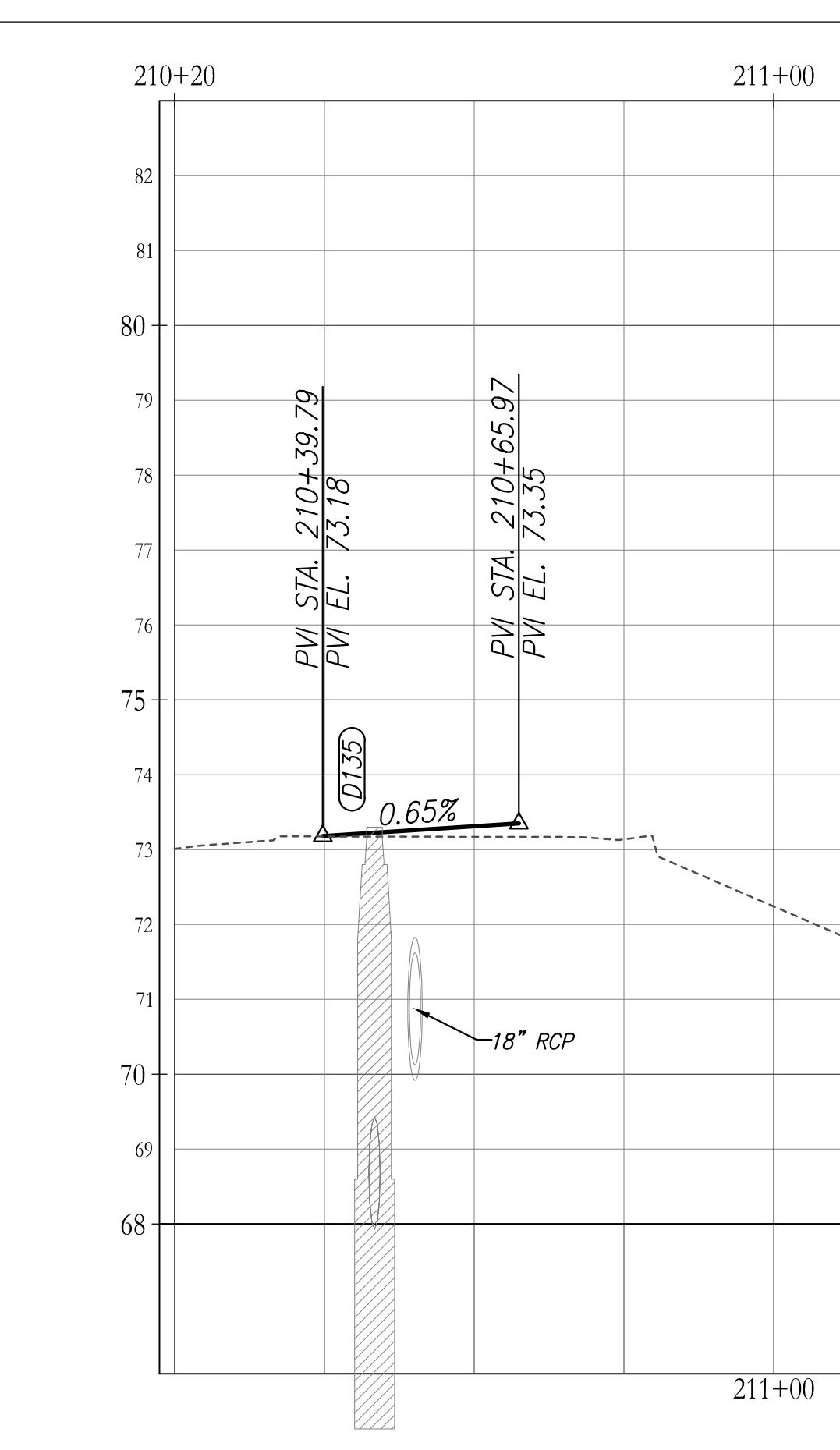


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Pond Access



**CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
DRIVEWAY PLAN & PROFILE**

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CHRISTINA M. BAXTER
LICENSE No. 67547
STATE OF FLORIDA
PROFESSIONAL ENGINEER

CHRISTINA M. BAXTER
LICENSE No. 67547
STATE OF FLORIDA
PROFESSIONAL ENGINEER

September 28, 2023

DATE

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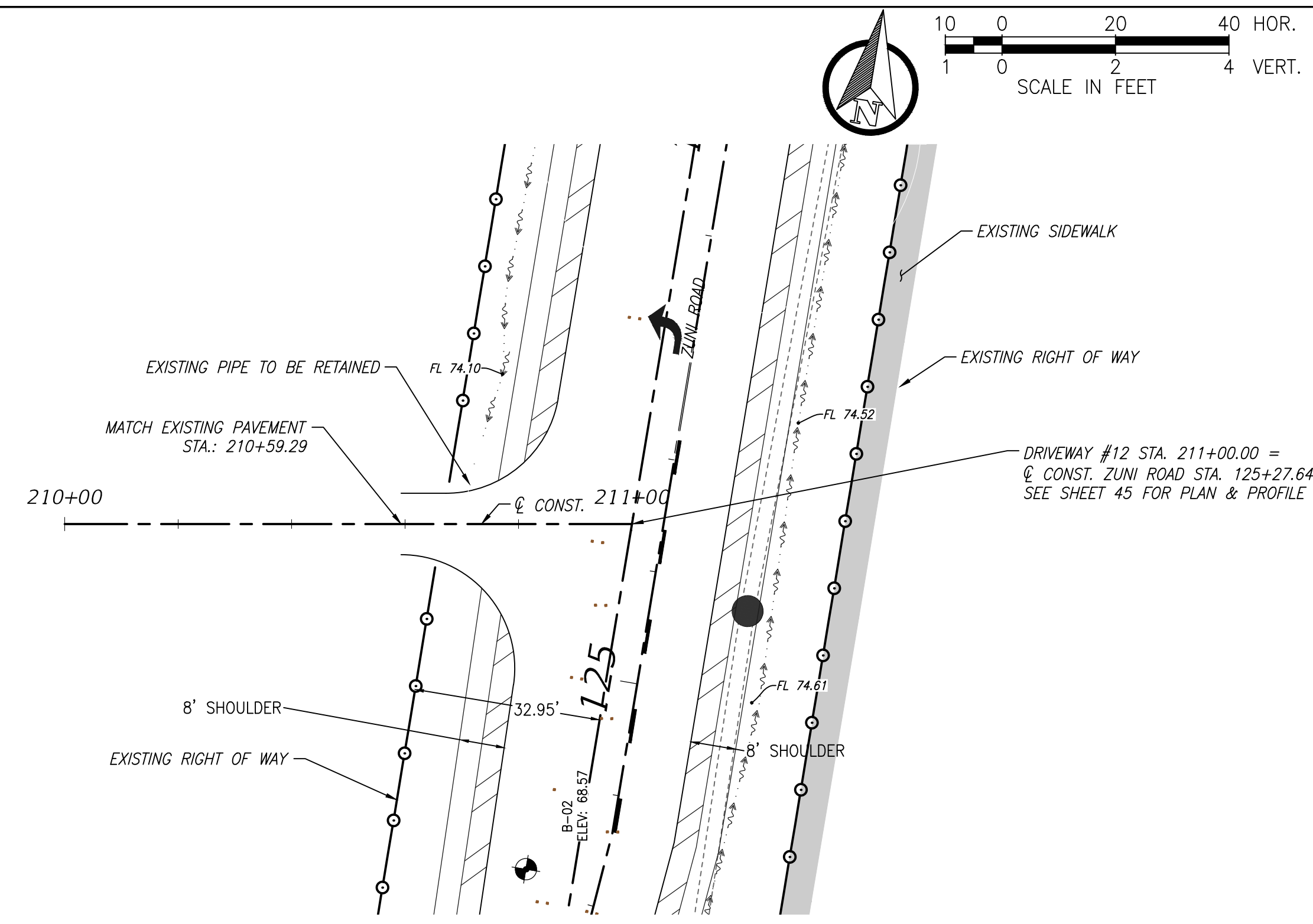
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Z:\2017\17-042 TAVISSTOCK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CO&M-PP - SUBSTREETS

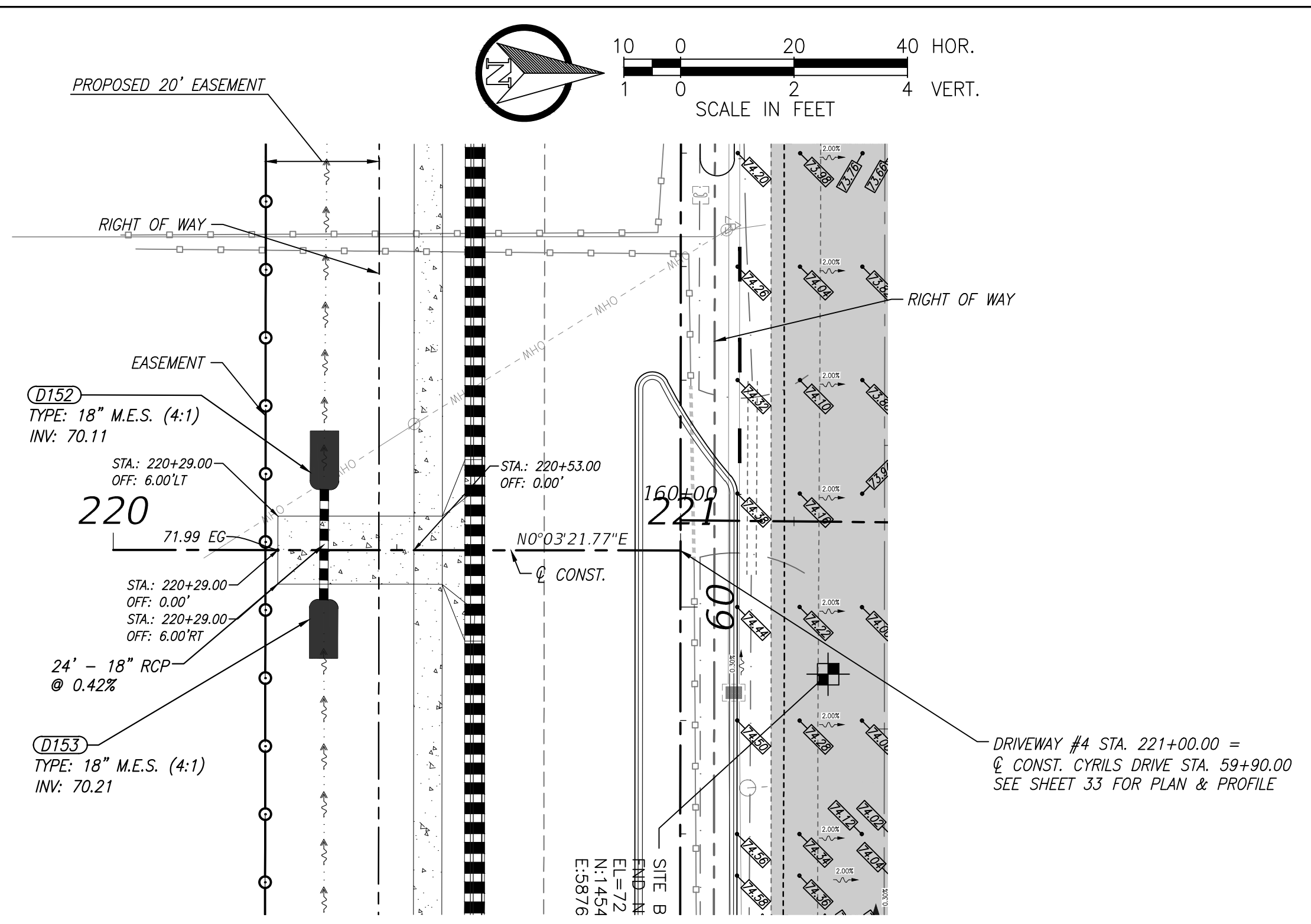
Osceola County
Community Development

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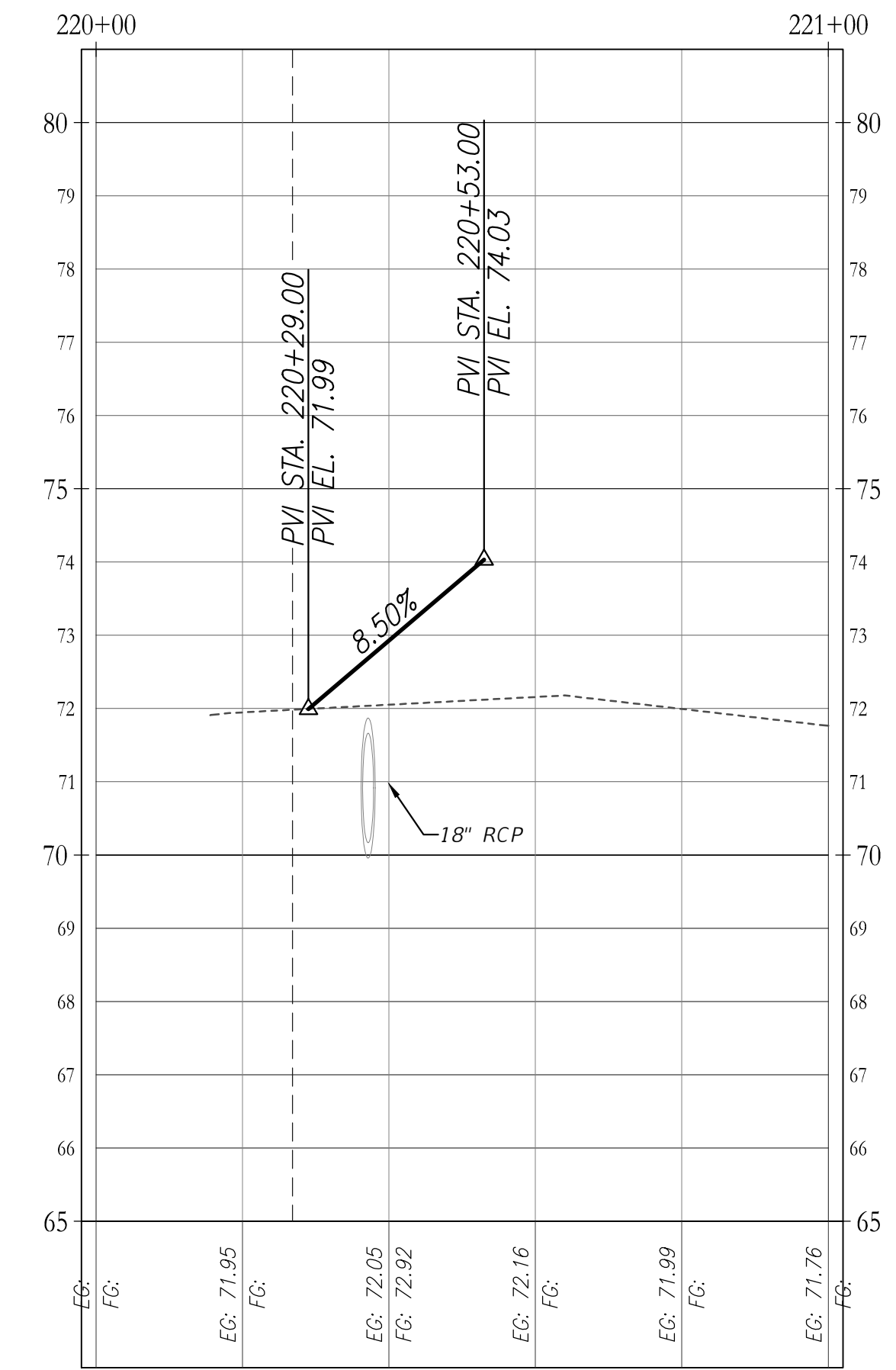
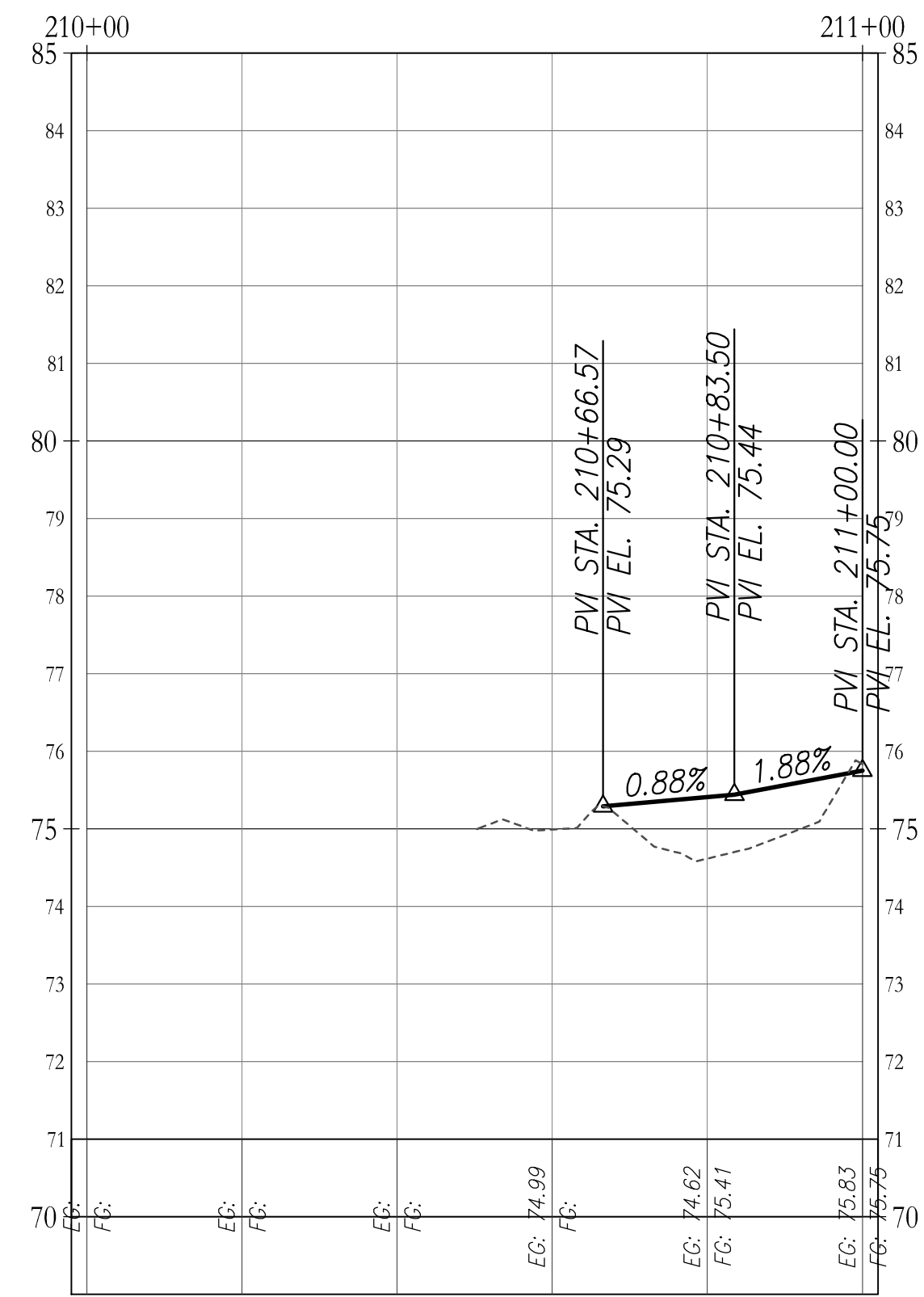
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Driveway #12



Driveway #14



CHRISTINA M. BAXTER
LICENSE
No. 67547
STATE OF FLORIDA
PROFESSIONAL ENGINEER

CHRISTINA M. BAXTER
LICENSE NO. 6067547
DATE: September 28, 2023

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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

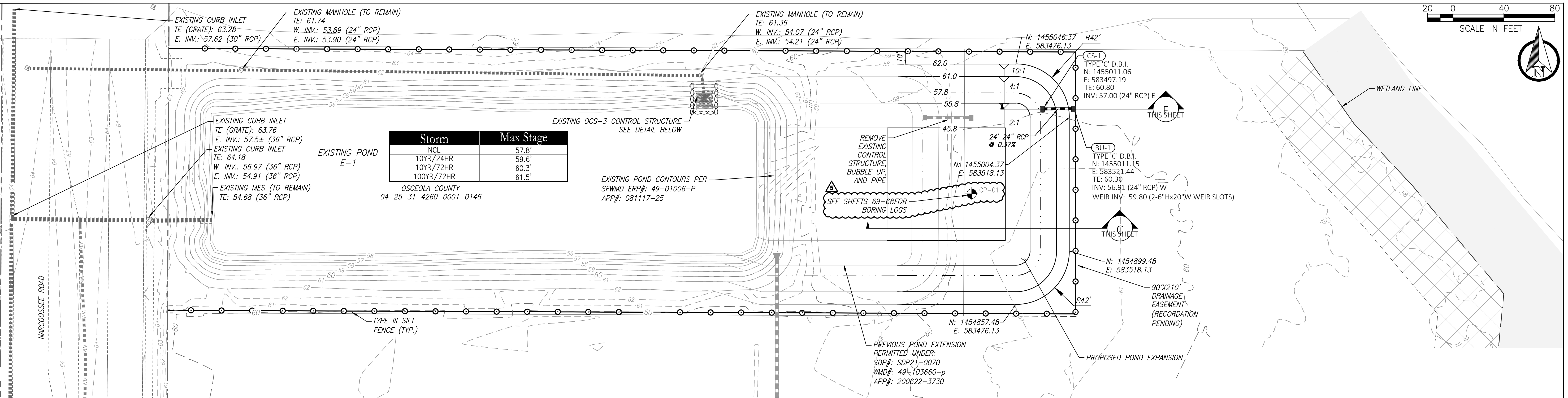
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
DRIVEWAY PLAN & PROFILE

SHEET NO.
53

Z:\2017\17-042 TAVISSTOCK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-PP - SUBSTREETS

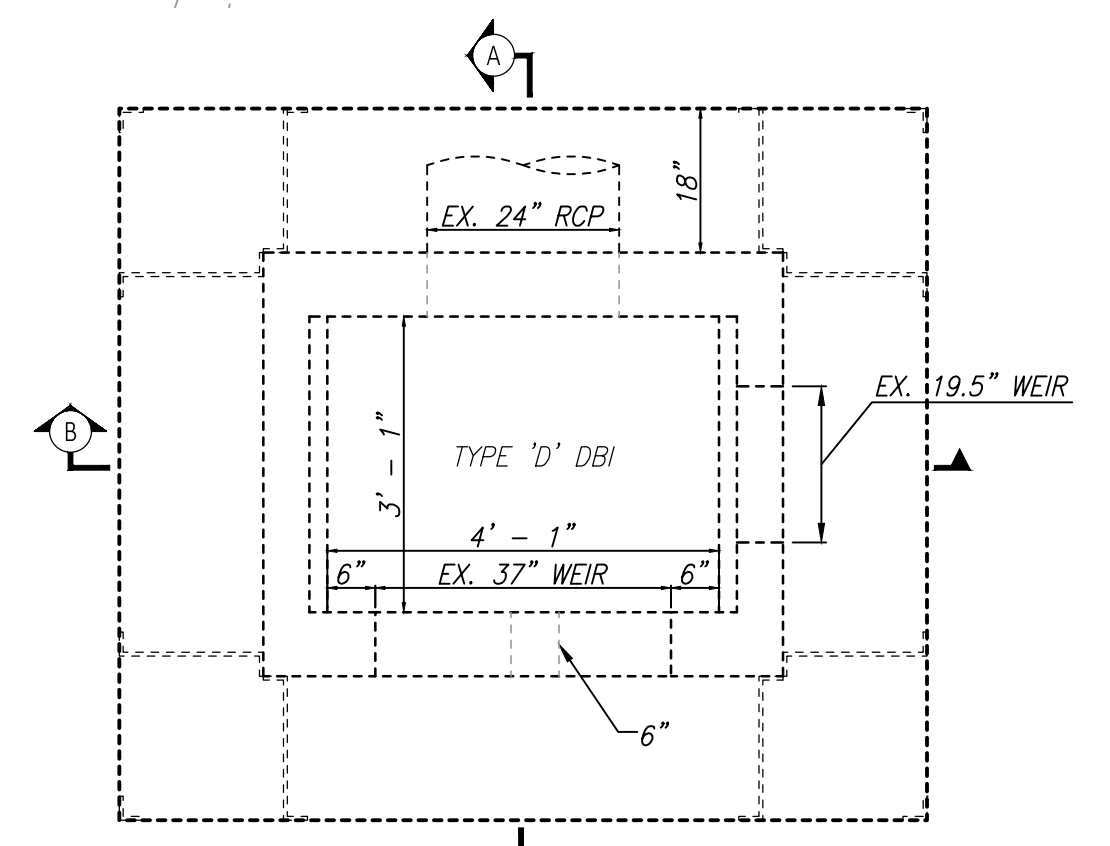
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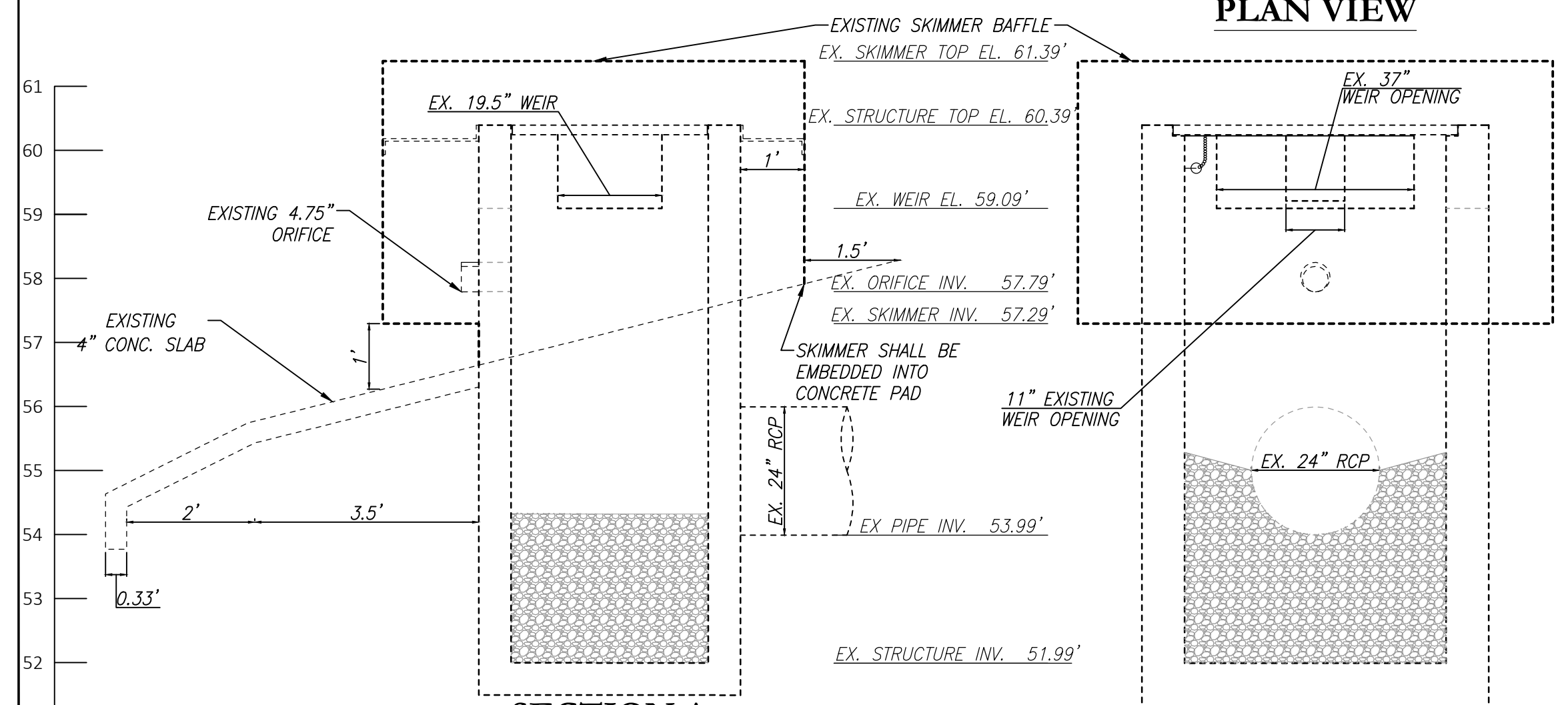


Storm	Max Stage
NCL	57.8'
10YR/24HR	59.6'
10YR/72HR	60.3'
100YR/72HR	61.5'

OSCEOLA COUNTY
04-25-31-4260-0001-0146



PLAN VIEW



SECTION A

SECTION B

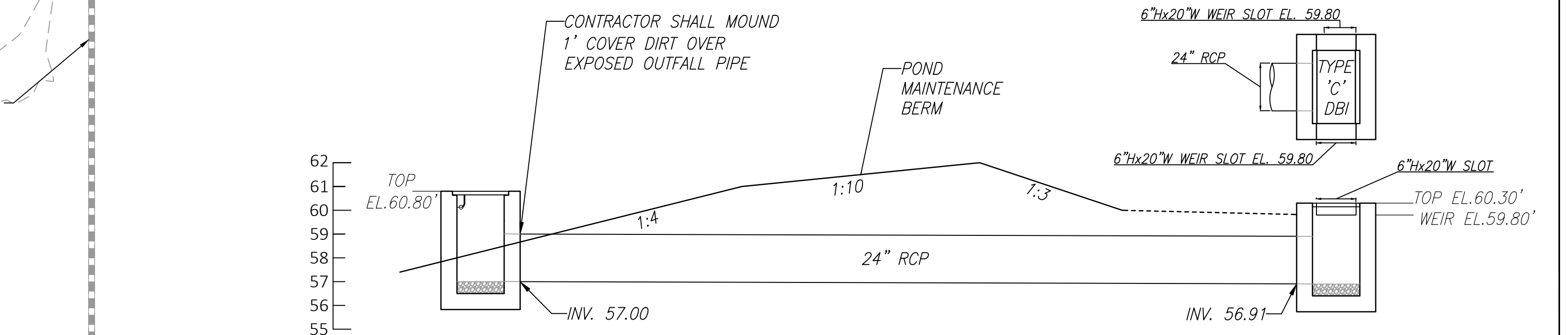
EXISTING OUTFALL STRUCTURE OCS-3

NOTE: STRUCTURE OCS-3 ELEVATIONS ARE PERMITTED UNDER SFWM ERP PERMIT # 49-01006-P, APPLICATION # 081117-25 - NO CHANGES ARE PROPOSED ON THIS STRUCTURE UNDER THIS APPLICATION

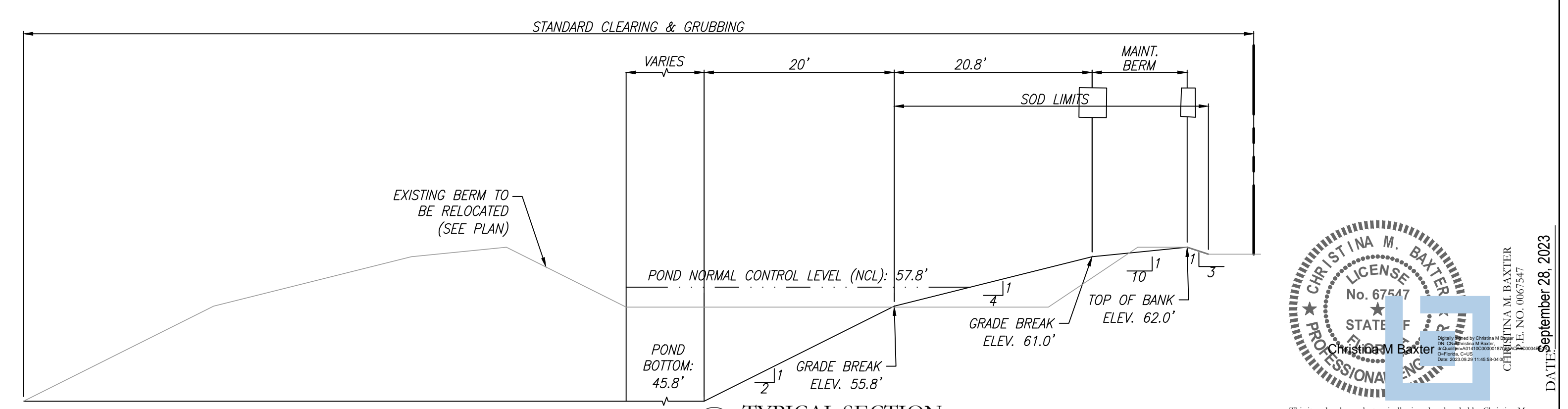
REVISIONS

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E TYPICAL SECTION



C TYPICAL SECTION

CHRISTINA M. BAXTER
LICENSE No. 67547
STATE OF FLORIDA
PROFESSIONAL ENGINEER
September 28, 2023

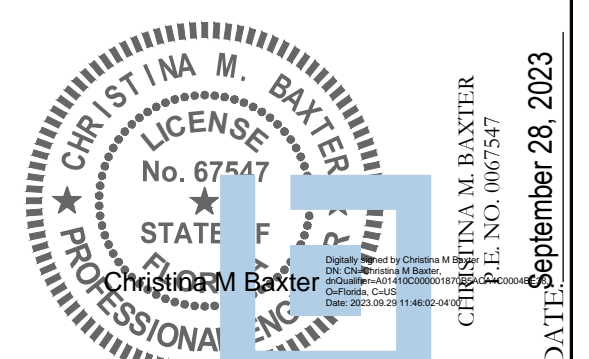
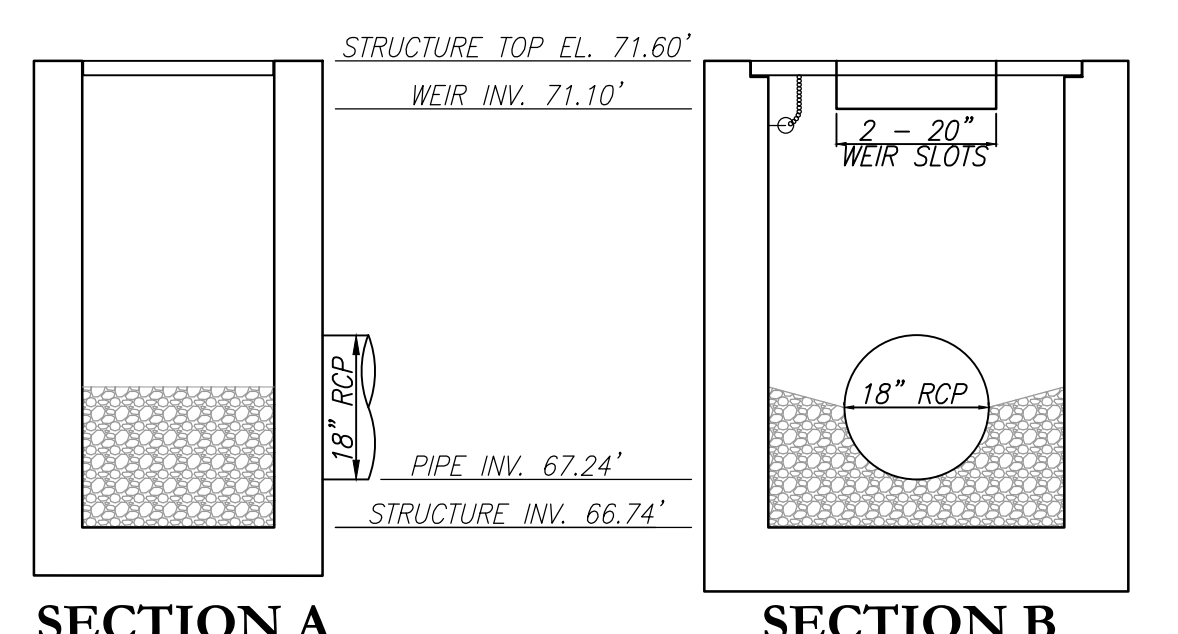
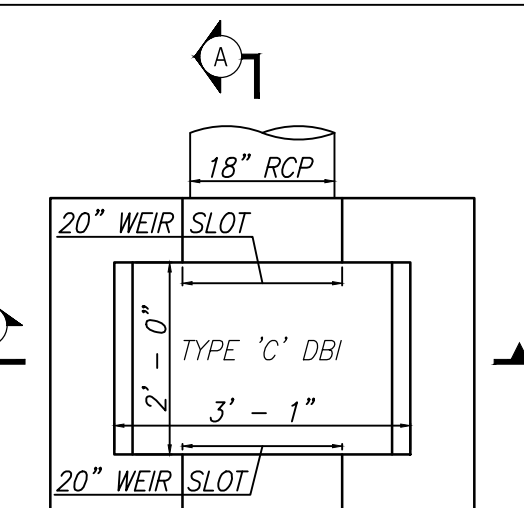
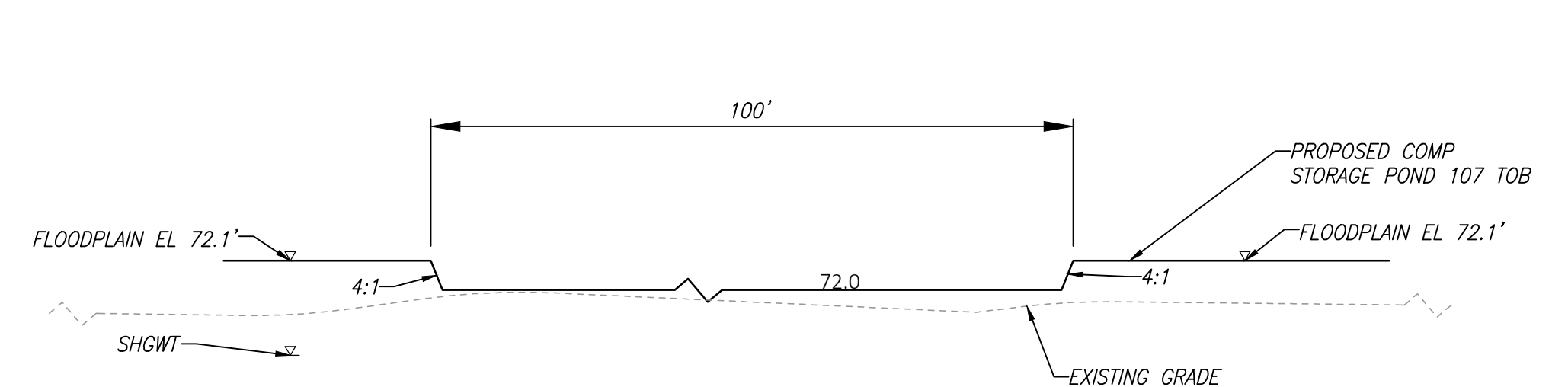
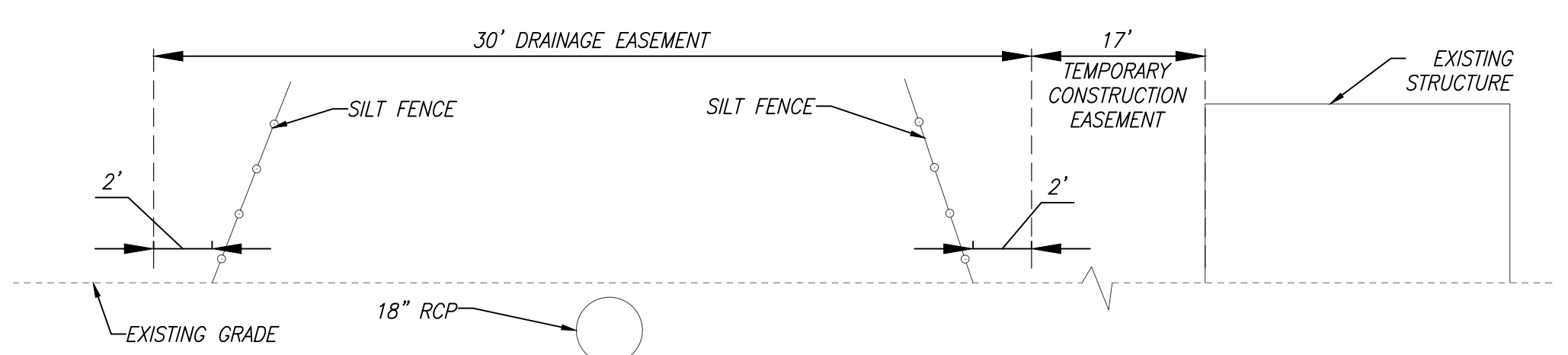
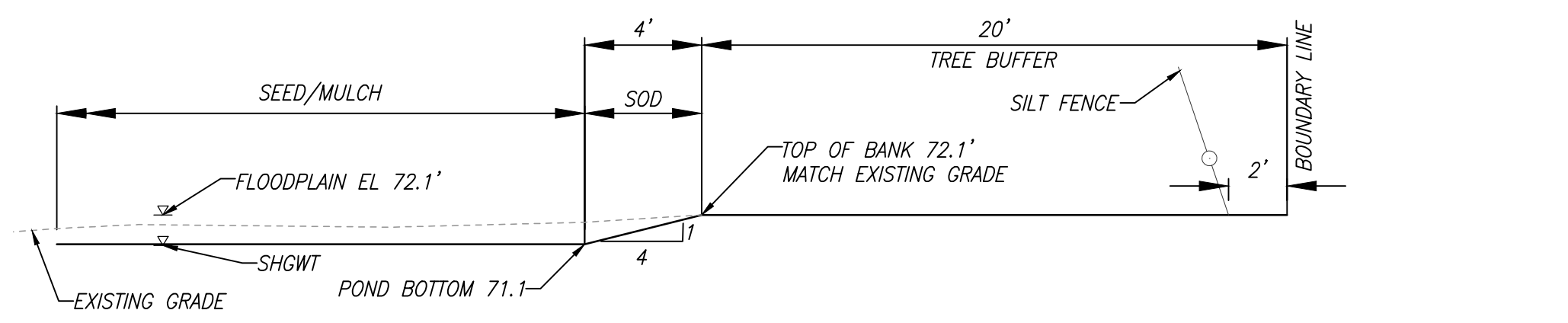
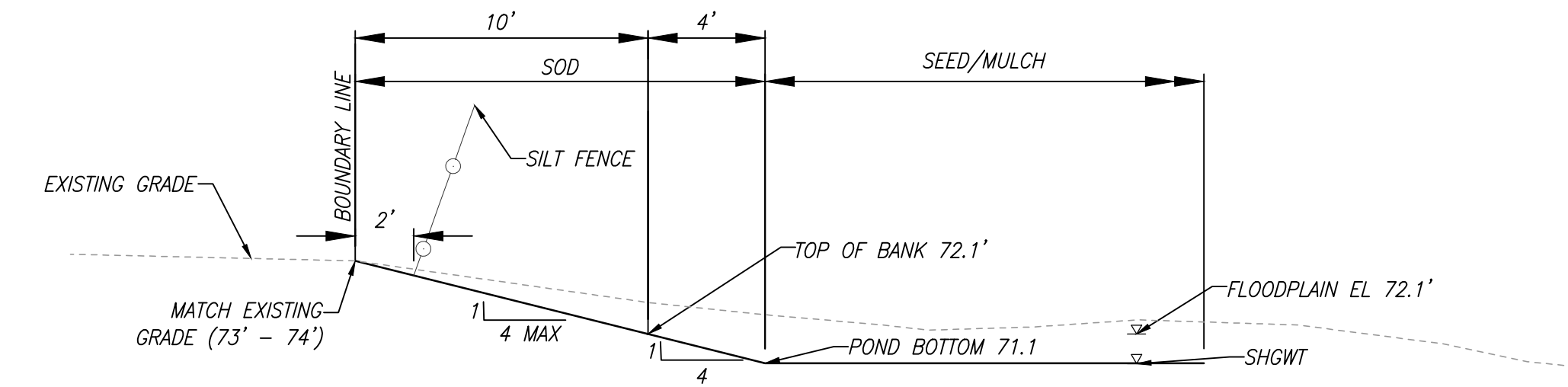
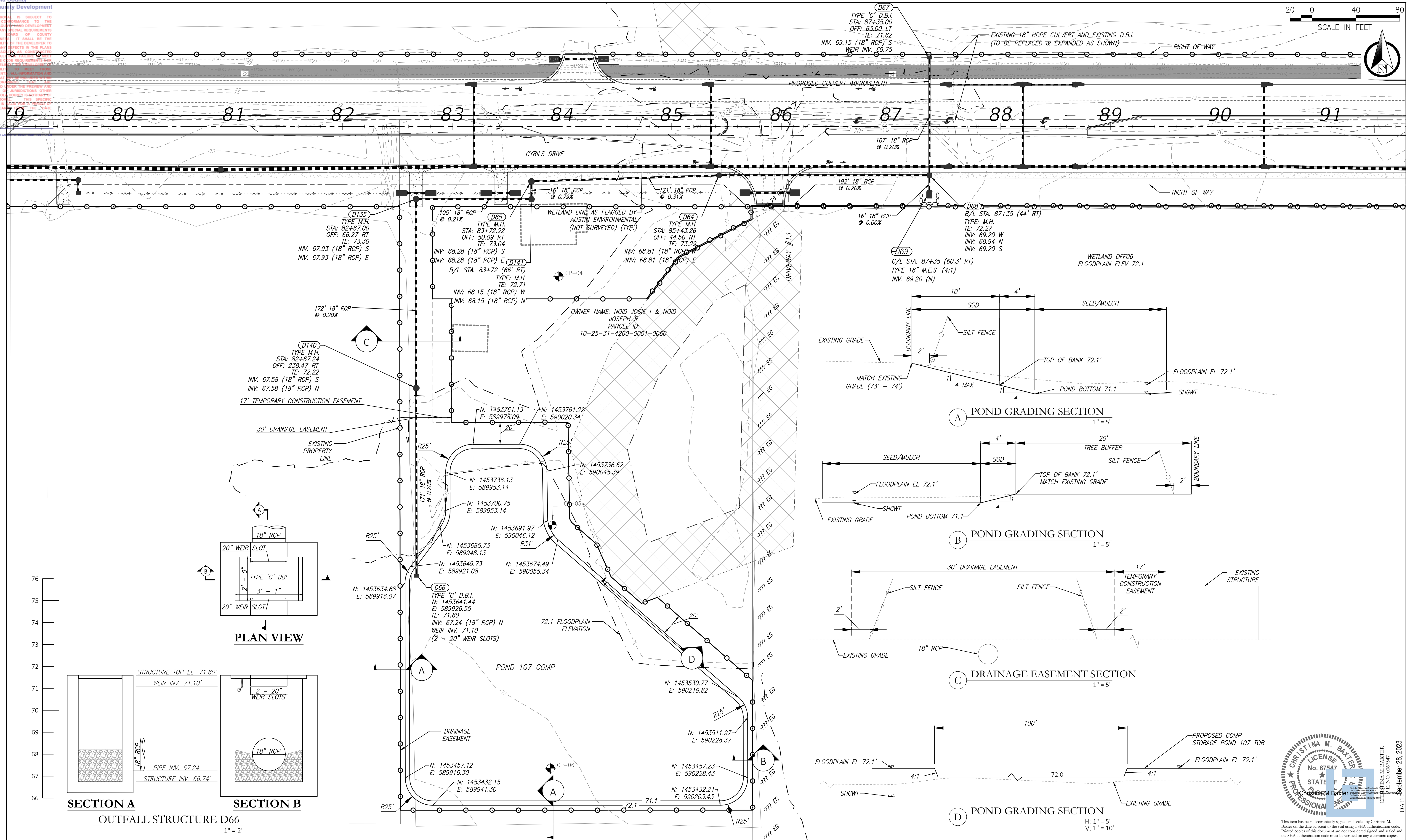
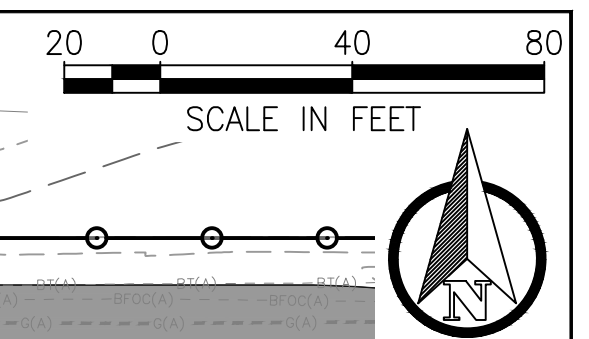
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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
POND E-1 EXPANSION & CONTROL
STRUCTURE MODIFICATIONS

SHEET NO.
54

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY ERRORS OR OMISSIONS WHICH BECOME APPLICABLE TO THIS PROJECT. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THESE REQUIREMENTS SHALL BE CONSIDERED AS A CONDITION OF THIS APPROVAL. APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.



REVISIONS			
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 Tel. 407.487.2594 www.poulosandbennett.com
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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
POND & CONTROL STRUCTURE DETAILS

SHEET NO.
55

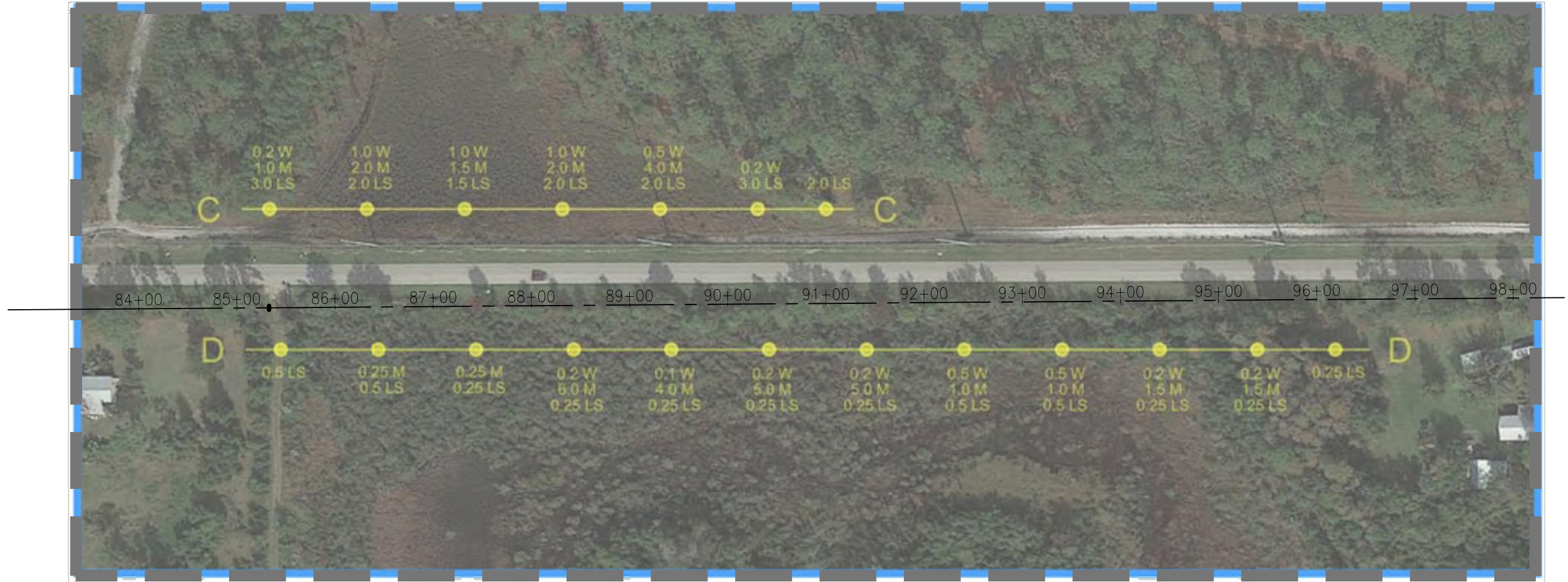
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LEGEND

- APPROXIMATE PROBE LOCATION SHOWING APPROXIMATE DEPTH OF MUCK (FEET)
- W WATER
- M MUCK
- LS LOOSE SAND (POSSIBLE ORGANICS)



LIMITATIONS OF MUCK PROBE SURVEY

THE MANUAL MUCK PROBE PROCEDURE INVOLVES PUSHING A SLENDER METAL ROD INTO THE SURFICIAL ORGANICS AND EVALUATING THE RELATIVE RESISTANCE OF THE SOIL. THE MANUAL MUCK PROBE CANNOT DETERMINE THE TYPE OF MATERIAL ENCOUNTERED SINCE NO SOIL SAMPLES ARE RECOVERED ONLY WHETHER OR NOT THE MATERIAL IS SUFFICIENTLY LOOSE OR SOFT TO ALLOW PENETRATION OF THE PROBE. THE MANUAL PROBE MAY NOT DETECT ORGANIC LAYERS WHICH EXIST BENEATH OR IN-BETWEEN SANDY SOIL LAYERS, AND MAY PENETRATE LOOSE SANDY SOILS.

DUKE TO THESE LIMITATIONS, THE DEPTHS SHOWN MAY BE AN OVER-ESTIMATION OR UNDER-ESTIMATION OF THE ACTUAL DEPTH OF ORGANIC SOILS.

MUCK PROBE DATA SHALL NOT BE USED TO ESTIMATE EARTHWORK QUANTITIES, EXCEPT ON A PRELIMINARY BASIS.

BACKHOE TEST PITS OR AUGER BORINGS WITH HORIZONTAL AND VERTICAL SURVEY CONTROL ARE RECOMMENDED WHERE MORE DEFINITE INFORMATION IS NEEDED.

LOOSE SAND MAY CONTAIN VARIABLE AMOUNTS OF ORGANICS AND DEPENDING UPON THE ORGANIC CONTENT MAY BE UNSUITABLE TO REMAIN IN-PLACE BELOW THE PROPOSED SITE IMPROVEMENTS.

NOTES:

- MUCK REMOVAL SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARDS, FDM SECTION 216.4.2, FDM SECTION 319.2, AND FDOT STANDARD PLANS 120-002

THIS DRAWING CREATED USING PLAN PROVIDED BY CLIENT.

POULOS & BENNETT

FOR: **LIMITED GEOTECHNICAL EXPLORATION
CYRILS DRIVE ROADWAY WIDENING
OSCEOLA COUNTY, FLORIDA**

MUCK PROBE LOCATION PLAN

DATE: 11-22-2021
DRAWN BY: NFB
CHECKED BY: G-P
REPORT NO: 1765631V3
PROJECT NO: 0130-1700290.0013

UNIVERSAL
ENGINEERING SCIENCES

PAGE NO: A-3

Z:\2017\17-042 TAMISDCK - SUNBRIDGE\CYRILS DR\WADCSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-RSS

20-0279-02

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
MUCK PROBE AND LOCATIONS

SHEET NO.
56

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FOR: POULOS & BENNETT			
DRAWN BY: N.F.	DATE: 5-5-2023	CHECKED BY: L.S.	DATE: 9-7-2023
REPORT NO: 2017475	SCALE: AS SHOWN	PROJECT NO: 0130.2300163.0002	

**GEOTECHNICAL EXPLORATION
CYRILS DRIVE ADDITIONAL MUCK PROBES
ST. COULD, OSCEOLA COUNTY, FLORIDA**

MUCK PROBE LOCATION PLAN



PAGE NO: **B-1**

23-0348-01

LIMITATIONS OF MUCK PROBE SURVEY

THE MANUAL MUCK PROBE PROCEDURE INVOLVES PUSHING A SLENDER METAL ROD INTO THE SURFICIAL ORGANICS AND EVALUATING THE RELATIVE RESISTANCE OF THE SOIL. THE MANUAL MUCK PROBE CANNOT DETERMINE THE TYPE OF MATERIAL ENCOUNTERED SINCE NO SOIL SAMPLES ARE RECOVERED, ONLY WHETHER OR NOT THE MATERIAL IS SUFFICIENTLY LOOSE OR SOFT TO ALLOW PENETRATION OF THE PROBE. THE MANUAL PROBE MAY NOT DETECT ORGANIC LAYERS WHICH EXIST BENEATH OR IN-BETWEEN SANDY SOIL LAYERS, AND MAY PENETRATE LOOSE SANDY SOILS.

DUE TO THESE LIMITATIONS, THE DEPTHS SHOWN MAY BE AN OVER-ESTIMATION OR UNDER-ESTIMATION OF THE ACTUAL DEPTH OF ORGANIC SOILS.

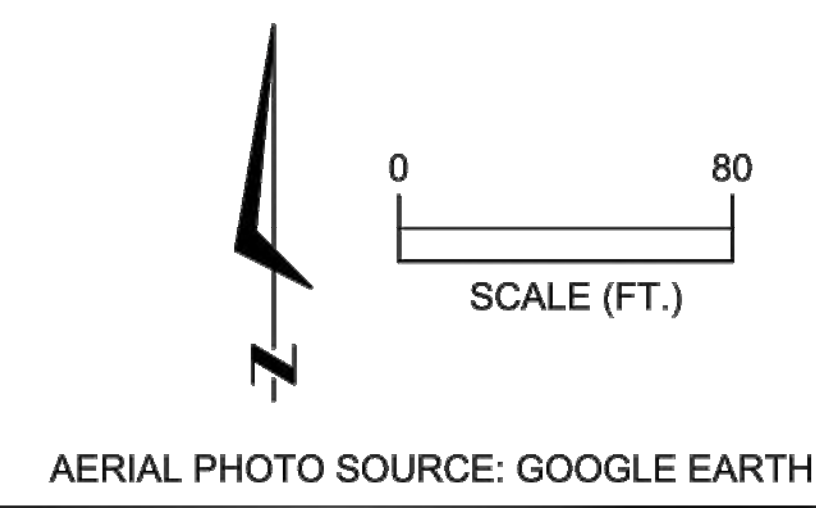
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LEGEND

- APPROX. HAND AUGER BORING LOCATION PREFORMED 5/2/2023
- APPROXIMATE PROBE LOCATION SHOWING APPROXIMATE DEPTH OF MUCK (FEET)
- W = WATER
- M = MUCK
- LS = LOOSE SAND (POSSIBLE ORGANICS)



R E V I S I O N S			
DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT

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Tel. 407.487.2594 www.poulosandbennett.com
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**OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)**

**CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
MUCK PROBE AND LOCATIONS**

SHEET
NO.
56A

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KEY TO BORING LOGS

SYMBOLS AND ABBREVIATIONS

SYMBOL	DESCRIPTION
N-Value	No. of Blows of a 140-lb. Weight Falling 30 Inches Required to Drive a Standard Spoon 1 Foot
WOR	Weight of Drill Rods
WOH	Weight of Drill Rods and Hammer
	Sample from Auger Cuttings
	Standard Penetration Test Sample
	Thin-wall Shelby Tube Sample (Undisturbed Sampler Used)
RQD	Rock Quality Designation
	Stabilized Groundwater Level
	Seasonal High Groundwater Level (also referred to as the W.S.W.T.)
NE	Not Encountered
GNE	Groundwater Not Encountered
BT	Boring Terminated
-200 (%)	Fines Content or % Passing No. 200 Sieve
MC (%)	Moisture Content
LL	Liquid Limit (Atterberg Limits Test)
PI	Plasticity Index (Atterberg Limits Test)
NP	Non-Plastic (Atterberg Limits Test)
K	Coefficient of Permeability
Org. Cont.	Organic Content
G.S. Elevation	Ground Surface Elevation

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS	GROUP SYMBOLS	TYPICAL NAMES		
COARSE GRAINED SOILS More than 50% retained on the No. 200 sieve*	GRAVELS 50% or more of coarse fraction retained on No. 4 sieve	CLEAN GRAVELS	GW	Well-graded gravels and gravel-sand mixtures; little or no fines
		GRAVELS WITH FINES	GP	Poorly graded gravels and gravel-sand mixtures; little or no fines
	SANDS More than 50% of coarse fraction passes No. 4 sieve	CLEAN SANDS 5% or less passing No. 200 sieve	GM	Silty gravels and gravel-sand-silt mixtures
			GC	Clayey gravels and gravel-sand-clay mixtures
		SANDS with 12% or more passing No. 200 sieve	SW**	Well-graded sands and gravelly sands; little or no fines
			SP**	Poorly graded sands and gravelly sands; little or no fines
FINE-GRAINED SOILS 50% or more passes the No. 200 sieve*	SILTS AND CLAYS Liquid limit 50% or less	SM**	Silty sands; sand-silt mixtures	
		SC**	Clayey sands; sand-clay mixtures	
		ML	Inorganic silts, very fine sands, rock flour; silty or clayey fine sands	
	SILTS AND CLAYS Liquid limit greater than 50%	CL	Inorganic clays of low to medium plasticity; gravelly clays; sandy clays; lean clays	
		OL	Organic silts and organic silty clays of low plasticity	
		MH	Inorganic silts; micaceous or diatomaceous fine sands or silts; elastic silts	
		CH	Inorganic clays of low to high plasticity; fat clays	
	SILTS AND CLAYS Liquid limit greater than 50%	OH	Organic clays of medium to high plasticity	
		PT	Peat, muck and other highly organic soils	

*Based on the material passing the 3-inch (75 mm) sieve
** Use dual symbol (such as SP-SM and SP-SC) for soils with more than 5% but less than 12% passing the No. 200 sieve

RELATIVE DENSITY
(Sands and Gravels)

Very loose – Less than 4 Blows/Foot
Loose – 4 to 10 Blows/Foot
Medium Dense – 11 to 30 Blows/Foot
Dense – 31 to 50 Blows/Foot
Very Dense – More than 50 Blows/Foot

CONSISTENCY
(Sils and Clays)

Very Soft – Less than 2 Blows/Foot
Soft – 2 to 4 Blows/Foot
Firm – 5 to 8 Blows/Foot
Stiff – 9 to 15 Blows/Foot
Very Stiff – 16 to 30 Blows/Foot
Hard – More than 30 Blows/Foot

RELATIVE HARDNESS
(Limestone)

Soft – 100 Blows for more than 2 Inches
Hard – 100 Blows for less than 2 Inches

MODIFIERS

These modifiers Provide Our Estimate of the Amount of Minor Constituents (Silt or Clay Size Particles) in the Soil Sample

Trace – 5% or less
With Silt or With Clay – 6% to 11%
Silty or Clayey – 12% to 30%
Very Silty or Very Clayey – 31% to 50%

These Modifiers Provide Our Estimate of the Amount of Organic Components in the Soil Sample

Trace – Less than 3%
Few – 3% to 4%
Some – 5% to 8%
Many – Greater than 8%

These Modifiers Provide Our Estimate of the Amount of Other Components (Shell, Gravel, Etc.) in the Soil Sample

Trace – 5% or less
Few – 6% to 12%
Some – 13% to 30%
Many – 31% to 50%

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION



Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

ROADWAY SOIL BORINGS

SHEET NO.

57

Z:\2017\17-042 TAMISTOCK - SUNBRIDGE\CHILDS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-04208-CO&M-RSS

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE FACILITY AS CONSTRUCTED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS. THE DEVELOPER DOES IT UNDER THE DEVELOPER'S RESPONSIBILITY TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE DRAWINGS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTIONS OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



**UNIVERSAL ENGINEERING SCIENCES
BORING LOG**

PROJECT NO.: 0130.1700290.0013
REPORT NO.: 1765631.V3
PAGE: B-2.1

PROJECT: LIMITED GEOTECHNICAL EXPLORATION
CYRILS DRIVE ROADWAY WIDENING
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **CD-01** STA 13+66.05 LT SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: POULOS & BENNETT, INC.

G.S. ELEVATION (ft): N.S. DATE STARTED: 5/6/20
WATER TABLE (ft): 6.0 DATE FINISHED: 5/6/20
DATE OF READING: 5/6/2020 DRILLED BY: ORL - JB/CM/JM
EST. SHGWT (ft): 3.0 TYPE OF SAMPLING: ASTM D 1586

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, S.W. = STANDING WATER

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT. (%)
									LL	PI		
0						Dark brown fine SAND with silt [SP-SM]						
						-- red brown						
5						-- medium dense						
6-9-8		17				Medium dense brown fine SAND [SP]						
8-9-8		17										
10		4-5-7	12									
15		5-7-9	16			BORING TERMINATED AT 15.0 FEET						
20												

W-10988.GPJ



**UNIVERSAL ENGINEERING SCIENCES
BORING LOG**

PROJECT NO.: 0130.1700290.0013
REPORT NO.: 1765631.V3
PAGE: B-2.2

PROJECT: LIMITED GEOTECHNICAL EXPLORATION
CYRILS DRIVE ROADWAY WIDENING
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **CD-02** STA 17+03.79 LT SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: POULOS & BENNETT, INC.

G.S. ELEVATION (ft): N.S. DATE STARTED: 5/6/20
WATER TABLE (ft): 3.5 DATE FINISHED: 5/6/20
DATE OF READING: 5/6/2020 DRILLED BY: ORL - JB/CM/JM
EST. SHGWT (ft): 0.5 TYPE OF SAMPLING: ASTM D 1586

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, S.W. = STANDING WATER

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT. (%)
									LL	PI		
0						Mix light grey dark brown fine SAND [SP]						
						-- very light grey						
5						-- loose, dark brown						
3-3-5		8				-- medium dense						
6-7-9		16										
10		6-6-9	15									
15		7-5-4	9			-- loose, brown						
20						BORING TERMINATED AT 15.0 FEET						

W-10988.GPJ

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT
Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

ROADWAY SOIL BORINGS

SHEET NO.

58

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE FACILITY AS CONSTRUCTED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS. THE DEVELOPER DOES NOT RELY ON THE BOARD OF COUNTY COMMISSIONERS TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE PLANS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTIONS OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



**UNIVERSAL ENGINEERING SCIENCES
BORING LOG**

PROJECT NO.: 0130.1700290.0013
REPORT NO.: 1765631.V3
PAGE: B-2.3

PROJECT: LIMITED GEOTECHNICAL EXPLORATION
CYRILS DRIVE ROADWAY WIDENING
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **CD-03** STA 20+71.85 LT SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: POULOS & BENNETT, INC.

G.S. ELEVATION (ft): N.S. DATE STARTED: 5/6/20
WATER TABLE (ft): 4.0 DATE FINISHED: 5/6/20

LOCATION: SEE BORING LOCATION PLAN

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, S.W. = STANDING WATER

DATE OF READING: 5/6/2020 DRILLED BY: ORL - JB/CM/JM
EST. SHGWT (ft): 1.0 TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT. (%)
									LL	PI		
0						Dark brown fine SAND with silt [SP-SM]						
5		4-3-2	5			-- loose						
		1-1-1	2			-- very loose						
		3-3-3	6			-- loose						
10												
						-- medium dense, brown						
15		4-7-6	13			BORING TERMINATED AT 15.0 FEET						

W-10988.GPJ



**UNIVERSAL ENGINEERING SCIENCES
BORING LOG**

PROJECT NO.: 0130.1700290.0013
REPORT NO.: 1765631.V3
PAGE: B-2.4

PROJECT: LIMITED GEOTECHNICAL EXPLORATION
CYRILS DRIVE ROADWAY WIDENING
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **CD-04** STA 25+65.57 RT SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: POULOS & BENNETT, INC.

G.S. ELEVATION (ft): N.S. DATE STARTED: 1/14/21
WATER TABLE (ft): 2.5 DATE FINISHED: 1/14/21

LOCATION: SEE BORING LOCATION PLAN

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, S.W. = STANDING WATER

DATE OF READING: 1/14/2021 DRILLED BY: ORL - DW/DM
EST. SHGWT (ft): S.W. TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT. (%)
									LL	PI		
0						Very dark brown silty fine SAND with trace organics [SM]						
5						Mix brown fine SAND with silt [SP-SM]		22				3
						-- loose, grey						
		2-3-3	6			-- brown grey						
		3-4-4	8									
10		5-3-2	5			Loose brown grey silty fine SAND with trace organics [SM]						
								37				4
						Loose brown fine SAND with silt [SP-SM]						
15		3-3-4	7									
						-- very dark brown						
20		3-2-3	5			BORING TERMINATED AT 20.0 FEET						

W-10988.GPJ

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT

Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
ROADWAY SOIL BORINGS

SHEET NO.
59

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE FACILITY AS CONSTRUCTED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS. THE DEVELOPER IS RESPONSIBLE TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE DRAWINGS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTIONS OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



**UNIVERSAL ENGINEERING SCIENCES
BORING LOG**

PROJECT NO.: 0130.1700290.0013
REPORT NO.: 1765631.V3
PAGE: B-2.5

PROJECT: LIMITED GEOTECHNICAL EXPLORATION
CYRILS DRIVE ROADWAY WIDENING
OSCEOLA COUNTY, FLORIDA
CLIENT: POULOS & BENNETT, INC.
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, S.W. = STANDING WATER

BORING I.D.: **CD-05** STA 30+52.37 LT SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:
G.S. ELEVATION (ft): N.S. DATE STARTED: 1/18/21
WATER TABLE (ft): 2.9 DATE FINISHED: 1/18/21
DATE OF READING: 1/18/2021 DRILLED BY: ORL - DW
EST. SHGWT (ft): 0.5 TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT. (%)
									LL	PI		
0						2" ASPHALT						
						2.5" LIMEROCK BASE						
		16-26-37	63			Very dense dark grey brown fine SAND with sit [SP-SM]						
		9-13-12	25			-- medium dense, brown						
5		7-5-6	11			-- loose						
		5-5-4	9			BORING TERMINATED AT 7.0 FEET						
10												
15												
20												

W-10998.GPJ



**UNIVERSAL ENGINEERING SCIENCES
BORING LOG**

PROJECT NO.: 0130.1700290.0013
REPORT NO.: 1765631.V3
PAGE: B-2.6

PROJECT: LIMITED GEOTECHNICAL EXPLORATION
CYRILS DRIVE ROADWAY WIDENING
OSCEOLA COUNTY, FLORIDA
CLIENT: POULOS & BENNETT, INC.
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, S.W. = STANDING WATER

BORING I.D.: **CD-06** STA 35+56.31 LT SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:
G.S. ELEVATION (ft): N.S. DATE STARTED: 1/18/21
WATER TABLE (ft): > 7.0 DATE FINISHED: 1/18/21
DATE OF READING: 1/18/2021 DRILLED BY: ORL - DW/CM/TA
EST. SHGWT (ft): > 5.0 TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT. (%)
									LL	PI		
0						2" ASPHALT						
						2.5" LIMEROCK BASE						
		22-16-16	32			Dense dark red brown fine SAND [SP]						
		14-14-11	25			-- medium dense, light brown						
						-- red brown						
5		5-6-6	12			-- loose						
		7-5-4	9			BORING TERMINATED AT 7.0 FEET						
10												
15												
20												

W-10998.GPJ

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT
Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
ROADWAY SOIL BORINGS

SHEET NO.

60

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE FACILITY AS CONSTRUCTED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS. THE DEVELOPER DOES IT UNDER THE DEVELOPER'S RESPONSIBILITY TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE DRAWINGS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTIONS OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



**UNIVERSAL ENGINEERING SCIENCES
BORING LOG**

PROJECT NO.: 0130.1700290.0013
REPORT NO.: 1765631.V3
PAGE: B-2.7

PROJECT: LIMITED GEOTECHNICAL EXPLORATION
CYRILS DRIVE ROADWAY WIDENING
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **CD-07** STA 40+73.67 LT SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: POULOS & BENNETT, INC.

G.S. ELEVATION (ft): N.S. DATE STARTED: 1/14/21

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): 12.0 DATE FINISHED: 1/14/21

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, S.W. = STANDING WATER

DATE OF READING: 1/14/2021 DRILLED BY: ORL - DW/DM
EST. SHGWT (ft): > 10.0 TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT. (%)
									LL	PI		
0						Mix grey fine SAND [SP]						
						-- very light grey						
5						-- medium dense						
		4-6-5	11									
		5-6-5	11			-- grey						
10		6-8-11	19				2	5				
						-- dark grey						
15		7-7-9	16									
						-- dark brown						
20		12-13-16	29			BORING TERMINATED AT 20.0 FEET						

W-10988.GPJ



**UNIVERSAL ENGINEERING SCIENCES
BORING LOG**

PROJECT NO.: 0130.1700290.0013
REPORT NO.: 1765631.V3
PAGE: B-2.8

PROJECT: LIMITED GEOTECHNICAL EXPLORATION
CYRILS DRIVE ROADWAY WIDENING
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **CD-08** STA 45+74.84 LT SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: POULOS & BENNETT, INC.

G.S. ELEVATION (ft): N.S. DATE STARTED: 1/18/21

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): > 7.0 DATE FINISHED: 1/18/21

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, S.W. = STANDING WATER

DATE OF READING: 1/18/2021 DRILLED BY: ORL - DW/CM/TA
EST. SHGWT (ft): > 5.0 TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT. (%)
									LL	PI		
0						2" ASPHALT						
						2" LIMEROCK BASE						
						Very dense light brown fine SAND [SP]						
		19-24-32	56			-- dense, light grey brown						
		18-20-15	35			-- medium dense, light brown						
5		6-9-8	17			-- loose, very light grey						
		7-5-5	10			BORING TERMINATED AT 7.0 FEET						
10												
15												
20												

W-10988.GPJ

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT
Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
ROADWAY SOIL BORINGS

SHEET NO.

61

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE FACILITY AS CONSTRUCTED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS. THE DEVELOPER DOES IT UNDER THE DEVELOPER'S RESPONSIBILITY TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE DRAWINGS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTIONS OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



**UNIVERSAL ENGINEERING SCIENCES
BORING LOG**

PROJECT NO.: 0130.1700290.0013
REPORT NO.: 1765631.V3
PAGE: B-2.9

PROJECT: LIMITED GEOTECHNICAL EXPLORATION
CYRILS DRIVE ROADWAY WIDENING
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **CD-09** STA 50+72.90 LT SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: POULOS & BENNETT, INC. G.S. ELEVATION (ft): N.S. DATE STARTED: 1/18/21
LOCATION: SEE BORING LOCATION PLAN WATER TABLE (ft): > 7.0 DATE FINISHED: 1/18/21
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, S.W. = STANDING WATER DATE OF READING: 1/18/2021 DRILLED BY: ORL - DW
EST. SHGWT (ft): > 5.0 TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT. (%)
									LL	PI		
0						Very dense dark grey brown fine SAND [SP]						
		19-24-36	60			-- dense, grey brown						
		11-14-17	31			-- medium dense						
5		11-8-7	15			-- brown						
		8-7-6	13			BORING TERMINATED AT 7.0 FEET						
10												
15												
20												

W-10988.GPJ



**UNIVERSAL ENGINEERING SCIENCES
BORING LOG**

PROJECT NO.: 0130.1700290.0013
REPORT NO.: 1765631.V3
PAGE: B-2.10

PROJECT: LIMITED GEOTECHNICAL EXPLORATION
CYRILS DRIVE ROADWAY WIDENING
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **CD-10** STA 55+75.53 LT SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: POULOS & BENNETT, INC. G.S. ELEVATION (ft): N.S. DATE STARTED: 1/14/21
LOCATION: SEE BORING LOCATION PLAN WATER TABLE (ft): 8.0 DATE FINISHED: 1/14/21
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, S.W. = STANDING WATER DATE OF READING: 1/14/2021 DRILLED BY: ORL - DW/DM
EST. SHGWT (ft): 5.5 TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT. (%)
									LL	PI		
0						Dark grey fine SAND [SP]						
						-- grey						
5						-- loose	5	10				
		3-4-3	7			-- grey brown						
		3-4-4	8									
10		4-3-4	7									
15						-- medium dense, mix dark brown grey						
		6-7-6	13									
						Medium dense dark grey fine SAND with silt [SP-SM]						
20		9-11-16	27			BORING TERMINATED AT 20.0 FEET						

W-10988.GPJ

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT
Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

ROADWAY SOIL BORINGS

SHEET NO.

62

THIS APPROVAL IS SUBJECT TO SPECIFIC PERFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE FACILITY AS CONSTRUCTED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS. THE DEVELOPER DOES IT UNDER THE DEVELOPER'S RESPONSIBILITY TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE PLANS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTIONS OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



**UNIVERSAL ENGINEERING SCIENCES
BORING LOG**

PROJECT NO.: 0130.1700290.0013
REPORT NO.: 1765631.V3
PAGE: B-2.11

PROJECT: LIMITED GEOTECHNICAL EXPLORATION
CYRILS DRIVE ROADWAY WIDENING
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **CD-11** STA 60+77.92 LT SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: POULOS & BENNETT, INC. G.S. ELEVATION (ft): N.S. DATE STARTED: 1/18/21
LOCATION: SEE BORING LOCATION PLAN WATER TABLE (ft): 5.0 DATE FINISHED: 1/18/21
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, S.W. = STANDING WATER DATE OF READING: 1/18/2021 DRILLED BY: ORL - DW
EST. SHGWT (ft): 2.5 TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT. (%)
									LL	PI		
0						Dense dark grey brown fine SAND [SP]						
10-12-27		39		▽		-- medium dense, red brown						
10-13-10		23				-- light red brown						
5		6-7-5	12	▽		-- loose, dark red brown	7	24				
		4-3-4	7			BORING TERMINATED AT 7.0 FEET						
10												
15												
20												

W-10988.GPJ



**UNIVERSAL ENGINEERING SCIENCES
BORING LOG**

PROJECT NO.: 0130.1700290.0013
REPORT NO.: 1765631.V3
PAGE: B-2.12

PROJECT: LIMITED GEOTECHNICAL EXPLORATION
CYRILS DRIVE ROADWAY WIDENING
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **CD-12** STA 65+82.06 LT SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: POULOS & BENNETT, INC. G.S. ELEVATION (ft): N.S. DATE STARTED: 1/18/21
LOCATION: SEE BORING LOCATION PLAN WATER TABLE (ft): > 7.0 DATE FINISHED: 1/18/21
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, S.W. = STANDING WATER DATE OF READING: 1/18/2021 DRILLED BY: ORL - DW/CM/TA
EST. SHGWT (ft): > 5.0 TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT. (%)
									LL	PI		
0						2" ASPHALT 2" LIMEROCK BASE Dense grey brown fine SAND with silt [SP-SM]						
16-22-19		41				-- medium dense, dark red brown						
7-9-7		16										
5		6-8-10	18									
		11-9-7	16			BORING TERMINATED AT 7.0 FEET						
10												
15												
20												

W-10988.GPJ

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT
Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

ROADWAY SOIL BORINGS

SHEET NO.

63

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE FACILITY AS CONSTRUCTED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS. THE DEVELOPER DOES IT UNDER THE DEVELOPER'S RESPONSIBILITY TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE DRAWINGS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTIONS OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



**UNIVERSAL ENGINEERING SCIENCES
BORING LOG**

PROJECT NO.: 0130.1700290.0013
REPORT NO.: 1765631.V3
PAGE: B-2.13

PROJECT: LIMITED GEOTECHNICAL EXPLORATION
CYRILS DRIVE ROADWAY WIDENING
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **CD-13** STA 70+82.53 LT SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: POULOS & BENNETT, INC. G.S. ELEVATION (ft): N.S. DATE STARTED: 1/13/21
LOCATION: SEE BORING LOCATION PLAN WATER TABLE (ft): 2.5 DATE FINISHED: 1/13/21
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, S.W. = STANDING WATER DATE OF READING: 1/13/2021 DRILLED BY: ORL - DW/DM
EST. SHGWT (ft): S.W. TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT. (%)
									LL	PI		
0						Dark grey fine SAND with silt [SP-SM]						
						-- very dark grey						
						-- mix brown						
5						-- medium dense, dark brown	6	21				
		3-4-7	11									
		6-7-11	18			-- loose						
10		5-6-4	10									
15		4-4-6	10									
20		12-16-16	32			-- dense, brown						
						BORING TERMINATED AT 20.0 FEET						



**UNIVERSAL ENGINEERING SCIENCES
BORING LOG**

PROJECT NO.: 0130.1700290.0013
REPORT NO.: 1765631.V3
PAGE: B-2.14

PROJECT: LIMITED GEOTECHNICAL EXPLORATION
CYRILS DRIVE ROADWAY WIDENING
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **CD-14** STA 75+96.46 LT SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: POULOS & BENNETT, INC. G.S. ELEVATION (ft): N.S. DATE STARTED: 1/18/21
LOCATION: SEE BORING LOCATION PLAN WATER TABLE (ft): 5.0 DATE FINISHED: 1/18/21
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, S.W. = STANDING WATER DATE OF READING: 1/18/2021 DRILLED BY: ORL - DW/CM/TA
EST. SHGWT (ft): 2.5 TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT. (%)
									LL	PI		
0						2" ASPHALT						
						2" LIMEROCK BASE						
						Very dense dark grey brown fine SAND with silt [SP-SM]						
		22-26-34	60			-- dense, light brown						
		13-17-16	33			-- loose, very light brown						
5		8-5-3	8			-- dense, brown						
		8-15-16	31									
						BORING TERMINATED AT 7.0 FEET						
10												
15												
20												

Z:\2017\17-042 TAMISOCK - SUNBRIDGE\CYRILS DR\ARCS\OSCEOLA\17042-10208-CD&M-RSS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT
Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
ROADWAY SOIL BORINGS

SHEET NO.
64

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE FACILITY AS CONSTRUCTED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS. THE DEVELOPER DOES IT UNDER THE DEVELOPER'S RESPONSIBILITY TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE PLANS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTIONS OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



**UNIVERSAL ENGINEERING SCIENCES
BORING LOG**

PROJECT NO.: 0130.1700290.0013
REPORT NO.: 1765631.V3
PAGE: B-2.15

PROJECT: LIMITED GEOTECHNICAL EXPLORATION
CYRILS DRIVE ROADWAY WIDENING
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **CD-15** STA 81+09.10 LT SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: POULOS & BENNETT, INC.

G.S. ELEVATION (ft): N.S. DATE STARTED: 1/18/21
WATER TABLE (ft): 5.0 DATE FINISHED: 1/18/21

LOCATION: SEE BORING LOCATION PLAN

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, S.W. = STANDING WATER

DATE OF READING: 1/18/2021 DRILLED BY: ORL - DW
EST. SHGWT (ft): 2.5 TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT. (%)
									LL	PI		
0						2" ASPHALT						
						1.5" LIMEROCK BASE						
		7-9-11	20	▽		Medium dense dark brown fine SAND with silt [SP-SM]						
						-- light brown						
		10-13-10	23			-- brown						
5		9-7-9	16	▽		-- dark brown						
		7-9-8	17			BORING TERMINATED AT 7.0 FEET						

W-10988.GPJ



**UNIVERSAL ENGINEERING SCIENCES
BORING LOG**

PROJECT NO.: 0130.1700290.0013
REPORT NO.: 1765631.V3
PAGE: B-2.16

PROJECT: LIMITED GEOTECHNICAL EXPLORATION
CYRILS DRIVE ROADWAY WIDENING
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **CD-16** STA 86+27.60 LT SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: POULOS & BENNETT, INC.

G.S. ELEVATION (ft): N.S. DATE STARTED: 1/18/21
WATER TABLE (ft): 5.0 DATE FINISHED: 1/18/21

LOCATION: SEE BORING LOCATION PLAN

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, S.W. = STANDING WATER

DATE OF READING: 1/18/2021 DRILLED BY: ORL - DW/DM
EST. SHGWT (ft): 2.5 TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT. (%)
									LL	PI		
0						Dark grey fine SAND [SP]						
						-- mix grey						
						Mix grey fine SAND with silt [SP-SM]						
5				▽		-- medium dense, brown						
		4-5-6	11			-- loose						
		4-3-4	7			-- medium dense, dark brown, hard pan	6	20				
10		7-8-8	16									
						-- dense, very dark brown						
15		9-16-19	35									
						-- medium dense, brown						
20		10-13-16	29			BORING TERMINATED AT 20.0 FEET						

W-10988.GPJ

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT
Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
ROADWAY SOIL BORINGS

SHEET NO.

65

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE FACILITY AS CONSTRUCTED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS. THE DEVELOPER DOES IT UNDER THE DEVELOPER'S RESPONSIBILITY TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE DRAWINGS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTIONS OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



**UNIVERSAL ENGINEERING SCIENCES
BORING LOG**

PROJECT NO.: 0130.1700290.0013
REPORT NO.: 1765631.V3
PAGE: B-2.17

PROJECT: LIMITED GEOTECHNICAL EXPLORATION
CYRILS DRIVE ROADWAY WIDENING
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **CD-17** STA 91+46.66 LT SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: POULOS & BENNETT, INC.

G.S. ELEVATION (ft): N.S. DATE STARTED: 1/18/21
WATER TABLE (ft): 6.0 DATE FINISHED: 1/18/21

LOCATION: SEE BORING LOCATION PLAN

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, S.W. = STANDING WATER

DATE OF READING: 1/18/2021 DRILLED BY: ORL - DW/CM/TA
EST. SHGWT (ft): 3.5 TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT. (%)
									LL	PI		
0						2.5" ASPHALT						
						2" LIMEROCK BASE						
						Very dense grey brown fine SAND with silt [SP-SM]						
		26-29-32	61			-- dense, light grey brown						
		14-17-14	31	▽		-- medium dense, dark red brown						
5		6-8-9	17	▽		-- loose, grey brown						
		6-5-5	10			BORING TERMINATED AT 7.0 FEET						
10												
15												
20												

W-10988.GPJ



**UNIVERSAL ENGINEERING SCIENCES
BORING LOG**

PROJECT NO.: 0130.1700290.0013
REPORT NO.: 1765631.V3
PAGE: B-2.18

PROJECT: LIMITED GEOTECHNICAL EXPLORATION
CYRILS DRIVE ROADWAY WIDENING
OSCEOLA COUNTY, FLORIDA

BORING I.D.: **CD-18** STA 96+64.58 LT SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: POULOS & BENNETT, INC.

G.S. ELEVATION (ft): N.S. DATE STARTED: 1/18/21
WATER TABLE (ft): 5.3 DATE FINISHED: 1/18/21

LOCATION: SEE BORING LOCATION PLAN

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, S.W. = STANDING WATER

DATE OF READING: 1/18/2021 DRILLED BY: ORL - DW/CM/TA
EST. SHGWT (ft): 3.0 TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT. (%)
									LL	PI		
0						2" ASPHALT						
						2" LIMEROCK BASE						
						Medium dense dark grey brown fine SAND [SP]						
		10-13-13	26	▽		-- dark red brown						
		11-13-16	29			Medium dense brown fine SAND with silt [SP-SM]						
5		10-9-9	18	▽								
		5-8-7	15			BORING TERMINATED AT 7.0 FEET						
10												
15												
20												

W-10988.GPJ

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT

Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

ROADWAY SOIL BORINGS

SHEET NO.

66

Z:\2017\17-042 TAMISOCK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-16208-16208-CD&M-RSS

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE FACILITY AS CONSTRUCTED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS. THE DEVELOPER DOES NOT WAIVE THE DEVELOPER'S RESPONSIBILITY TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE DRAWINGS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTIONS OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



UES BORING LOG

PROJECT NO.: 0130.2300163.0000
REPORT NO.: 2019200
PAGE: B-2.1

PROJECT: GEOTECHNICAL EXPLORATION
CYRILS DRIVE - ZUNI ROAD ADDITIONAL BORINGS
ST. CLOUD, FLORIDA

BORING I.D.: **B-01** SHEET: **1 of 1**
SECTION: 24 TOWNSHIP: 20 RANGE: 27

CLIENT: POULOS & BENNETT

G.S. ELEVATION (ft): N.S. DATE STARTED: 5/8/23

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): NE DATE FINISHED: 5/8/23

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

DATE OF READING: 5/8/2023 DRILLED BY:
EST. SHGWT (ft): 7 TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT. (%)
									LL	PI		
0						Loose grey fine SAND [SP]						
3-4-6-6		10				-- medium dense, light grey						
5-5-6-3		11				-- loose						
5												
3-4-4-4		8										
4-3-4-4		7										
10		4-5-5-6	10			BORING TERMINATED AT 10.0 FEET						
15												

W-12790.GPJ



UES BORING LOG

PROJECT NO.: 0130.2300163.0000
REPORT NO.: 2019200
PAGE: B-2.2

PROJECT: GEOTECHNICAL EXPLORATION
CYRILS DRIVE - ZUNI ROAD ADDITIONAL BORINGS
ST. CLOUD, FLORIDA

BORING I.D.: **B-02** SHEET: **1 of 1**
SECTION: 24 TOWNSHIP: 20 RANGE: 27

CLIENT: POULOS & BENNETT

G.S. ELEVATION (ft): N.S. DATE STARTED: 5/8/23

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): 10 DATE FINISHED: 5/8/23

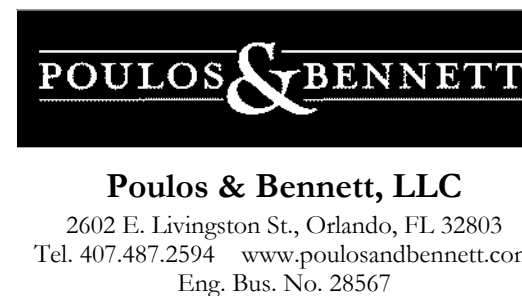
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

DATE OF READING: 5/8/2023 DRILLED BY:
EST. SHGWT (ft): 7 TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT. (%)
									LL	PI		
0						Light grey fine SAND [SP]						
5						-- loose						
5		2-3-3-3	6				1	3				
10		2-3-3-4	6			-- brown						
10		3-3-4-3	7			BORING TERMINATED AT 10.0 FEET						
15												

W-12790.GPJ

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

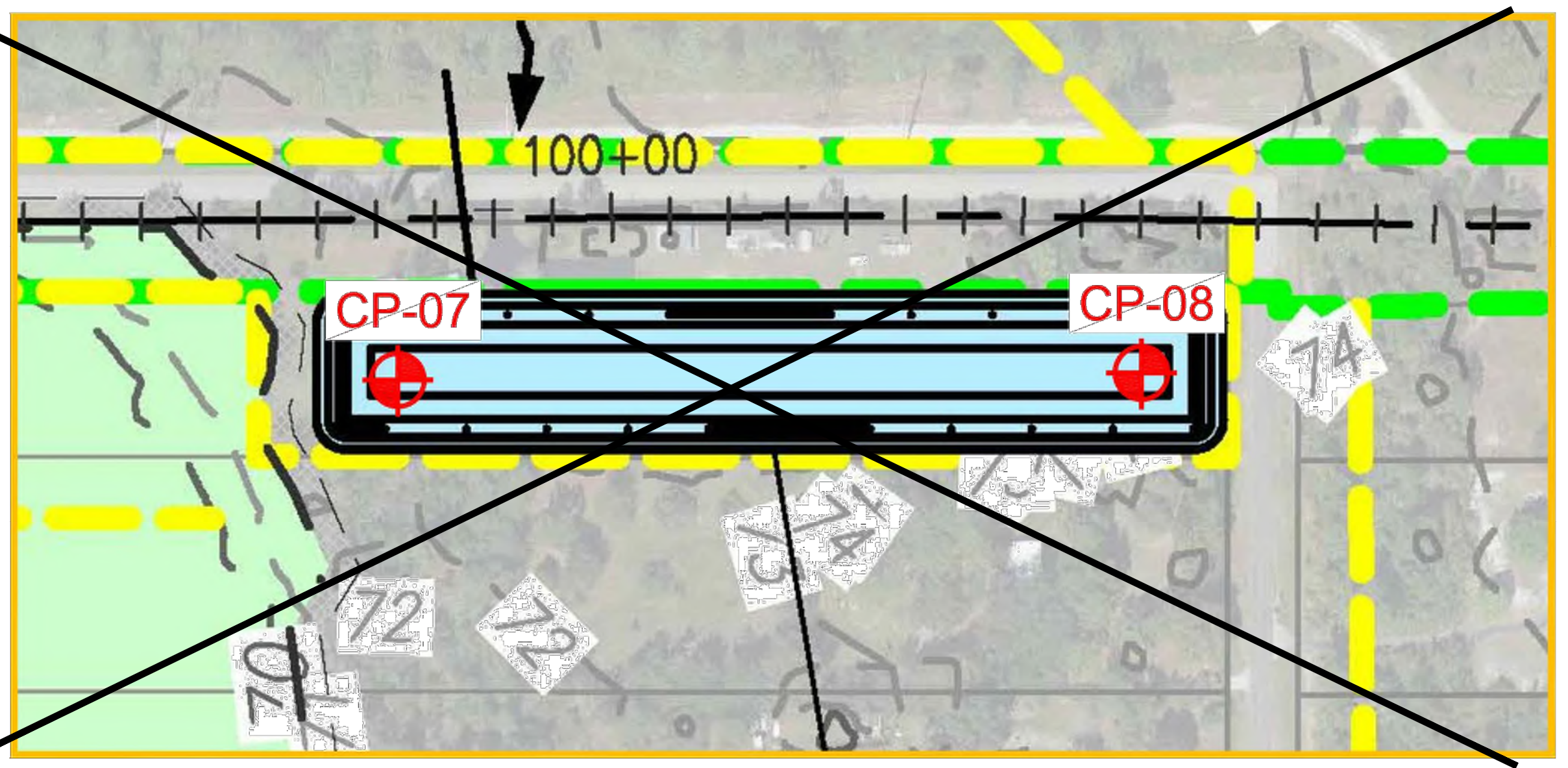
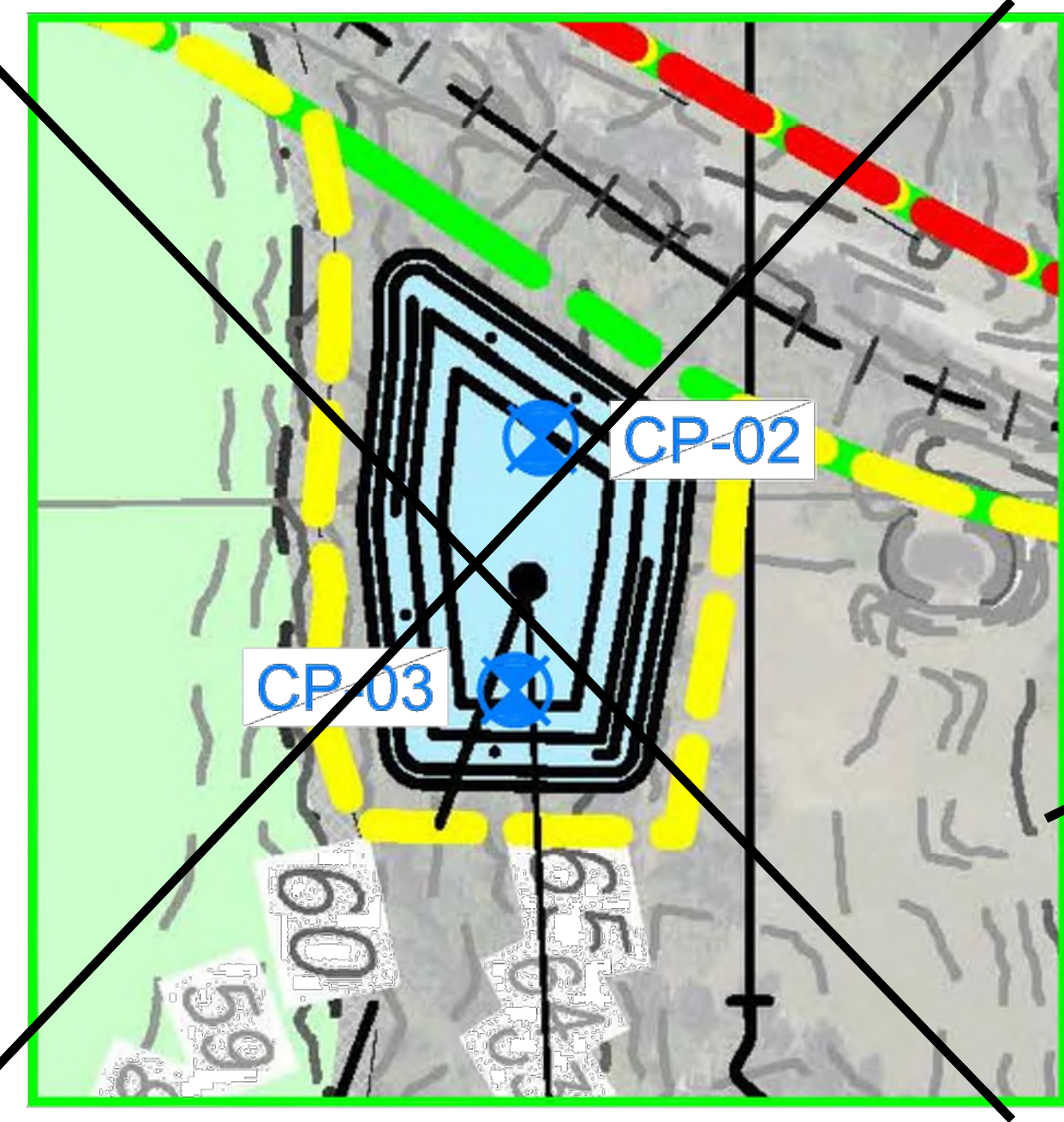
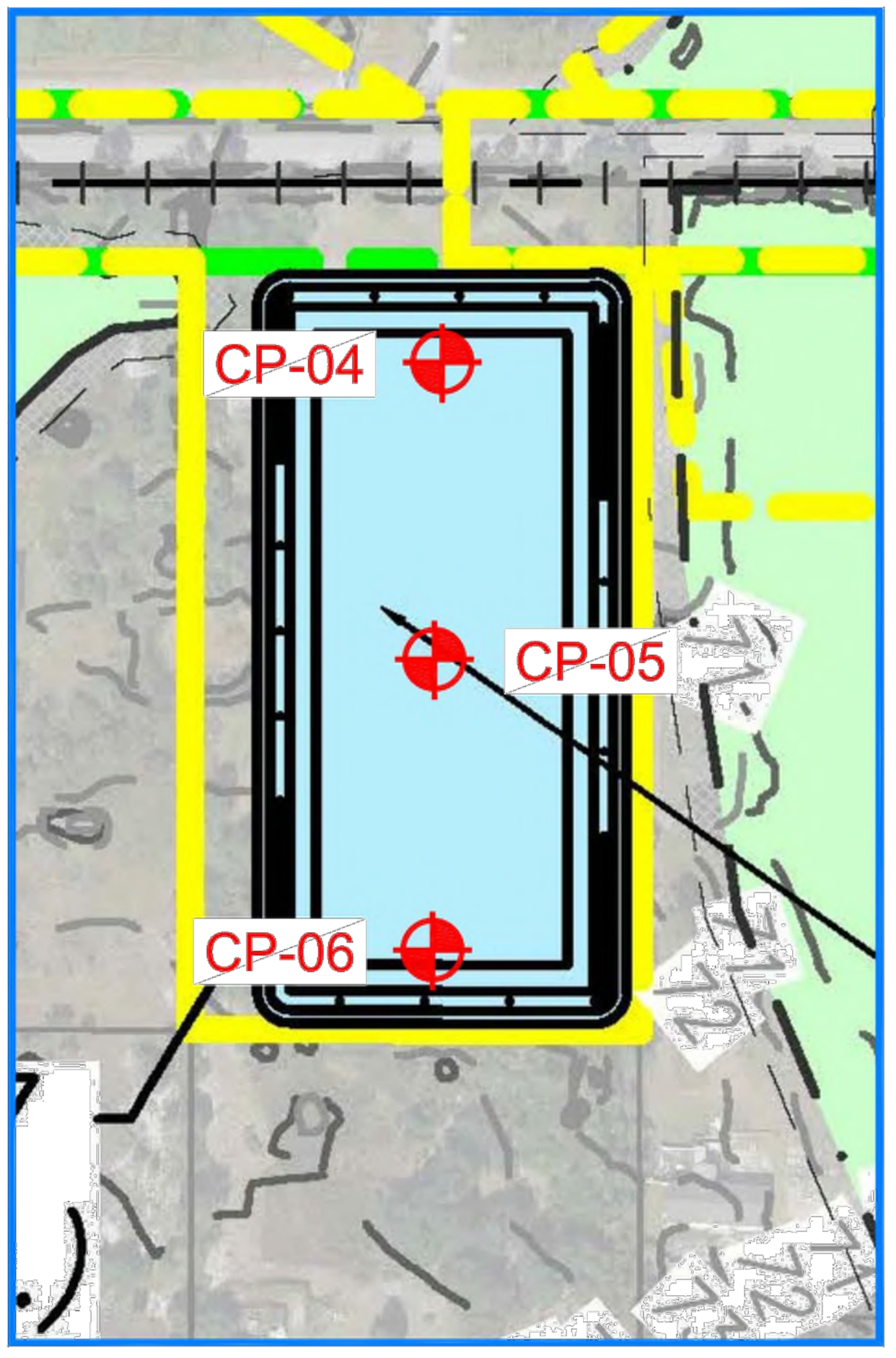
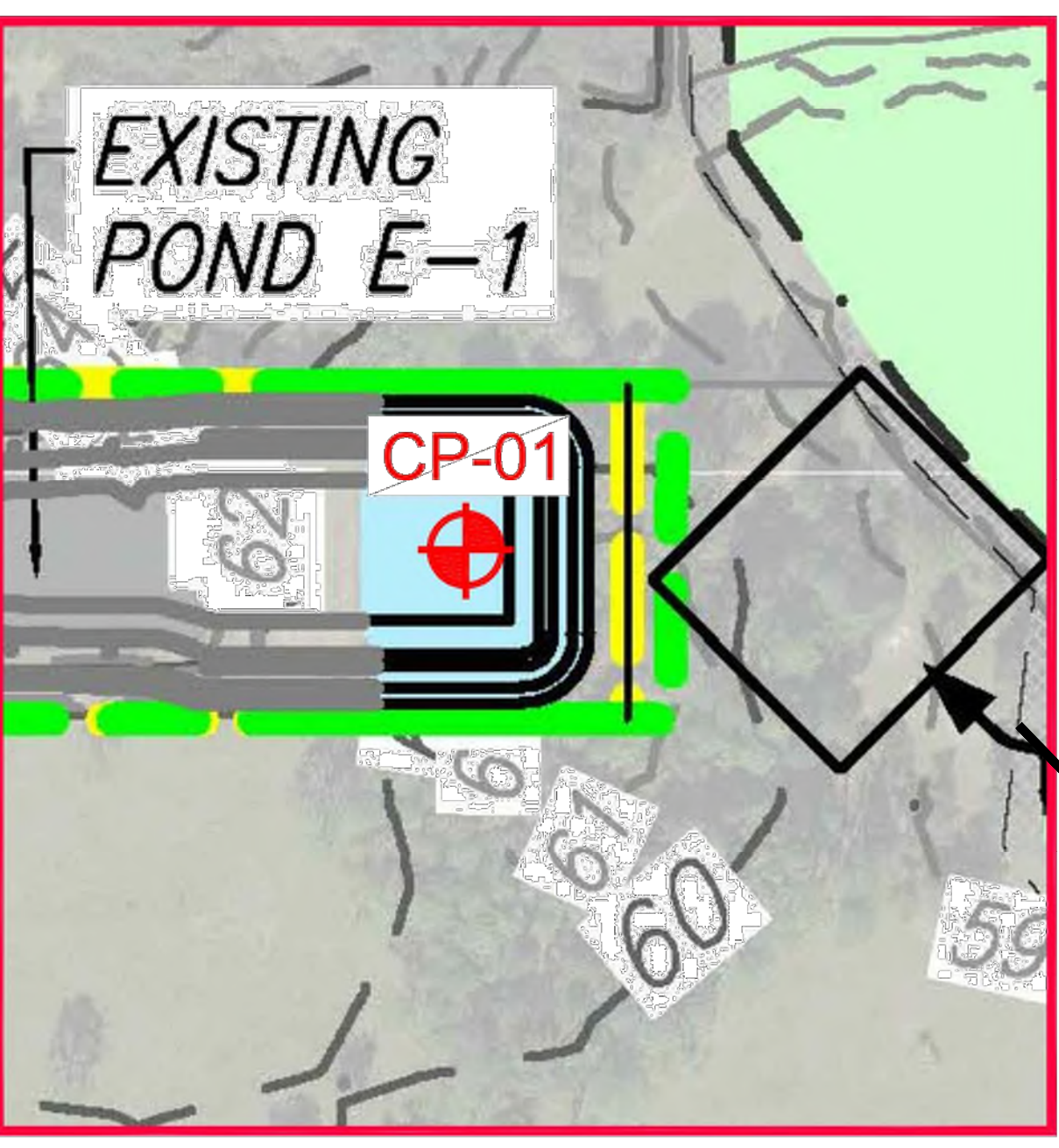
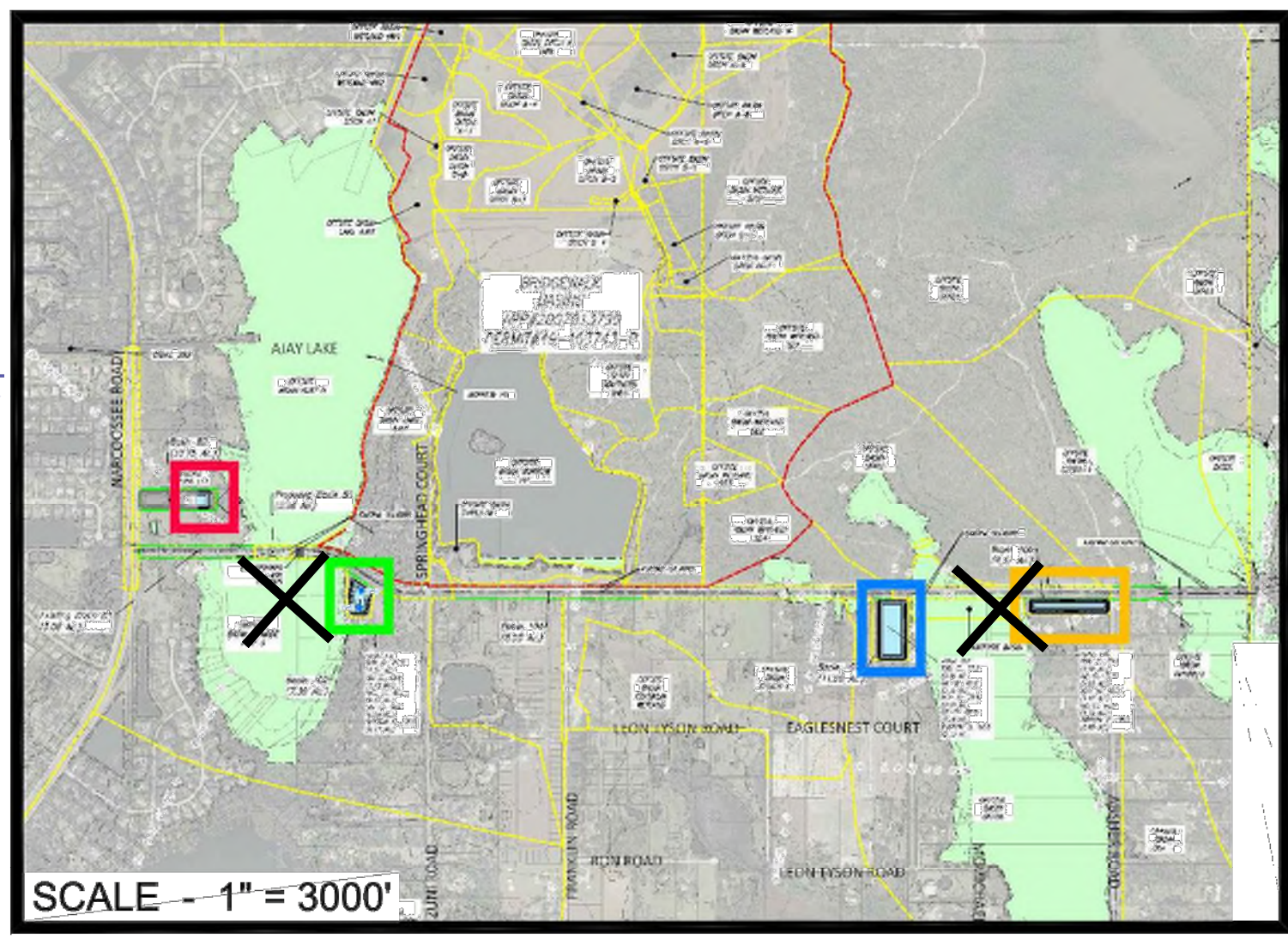
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
ROADWAY SOIL BORINGS

SHEET NO.

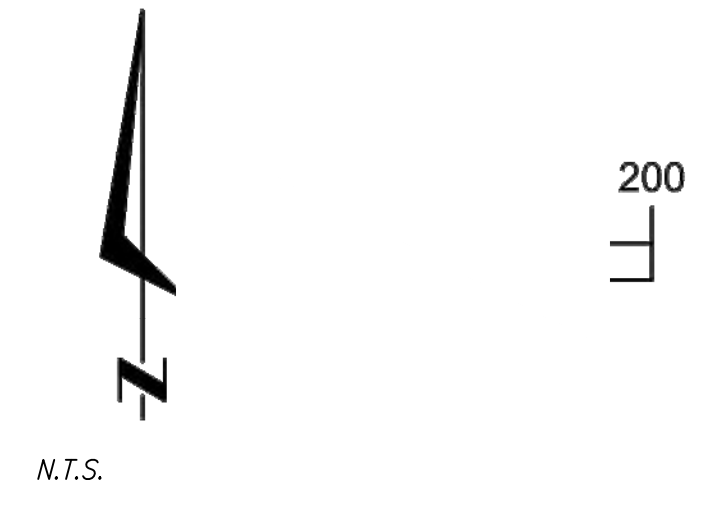
68A

THIS APPROVAL IS SUBJECT TO SPECIFIC PERFORMANCE BY THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE REVIEWER TO CORRECT ANY DEFECTS IN THE PLANS OR THE FACILITY AS CONSTRUCTED WHICH RESULT IN A FAILURE TO MEET APPLICABLE REQUIREMENTS. THE REVIEWER DOES NOT WARRANT THAT THE REVIEWER DOES IT REMAIN THE DEVELOPER'S RESPONSIBILITY TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE PLANS ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTION OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

NOT VALID WITHOUT ACTIVE CONSTRUCTION PERMIT



- LEGEND**
- APPROX. STANDARD PENETRATION TEST BORING LOCATION (SPT) PERFORMED 4/16/2021
 - BORINGS NOT PERFORMED PER CLIENT'S REQUEST

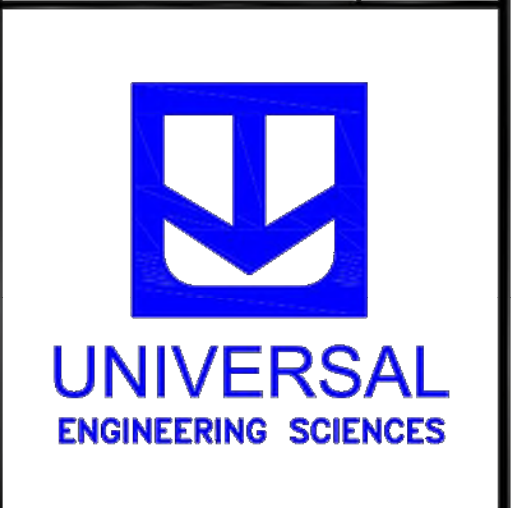


21-0230-01

FOR: POULOS & BENNETT			
DRAWN BY: N.F.	DATE: 4-19-2021		
CHECKED BY: G.P.	DATE: 04.26.2021		
REPORT NO: 1861197	SCALE: AS SHOWN		
PROJECT NO: 0130.1700290.0013			

LIMITED GEOTECHNICAL EXPLORATION
CYRILS DRIVE ROADWAY WIDENING - PONDS
OSCEOLA COUNTY, FLORIDA

BORING LOCATION PLAN



PAGE NO: **B-2**

THIS DRAWING CREATED USING PLAN PROVIDED BY CLIENT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT

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 2602 E. Livingston St., Orlando, FL 32803
 Tel. 407.487.2594 www.poulosandbennett.com
 Eng. Bus. No. 28567

OSCEOLA COUNTY
 PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
 ABSHER ROAD - ROAD WIDENING

POND SOIL BORINGS

SHEET
 NO.
 69

UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.1700290.0013
 REPORT NO.: 1861197
 PAGE: B-2.1

PROJECT: LIMITED GEOTECHNICAL EXPLORATION
 CYRILS DRIVE ROADWAY WIDENING - PONDS
 OSCEOLA COUNTY, FLORIDA

BORING I.D.: **CP-01**
 SECTION: TOWNSHIP: RANGE: SHEET: **1 of 1**

CLIENT: POULOS & BENNETT

G.S. ELEVATION (ft): N.S. DATE STARTED: 4/16/21

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): 5.5 DATE FINISHED: 4/16/21

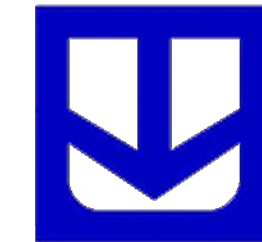
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

DATE OF READING: 4/16/2021 DRILLED BY: ORL - JB/WR
 EST. SHGWT (ft): 2.5 TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT. (%)
									LL	PI		
0						Loose dark brown silty fine SAND & some organics [SM]						
		4-4-4	8	▽								
		3-3-2	5			-- very loose						
5		2-1-2	3	▼			12	30				9
		1-1-1	2			Very loose dark brown fine SAND with silt [SP-SM]						
		1-1-2	3			-- brown	6	22				
						-- loose						
10		2-3-3	6									
						-- medium dense, dark red brown						
15		6-11-11	22									
						-- light brown						
20		8-13-14	27									
25		5-7-10	17									
						BORING TERMINATED AT 25.0 FEET						

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT
 Poulos & Bennett, LLC
 2602 E. Livingston St., Orlando, FL 32803
 Tel. 407.487.2594 www.poulosandbennett.com
 Eng. Bus. No. 28567



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.1700290.0013
 REPORT NO.: 1861197
 PAGE: B-2.2

PROJECT: LIMITED GEOTECHNICAL EXPLORATION
 CYRILS DRIVE ROADWAY WIDENING - PONDS
 OSCEOLA COUNTY, FLORIDA

BORING I.D.: **CP-04**
 SECTION: TOWNSHIP: RANGE: SHEET: **1 of 1**

CLIENT: POULOS & BENNETT

G.S. ELEVATION (ft): N.S. DATE STARTED: 4/16/21

LOCATION: SEE BORING LOCATION PLAN

WATER TABLE (ft): 4.0 DATE FINISHED: 4/16/21

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

DATE OF READING: 4/16/2021 DRILLED BY: ORL - JB/WR
 EST. SHGWT (ft): 1.0 TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT. (%)
									LL	PI		
0						Medium dense grey brown fine SAND with silt and trace organics [SP-SM]						
		4-7-7	14	▽		-- dark brown						
		7-6-7	13	▼								
5		6-5-7	12					28				3
		4-5-9	14									
		4-5-7	12									
10		5-5-8	13									
						-- dense						
15		13-22-25	47				6	24				
20		15-19-23	42									
						-- medium dense						
25		12-12-13	25									
						BORING TERMINATED AT 25.0 FEET						

OSCEOLA COUNTY
 PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
 ABSHER ROAD - ROAD WIDENING

POND SOIL BORINGS

SHEET NO.
 70

Z:\2017\17-042 TAVISOCK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-RSS



THIS APPROVAL IS SPECIFIC TO THE PROJECT AND SITE DESCRIBED HEREIN. IT IS NOT VALID FOR ANY OTHER PROJECT OR SITE. THE APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.1700290.0013
REPORT NO.: 1861197
PAGE: B-2.3

PROJECT: LIMITED GEOTECHNICAL EXPLORATION
CYRILS DRIVE ROADWAY WIDENING - PONDS
OSCEOLA COUNTY, FLORIDA

BORING I.D.: CP-05
SECTION: TOWNSHIP: RANGE:

CLIENT: POULOS & BENNETT

LOCATION: SEE BORING LOCATION PLAN

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

G.S. ELEVATION (ft): N.S. DATE STARTED: 4/16/21
WATER TABLE (ft): 5.0 DATE FINISHED: 4/16/21
DATE OF READING: 4/16/2021 DRILLED BY: ORL - JB/WR
EST. SHGWT (ft): 2.0 TYPE OF SAMPLING: ASTM D 1586

SHEET: 1 of 1

DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT. (%)
									LL	PI		
0						Loose dark brown fine SAND [SP]						
3-4-4		8		▽		Medium dense light brown fine SAND with silt [SP-SM]						
3-5-6		11										
5		19		▼		-- brown	6	18				
9-12-11		23				-- dark brown						
8-9-12		21										
10-12-12		24										
15		41-50/4"	50/4"			-- very dense						
20		50/4"	50/4"									
25		12-14-17	31			-- red brown						
BORING TERMINATED AT 25.0 FEET												

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Poulos & Bennett, LLC
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Eng. Bus. No. 28567



UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.1700290.0013
REPORT NO.: 1861197
PAGE: B-2.4

PROJECT: LIMITED GEOTECHNICAL EXPLORATION
CYRILS DRIVE ROADWAY WIDENING - PONDS
OSCEOLA COUNTY, FLORIDA

BORING I.D.: CP-06
SECTION: TOWNSHIP: RANGE:

CLIENT: POULOS & BENNETT

LOCATION: SEE BORING LOCATION PLAN

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

G.S. ELEVATION (ft): N.S. DATE STARTED: 4/16/21
WATER TABLE (ft): 4.0 DATE FINISHED: 4/16/21
DATE OF READING: 4/16/2021 DRILLED BY: ORL - JB/WR
EST. SHGWT (ft): 1.0 TYPE OF SAMPLING: ASTM D 1586

SHEET: 1 of 1

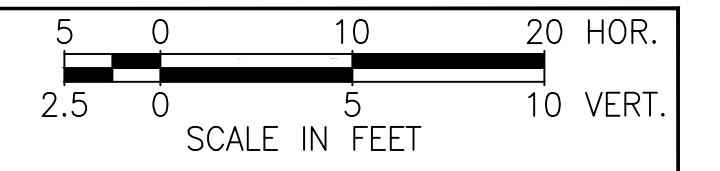
DEPTH (FT.)	SAMPLING	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS		K (FT/DAY)	ORG. CONT. (%)
									LL	PI		
0						Loose grey brown fine SAND [SP]						
2-2-3		5		▽		Loose dark brown silty fine SAND with trace organics [SM]						
3-4-5		9		▼								
5		15				Medium dense dark brown fine SAND with silt [SP-SM]						
9-9-10		19					6	21				
7-8-9		17										
9-9-11		20										
15		3-4-5	9			-- loose, dark red brown						
20		5-9-10	19			-- medium dense, red brown						
25		9-13-13	26			-- light brown						
BORING TERMINATED AT 25.0 FEET												

<p>Poulos & Bennett, LLC 2602 E. Livingston St., Orlando, FL 32803 Tel. 407.487.2594 www.poulosandbenett.com Eng. Bus. No. 28567</p>	<p>OSCEOLA COUNTY PROJECT NO. (SDP23-0132)</p>	<p>CYRILS DRIVE / NARCOOSSEE ROAD TO ABSHER ROAD - ROAD WIDENING</p> <p>POND SOIL BORINGS</p>	<p>SHEET NO. 71</p>
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Z:\2017\17-042 TAVISOCK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-RSS

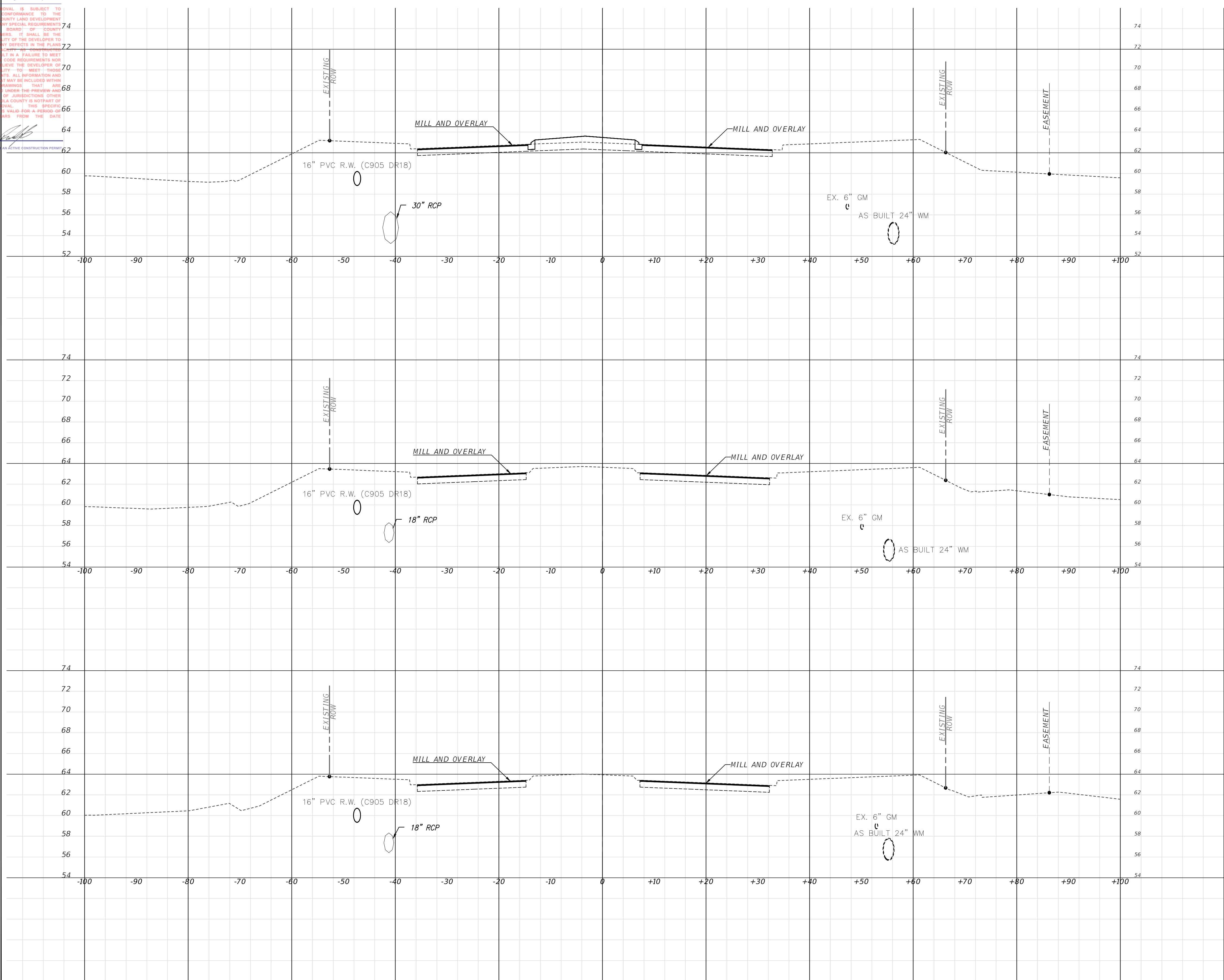
THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLAN OR THE INFORMATION PROVIDED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS. THE DEVELOPER DOES NOT BELIEVE THE DEVELOPER OR RESPONSIBILITY TO MEET THROUGH REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE DRAWINGS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTION OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



SUBSOIL EXCAVATION TO BE QUANTIFIED BY CONTRACTOR, SEE SHEET 56 FOR MUCK PROBE DATA.
MUCK REMOVAL SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARDS, FDM SECTION 216.4.2 AND FDOT STANDARD PLANS 120-002.

Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

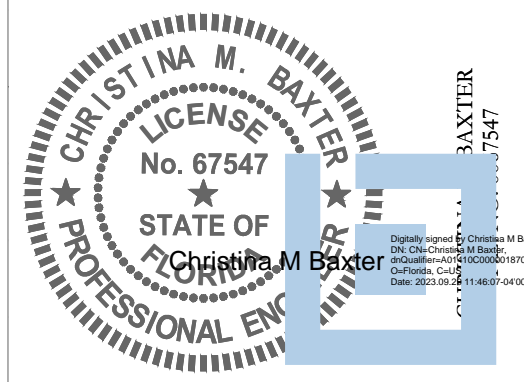


15+50

1	1	9	9
---	---	---	---

15+00

14+50



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DATE: September 29, 2023

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Eng. Bus. No. 28567

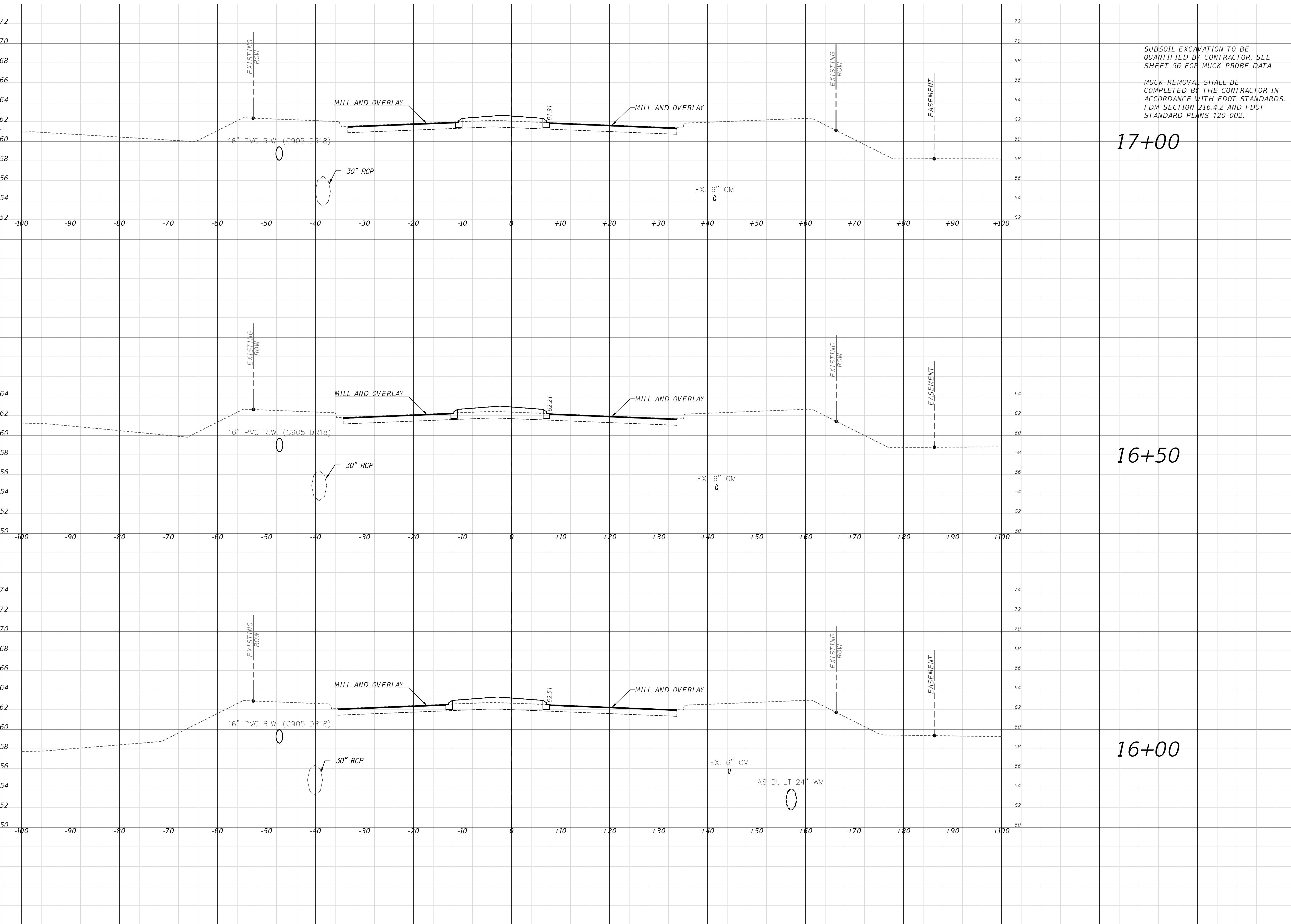
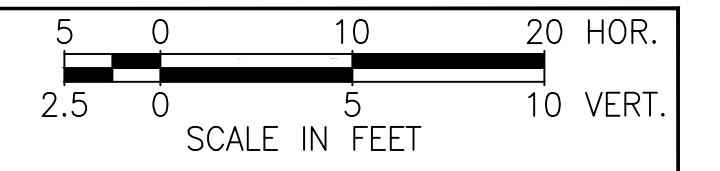
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

SHEET NO.	72
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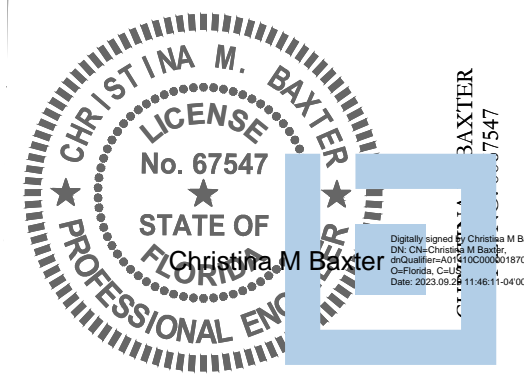
THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE INFORMATION PROVIDED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS FOR DOES IT BELIEVE THE DEVELOPER OR RESPONSIBILITY TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE DRAWINGS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTION OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



SUBSOIL EXCAVATION TO BE QUANTIFIED BY CONTRACTOR, SEE SHEET 56 FOR MUCK PROBE DATA
MUCK REMOVAL SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARDS, FDM SECTION 216.4.2 AND FDOT STANDARD PLANS 120-002.

Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
1	3	7	14		
1	3	8	16		
1	3	9	17		



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
02-26-2021			

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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

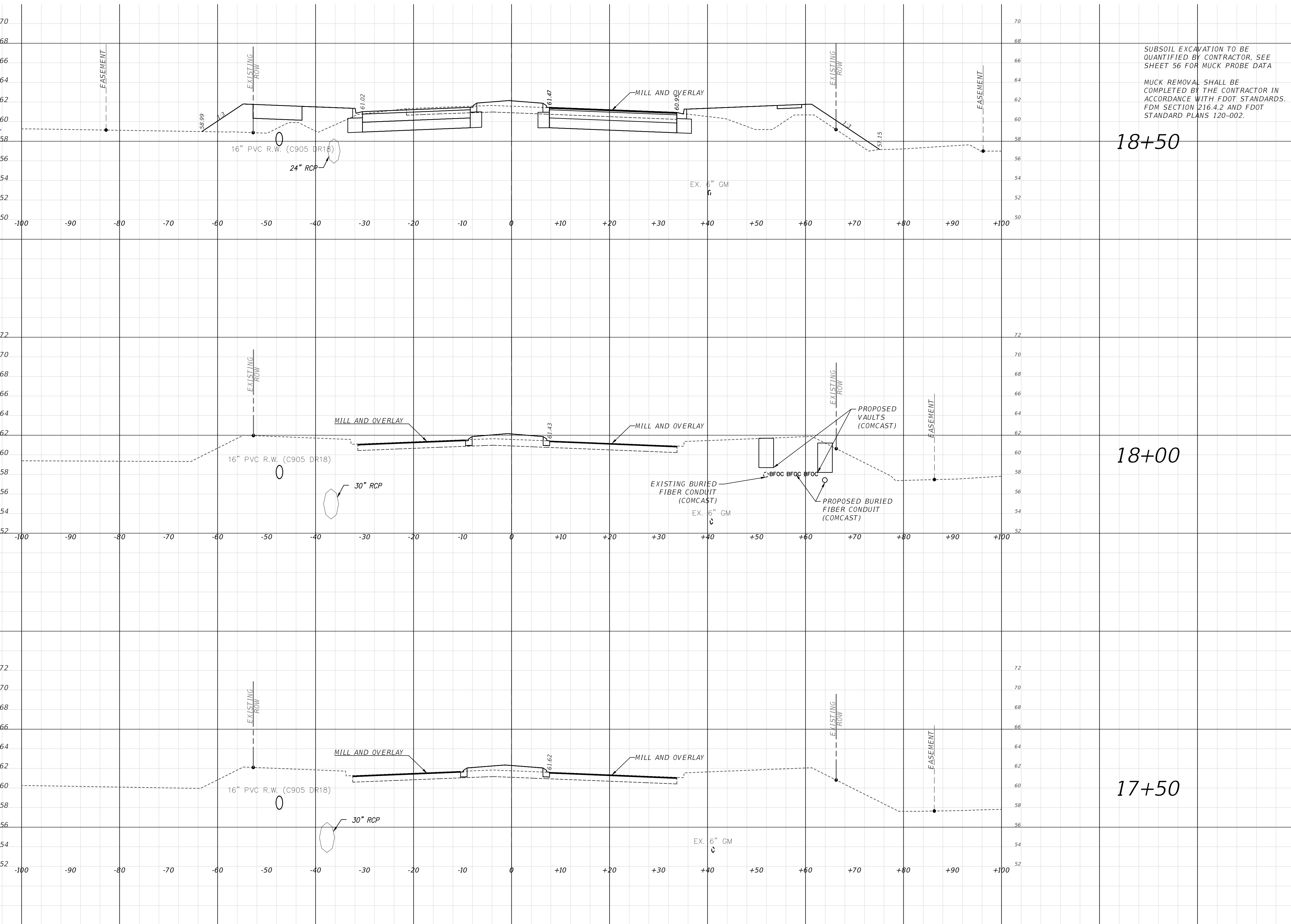
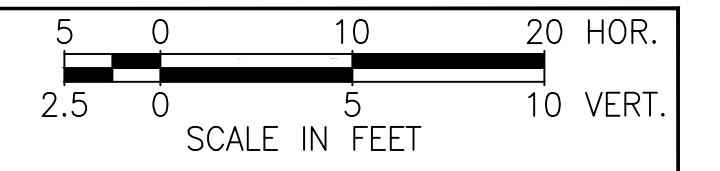
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
73

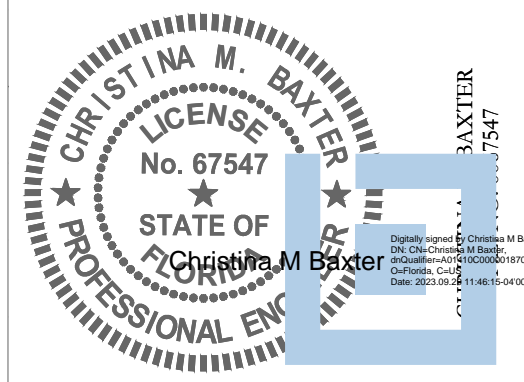
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	Regular	Exc.	Embankment	
	A(sf)	V(cy)	A(sf)	V(cy)
18+50	121	113	95	94
18+00	1	3	7	12
17+50	1	3	7	13



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DATE: September 29, 2023

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02-26-2021			

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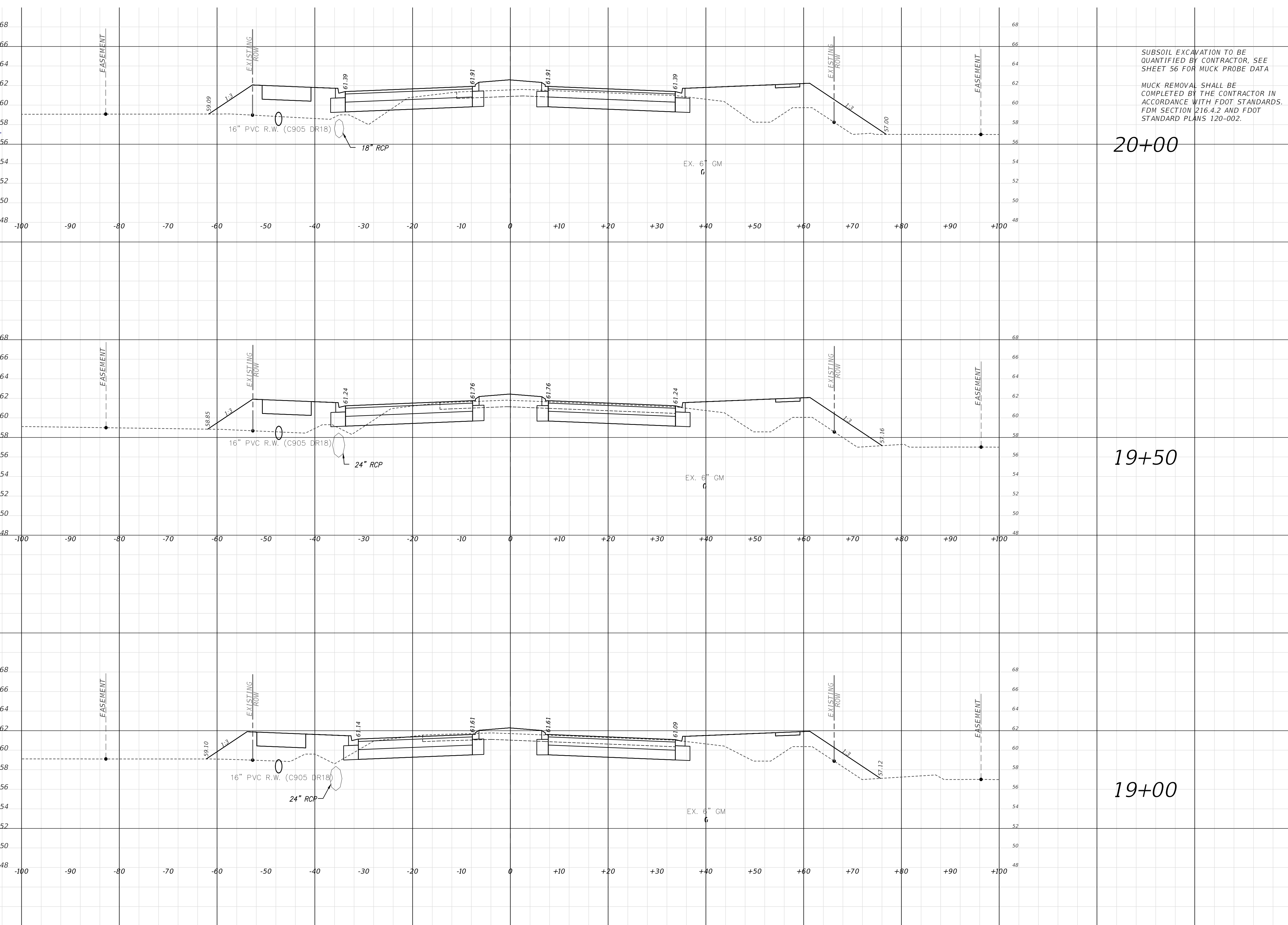
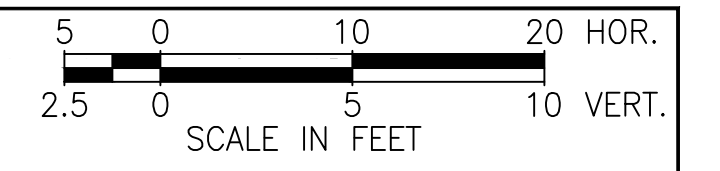
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

SHEET NO.
74

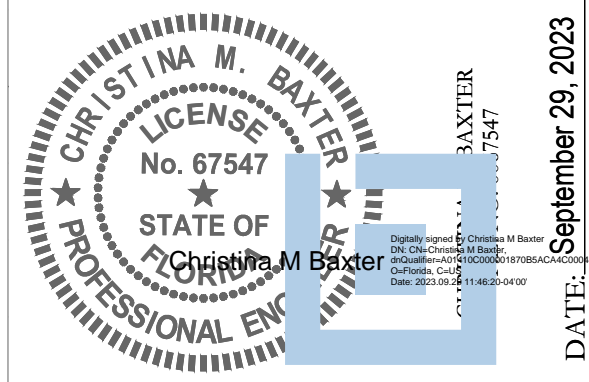
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SUBSOIL EXCAVATION TO BE QUANTIFIED BY CONTRACTOR, SEE SHEET 56 FOR MUCK PROBE DATA.
MUCK REMOVAL SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARDS, FDM SECTION 216.4.2 AND FDOT STANDARD PLANS 120-002.

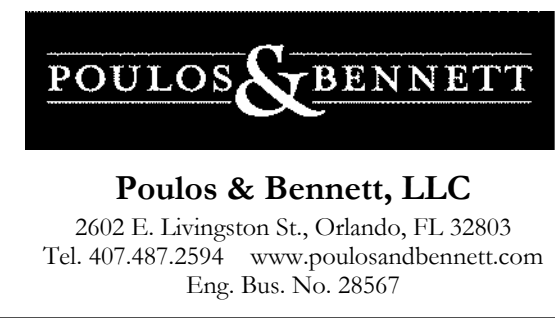
	Regular	Exc.	Embankment	
	A(sf)	V(cy)	A(sf)	V(cy)
20+00	77	166	153	260
19+50	102	203	128	222
19+00	117	220	112	192



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DATE: September 29, 2023

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



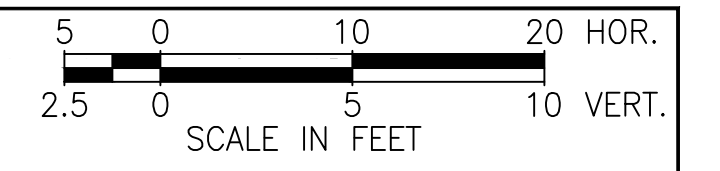
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

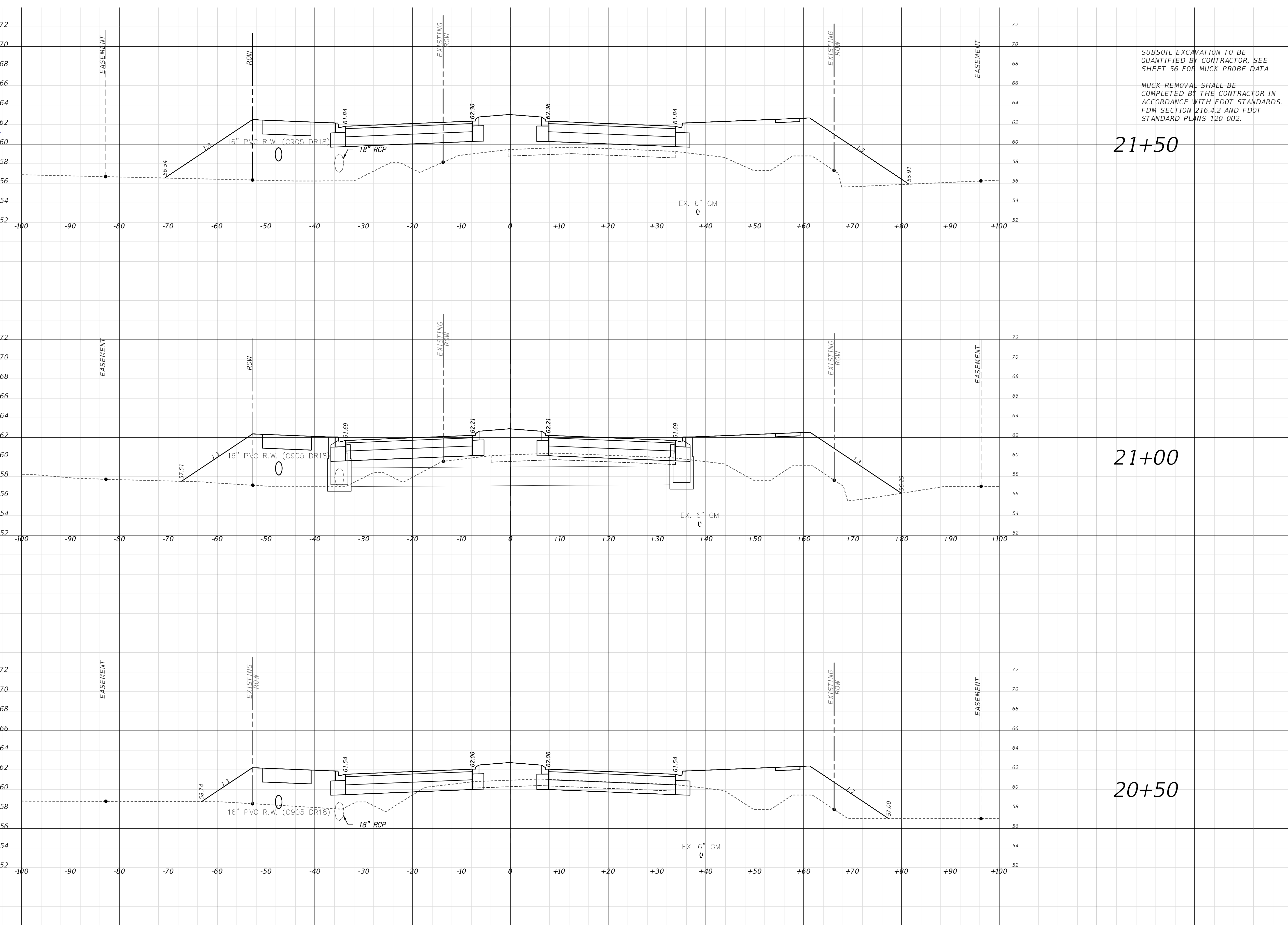
SHEET NO.
75

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLAN OR THE INFORMATION PROVIDED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS FOR WHICH IT IS RESPONSIBLE. THE DEVELOPER DOES NOT BELIEVE THE DEVELOPER OR ANY OTHER PARTY IS RESPONSIBLE FOR THESE REVISIONS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE REVISIONS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTION OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

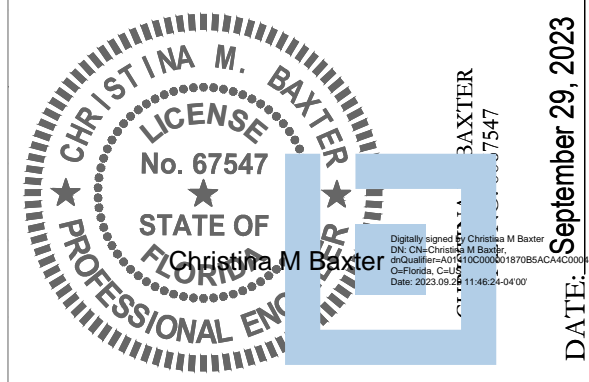
NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



SUBSOIL EXCAVATION TO BE QUANTIFIED BY CONTRACTOR, SEE SHEET 56 FOR MUCK PROBE DATA
MUCK REMOVAL SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARDS, FDM SECTION 216.4.2 AND FDOT STANDARD PLANS 120-002.



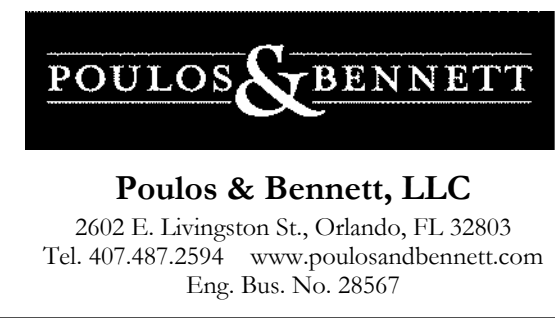
Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0	8	426	684		
9	46	313	481		
40	109	207	333		



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DATE: September 29, 2023

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



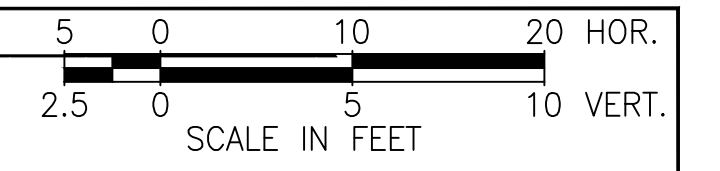
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

SHEET NO.
76

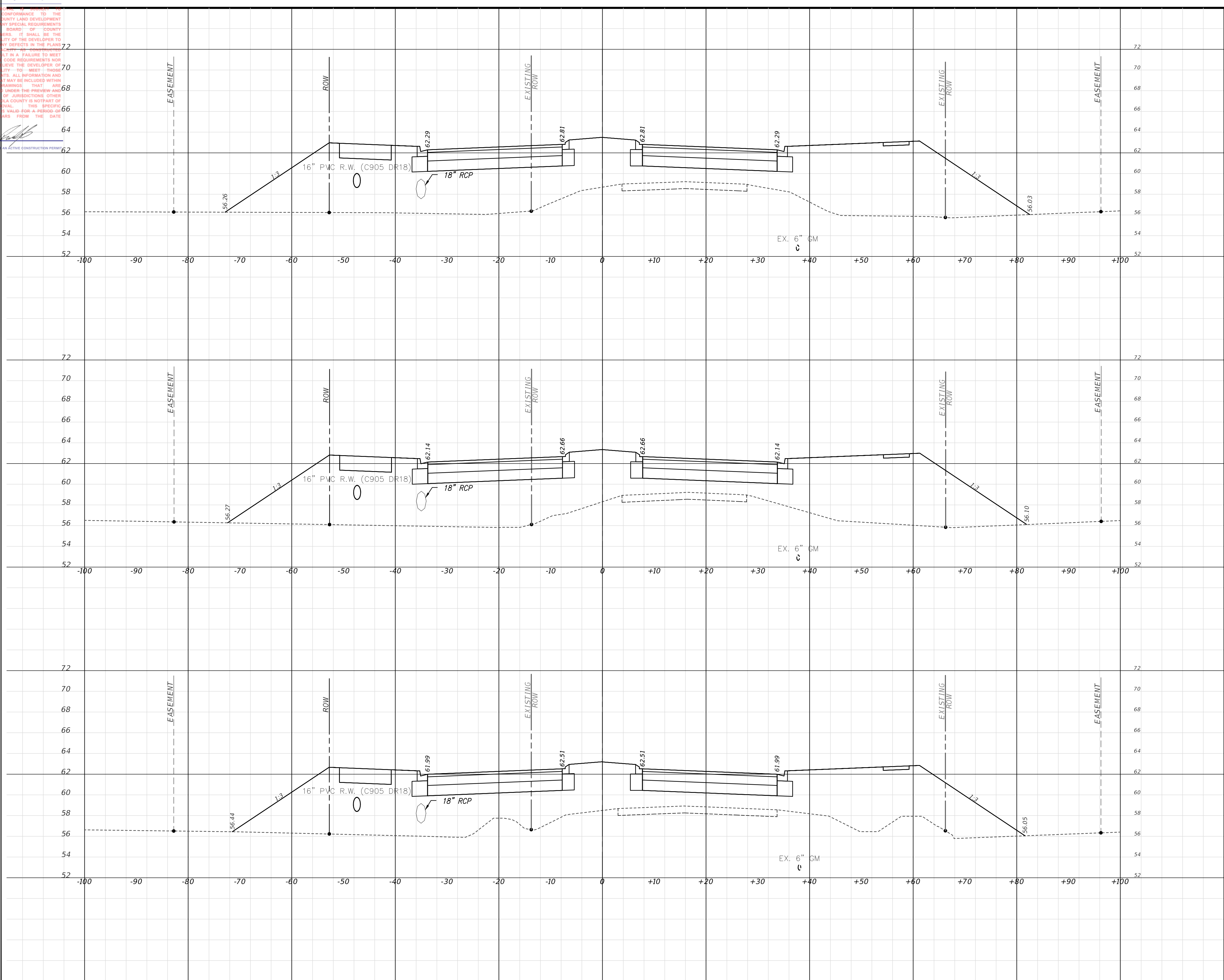
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NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



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MUCK REMOVAL SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARDS, FDM SECTION 216.4.2 AND FDOT STANDARD PLANS 120-002.

Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)



23+00

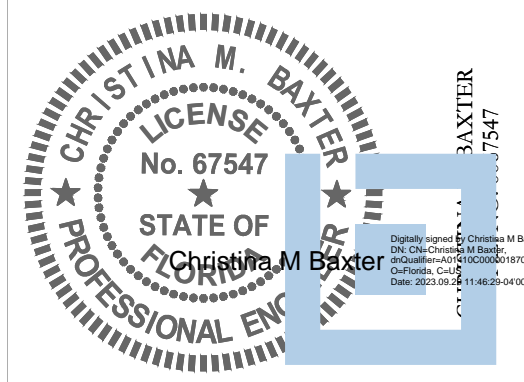
0	0	623	1144
---	---	-----	------

22+50

0	0	612	1063
---	---	-----	------

22+00

0	0	536	890
---	---	-----	-----



DATE: September 29, 2023

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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

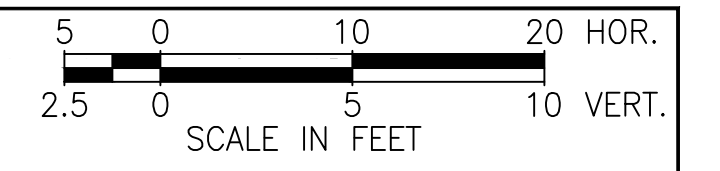
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
77

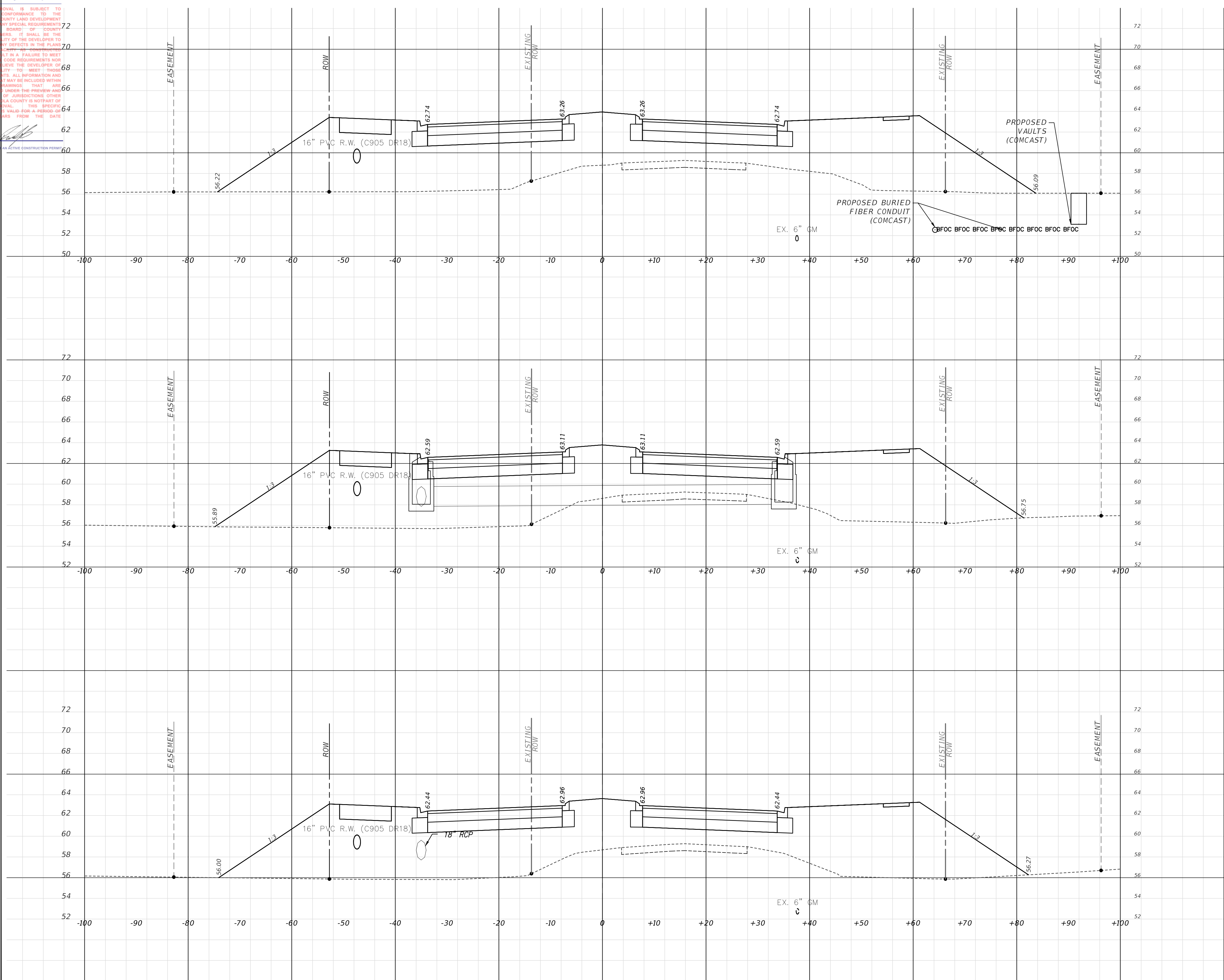
THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE INFORMATION PROVIDED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS FOR RESPONSIBILITY TO MEET THESE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE DRAWINGS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTION OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



SUBSOIL EXCAVATION TO BE QUANTIFIED BY CONTRACTOR, SEE SHEET 56 FOR MUCK PROBE DATA
MUCK REMOVAL SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARDS. FDM SECTION 216.4.2 AND FDOT STANDARD PLANS 120-002.

Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



24+50

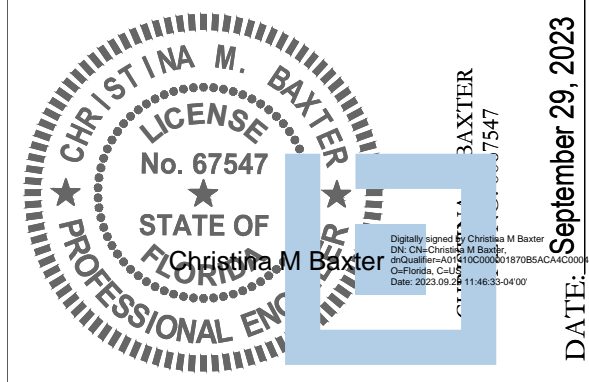
0	0	649	1220
---	---	-----	------

24+00

0	0	669	1226
---	---	-----	------

23+50

0	0	654	1183
---	---	-----	------



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DATE: September 29, 2023

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT
Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

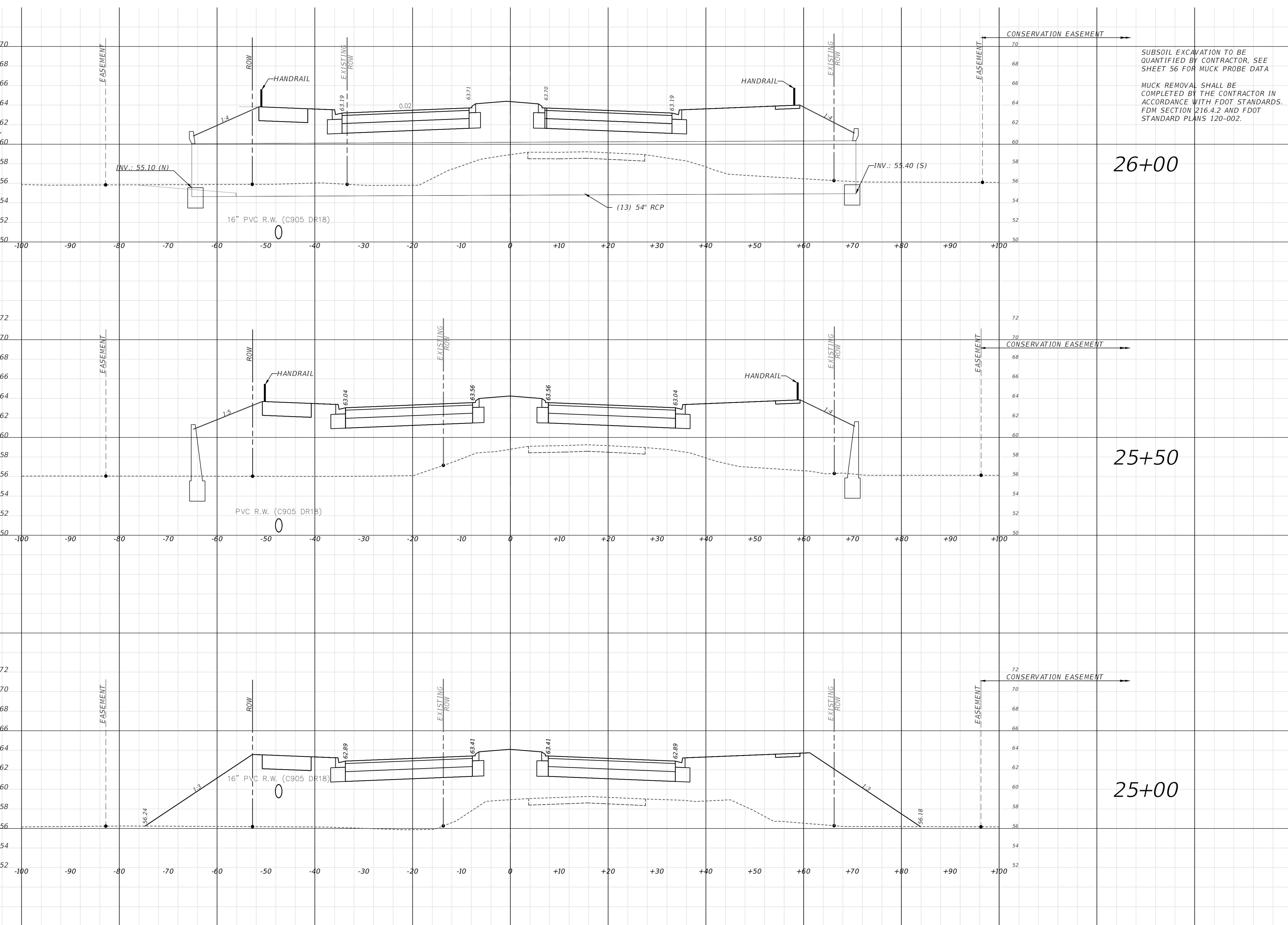
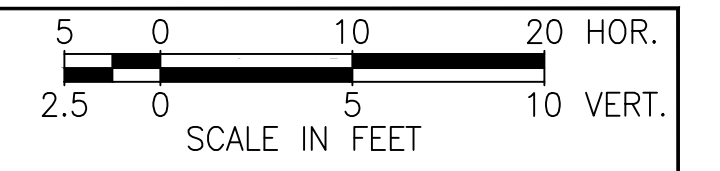
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
78

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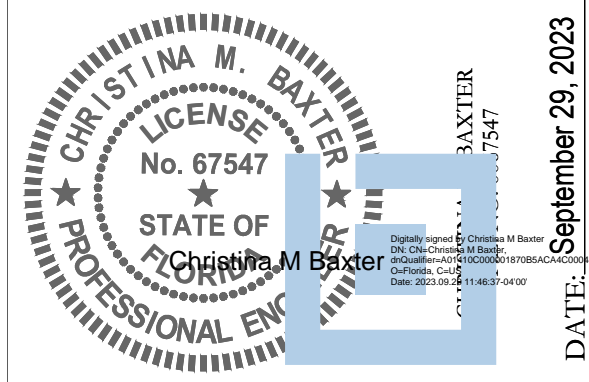


CONSERVATION EASEMENT

SUBSOIL EXCAVATION TO BE QUANTIFIED BY CONTRACTOR, SEE SHEET 56 FOR MUCK PROBE DATA

MUCK REMOVAL SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARDS. FDM SECTION 216.4.2 AND FDOT STANDARD PLANS 120-002.

Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)
0	0	692	1251
0	0	659	1229
0	0	669	1220



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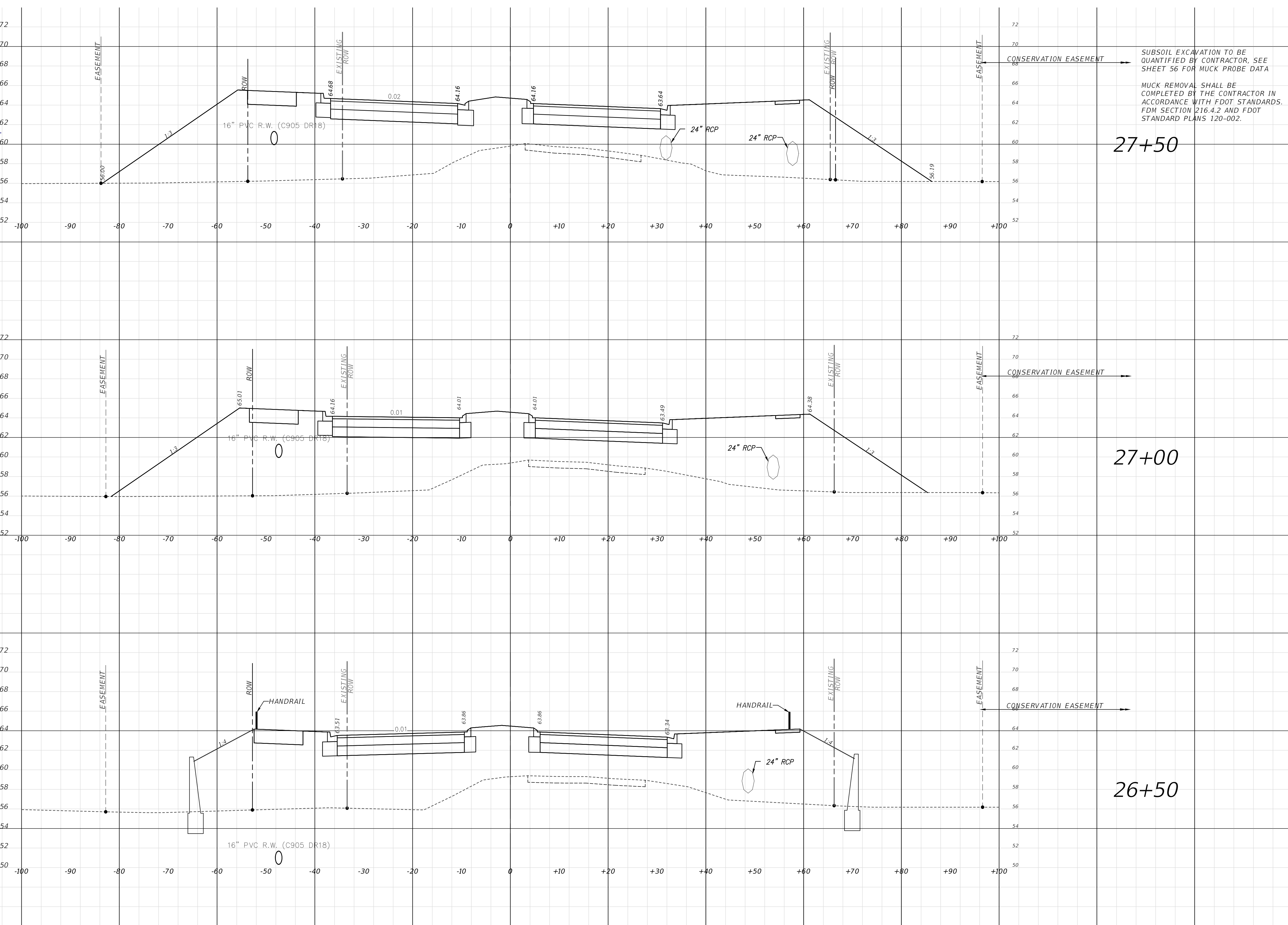
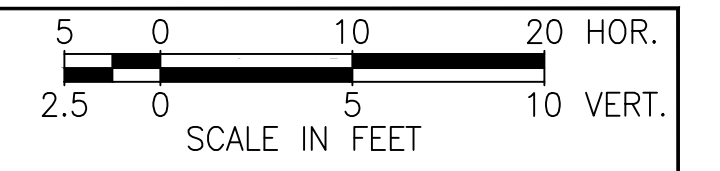
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

SHEET NO.
79

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLAN OR THE FIELD. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES. THE DEVELOPER DOES NOT WARRANT THAT THE INFORMATION AND DETAILS HEREON ARE COMPLETELY ACCURATE OR THAT THE INFORMATION AND DETAILS HEREON WILL BE COMPLETELY ACCURATE UNDER ALL CIRCUMSTANCES. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES. THE DEVELOPER DOES NOT WARRANT THAT THE INFORMATION AND DETAILS HEREON ARE COMPLETELY ACCURATE OR THAT THE INFORMATION AND DETAILS HEREON WILL BE COMPLETELY ACCURATE UNDER ALL CIRCUMSTANCES.

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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0	0	863	1562		
0	0	822	1420		
0	0	711	1299		

27+50

27+00

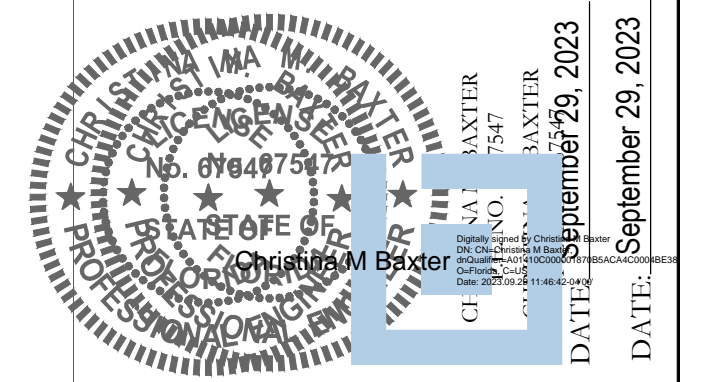
26+50

26+50

CONSERVATION EASEMENT

SUBSOIL EXCAVATION TO BE QUANTIFIED BY CONTRACTOR, SEE SHEET 56 FOR MUCK PROBE DATA

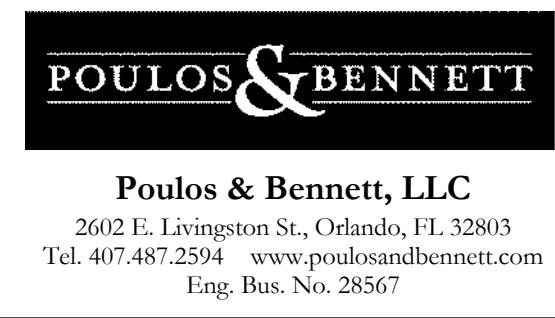
MUCK REMOVAL SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARDS, FDM SECTION 216.4.2 AND FDOT STANDARD PLANS 120-002.



This seal has been electronically signed and sealed by Christina M. Baxter on the date the plan was filed for recording with the Osceola County Clerk of Circuit Court. The seal is not valid if it is not accompanied by the original signature of the engineer.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION



OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

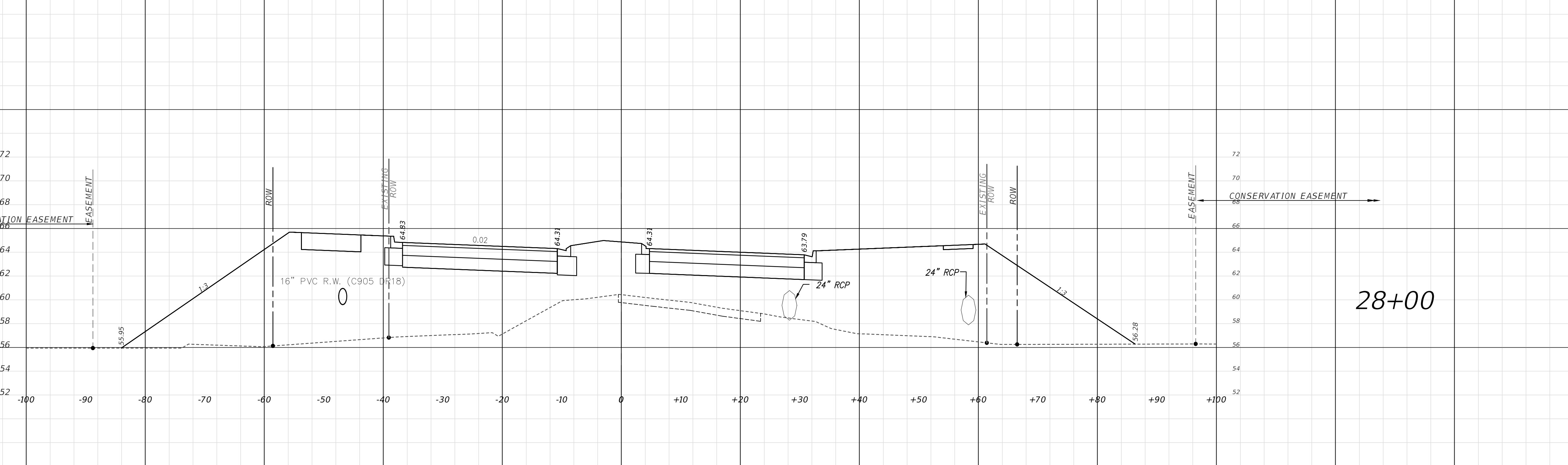
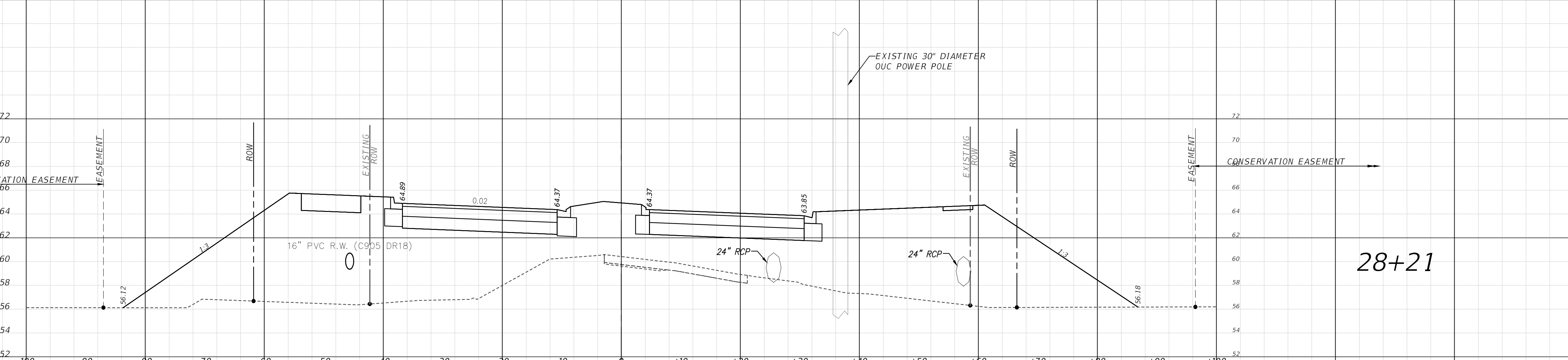
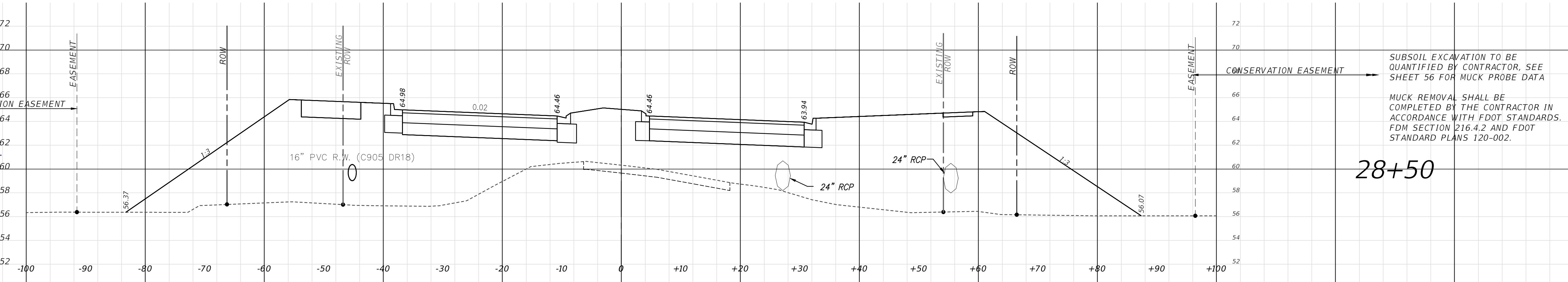
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
80

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE INFORMATION PROVIDED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS FOR THESE PROJECTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE PLANS THAT ARE CONSIDERED UNDER THE PROVISIONS AND AUTHORITY OF THE SPECIFIC APPROVALS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

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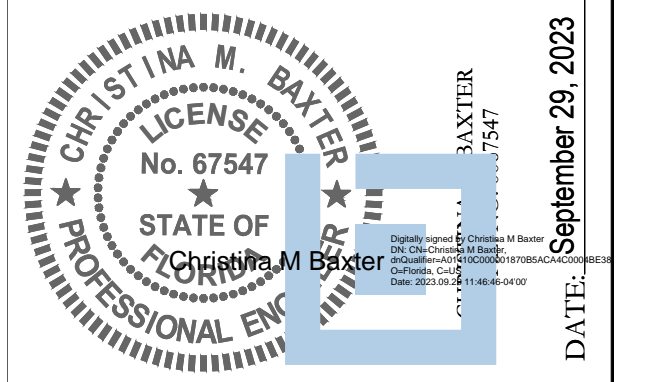
Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
0	0	856	918	858	666
0	0	856	1594		

28+50

28+21

28+00

CONSERVATION EASEMENT →
SUBSOIL EXCAVATION TO BE QUANTIFIED BY CONTRACTOR, SEE SHEET 56 FOR MUCK PROBE DATA
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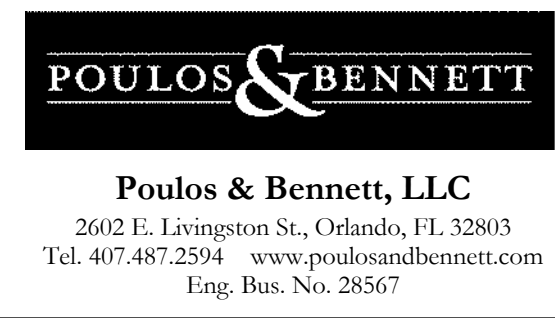


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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

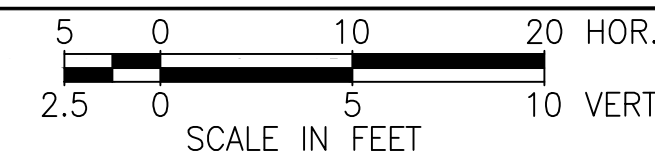
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
81

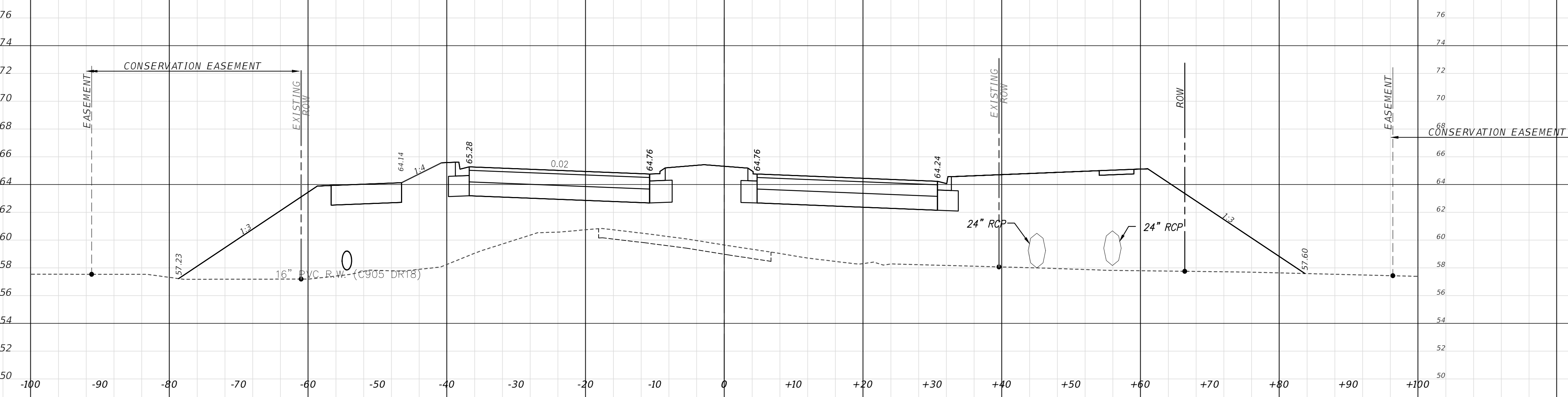
THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND BY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE PLANS TO MEET THE REQUIREMENTS WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS FOR DOES IT BELIEVE THE DEVELOPER OF RESPONSIBILITY TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE DRAWINGS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTION OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

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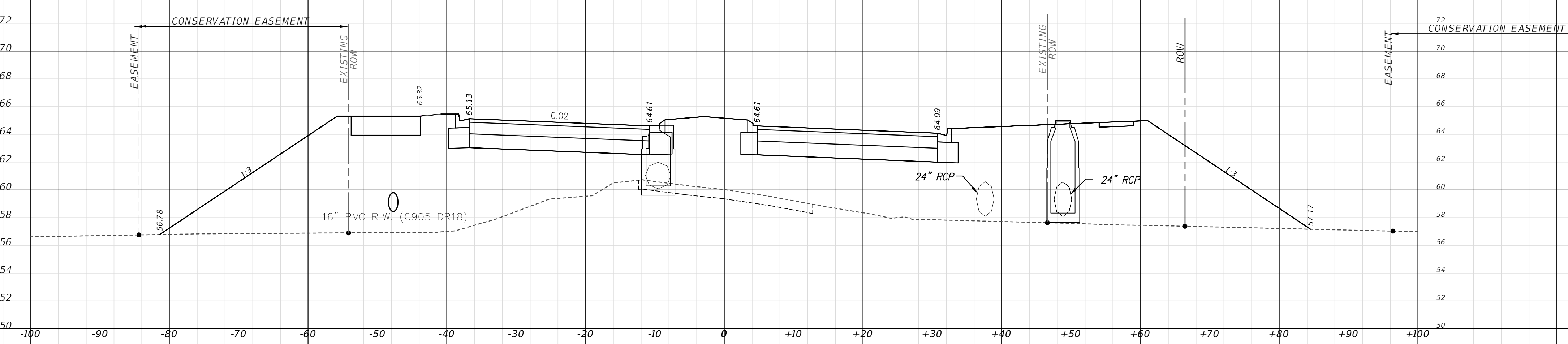
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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



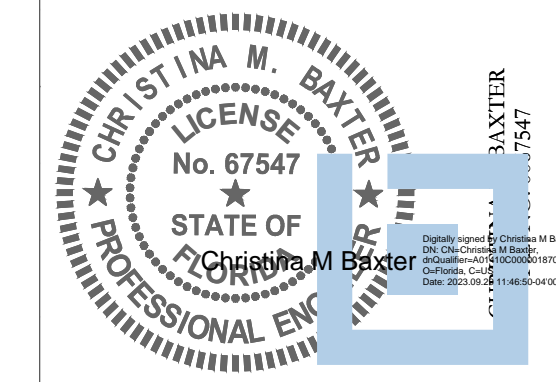
29+50

0	0	712	1381
---	---	-----	------



29+00

0	0	789	1517
---	---	-----	------



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POULOS & BENNETT
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Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

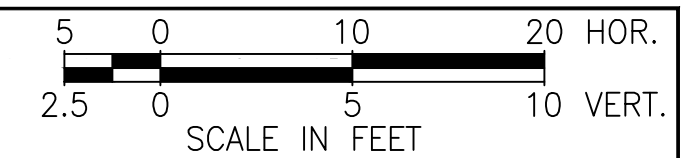
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
82

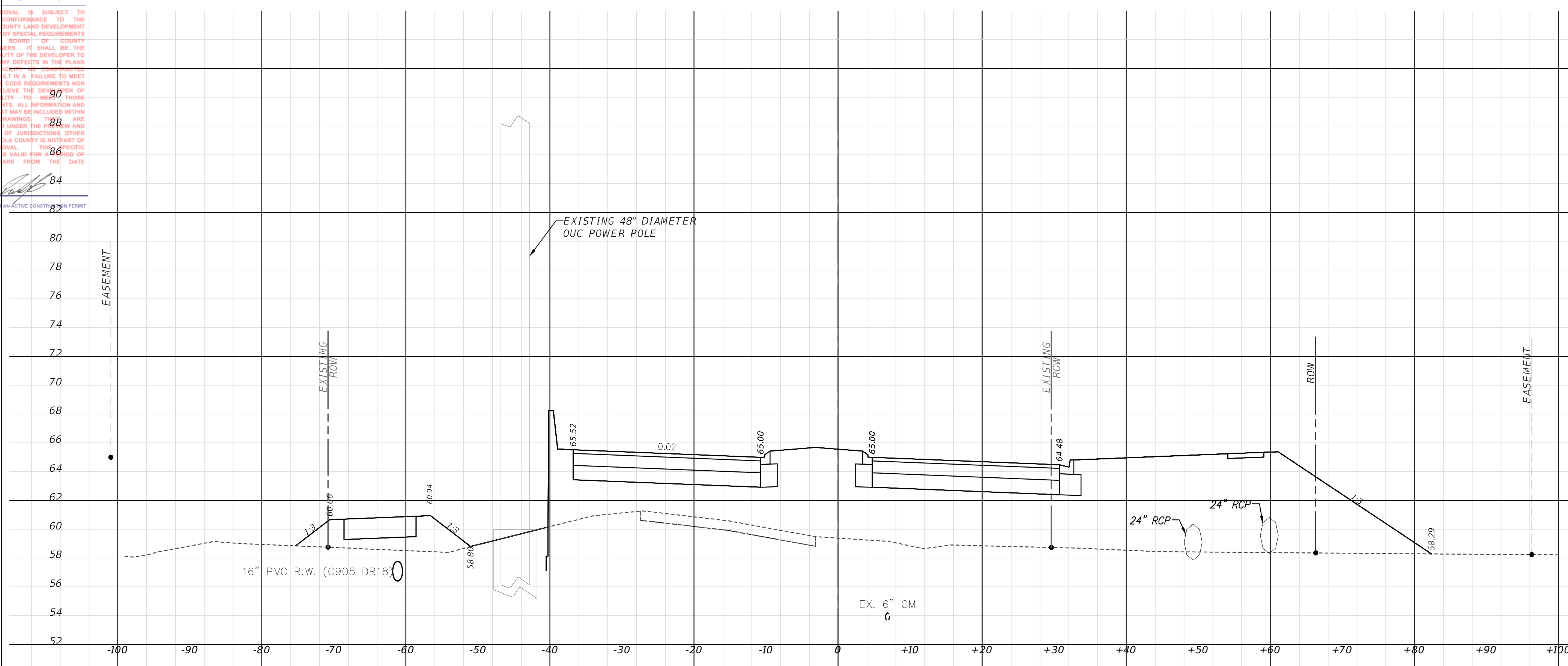
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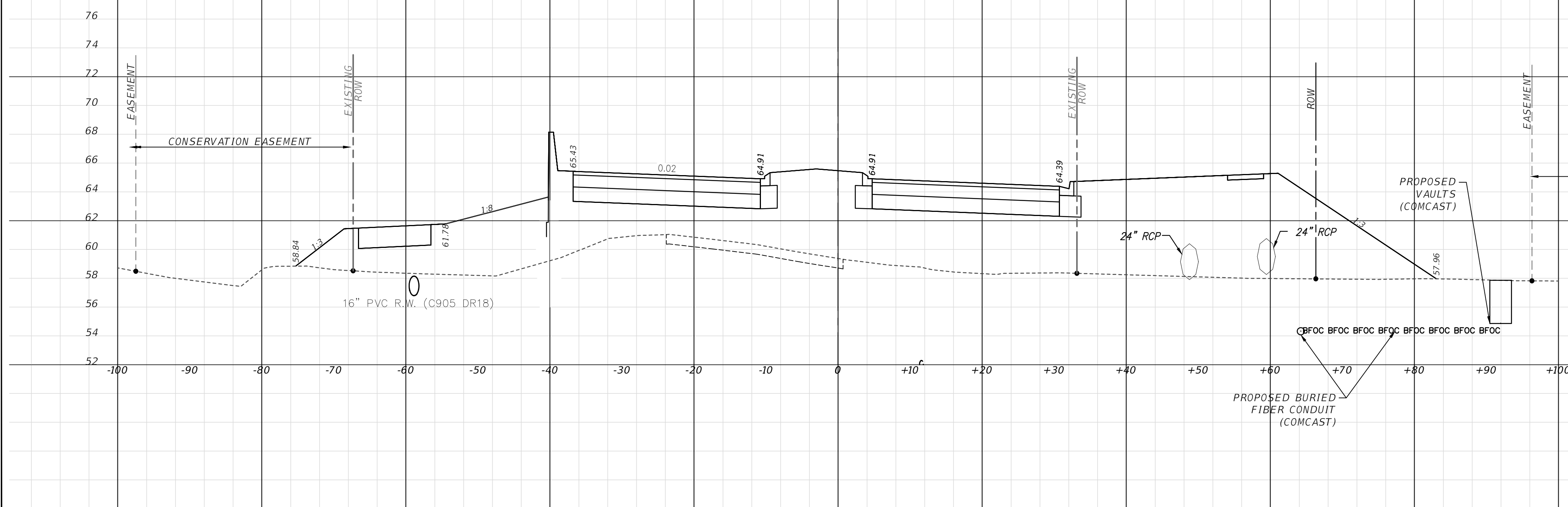
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Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)



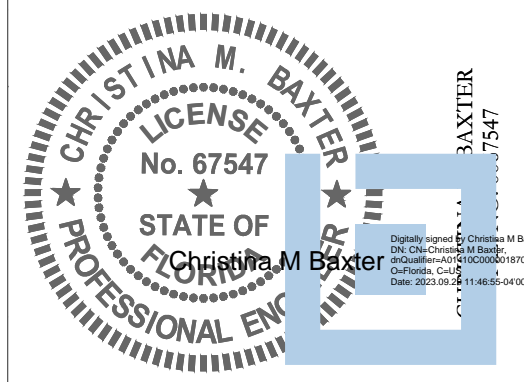
30+30

0	1	539	647
---	---	-----	-----



30+00

2	2	657	1249
---	---	-----	------



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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

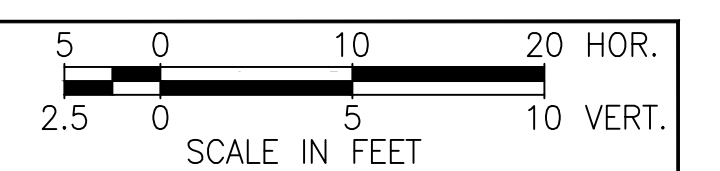
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
83

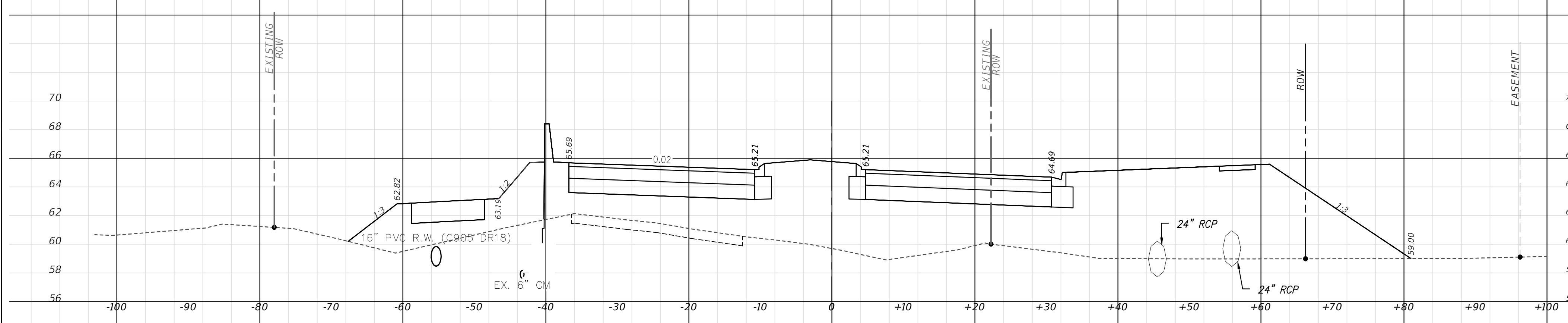
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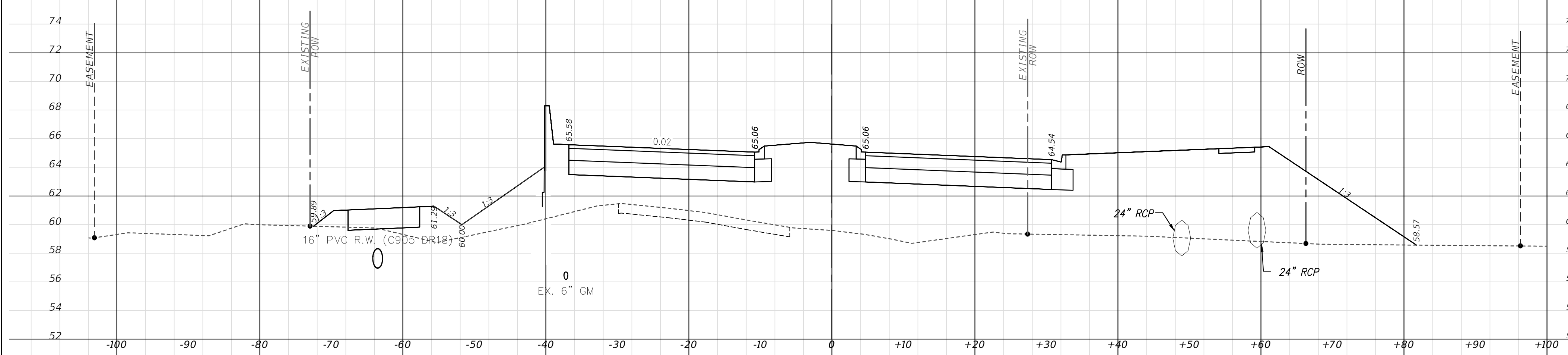
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Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)



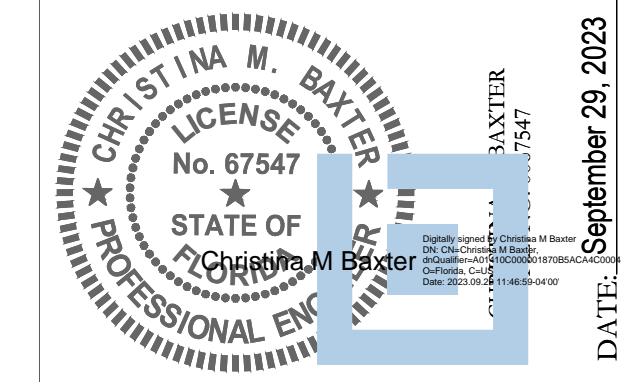
31+00

0	1	533	954
---	---	-----	-----



30+50

1	0	528	382
---	---	-----	-----



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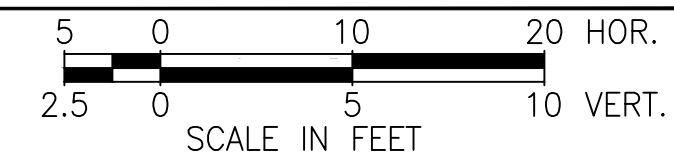
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
84

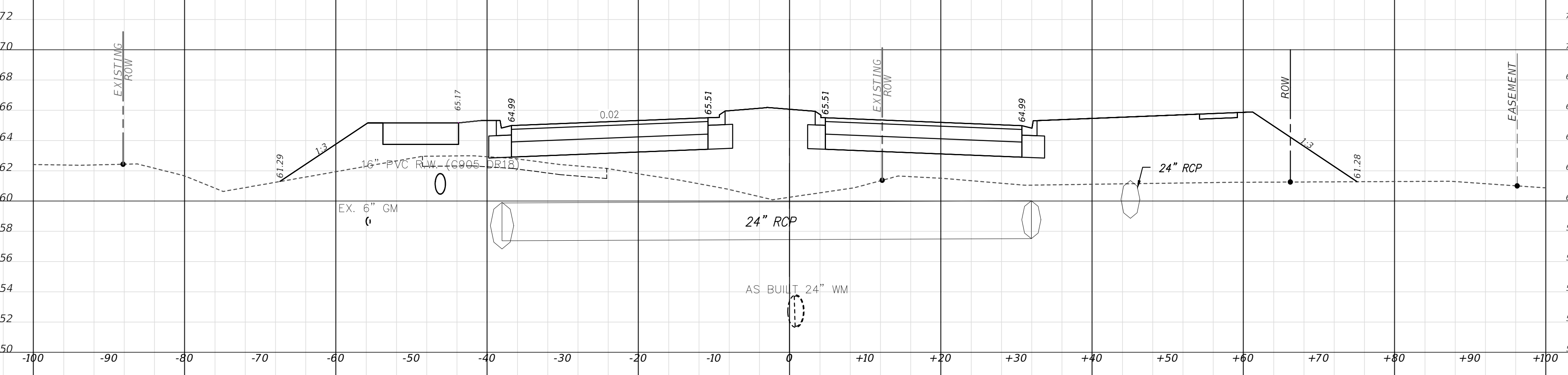
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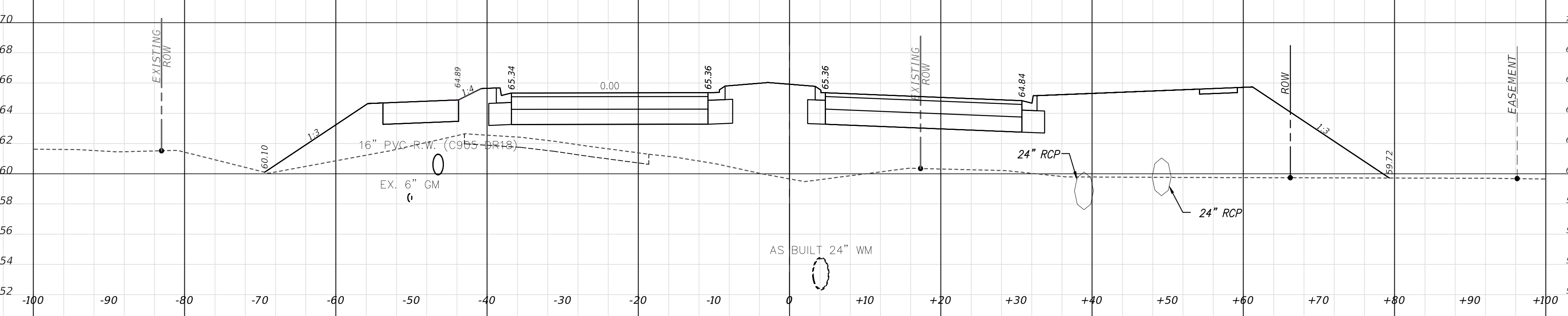
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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



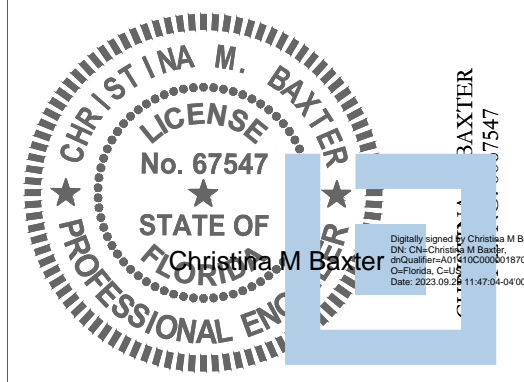
32+00

0	0	350	758
---	---	-----	-----



31+50

0	0	469	919
---	---	-----	-----



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OSCEOLA COUNTY
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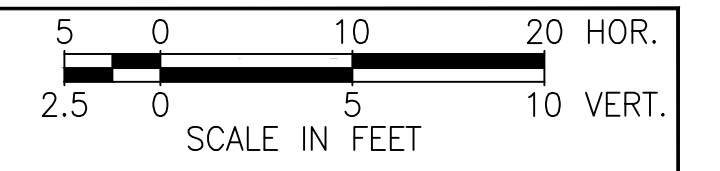
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.

85

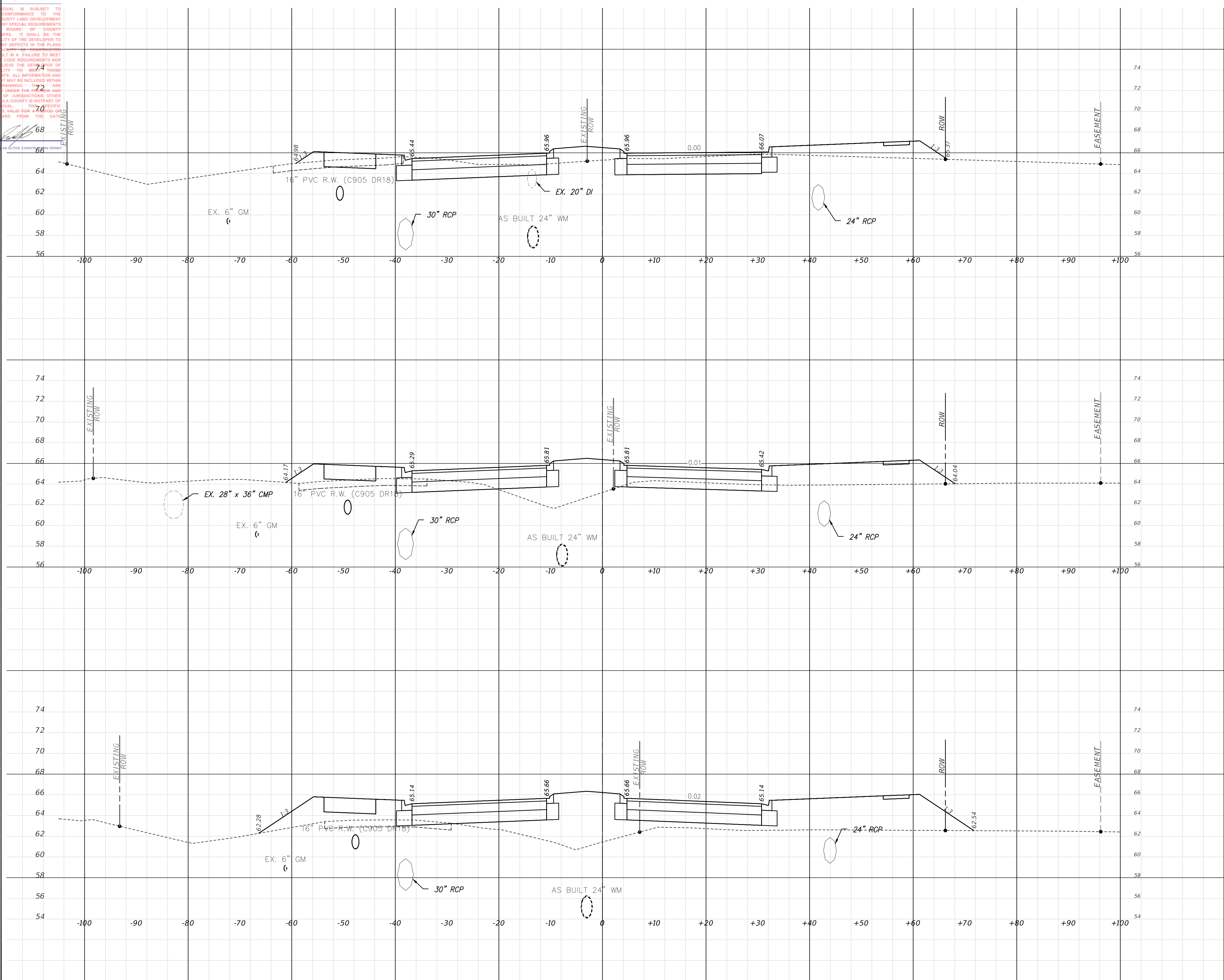
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SUBSOIL EXCAVATION TO BE QUANTIFIED BY CONTRACTOR, SEE SHEET 56 FOR MUCK PROBE DATA
MUCK REMOVAL SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARDS, FDM SECTION 216.4.2 AND FDOT STANDARD PLANS 120-002.

Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)

108	134	37	156
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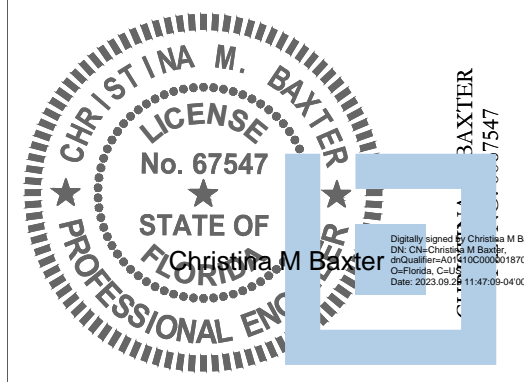
33+50

33+00

32+50

37	37	132	341
----	----	-----	-----

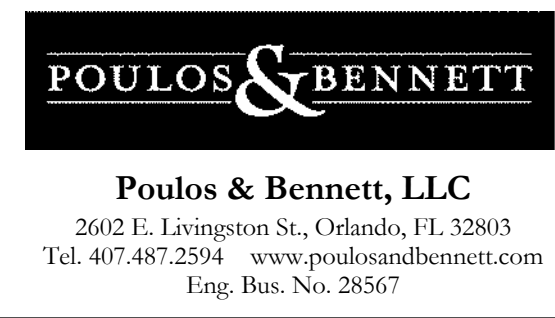
4	4	236	543
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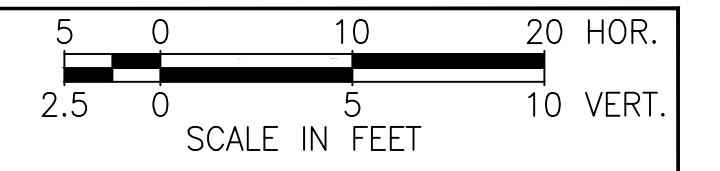
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

SHEET NO.
86

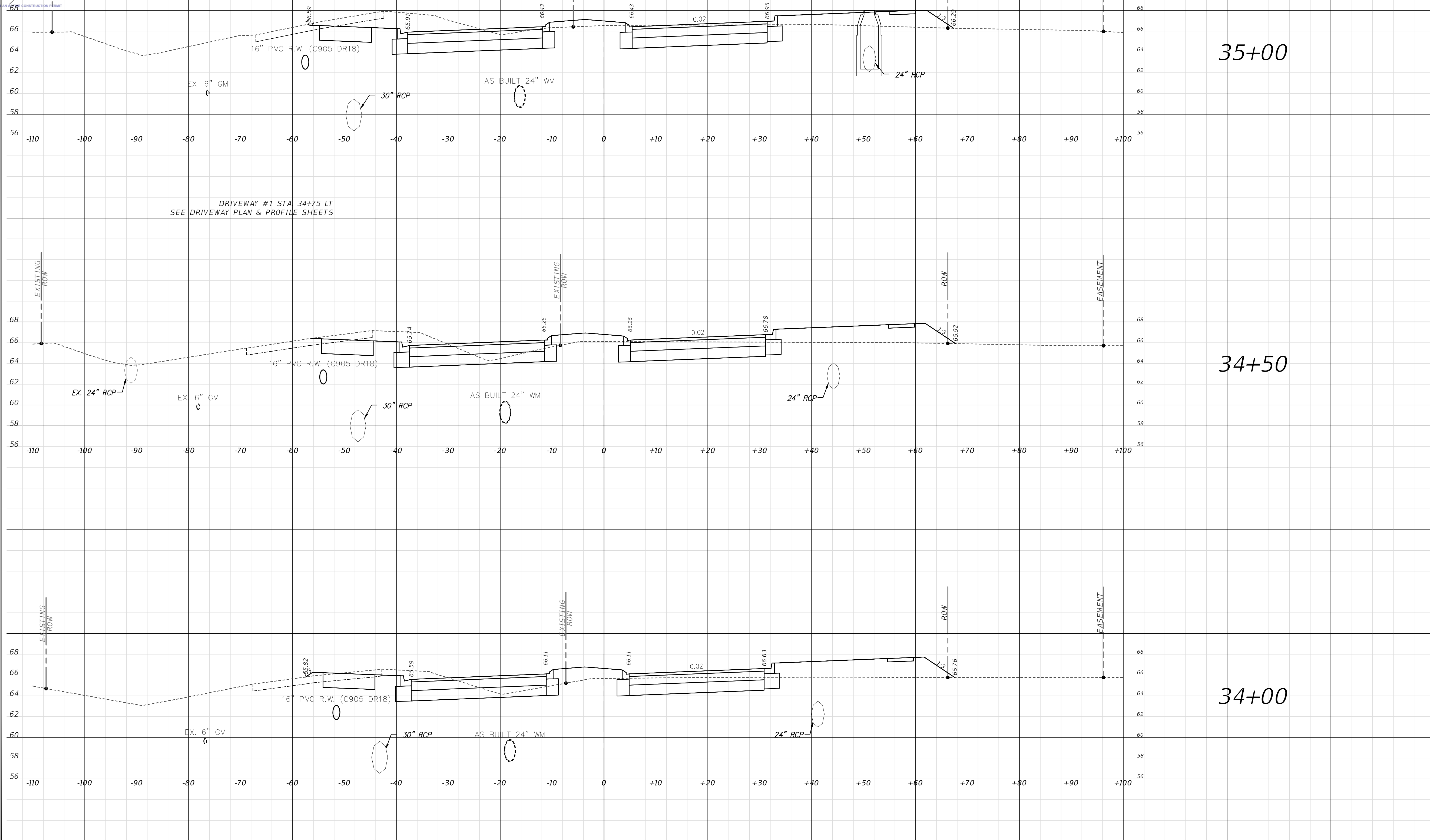
THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND BY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE CONTRACT DOCUMENTS WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS. THE DEVELOPER DOES NOT BELIEVE THE DEVELOPER OF RESPONSIBILITY TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE DRAWINGS THAT ARE CONSIDERED UNDER THE PREVIOUS AND AUTHORITY OF JURISDICTION SUPERIOR THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

NOT VALID WITHOUT AN ENGINEER'S SEAL

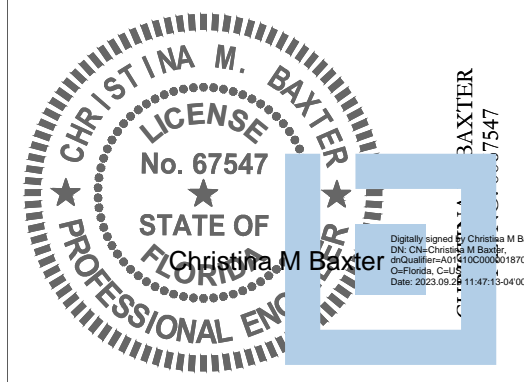


SUBSOIL EXCAVATION TO BE QUANTIFIED BY CONTRACTOR, SEE SHEET 56 FOR MUCK PROBE DATA
MUCK REMOVAL SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARDS, FDM SECTION 216.4.2 AND FDOT STANDARD PLANS 120-002.

Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



35+00	173	272	44	99
34+50	127	214	57	115
34+00	109	200	60	92



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DATE: September 29, 2023

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DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT
Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

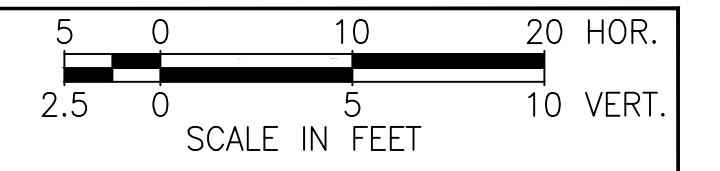
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

SHEET NO.	87
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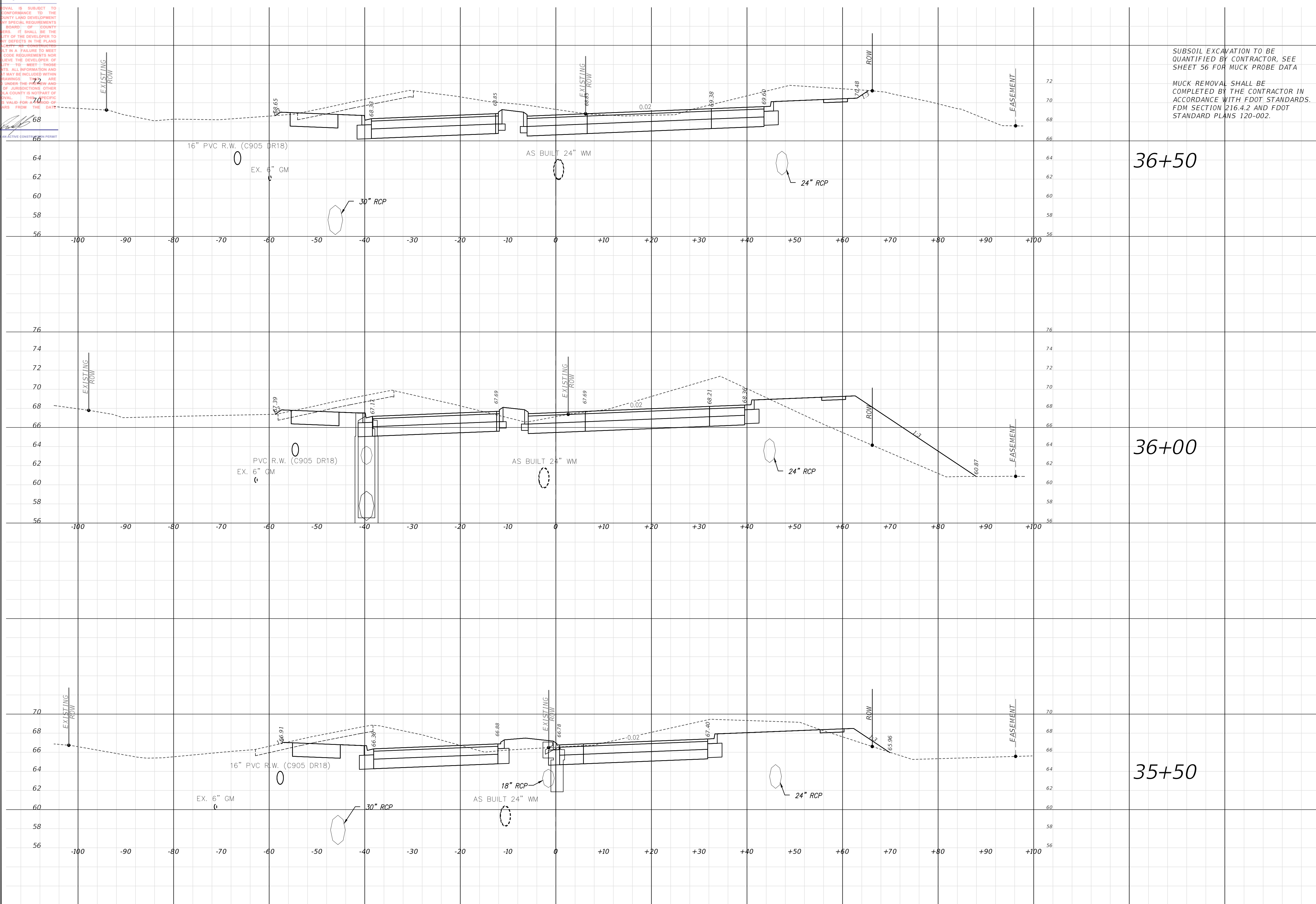
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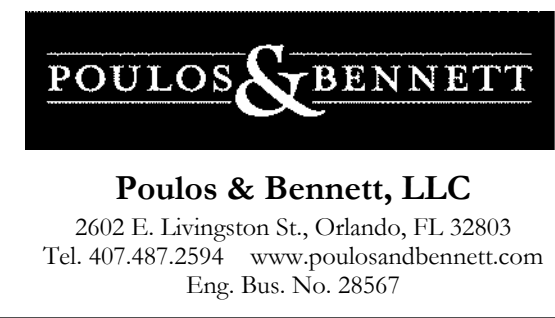
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Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)



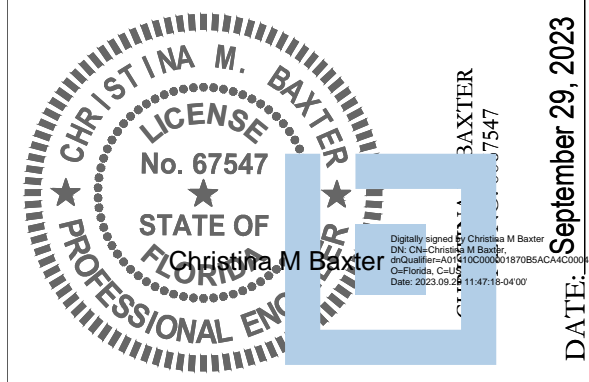
306	542	1	114
281	483	112	126
243	379	13	55

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

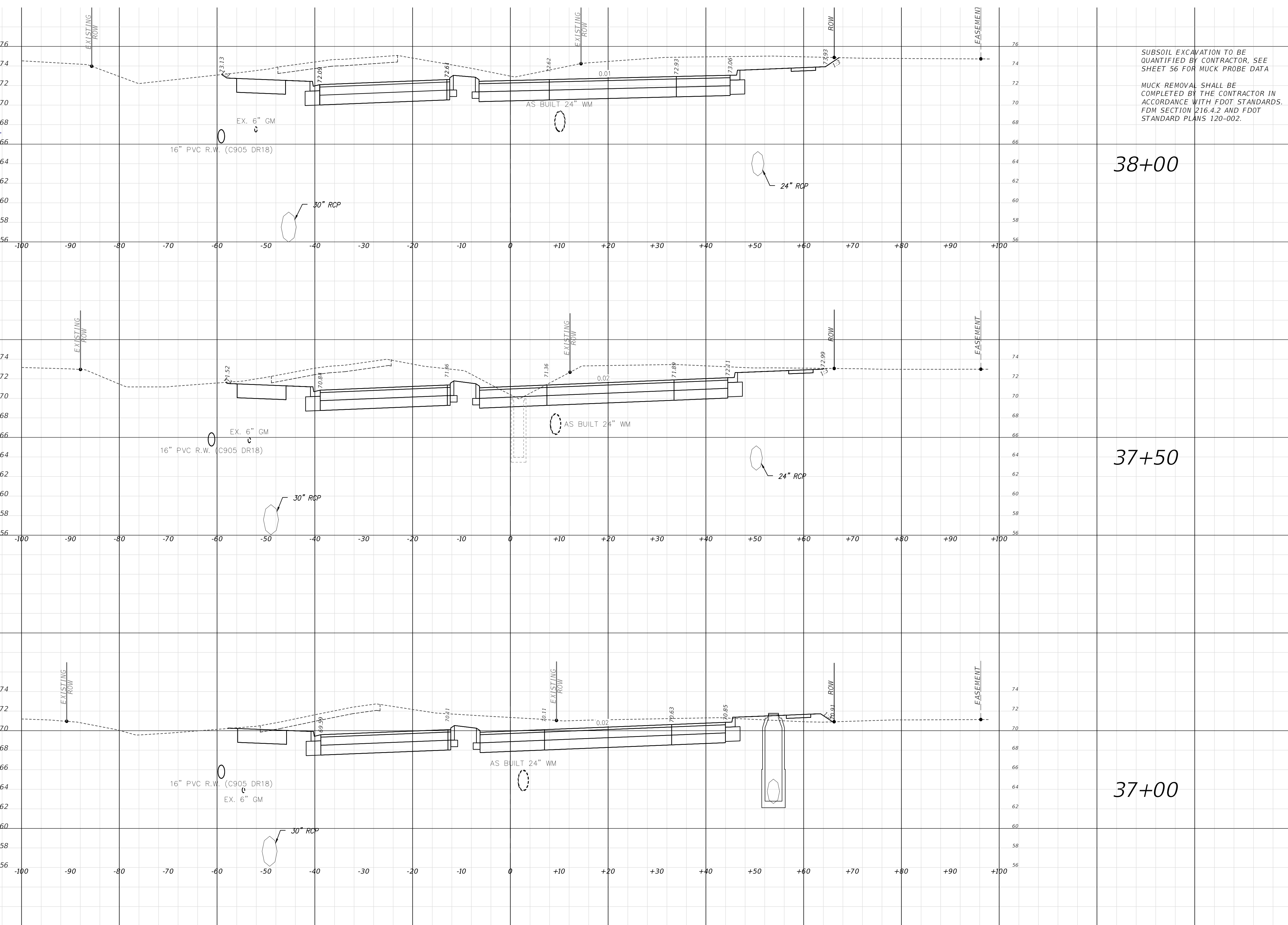
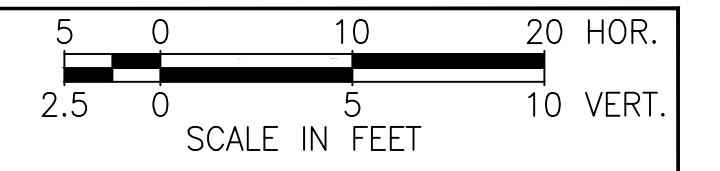


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SHEET NO.	88
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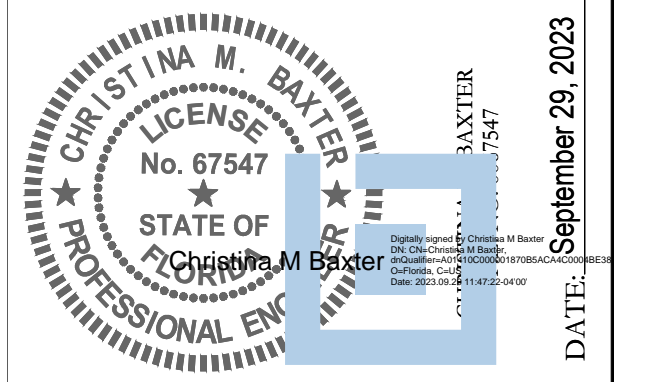
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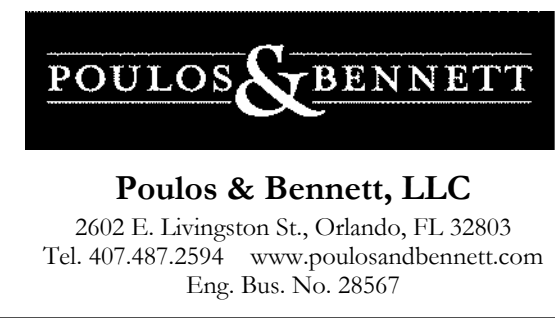
Regular	Exc.	Embankment		
A(sf)	V(cy)	A(sf)	V(cy)	
394	681	0	0	
343	615	0	8	
325	581	8	9	



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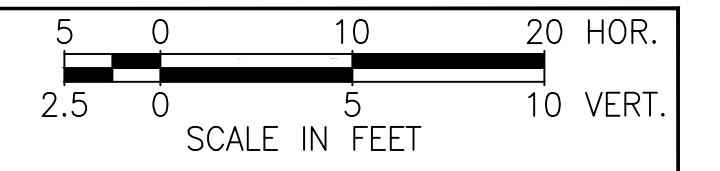
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

SHEET NO.
89

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Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)

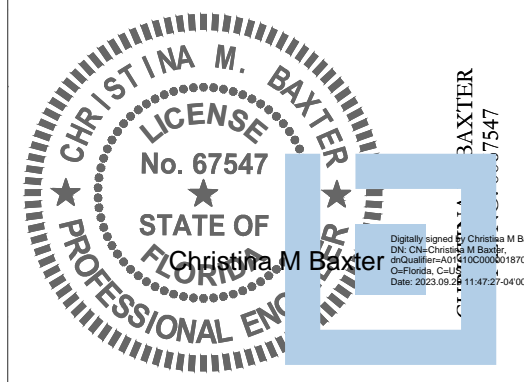
259	1439	1	2
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40+15

ZUNI ROAD STA. 39+49 RT
SEE DRIVEWAY PLAN & PROFILE SHEETS

404	738	0	0
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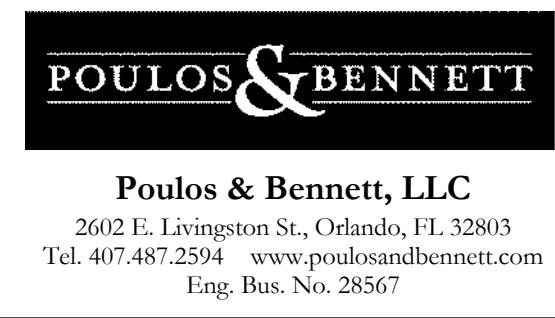
38+50



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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

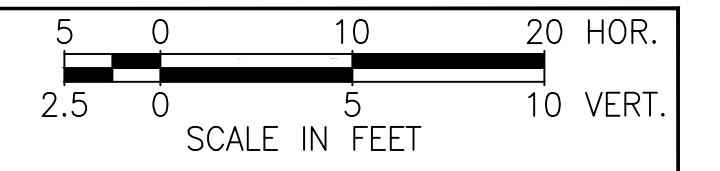
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
90

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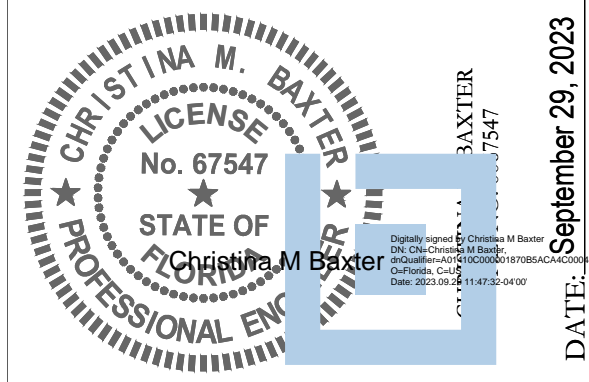
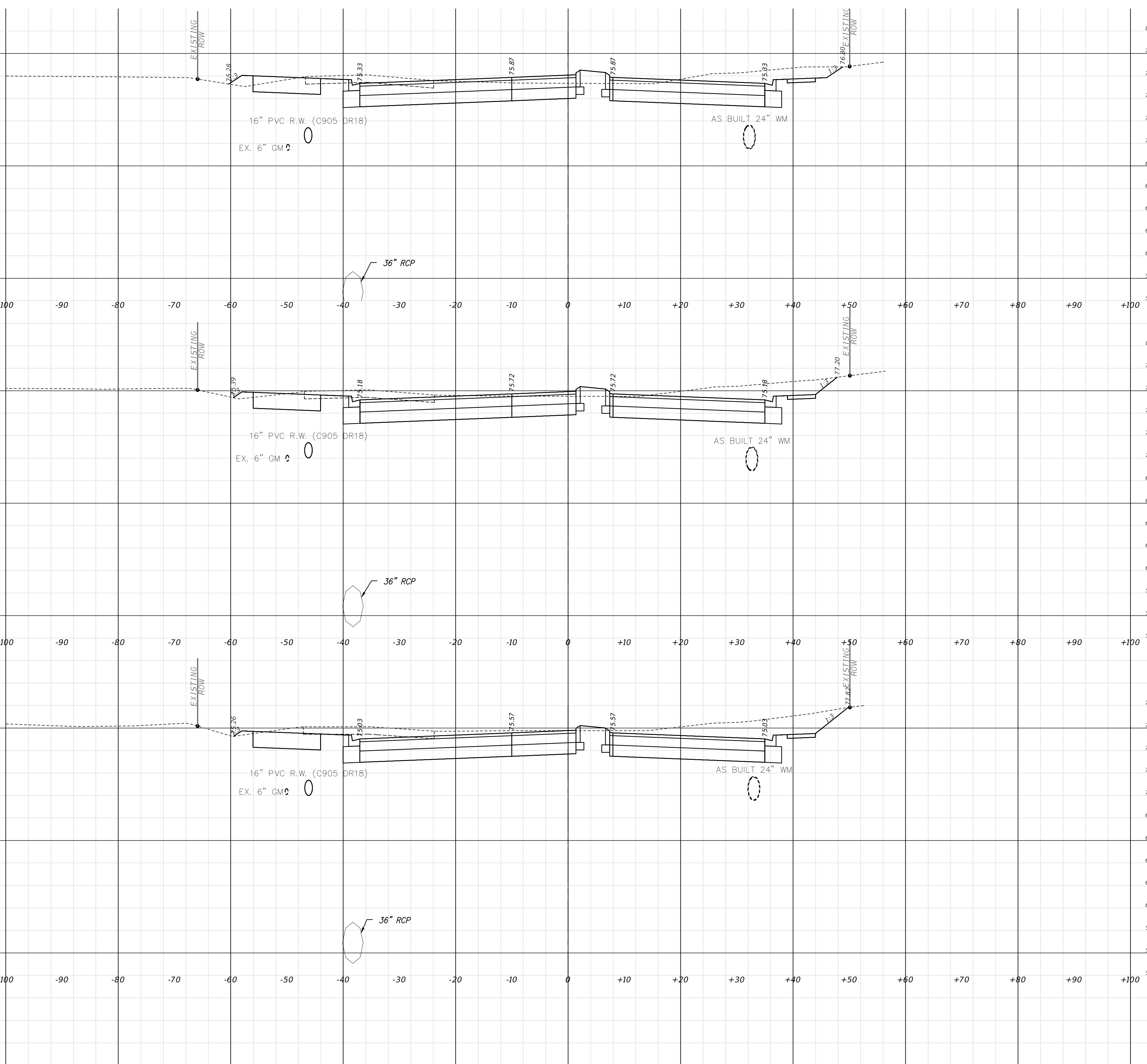
Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)

175	346	4	6
199	401	2	3
234	319	1	1

41+50

41+00

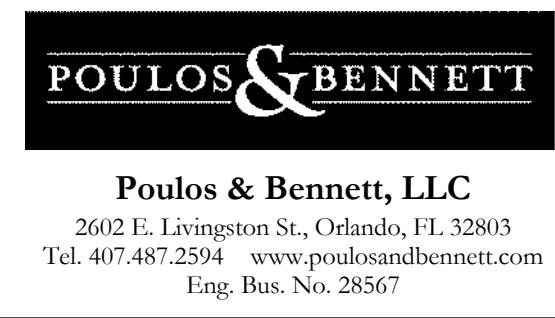
40+50



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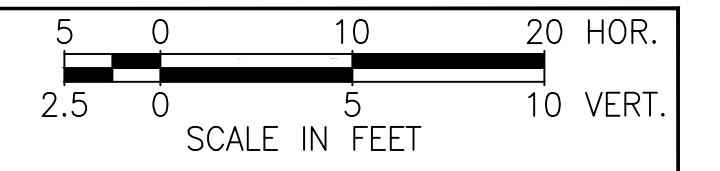
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
91

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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

189	334	4	10
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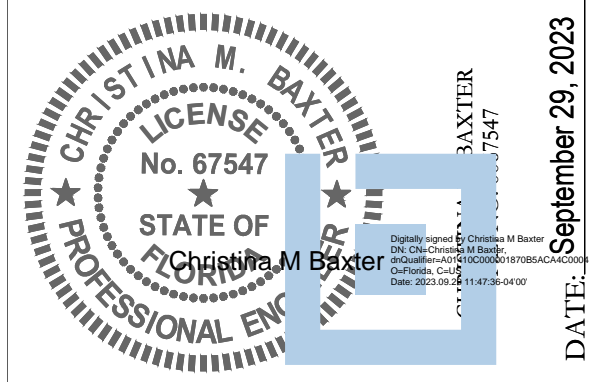
43+00

172	303	7	14
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42+50

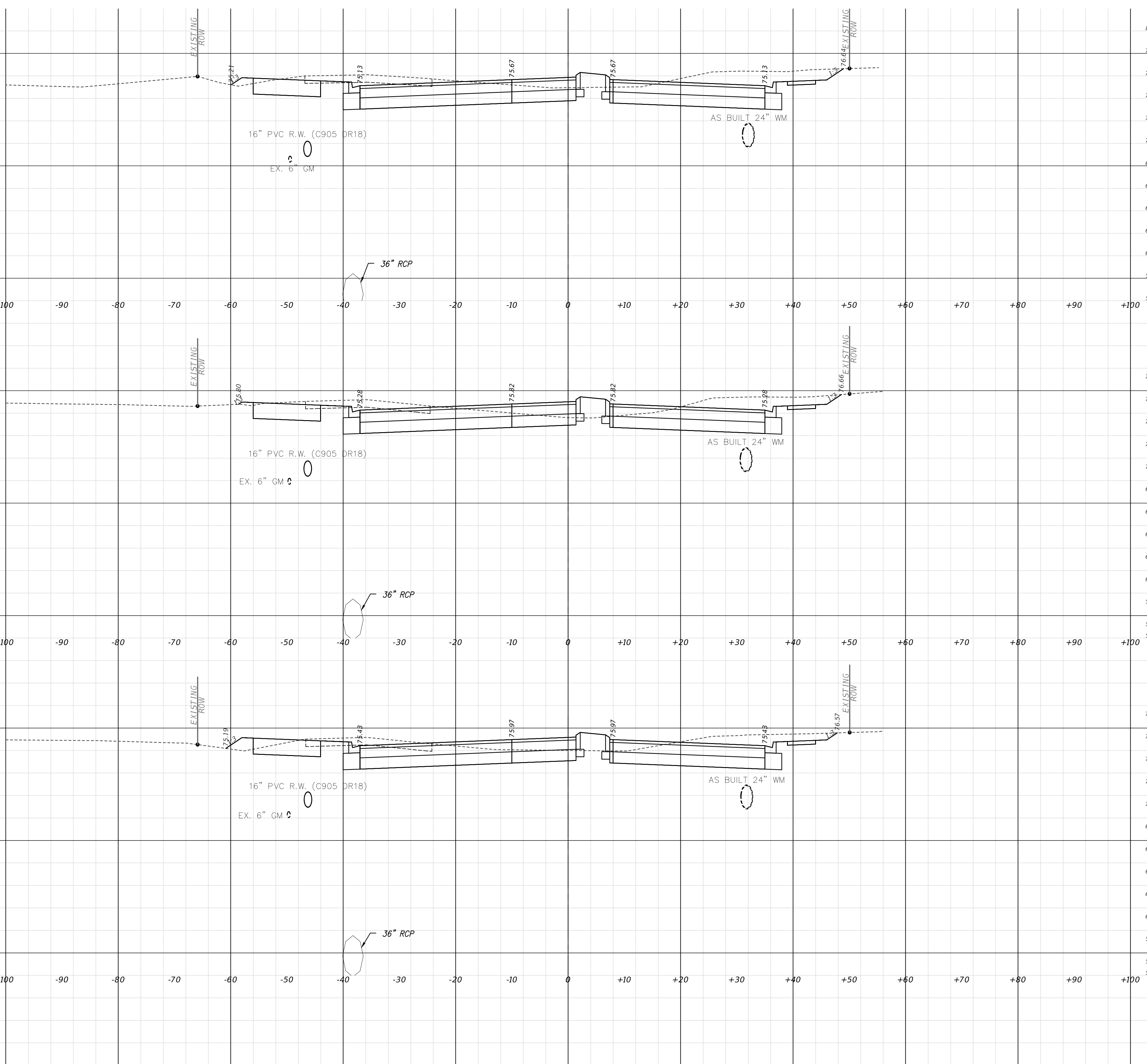
156	306	8	11
-----	-----	---	----

42+00

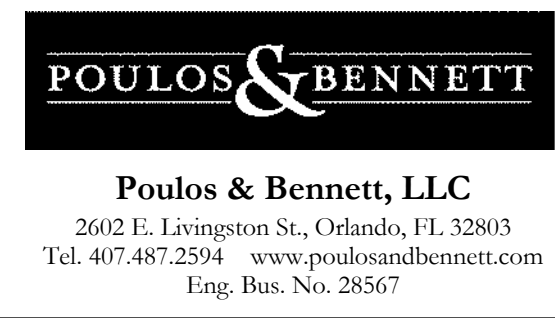


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CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

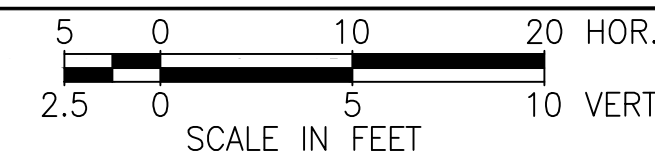
CROSS SECTIONS

SHEET NO.
92

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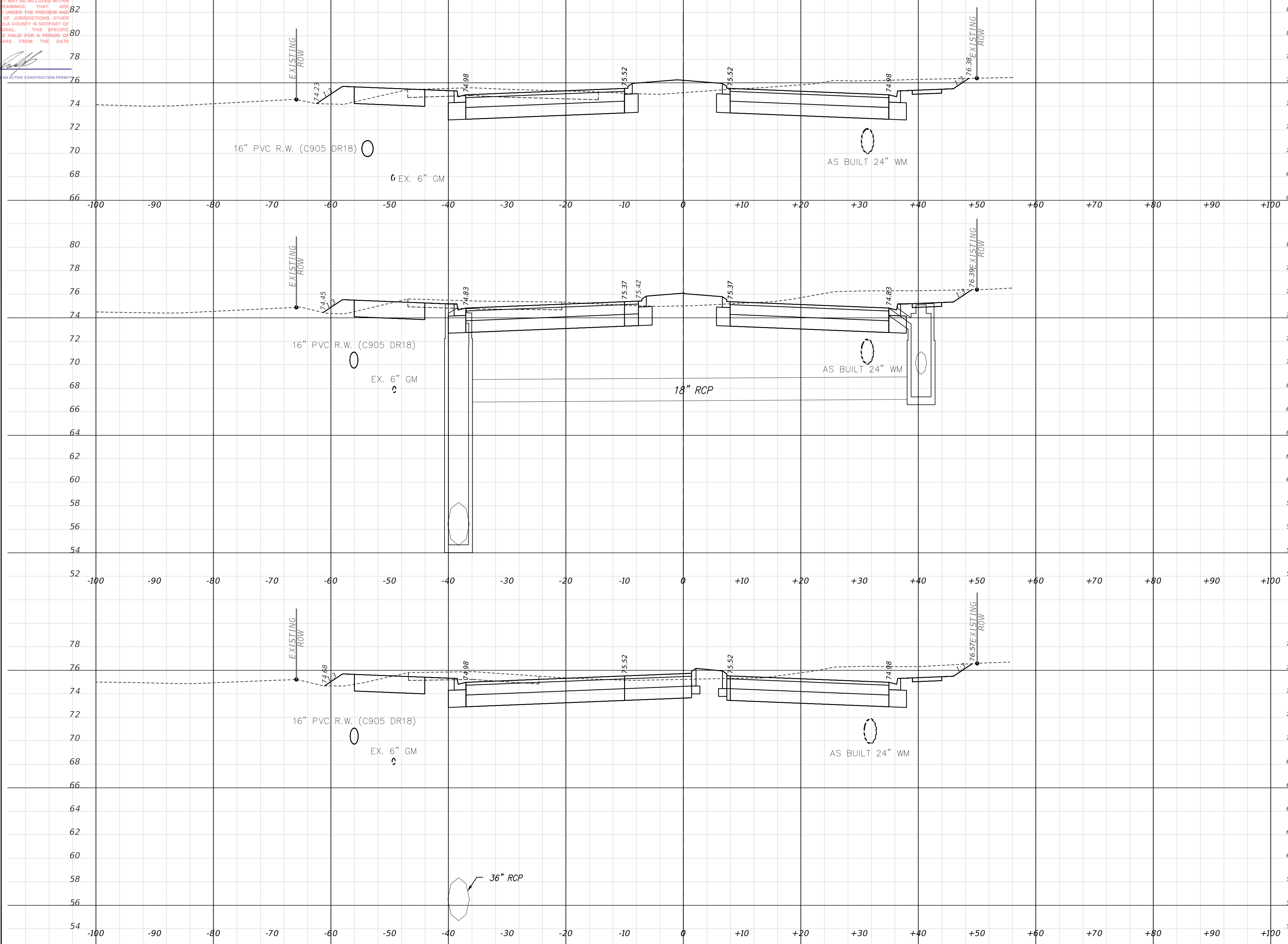
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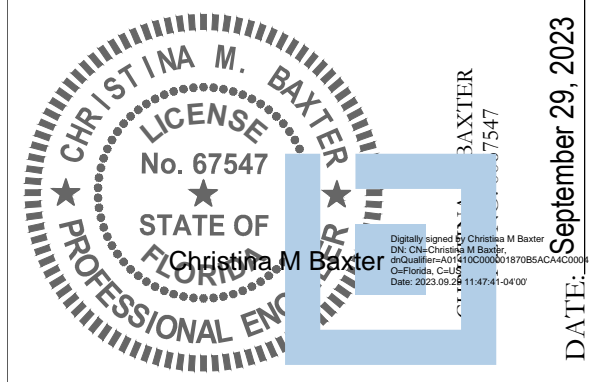
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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



180	349	19	31
196	364	15	17
197	357	4	7



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POULOS & BENNETT

Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
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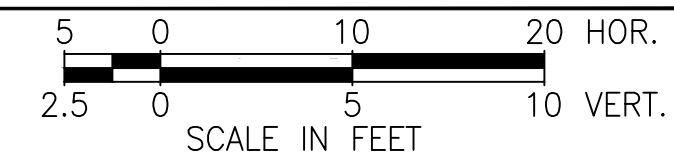
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
93

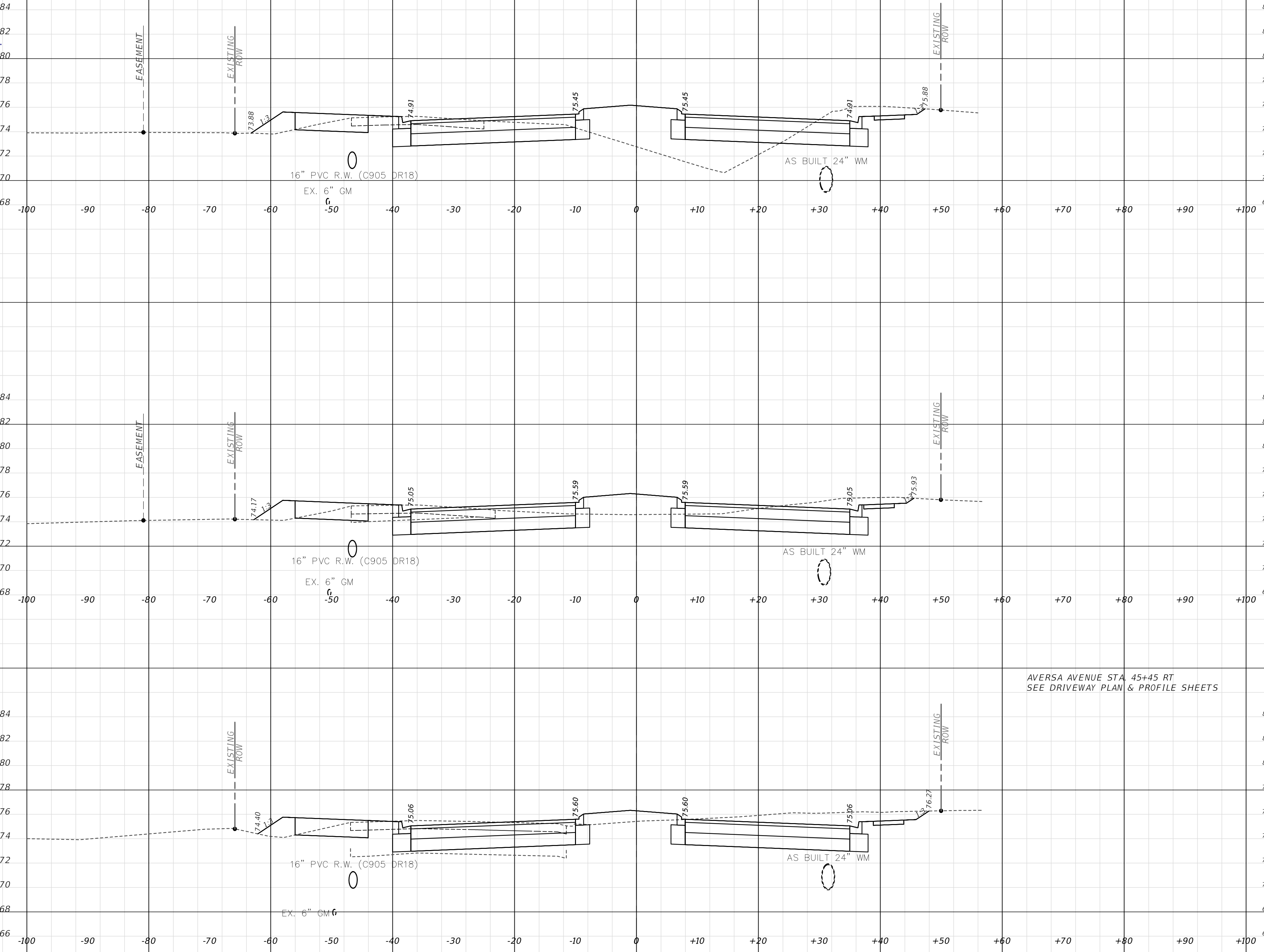
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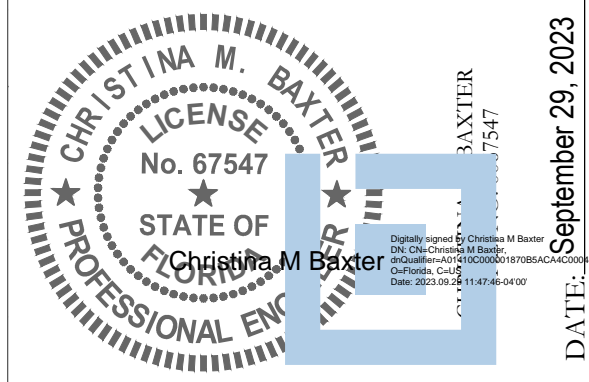
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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



104	177	80	80
136	770	29	116
172	163	18	17

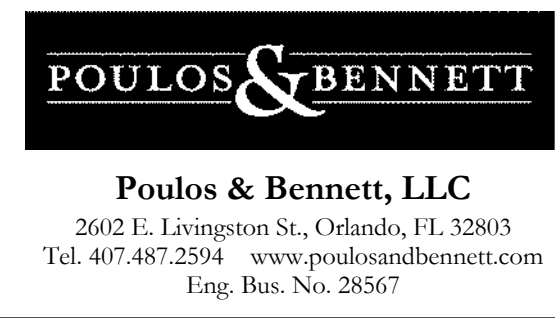
AVERSA AVENUE STA. 45+45 RT
SEE DRIVEWAY PLAN & PROFILE SHEETS



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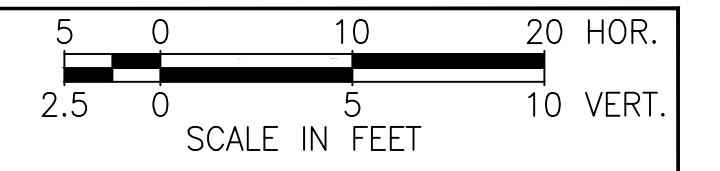
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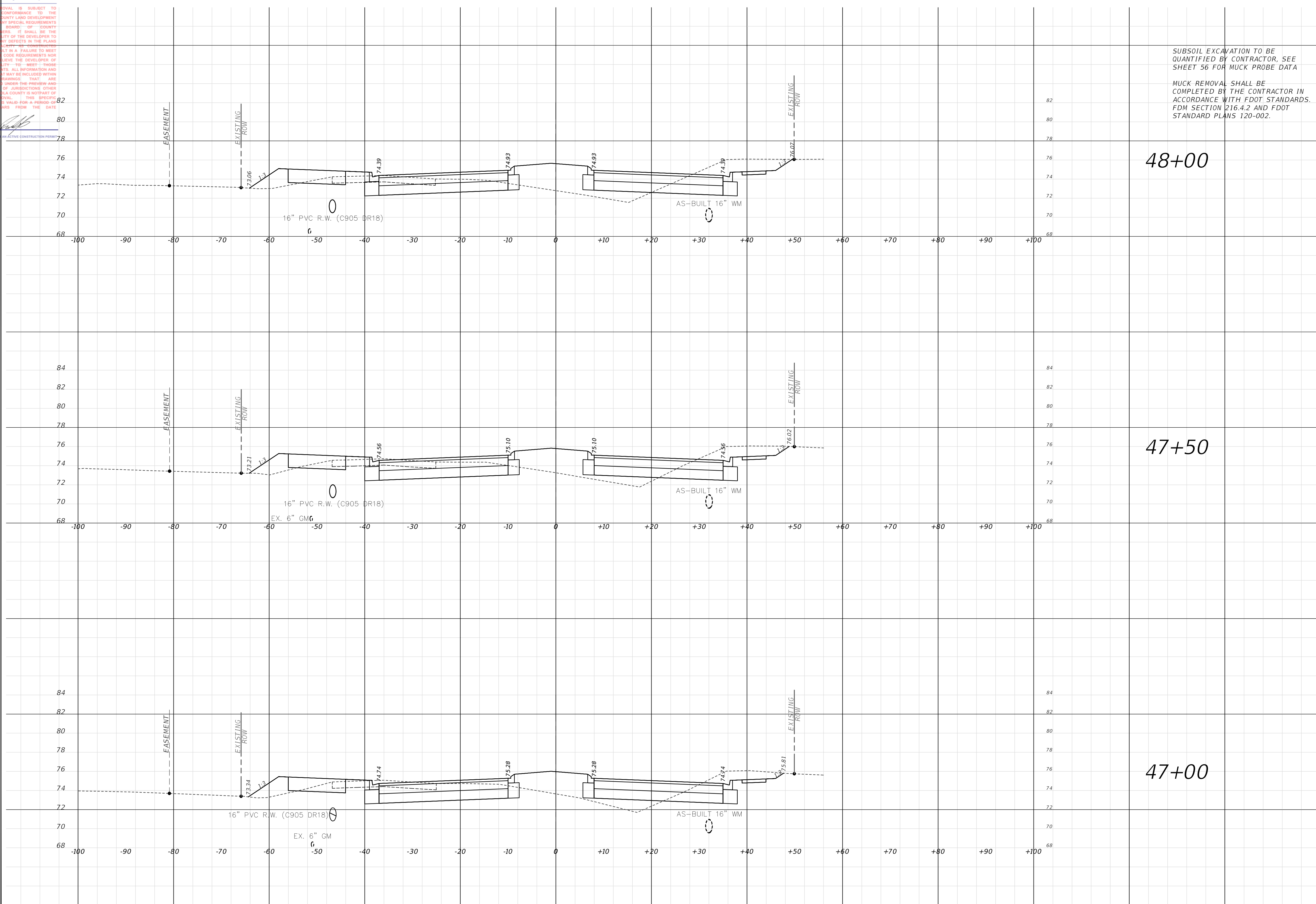
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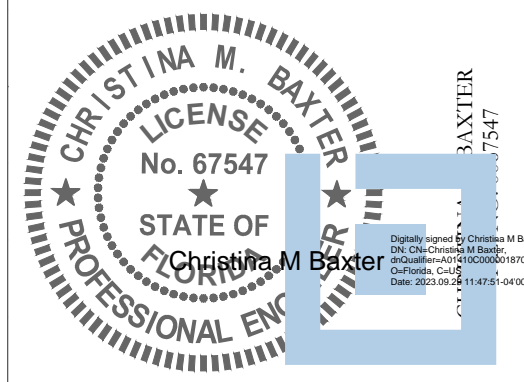


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A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



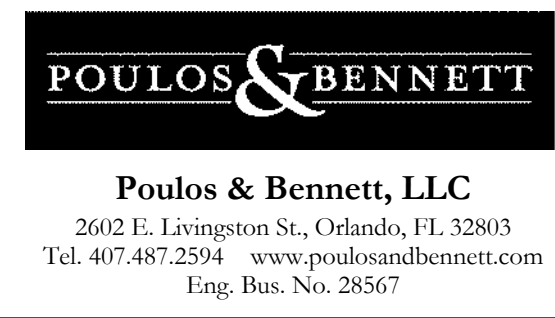
104	195	59	104
106	197	54	97
106	194	52	122



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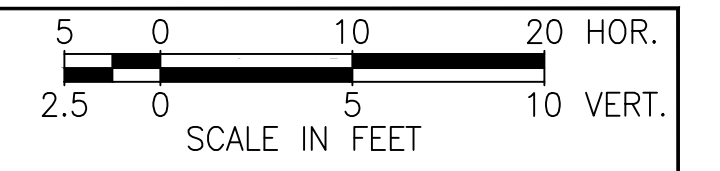
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

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ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

SHEET NO.
95

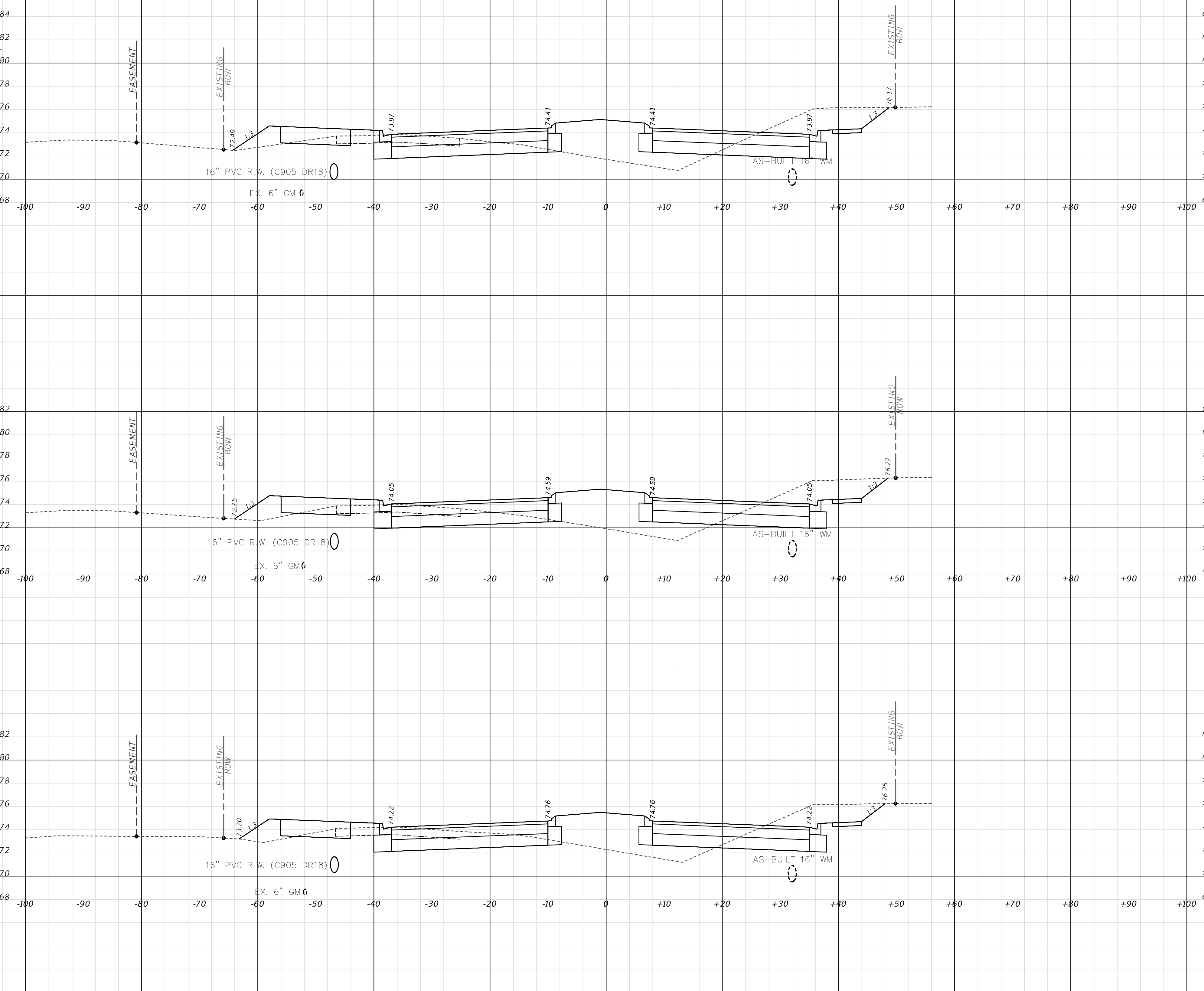
THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE FIELD. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES.

NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT

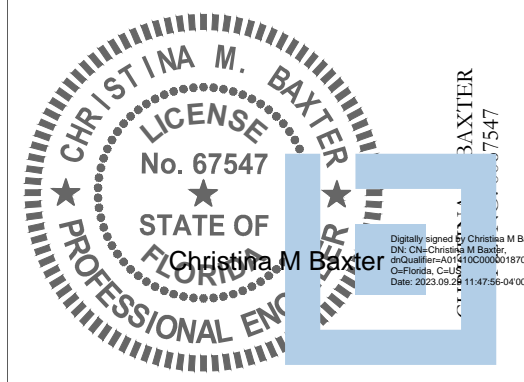


SUBSOIL EXCAVATION TO BE QUANTIFIED BY CONTRACTOR, SEE SHEET 56 FOR MUCK PROBE DATA
MUCK REMOVAL SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARDS, FDM SECTION 216.4.2 AND FDOT STANDARD PLANS 120-002.

Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



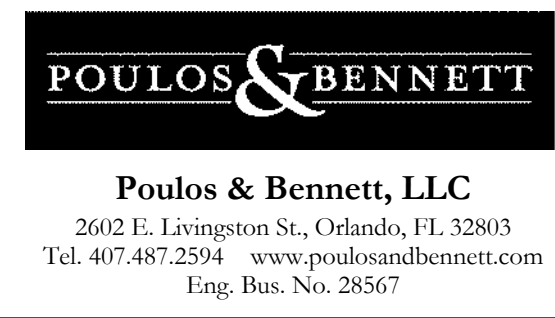
112	201	67	126
105	197	69	122
107	196	63	113



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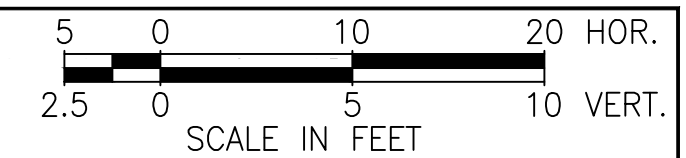
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

SHEET NO.
96

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND BY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE INFORMATION PROVIDED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS FOR THESE PLANS. THE DEVELOPER DOES NOT WAIVE THE RESPONSIBILITY OF THE DEVELOPER OF RESPONSIBILITY TO MEET THESE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE PLANS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTION OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

93	192	89	145		
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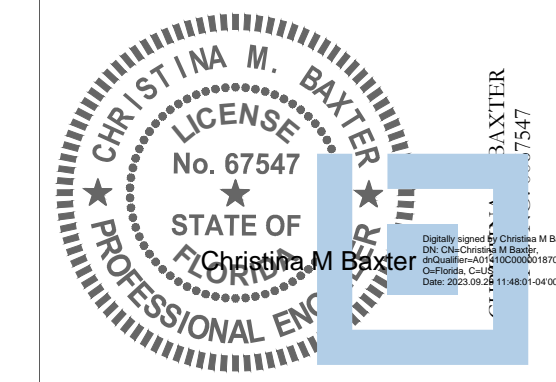
51+00

114	216	68	120		
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50+50

119	214	62	119		
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50+00



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POULOS & BENNETT
Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

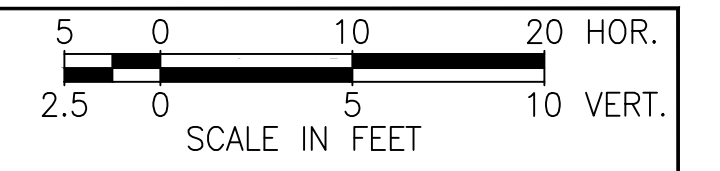
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
97

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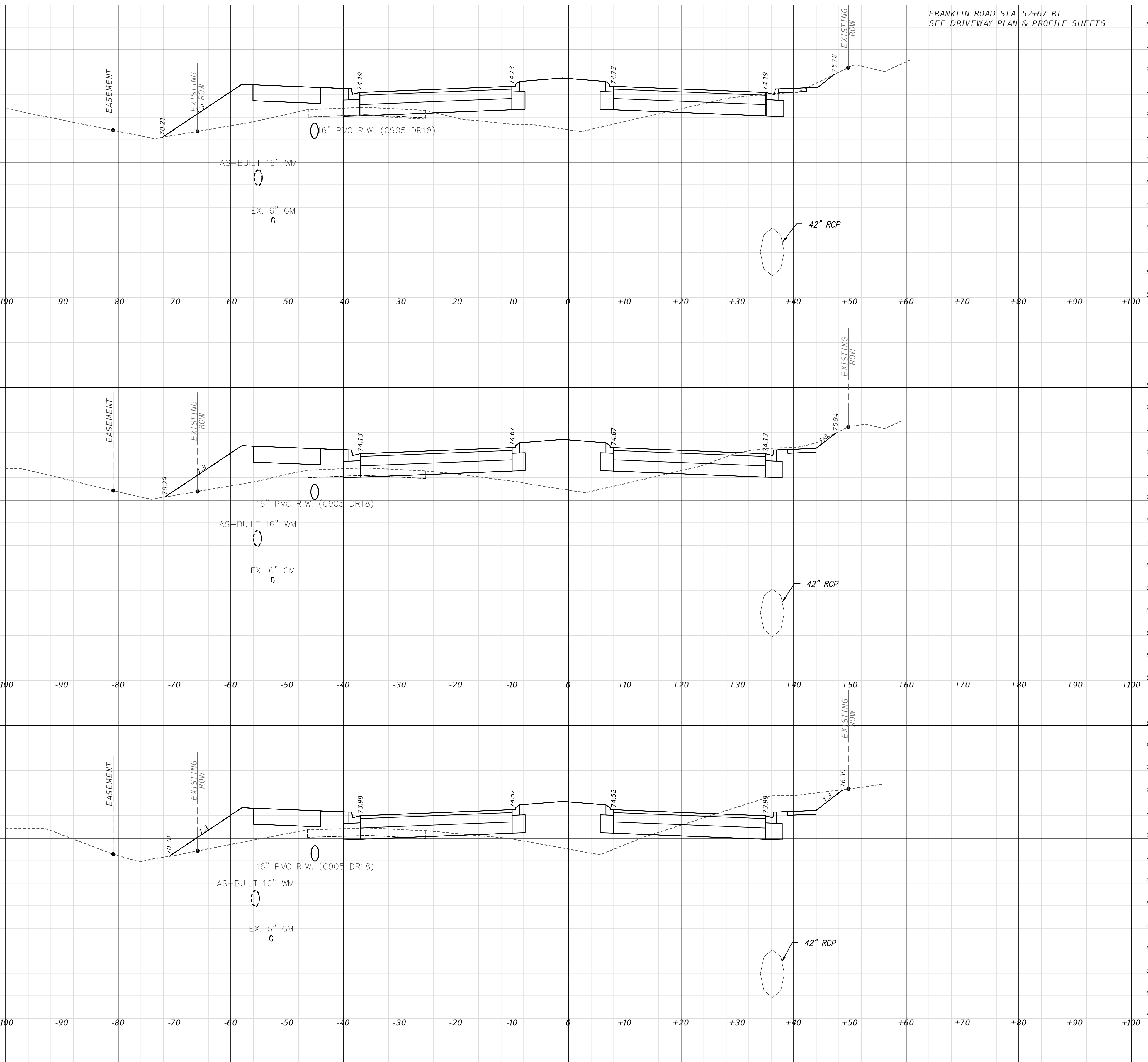
NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



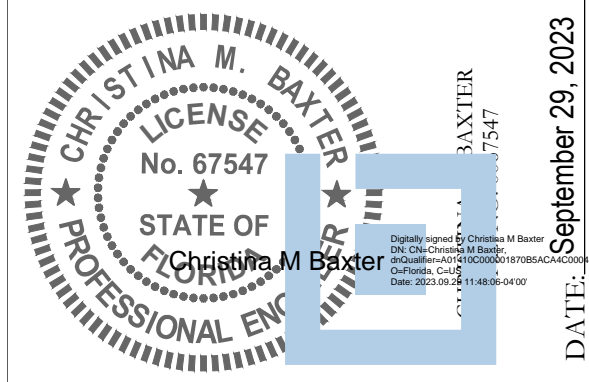
FRANKLIN ROAD STA. 52+67 RT
SEE DRIVEWAY PLAN & PROFILE SHEETS

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MUCK REMOVAL SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARDS, FDM SECTION 216.4.2 AND FDOT STANDARD PLANS 120-002.

Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



35	30	133	95
45	112	123	213
77	157	107	181

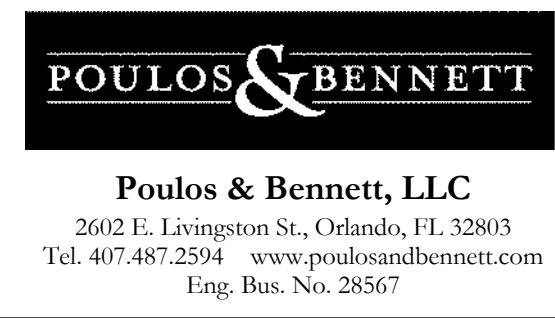


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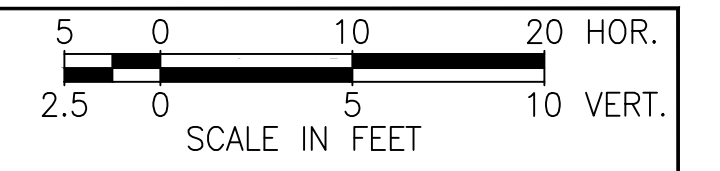
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

SHEET NO.
98

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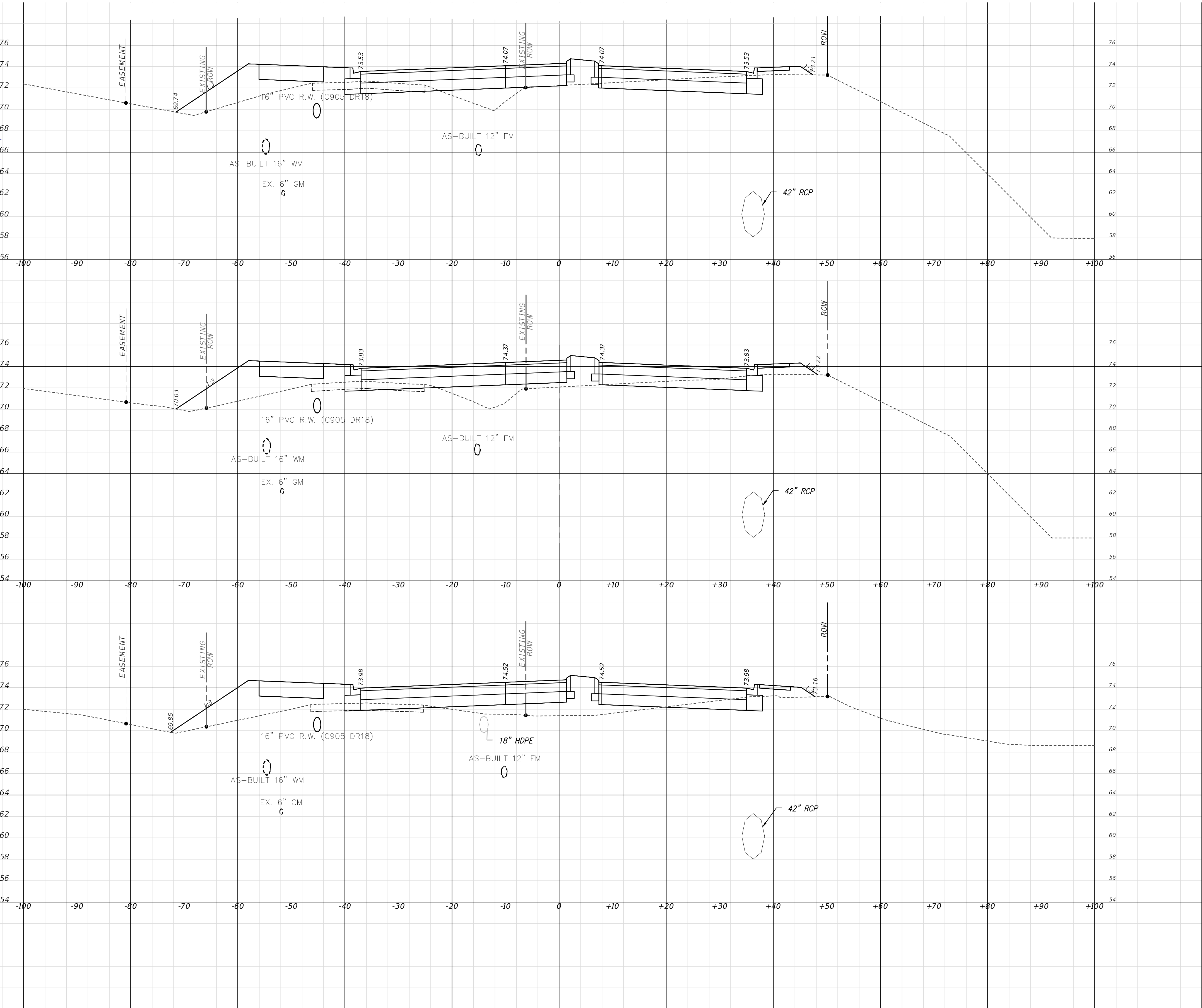
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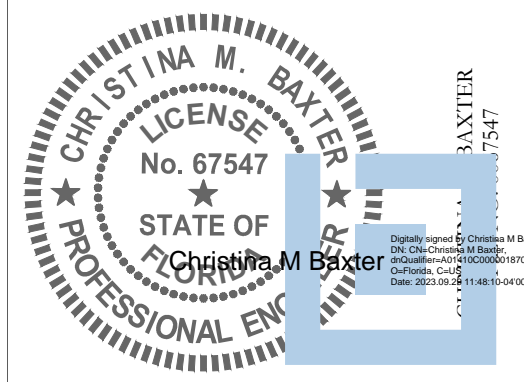
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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

50	75	84	174		
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54+00	32	24	103	103
53+50	21	110	119	489



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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

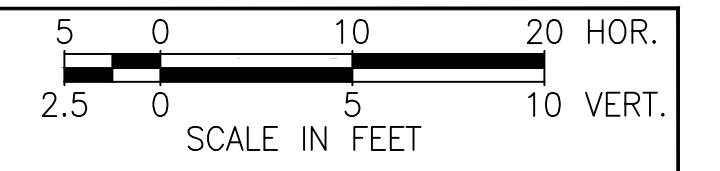
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
99

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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

86	154	73	126		
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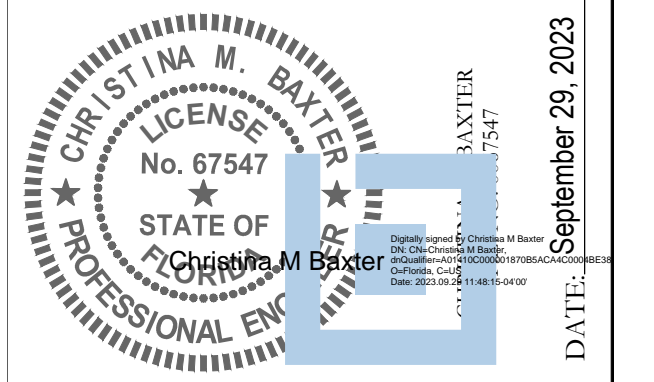
55+50

81	134	64	134		
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55+00

64	105	81	154		
----	-----	----	-----	--	--

54+50



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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

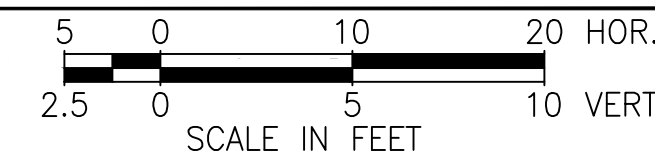
CROSS SECTIONS

SHEET NO.

100

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Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)

75	239	87	295
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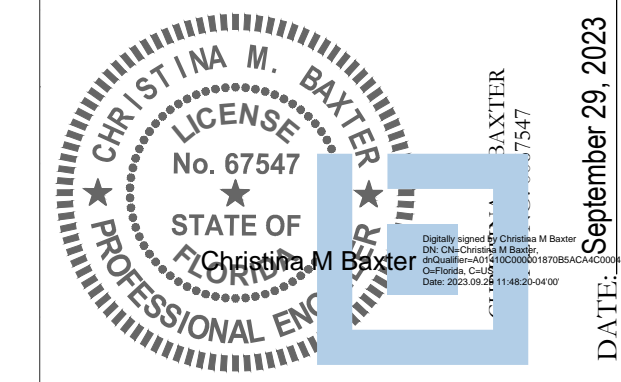
57+00

97	73	125	101
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56+25

61	136	93	154
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56+00

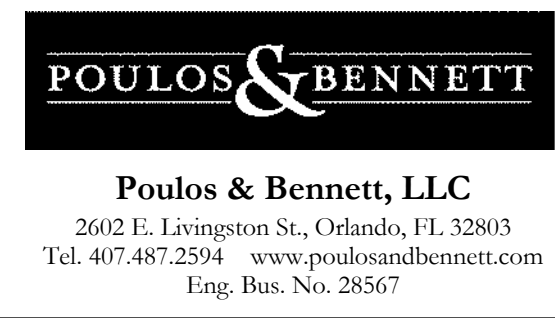


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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

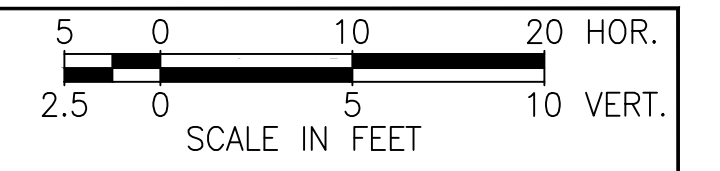
CROSS SECTIONS

SHEET NO.

101

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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

72	184	48	183		
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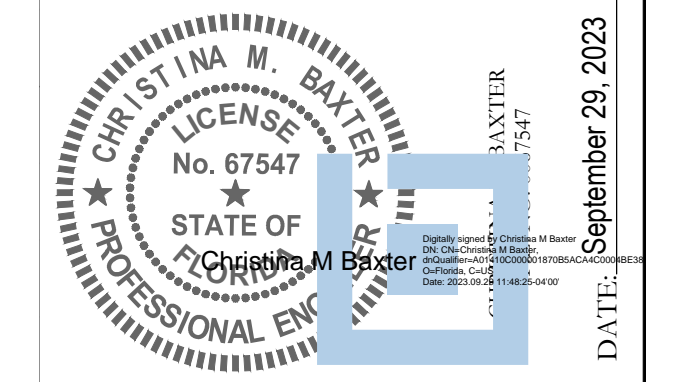
58+50

57+75

57+50

60	57	84	81		
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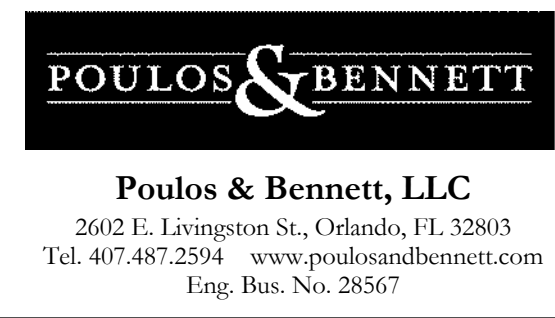
64	128	91	165		
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PROJECT NO. (SDP23-0132)

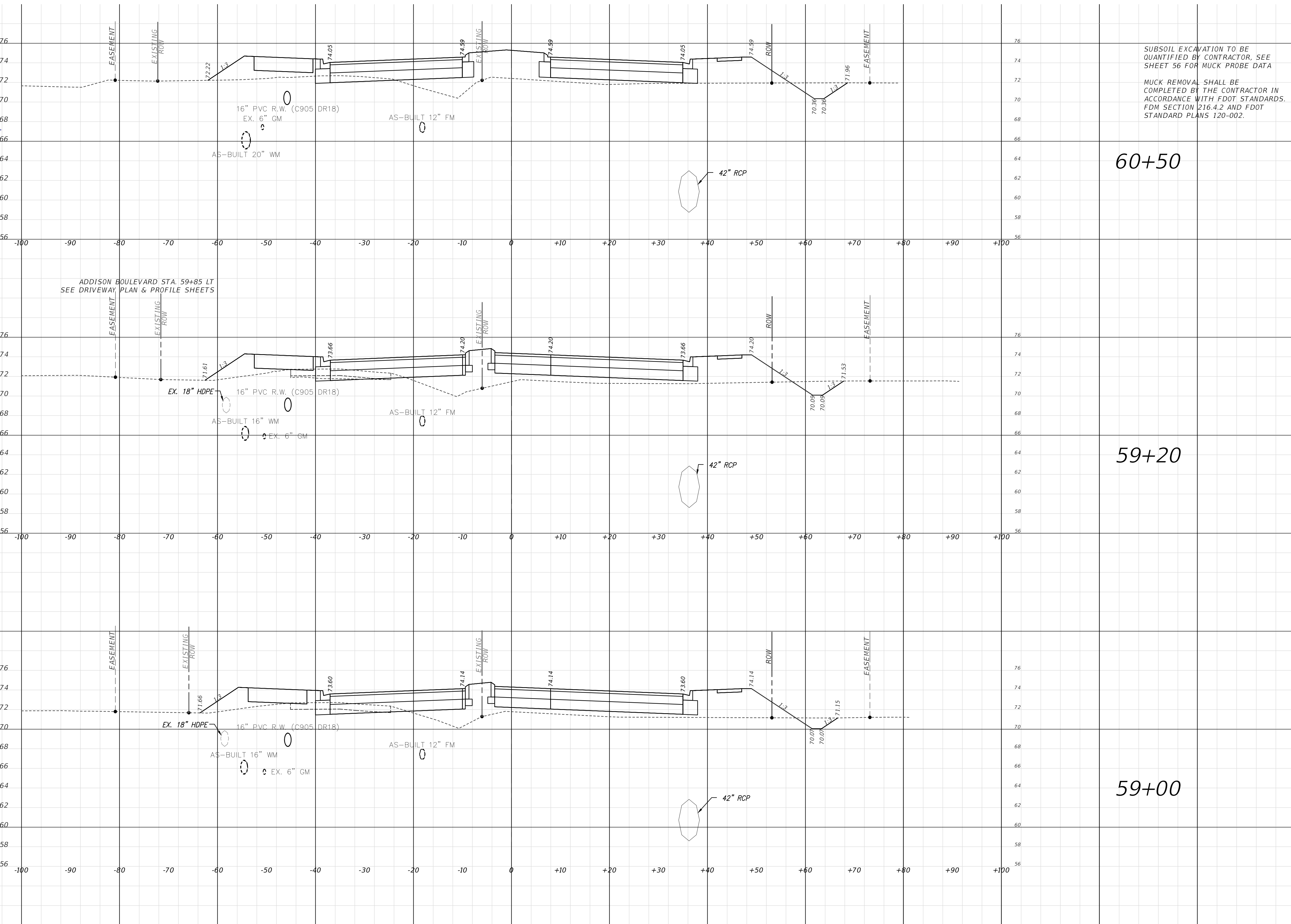
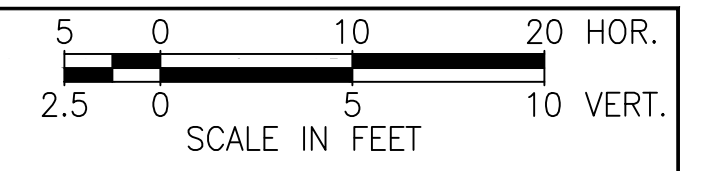
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
102

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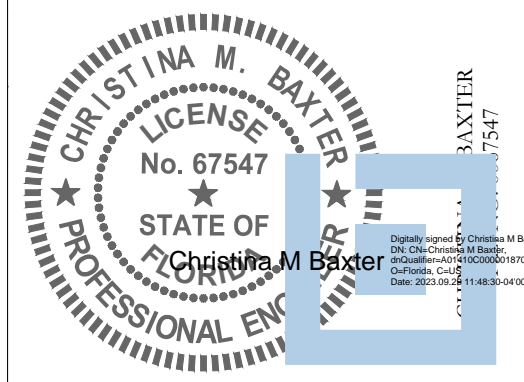
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SUBSOIL EXCAVATION TO BE QUANTIFIED BY CONTRACTOR, SEE SHEET 56 FOR MUCK PROBE DATA
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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
131	373	114	582		
24	17	128	87		
22	87	107	144		

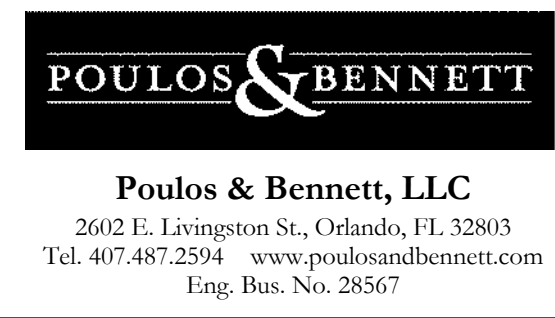
ADDISON BOULEVARD STA. 59+85 LT
SEE DRIVEWAY PLAN & PROFILE SHEETS



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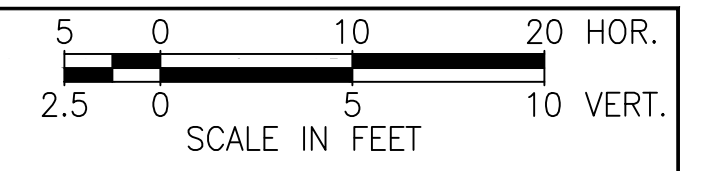
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

SHEET NO.
103

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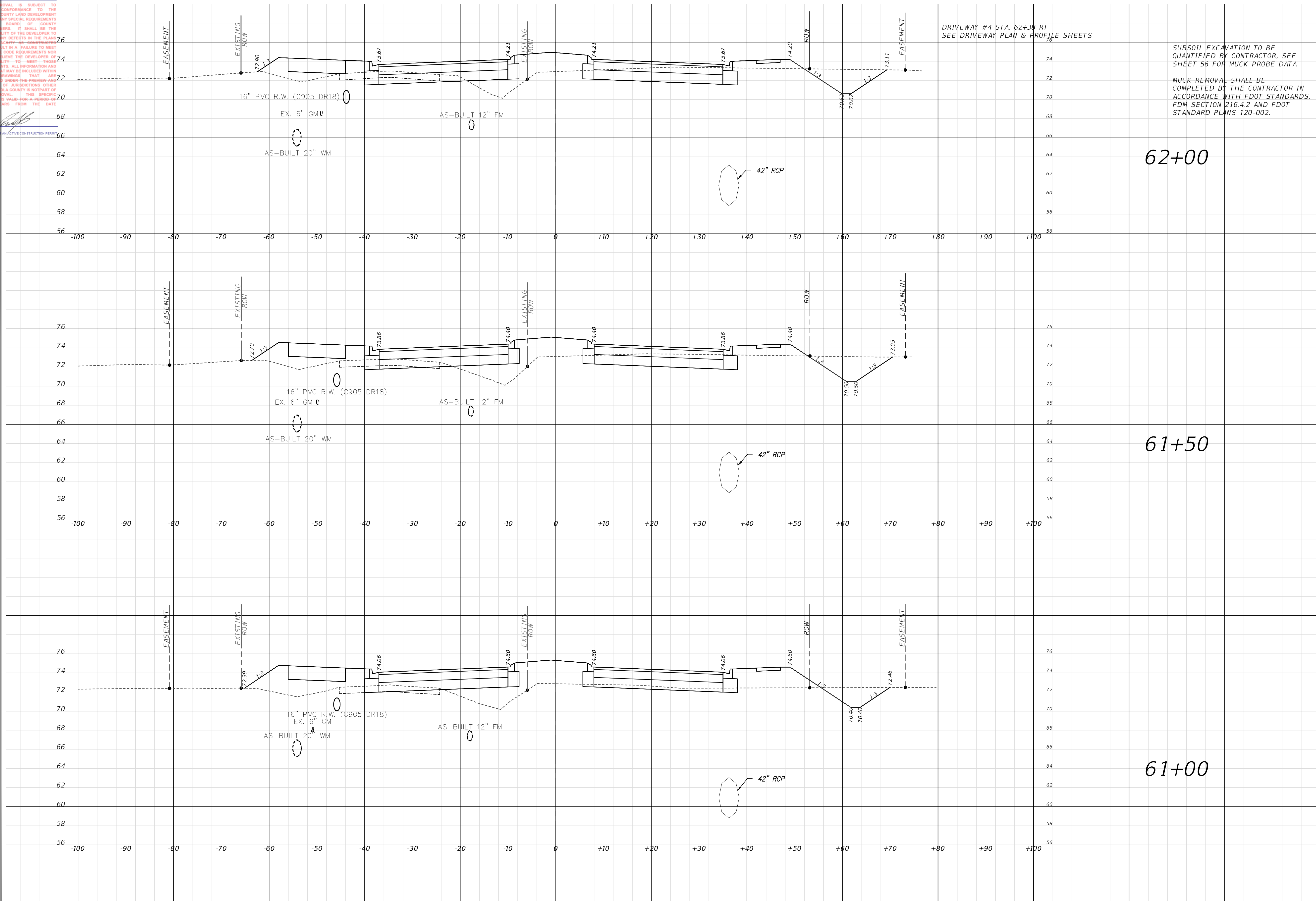


DRIVEWAY #4 STA. 62+38 RT
SEE DRIVEWAY PLAN & PROFILE SHEETS

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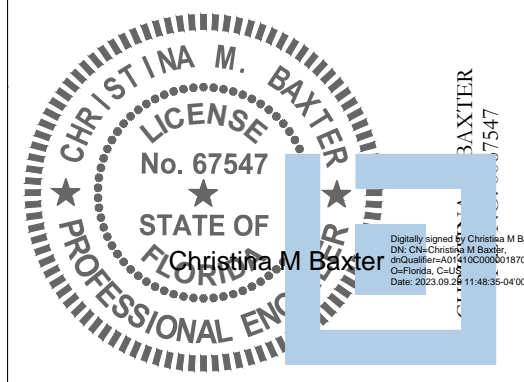
Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

92	160	69	143		
----	-----	----	-----	--	--



80	107	85	191		
----	-----	----	-----	--	--

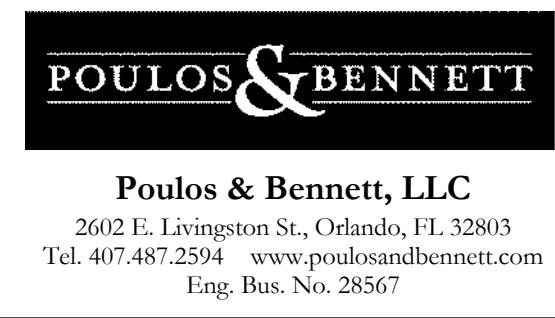
36	154	122	218		
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CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

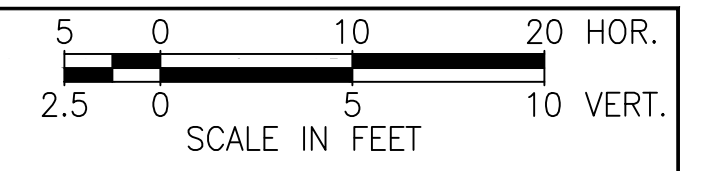
CROSS SECTIONS

SHEET NO.

104

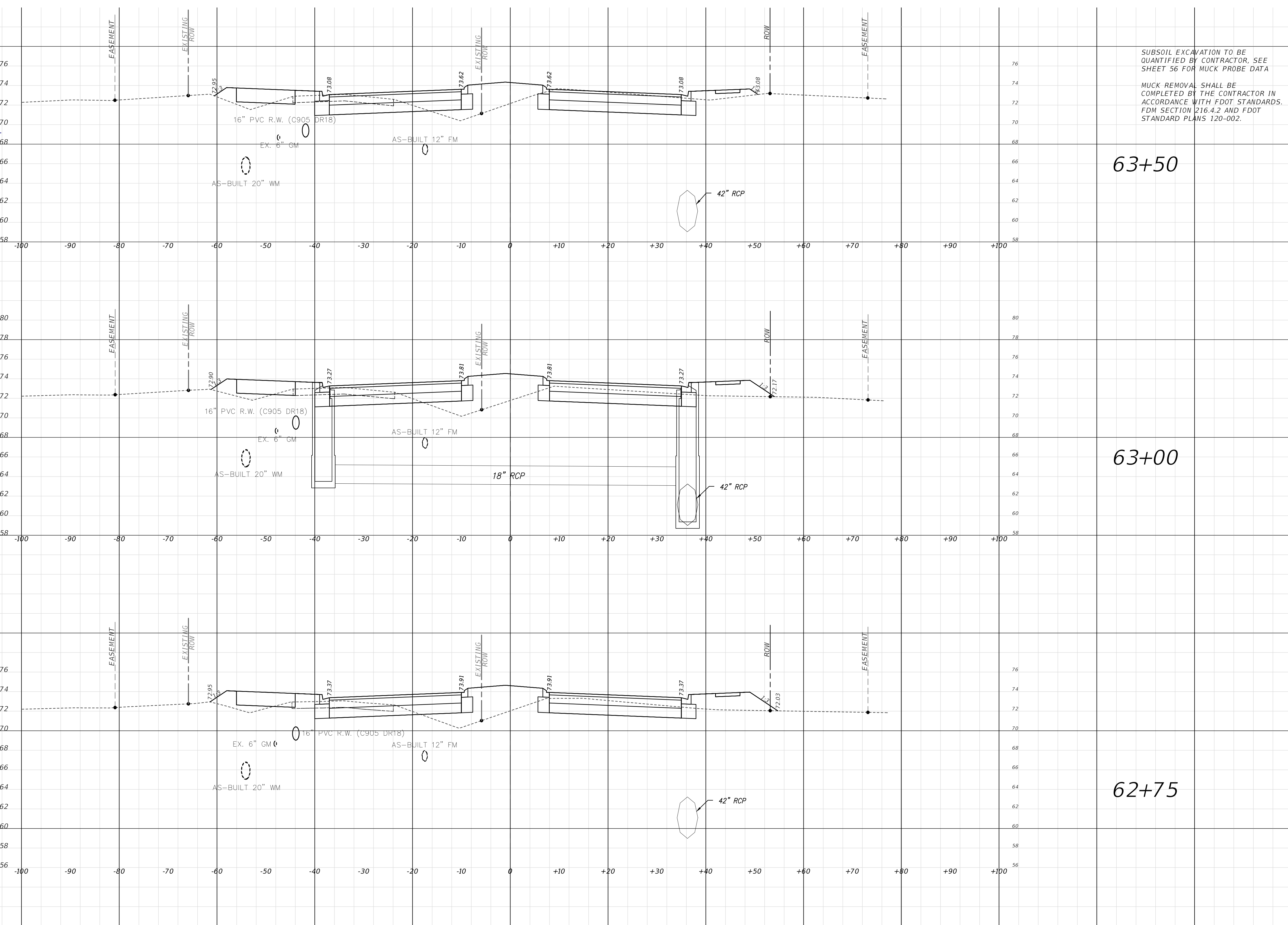
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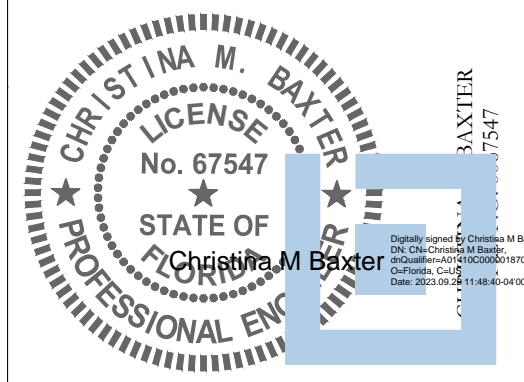


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Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)



99	162	54	121
76	69	77	73
73	230	80	208



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DATE: September 29, 2023

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DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT
Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

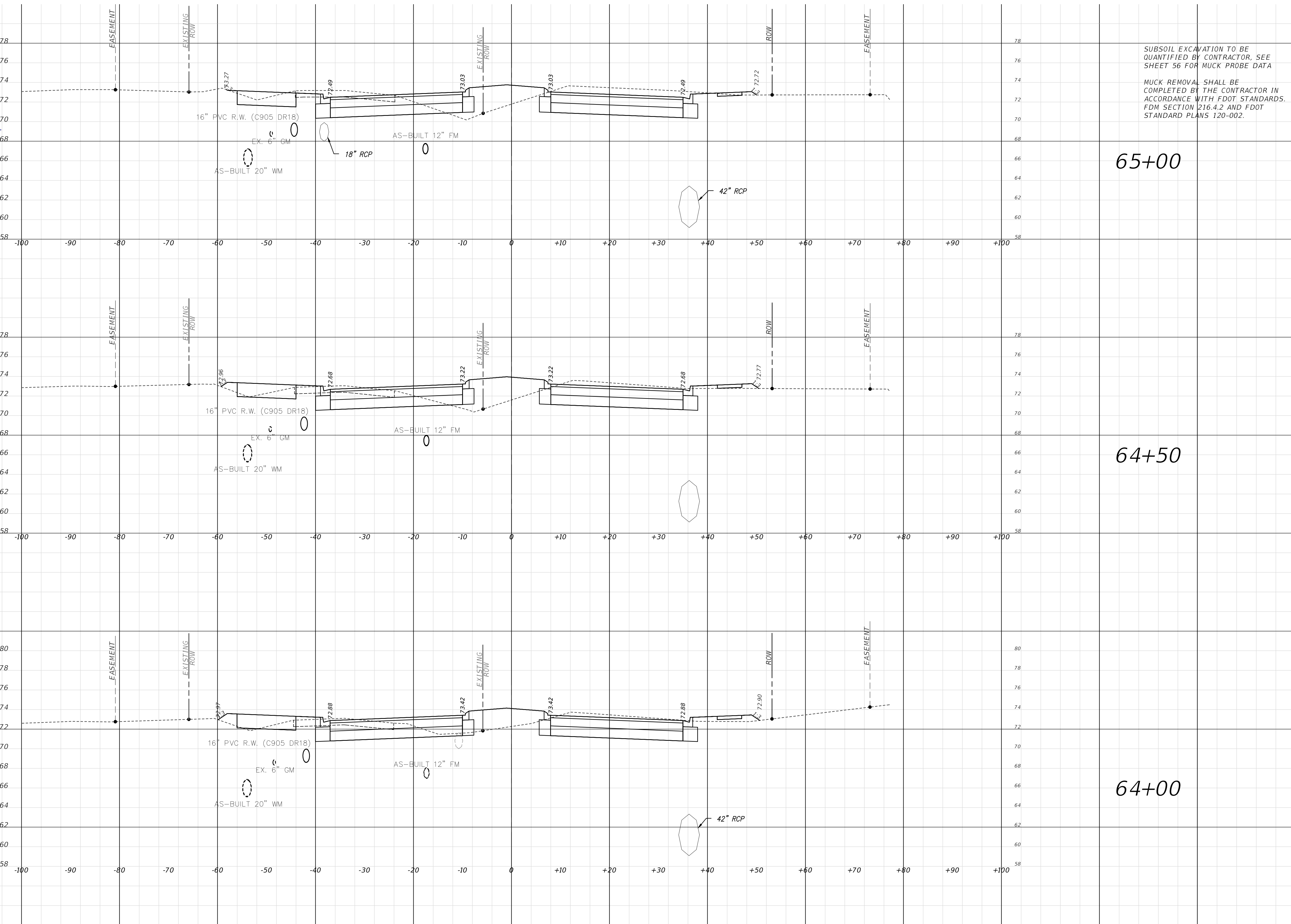
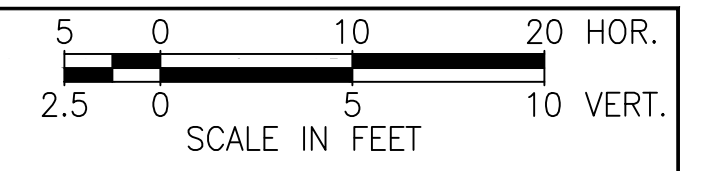
CROSS SECTIONS

SHEET NO.

105

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLAN OR THE PLAN IS VOID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

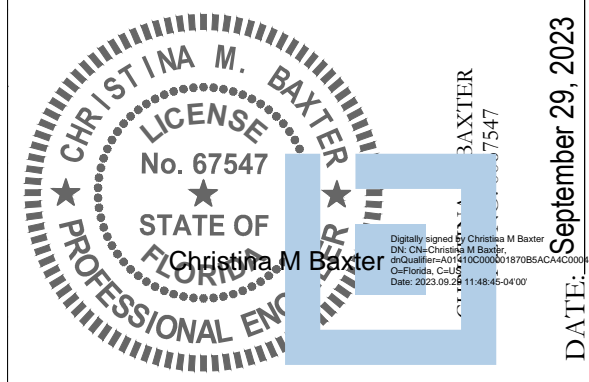
NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



SUBSOIL EXCAVATION TO BE QUANTIFIED BY CONTRACTOR, SEE SHEET 56 FOR MUCK PROBE DATA

MUCK REMOVAL SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARDS, FDM SECTION 216.4.2 AND FDOT STANDARD PLANS 120-002.

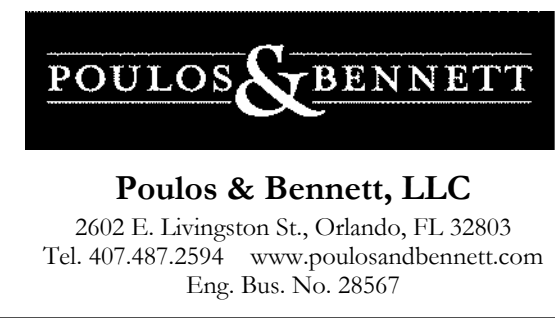
Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
152	256	30	64	30	64
124	226	39	68	39	68
120	203	34	81	34	81



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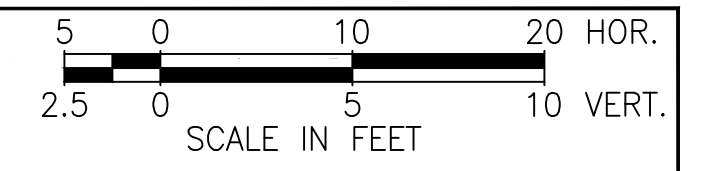
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

SHEET NO.
106

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FUTURE CONNECTION #1 STA. 65+95 RT
SEE DRIVEWAY PLAN & PROFILE SHEETS

SUBSOIL EXCAVATION TO BE QUANTIFIED BY CONTRACTOR, SEE SHEET 56 FOR MUCK PROBE DATA
MUCK REMOVAL SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARDS, FDM SECTION 216.4.2 AND FDOT STANDARD PLANS 120-002.

Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)

166	322	36	55
-----	-----	----	----

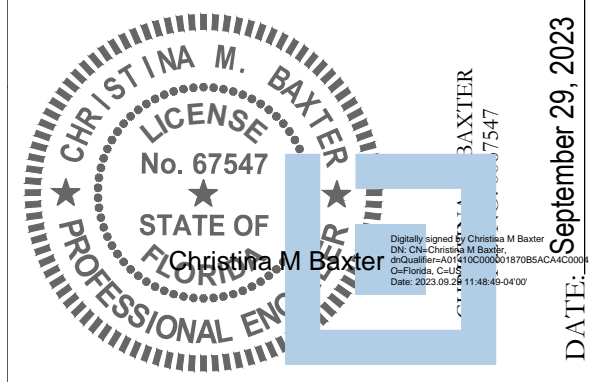
67+00

181	695	23	95
-----	-----	----	----

66+50

176	274	26	47
-----	-----	----	----

65+45



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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

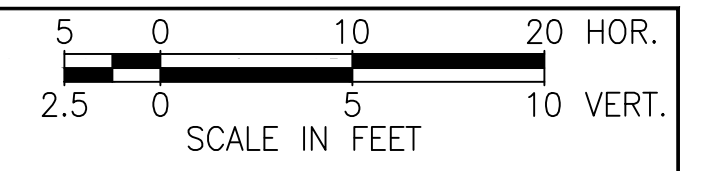
CROSS SECTIONS

SHEET NO.

107

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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

85	178	76	123		
----	-----	----	-----	--	--

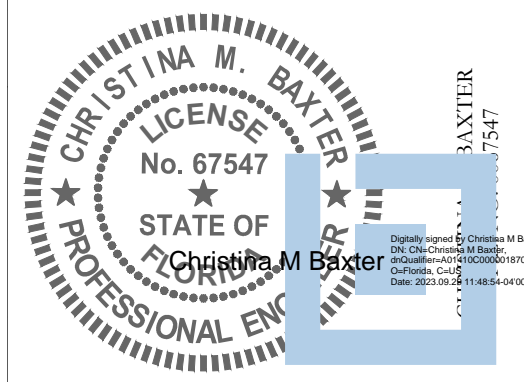
68+50

107	229	57	96		
-----	-----	----	----	--	--

68+00

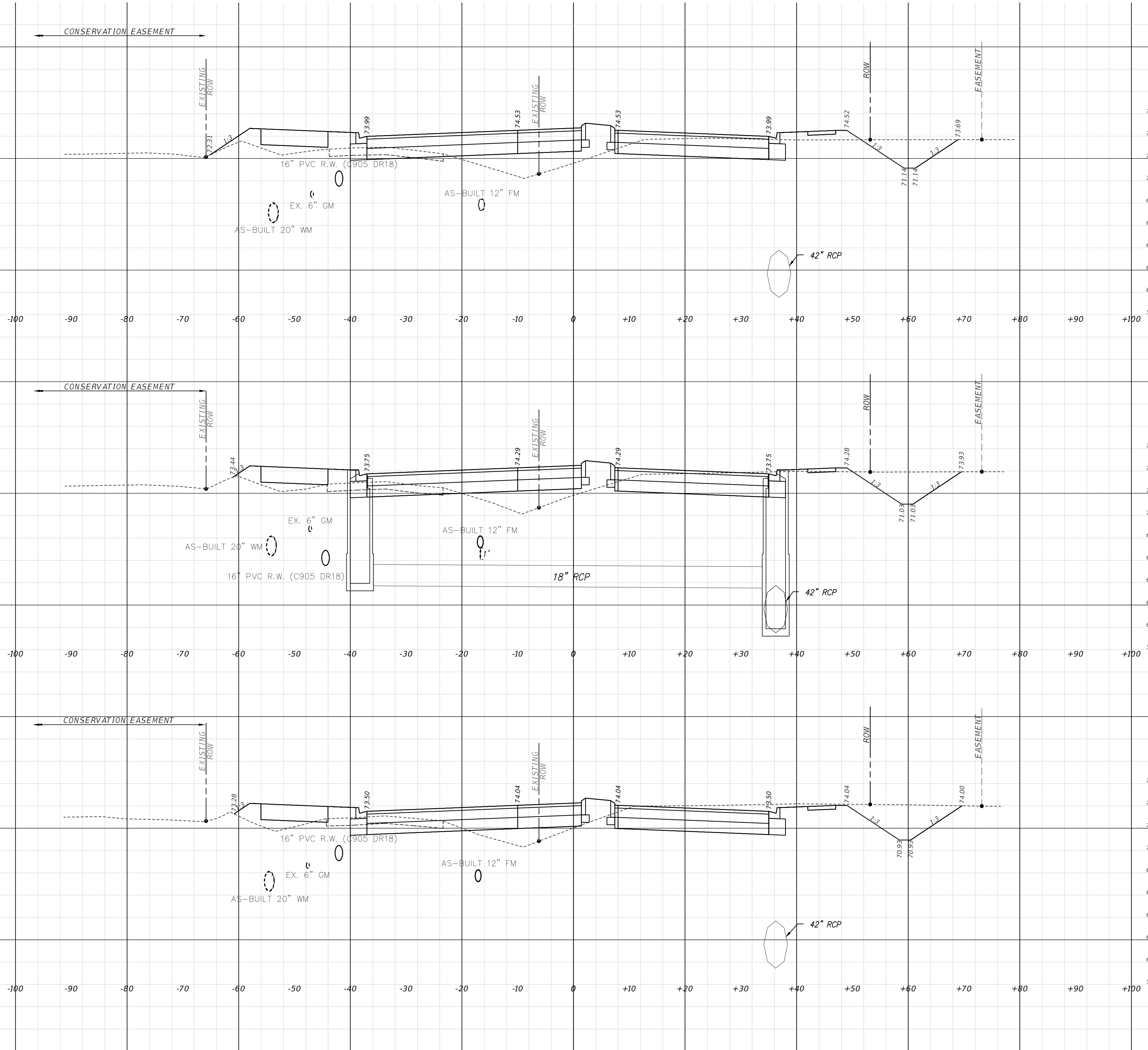
140	284	47	77		
-----	-----	----	----	--	--

67+50



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OSCEOLA COUNTY
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ABSHER ROAD - ROAD WIDENING

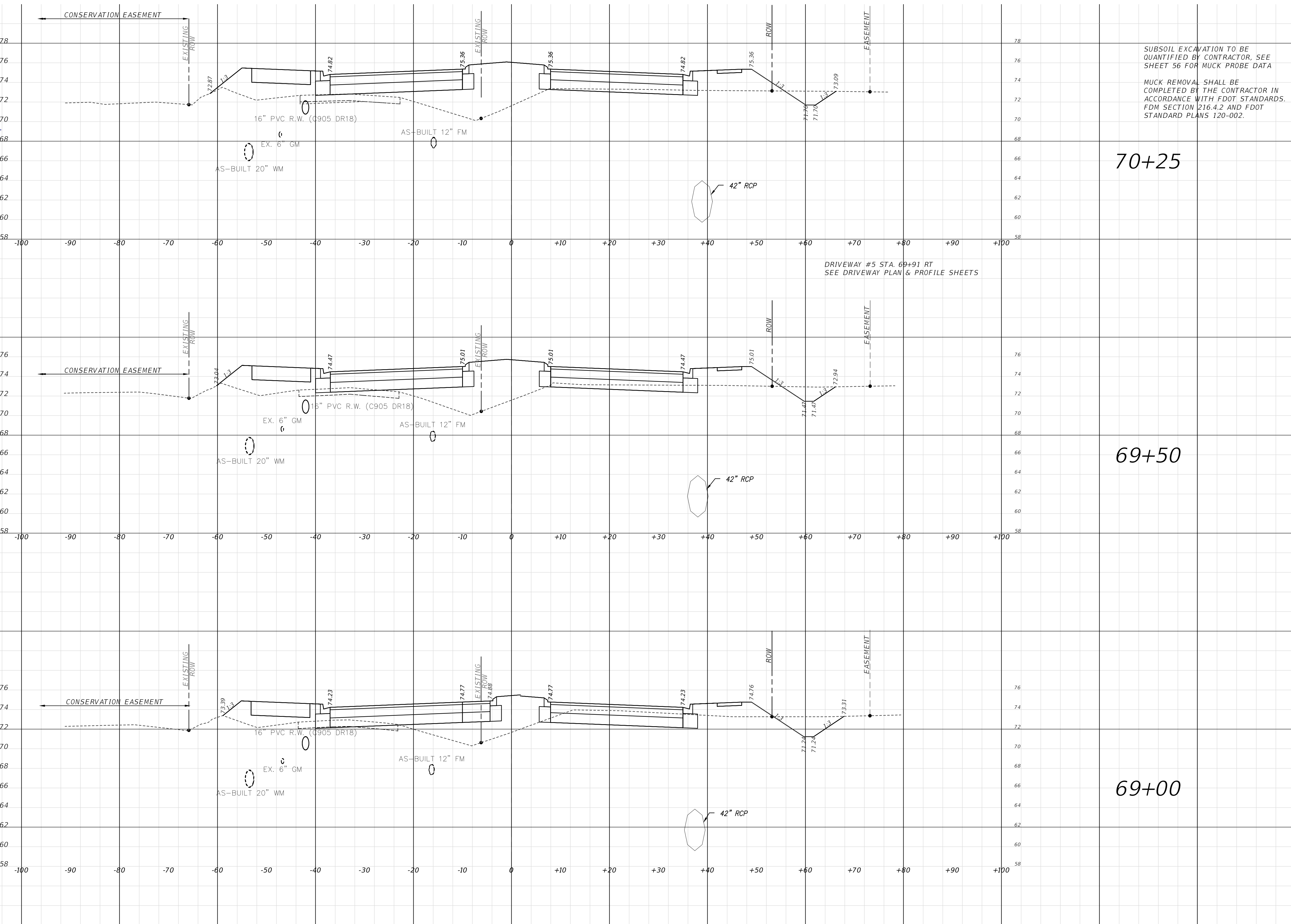
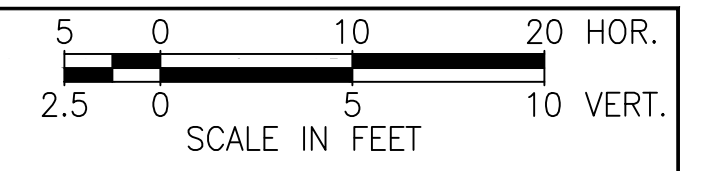
CROSS SECTIONS

SHEET NO.

108

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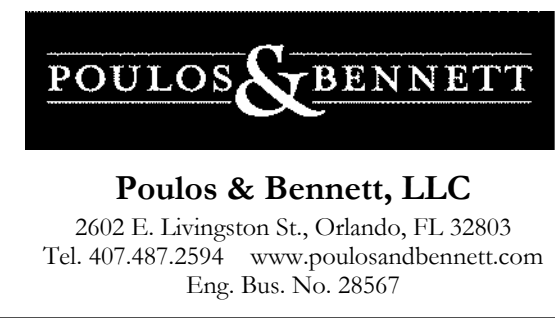
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MUCK REMOVAL SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARDS, FDM SECTION 216.4.2 AND FDOT STANDARD PLANS 120-002.

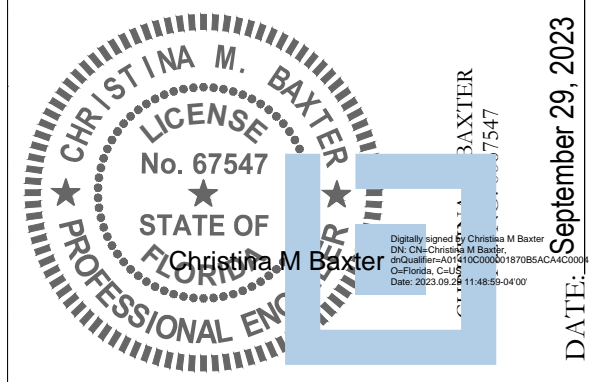
	Regular	Exc.	Embankment	
	A(sf)	V(cy)	A(sf)	V(cy)
70+25	19	66	153	399
69+50	29	89	134	210
69+00	67	141	93	157

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
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CROSS SECTIONS

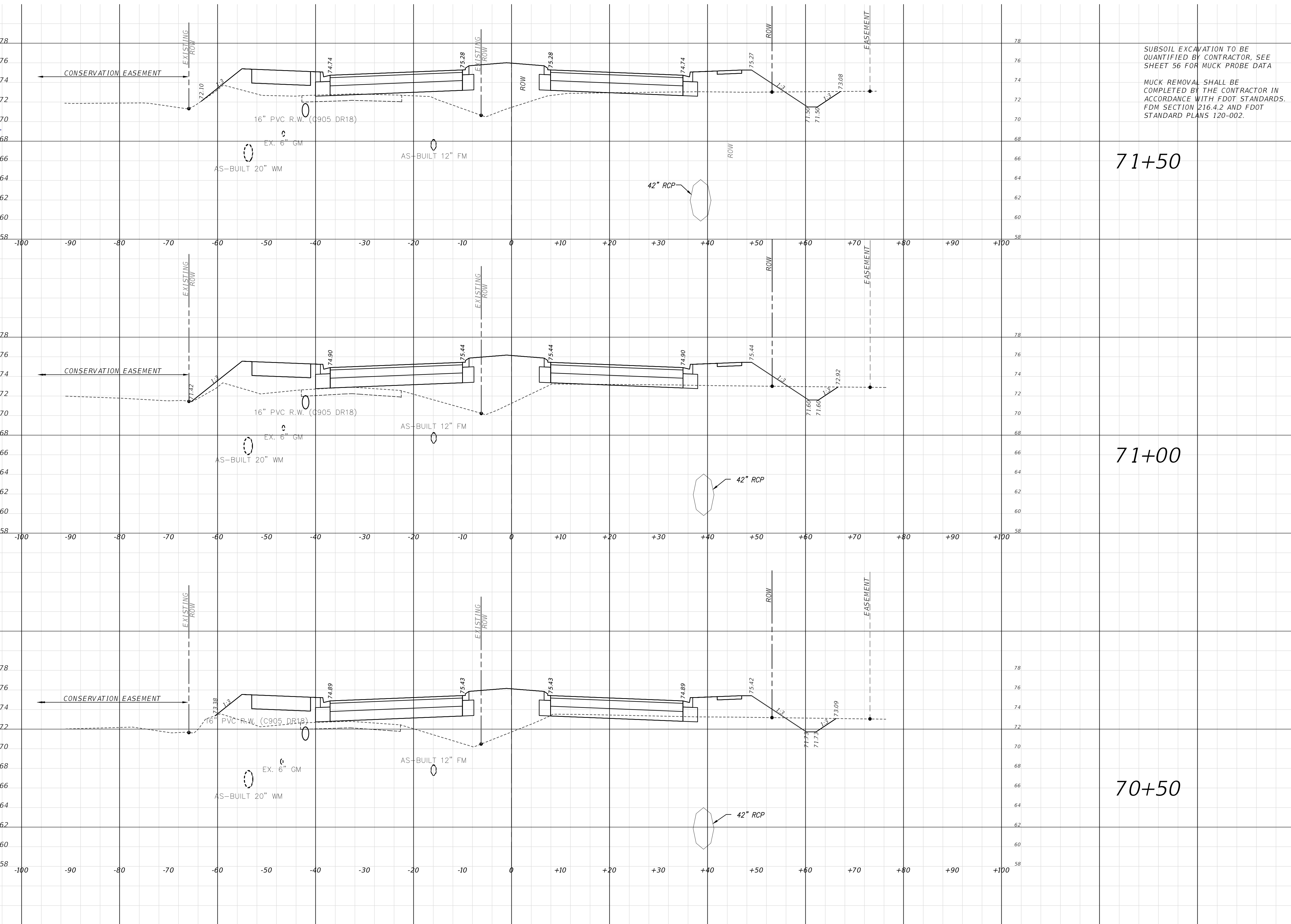
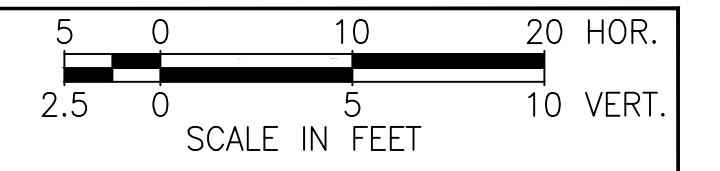


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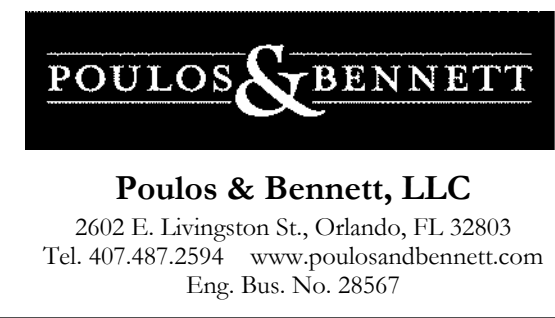


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	Regular	Exc.	Embankment	
	A(sf)	V(cy)	A(sf)	V(cy)
71+50	15	25	136	279
71+00	12	29	165	297
70+50	19	18	156	143

REVISIONS

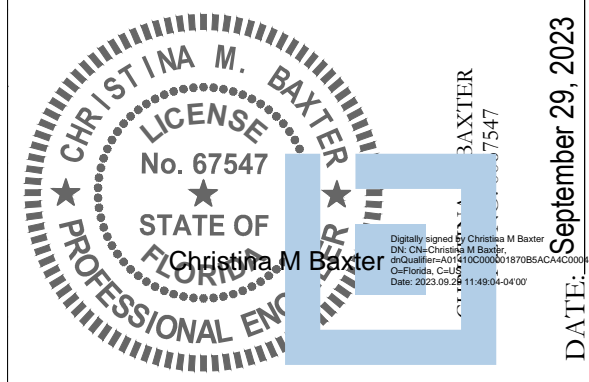
DATE	DESCRIPTION	DATE	DESCRIPTION



OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

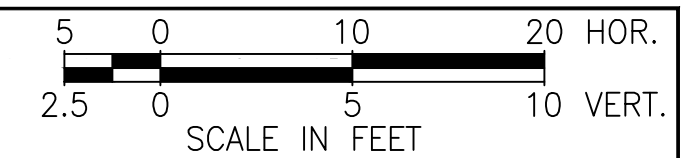
SHEET NO.
110



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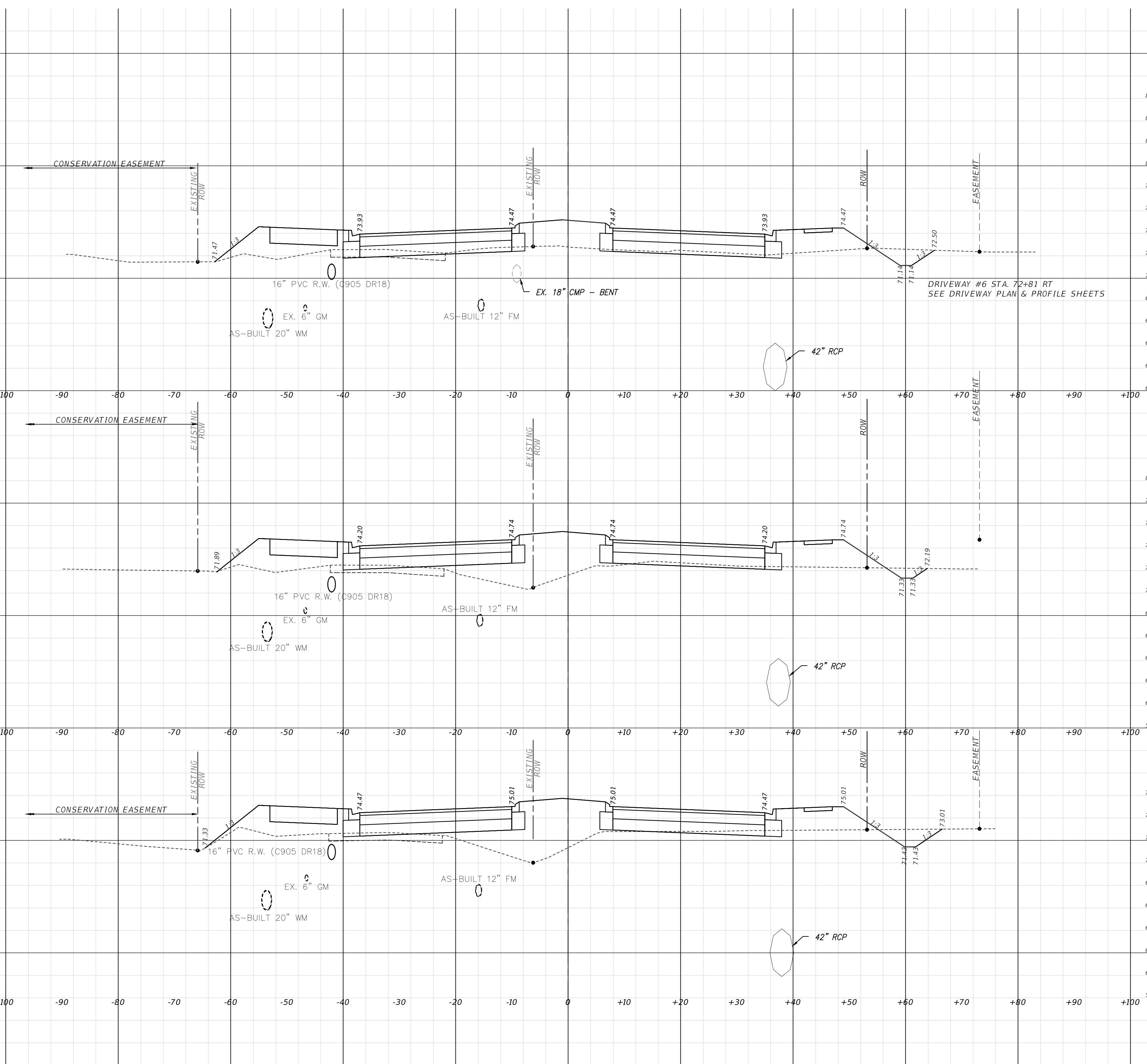
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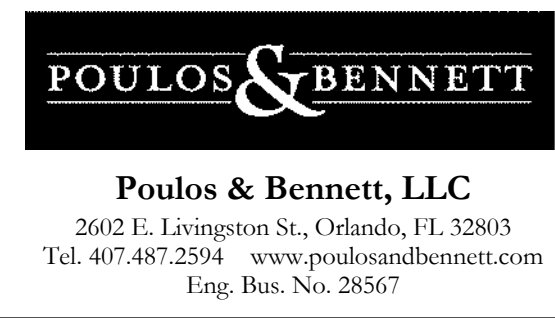
Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

30	41	83	203		
14	31	136	252		
19	32	136	251		



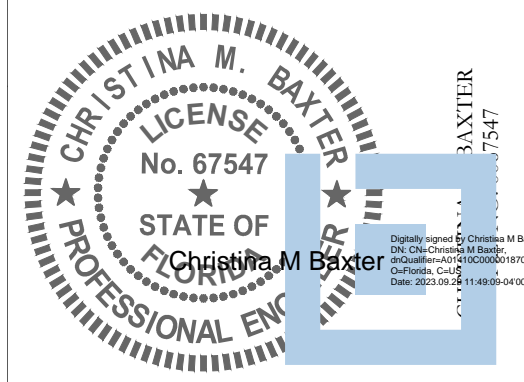
REVISIONS

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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

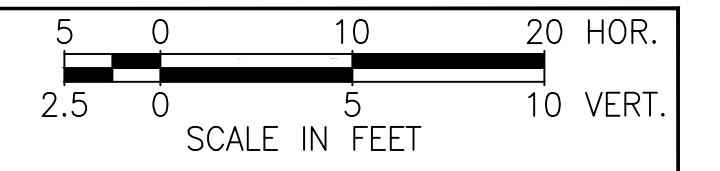


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SHEET NO.
111

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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

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49	82	109	201		
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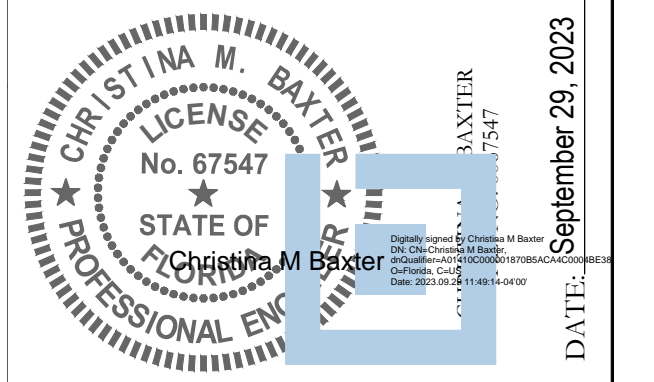
74+50

40	69	108	204		
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74+00

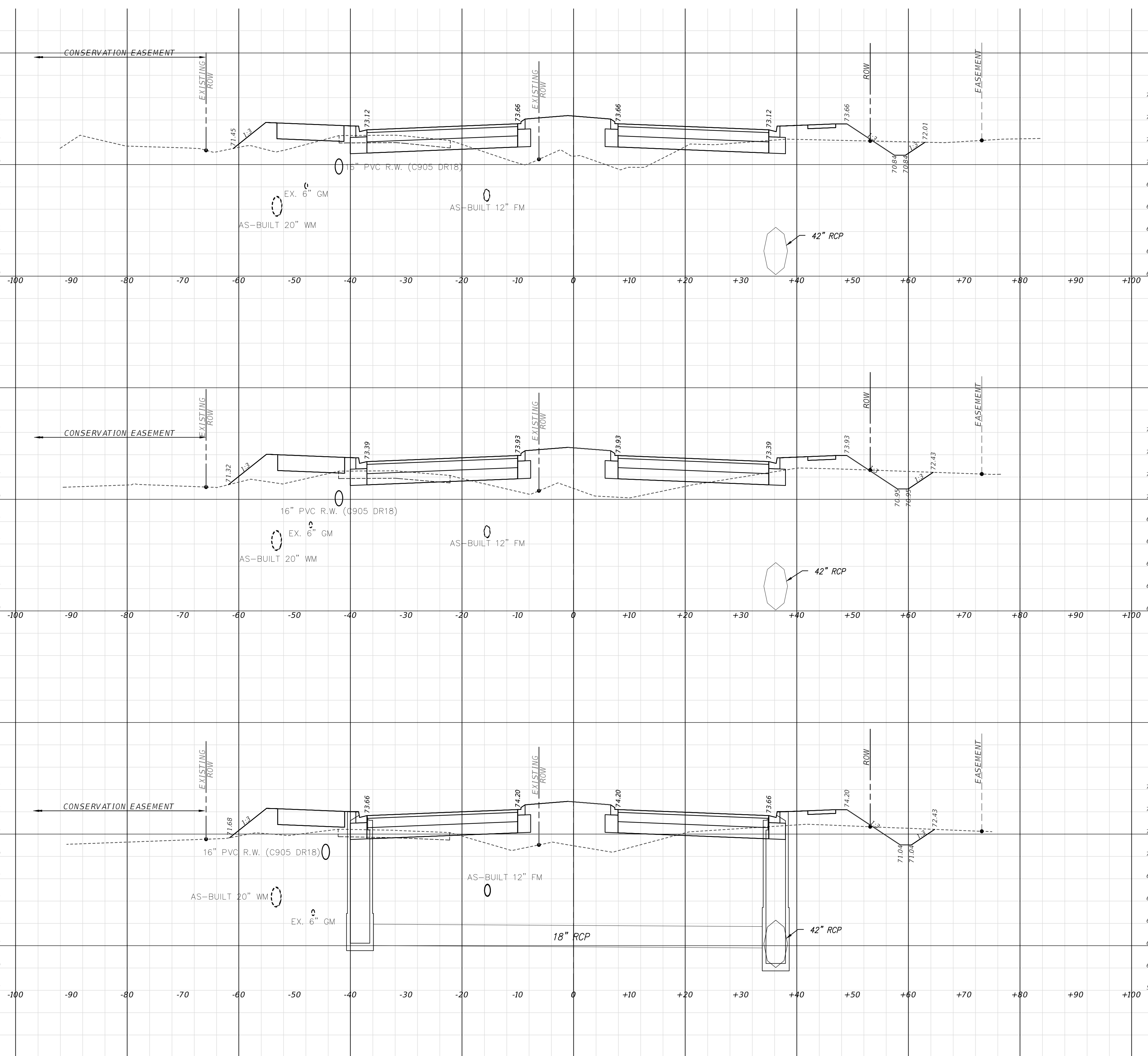
35	60	112	181		
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73+50



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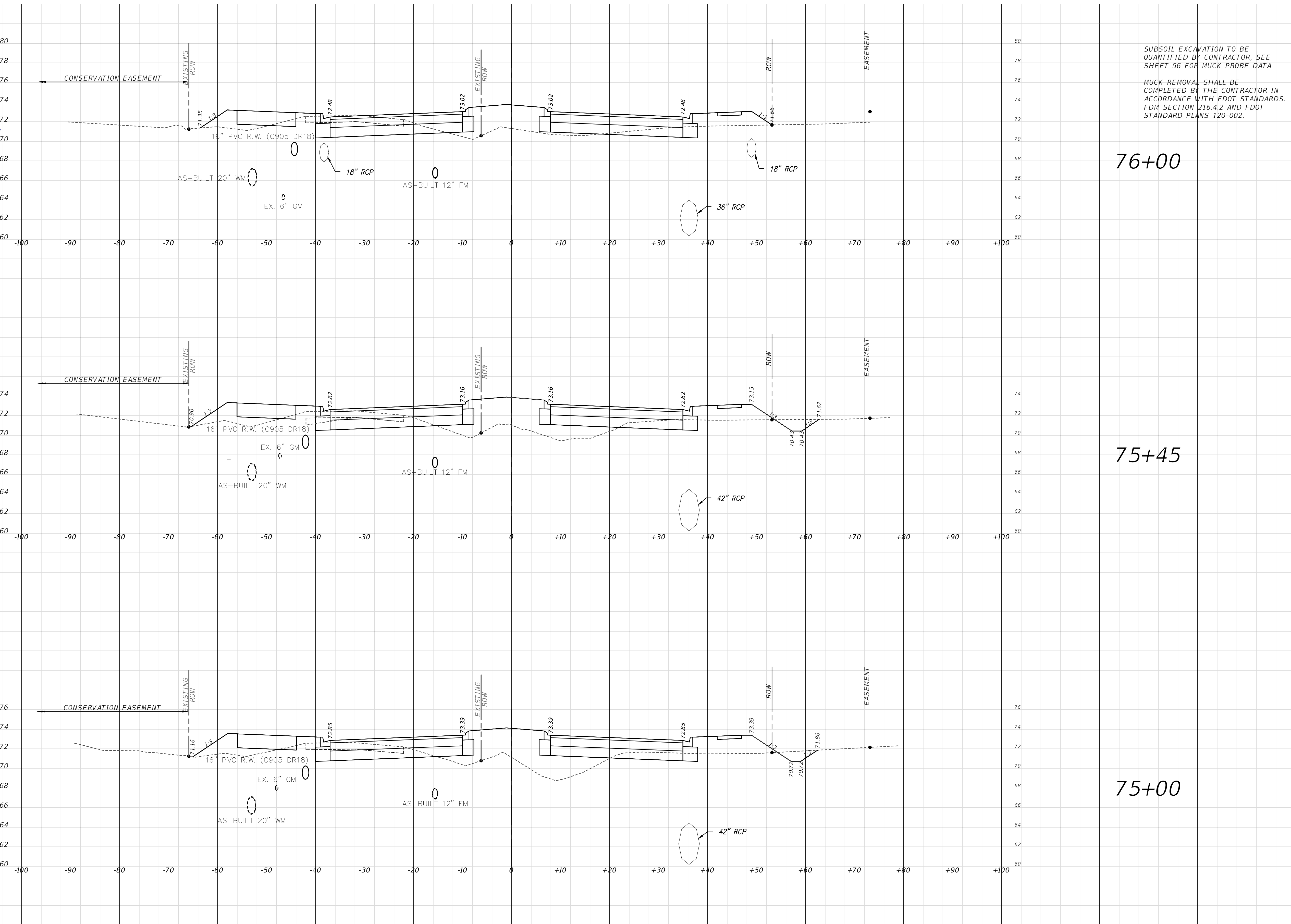
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

SHEET NO.
112

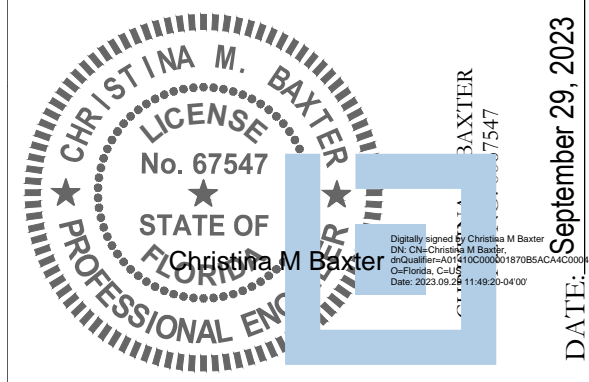
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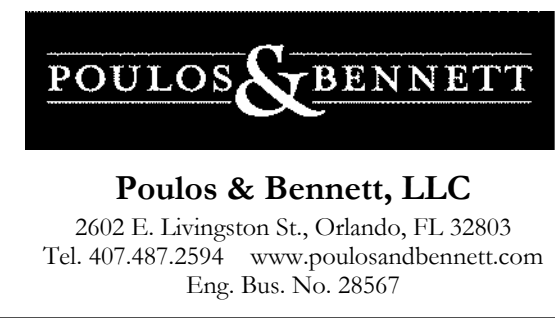
Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
58	114	68	174		
55	88	102	180		
51	92	114	206		



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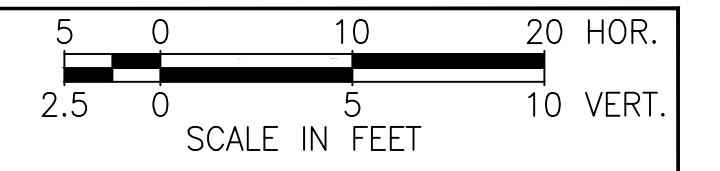
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

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CROSS SECTIONS

SHEET NO.
113

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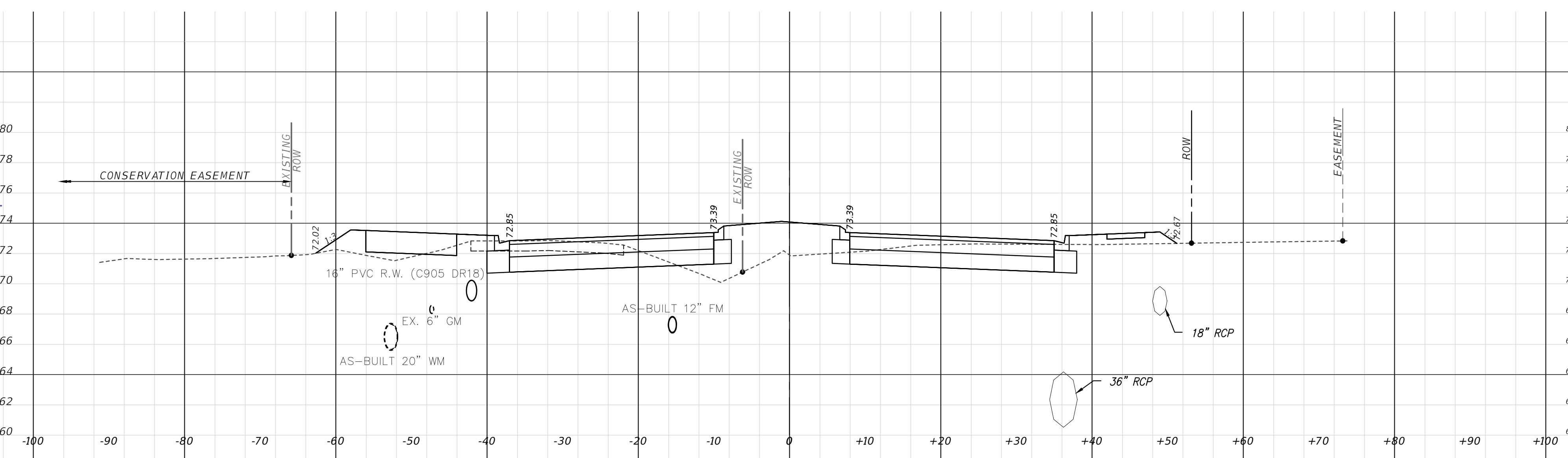
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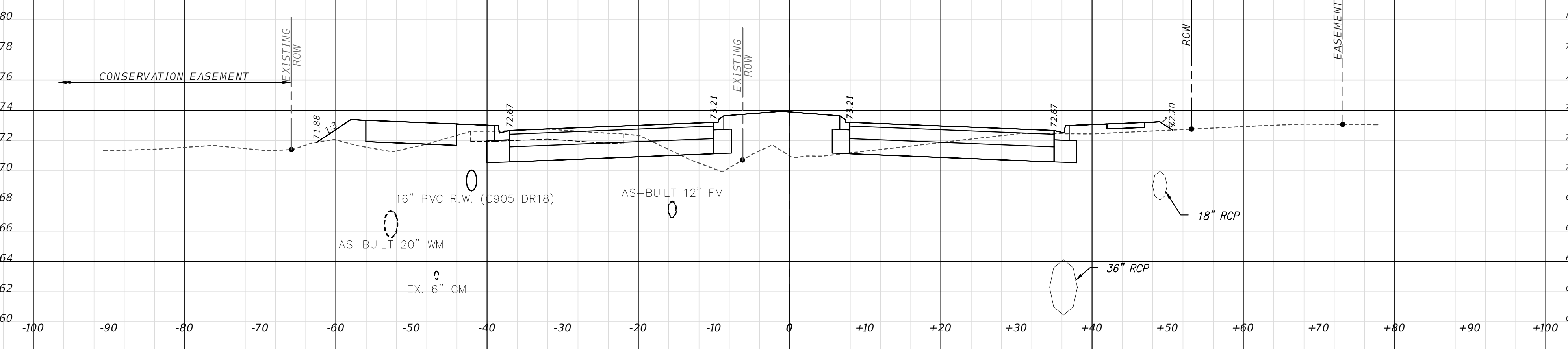
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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

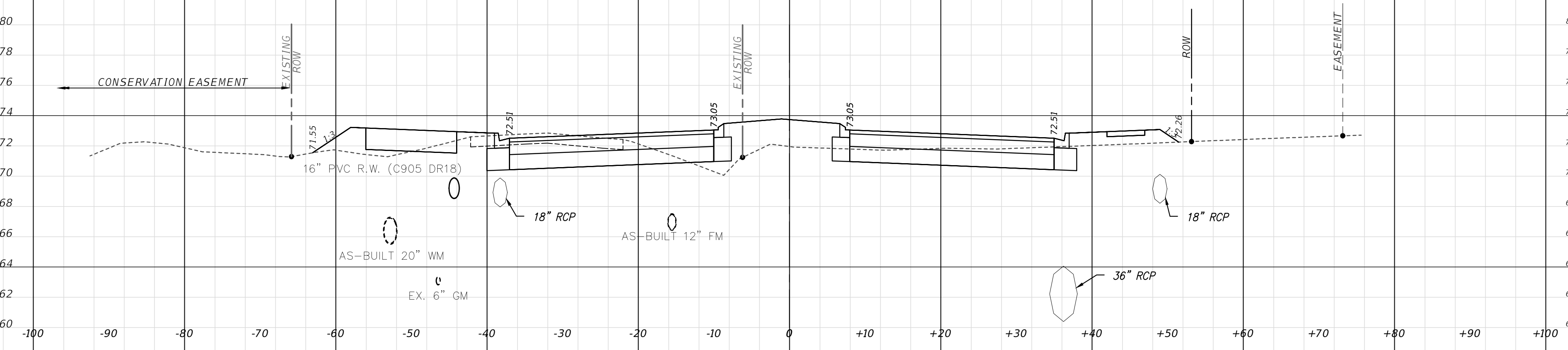
88	154	53	103		
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77+50



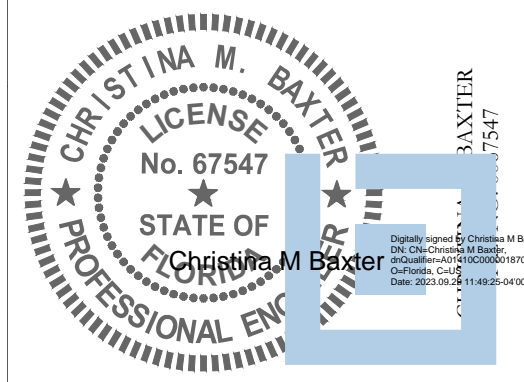
77+00



76+50

78	152	58	97		
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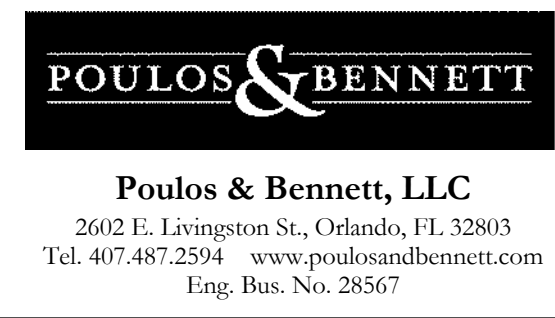
86	133	47	107		
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PROJECT NO. (SDP23-0132)

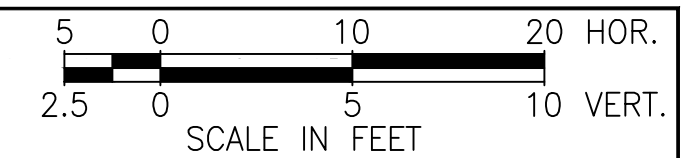
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
114

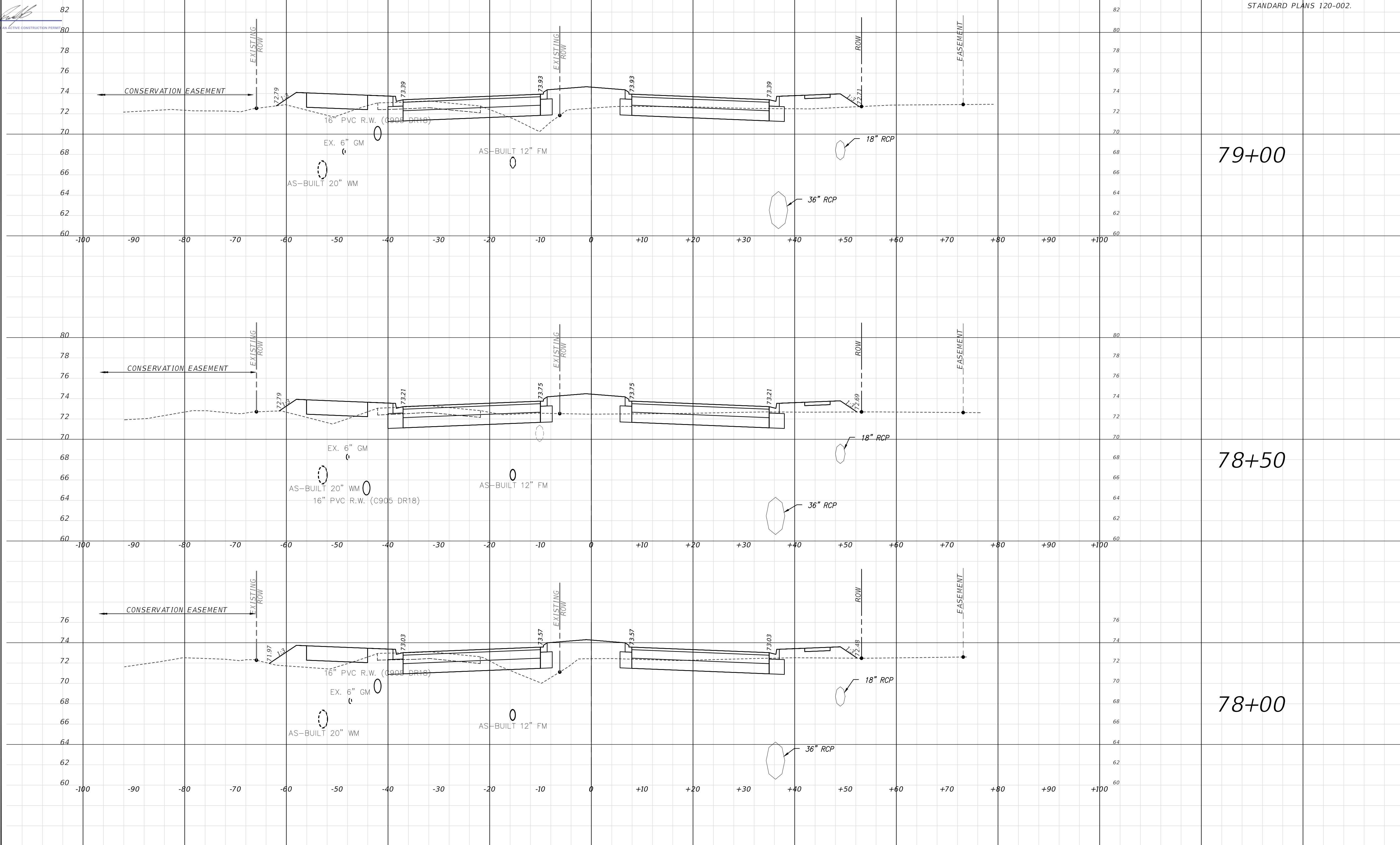
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NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT

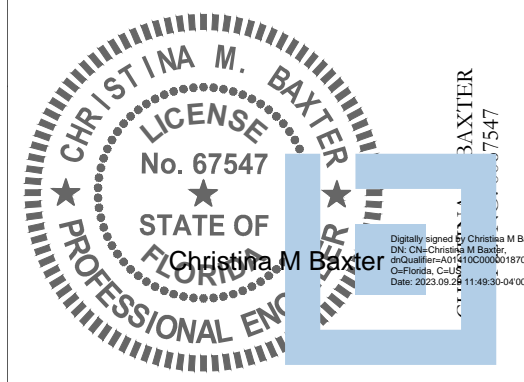


SUBSOIL EXCAVATION TO BE QUANTIFIED BY CONTRACTOR, SEE SHEET 56 FOR MUCK PROBE DATA.
MUCK REMOVAL SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARDS, FDM SECTION 216.4.2 AND FDOT STANDARD PLANS 120-002.

Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



69	146	64	104
89	153	48	103
76	152	63	107



DATE: September 29, 2023

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Eng. Bus. No. 28567

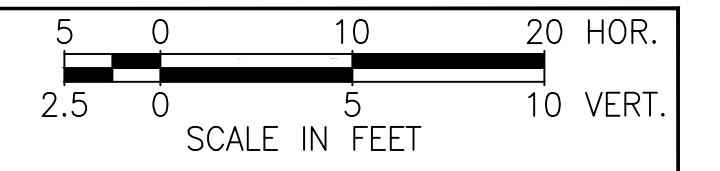
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

SHEET NO.
115

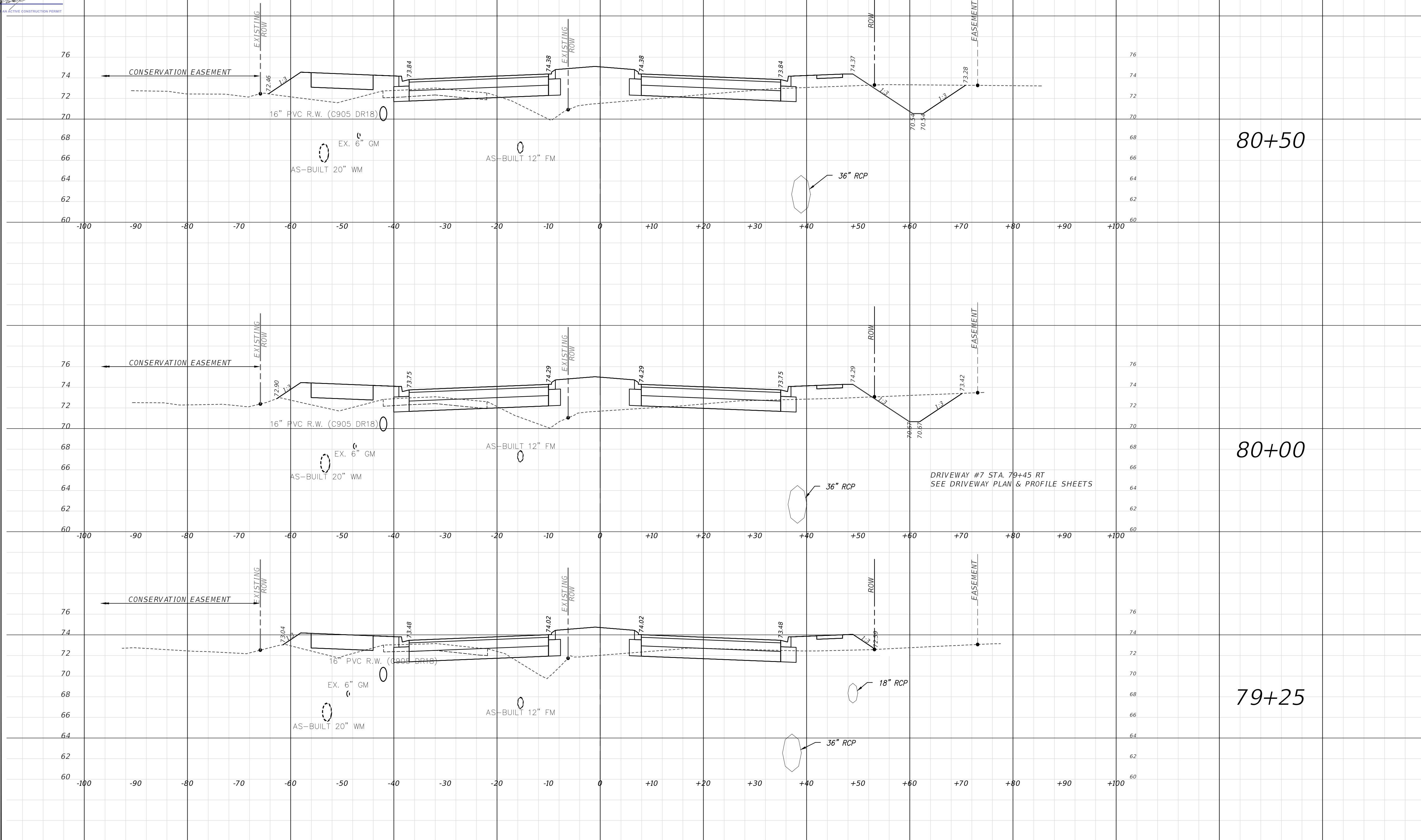
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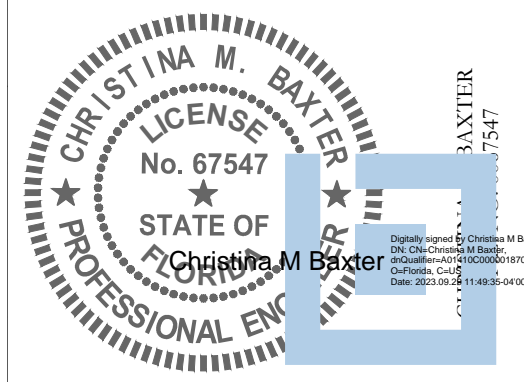


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Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)



63	118	110	194
64	171	99	249
59	59	80	67



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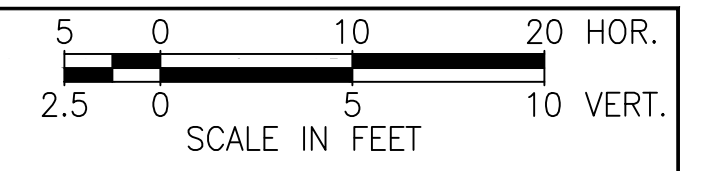
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

SHEET NO.
116

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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

99	175	70	138		
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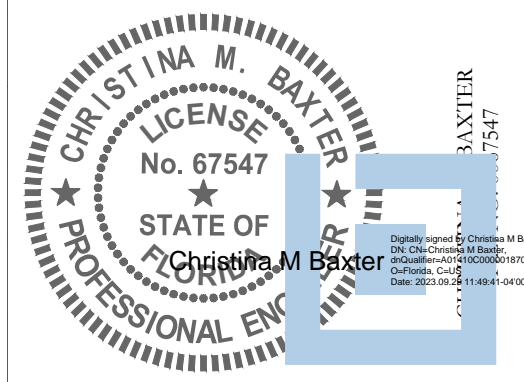
82+00

90	164	79	154		
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81+50

87	139	88	183		
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81+00



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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

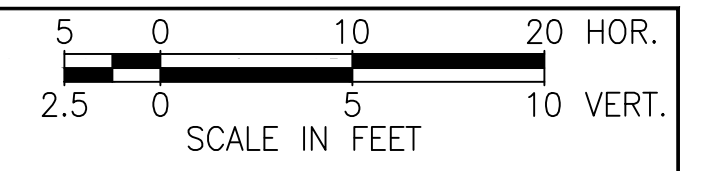
CROSS SECTIONS

SHEET NO.

117

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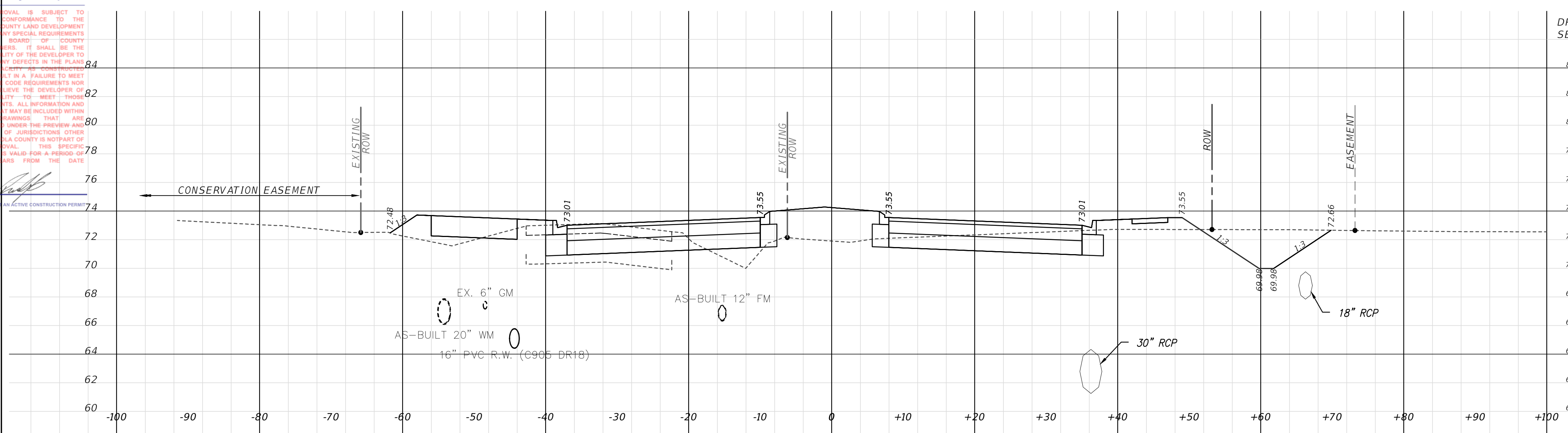
NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



DRIVEWAY #8 STA. 83+44 RT
SEE DRIVEWAY PLAN & PROFILE SHEETS

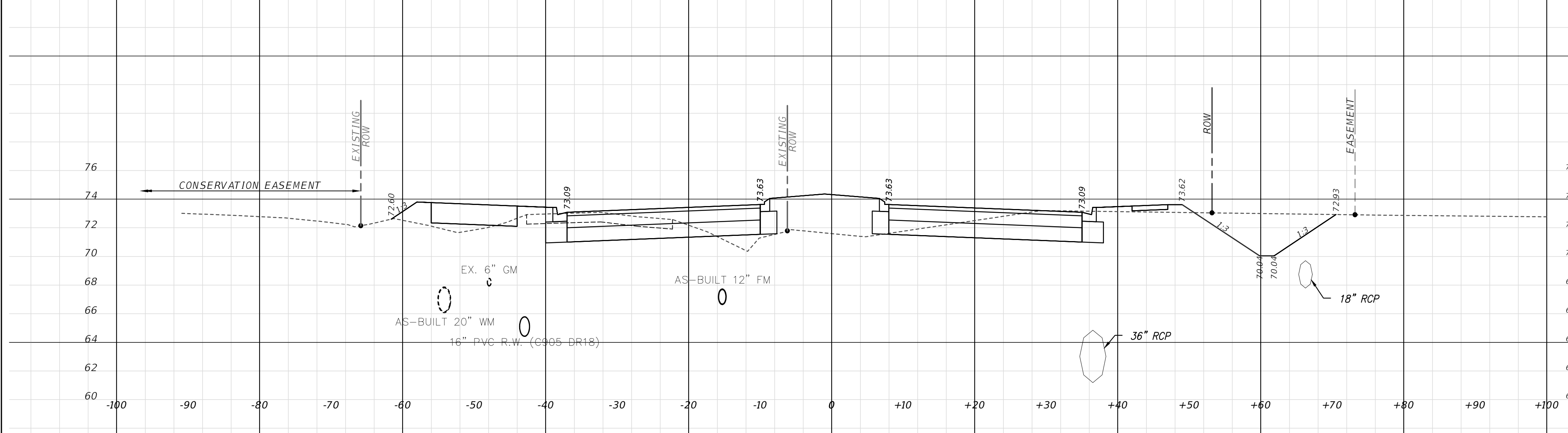
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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



106	100	54	50
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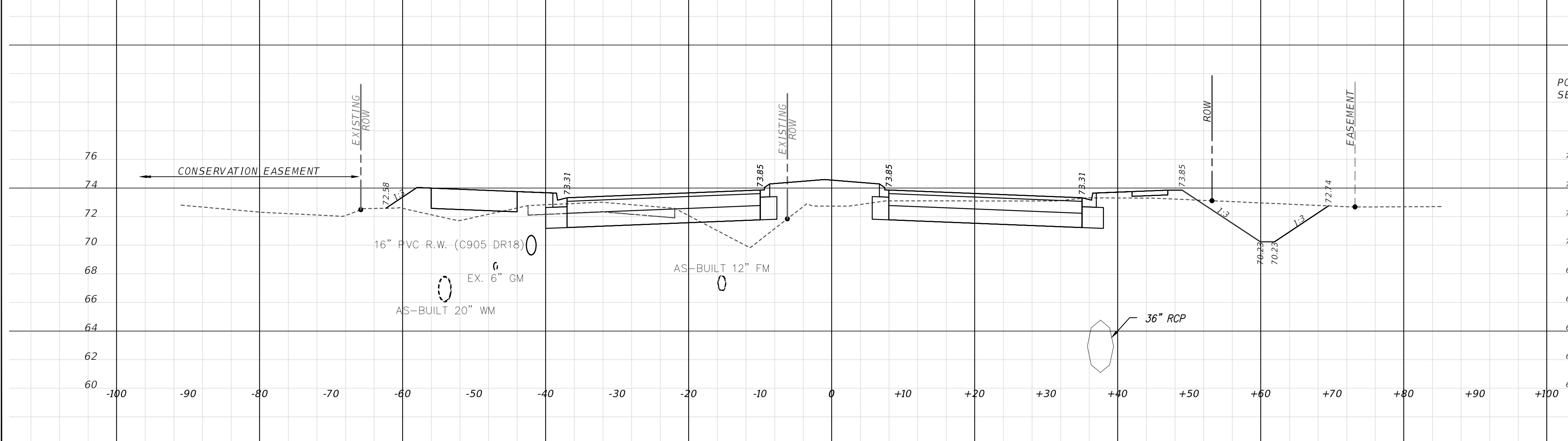
83+25



110	305	54	153
-----	-----	----	-----

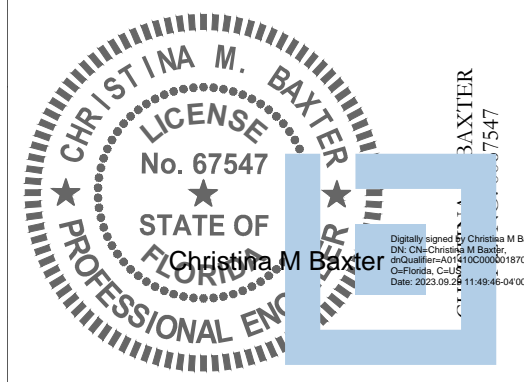
83+00

POND ACCESS DRIVEWAY STA 82+67 RT
SEE DRIVEWAY PLAN & PROFILE SHEETS



109	96	56	59
-----	----	----	----

82+25



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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

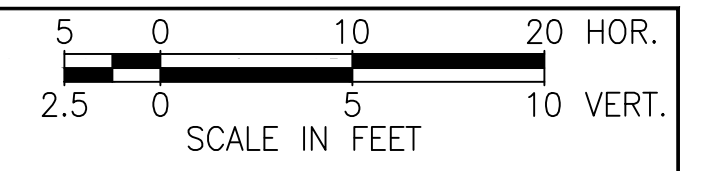
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
118

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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

105	101	61	54		
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85+00

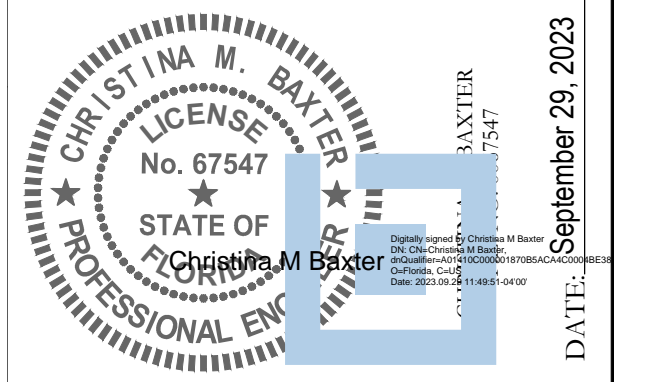
112	529	56	265		
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84+75

117	103	58	52		
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83+50

DRIVEWAY #9 STA. 84+12 LT
SEE DRIVEWAY PLAN & PROFILE SHEETS



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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

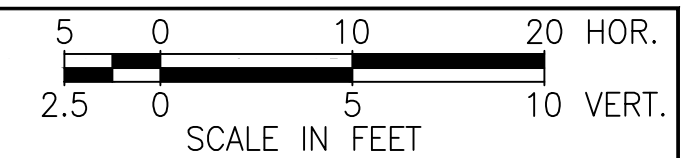
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
119

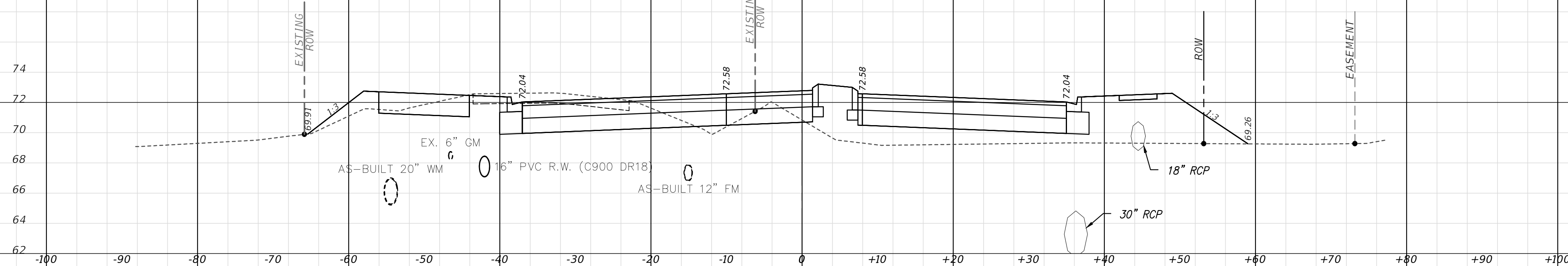
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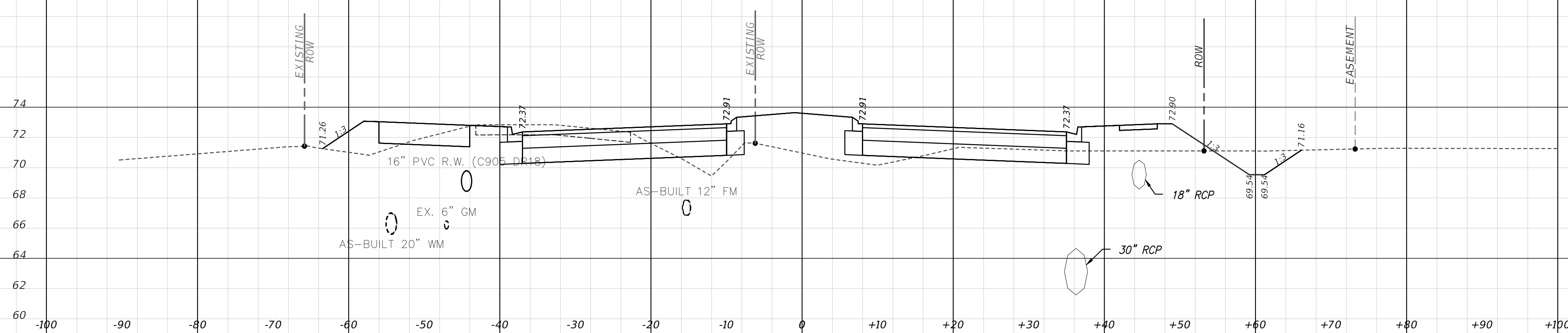
Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



86+50

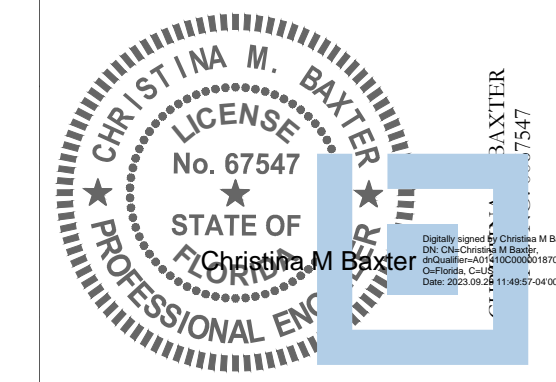
60	281	101	356
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DRIVEWAY #13 STA. 85+89 RT
SEE DRIVEWAY PLAN & PROFILE SHEETS



85+40

78	135	74	100
----	-----	----	-----



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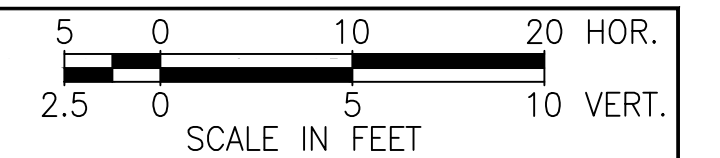
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

SHEET NO.
120

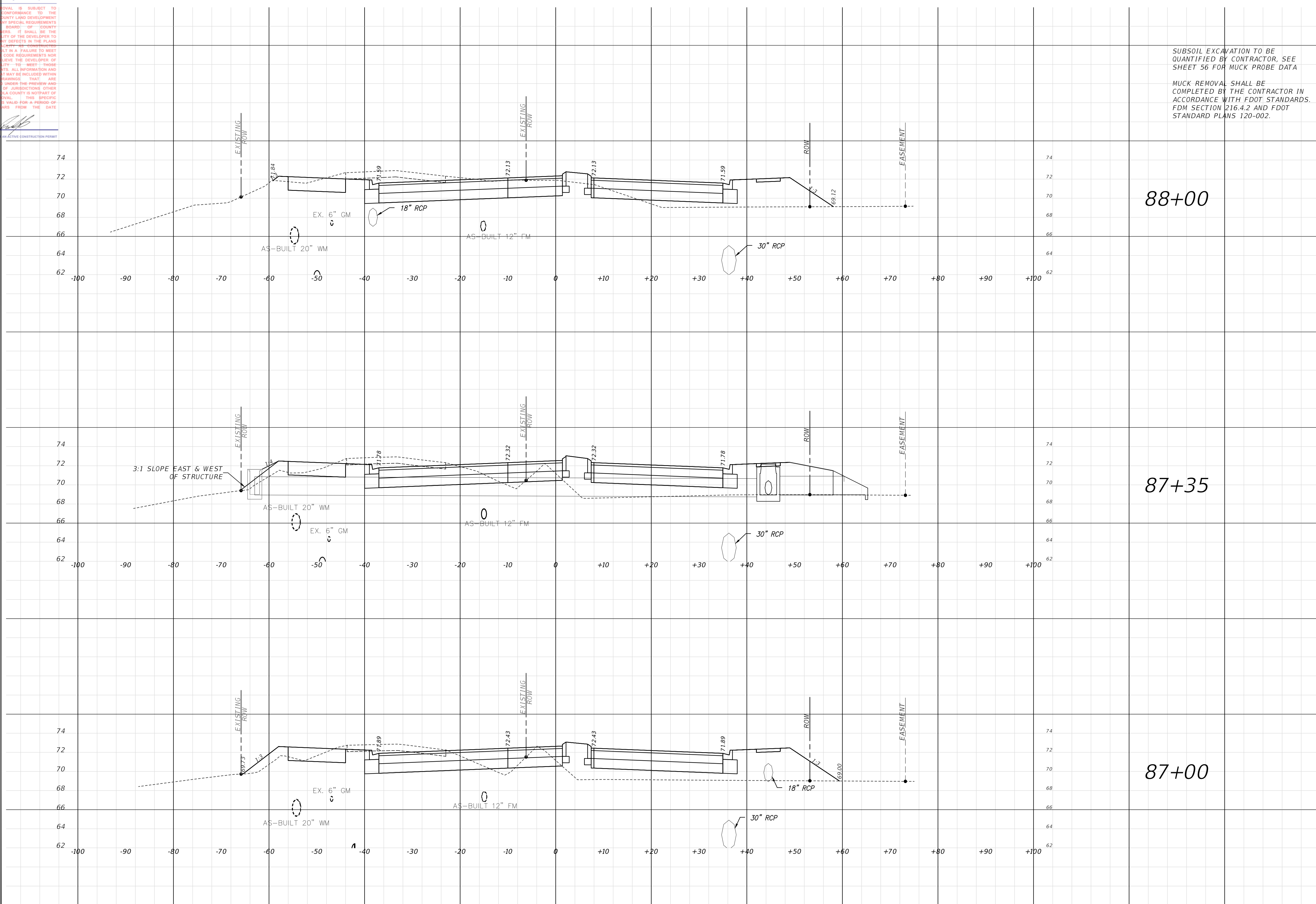
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Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)



88+00

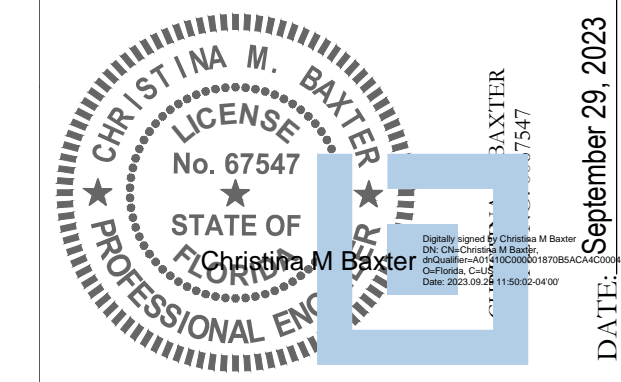
119	244	57	209
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87+35

84	101	117	144
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87+00

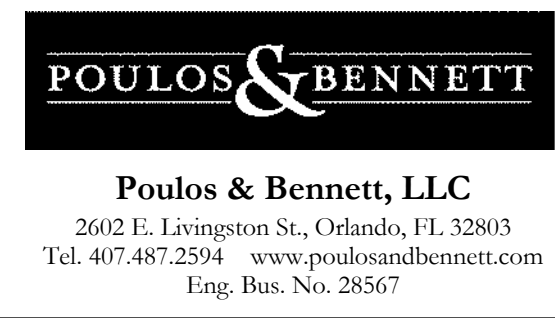
71	121	104	190
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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

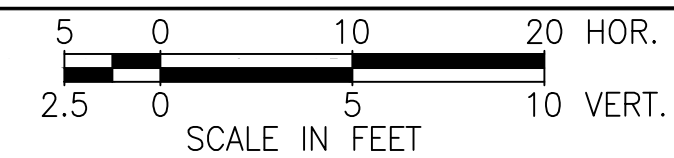
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CROSS SECTIONS

SHEET NO.
121

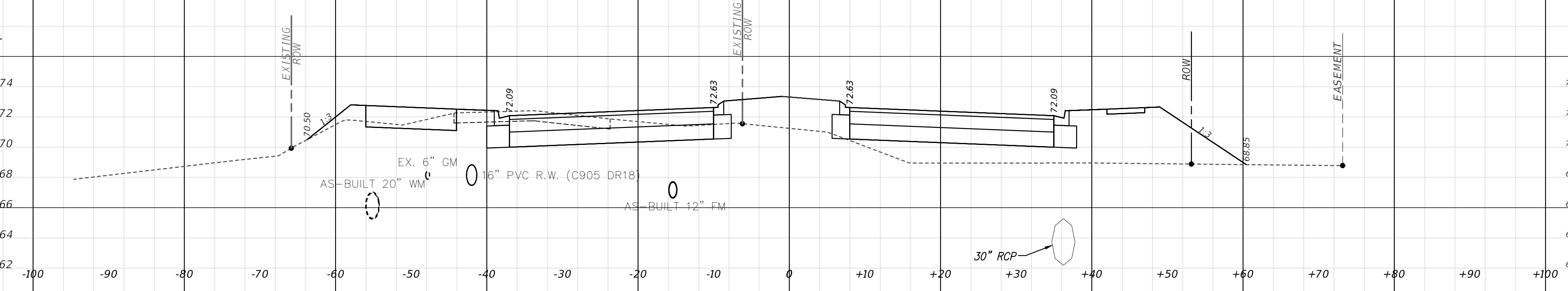
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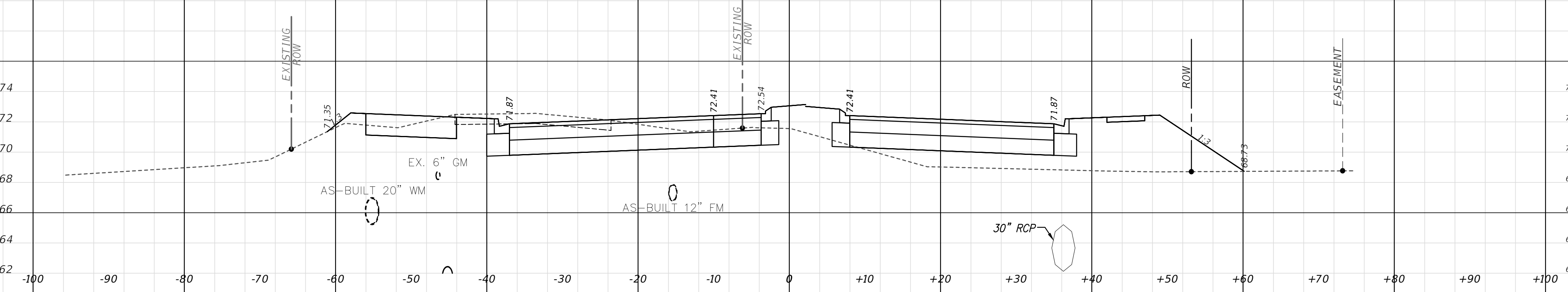
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Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)



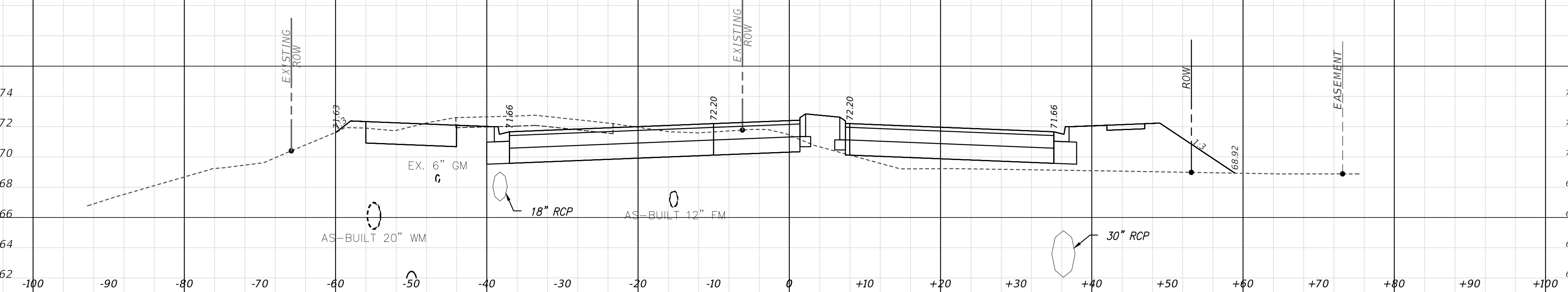
89+50

60	133	123	202
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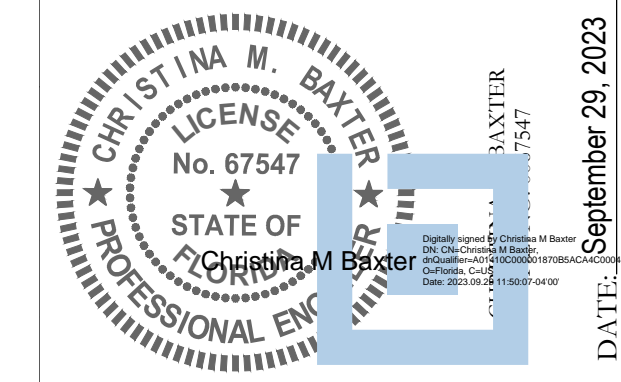
89+00

84	167	95	151
----	-----	----	-----



88+50

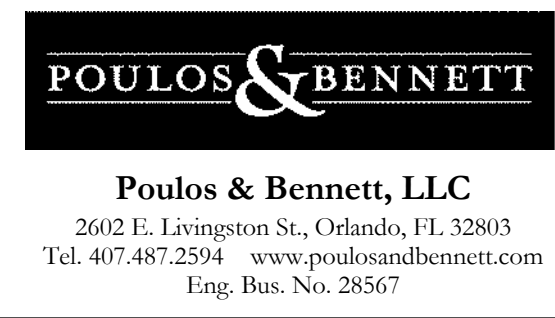
97	199	68	115
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OSCEOLA COUNTY
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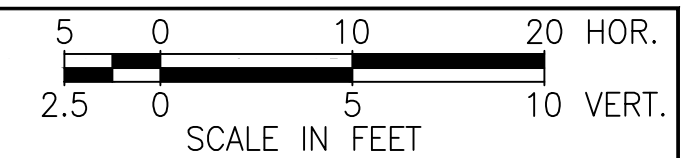
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
122

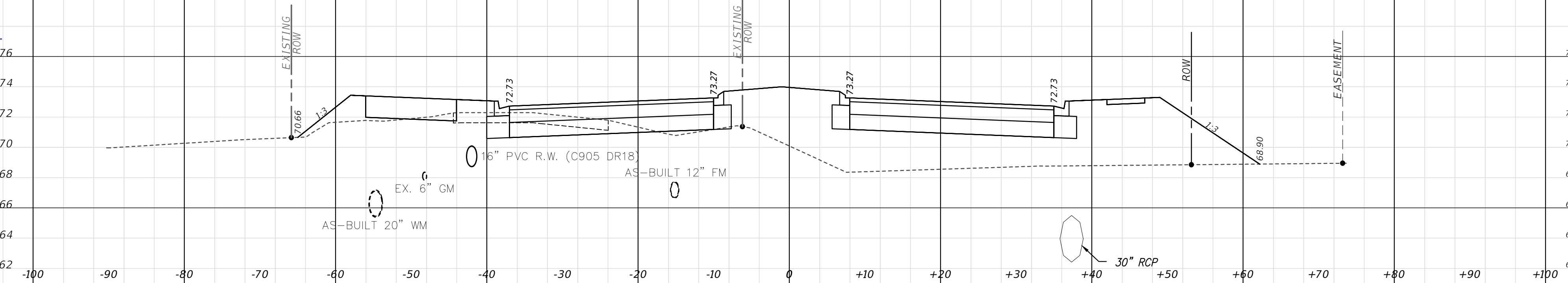
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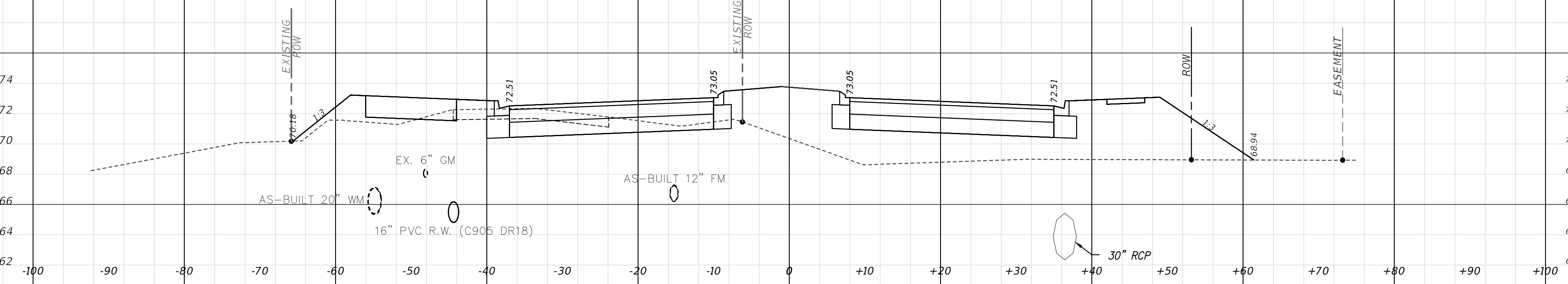
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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



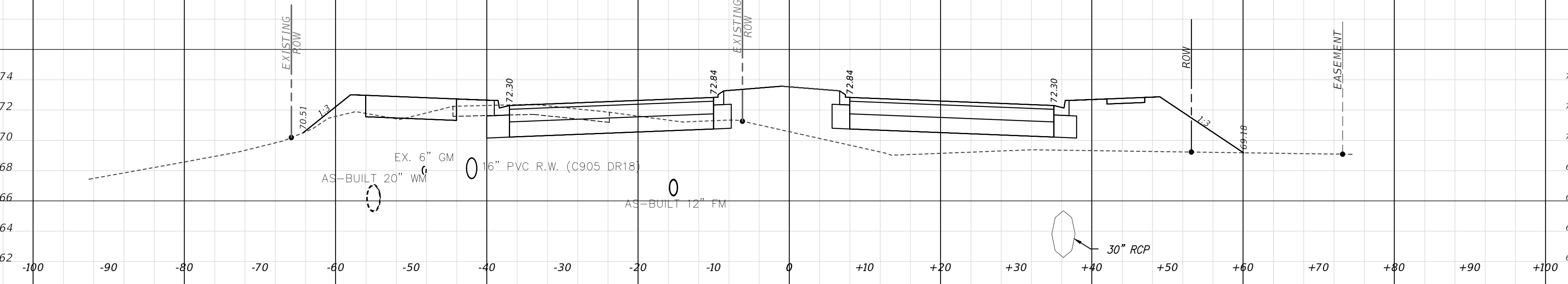
91+00

27	60	213	365
----	----	-----	-----



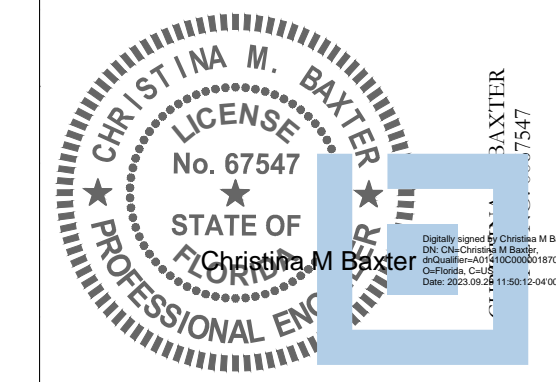
90+50

38	79	182	297
----	----	-----	-----



90+00

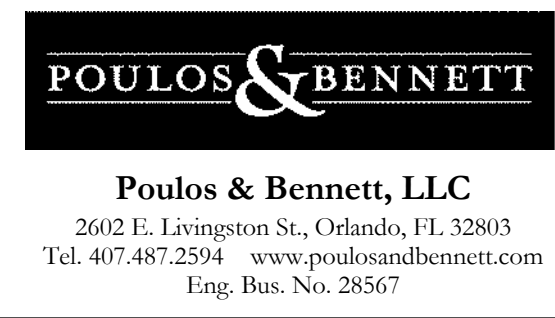
47	99	138	242
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DATE: September 29, 2023

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



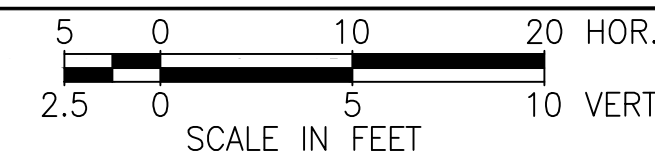
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

SHEET NO.
123

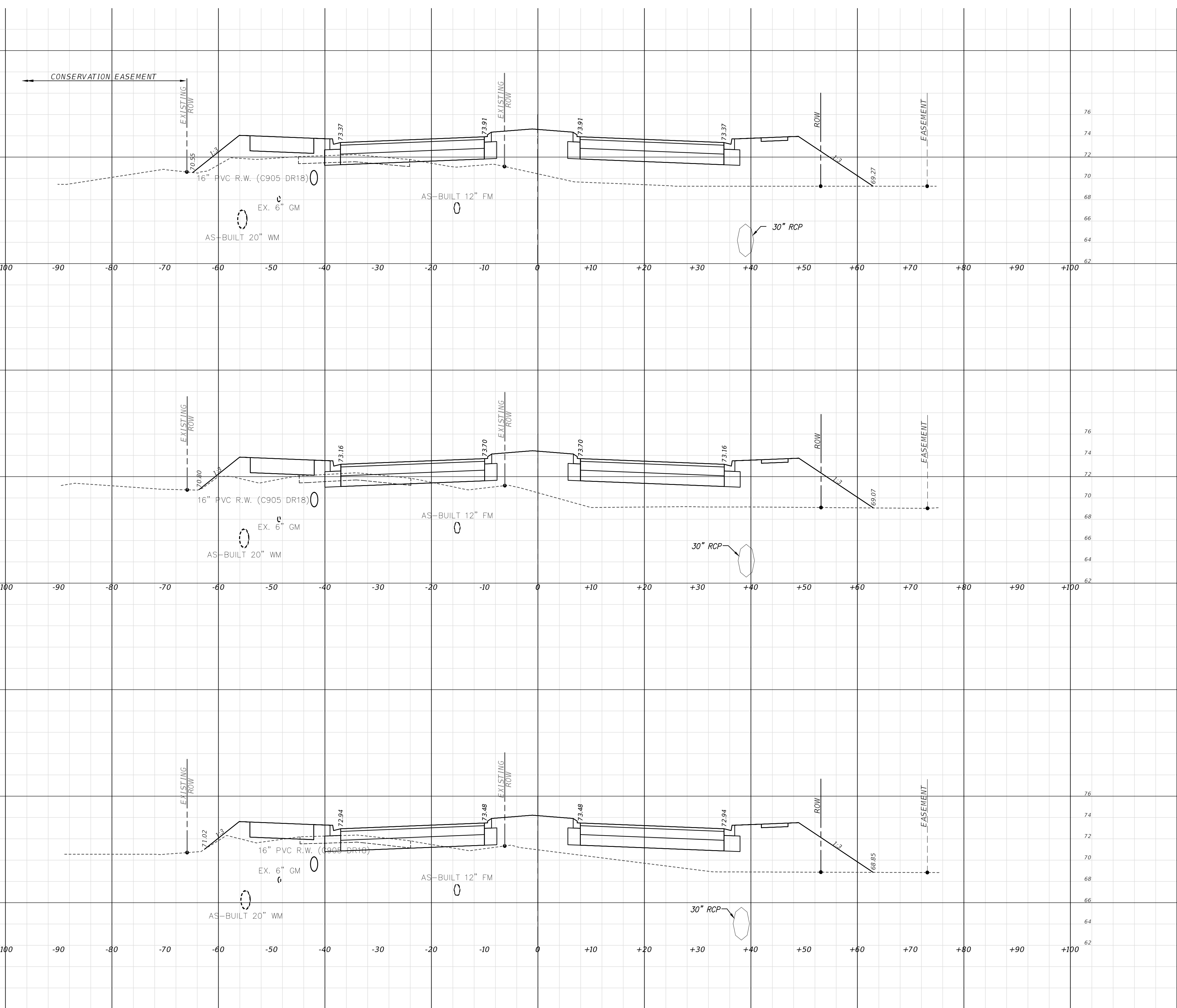
THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE PLAN REVIEW COMMENTARIES WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS FOR DOES IT BELIEVE THE DEVELOPER OF RESPONSIBILITY TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE DRAWINGS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTION OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



SUBSOIL EXCAVATION TO BE QUANTIFIED BY CONTRACTOR, SEE SHEET 56 FOR MUCK PROBE DATA
MUCK REMOVAL SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARDS, FDM SECTION 216.4.2 AND FDOT STANDARD PLANS 120-002.

Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



92+50

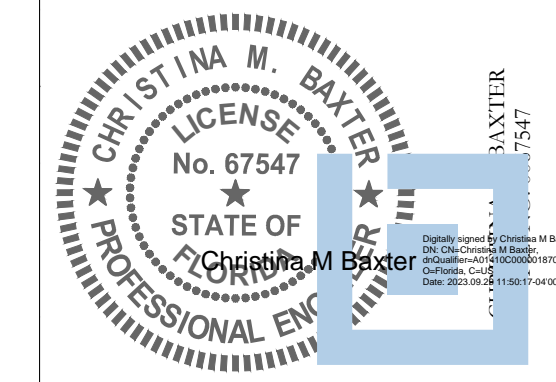
11	26	234	423
----	----	-----	-----

92+00

17	37	222	376
----	----	-----	-----

91+50

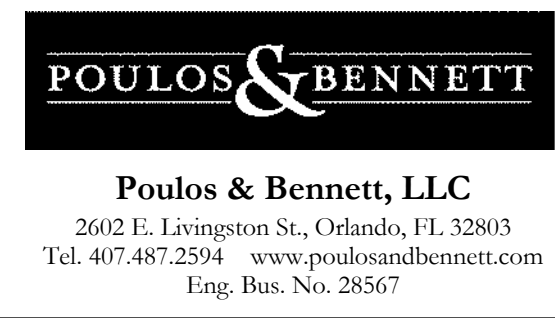
23	46	184	367
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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

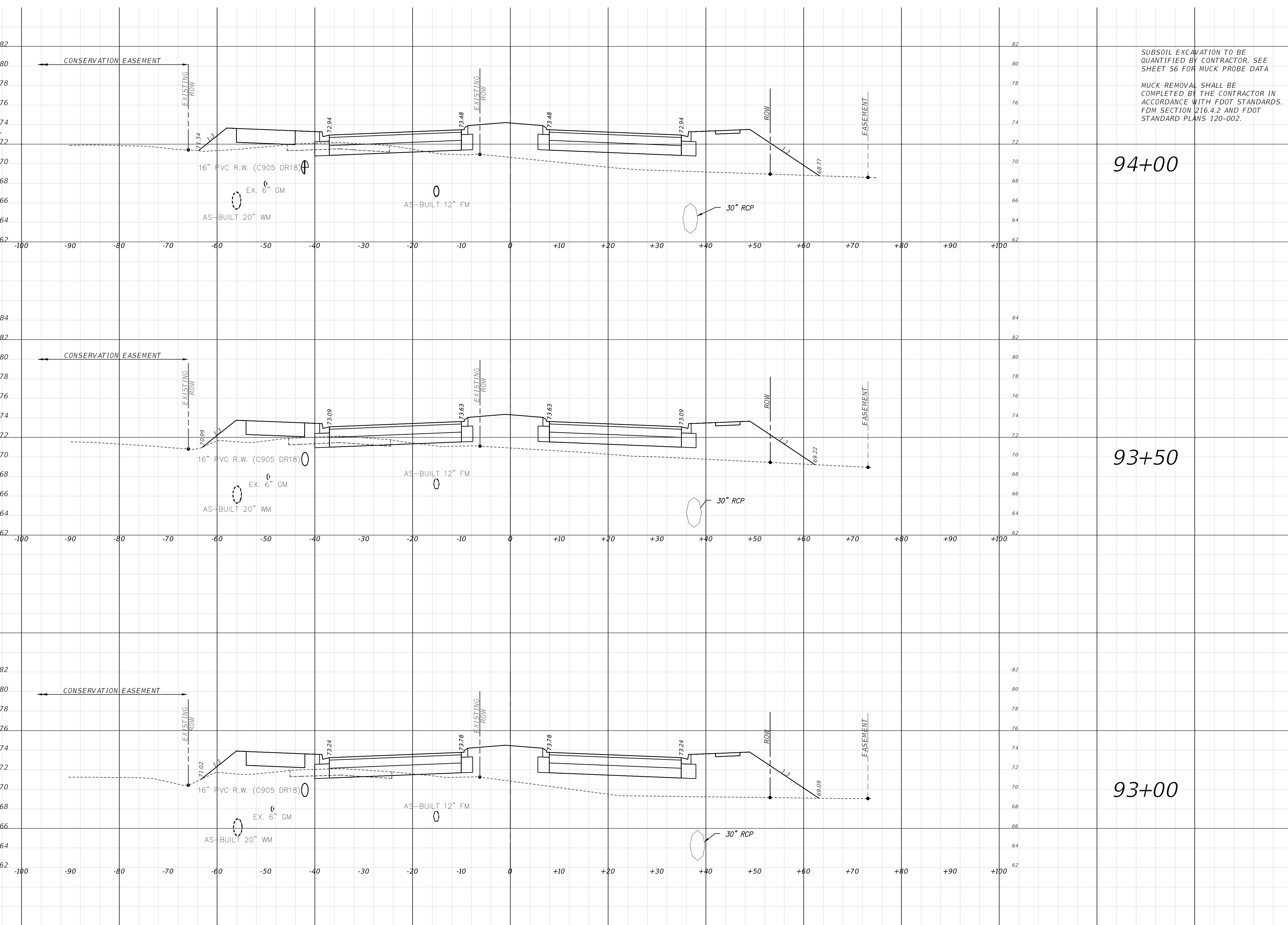
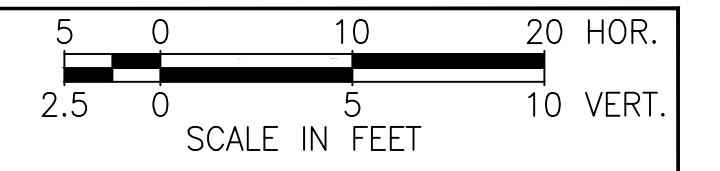
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
124

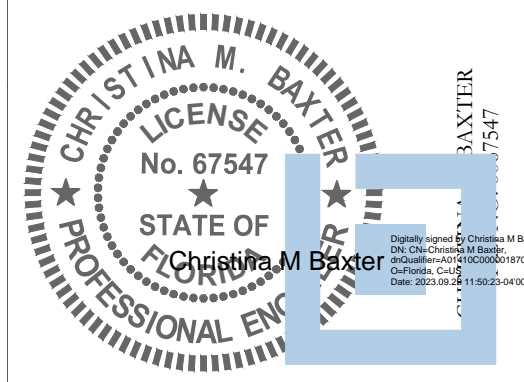
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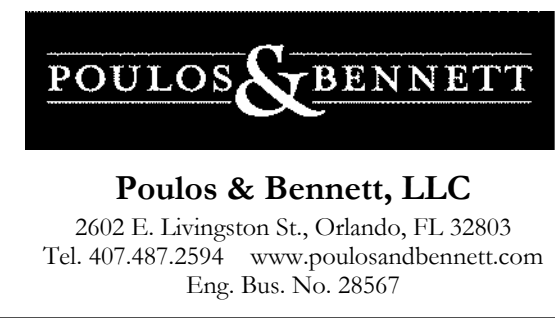
	Regular	Exc.	Embankment	
	A(sf)	V(cy)	A(sf)	V(cy)
94+00	20	33	194	334
93+50	15	26	168	350
93+00	13	22	210	411



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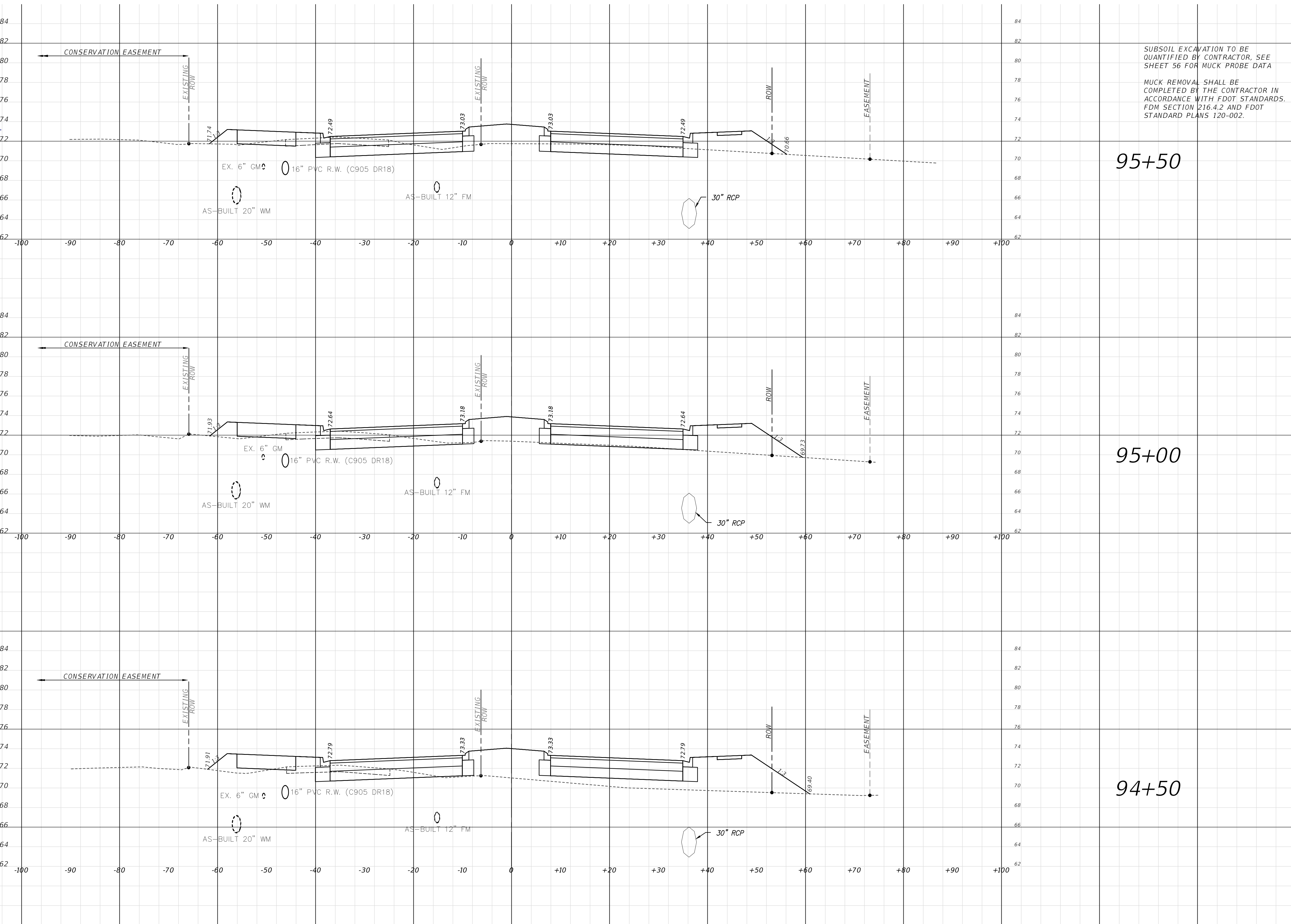
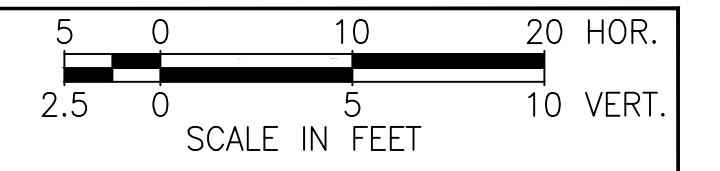
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

SHEET NO.
125

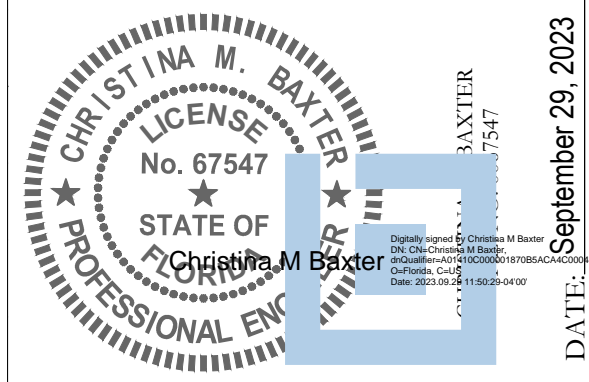
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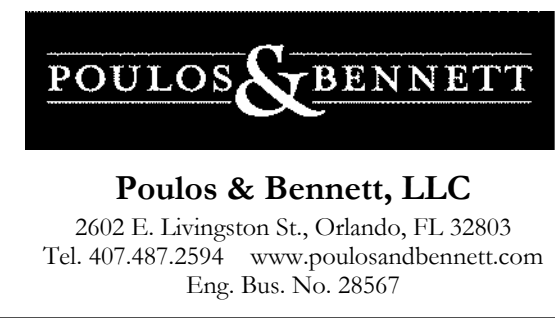
	Regular	Exc.	Embankment	
	A(sf)	V(cy)	A(sf)	V(cy)
95+50	73	104	61	138
95+00	39	62	88	210
94+50	28	44	138	307



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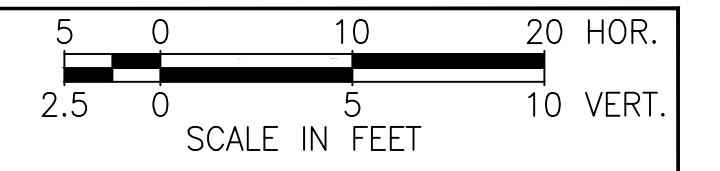
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

SHEET NO.
126

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND BY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE PLANS OR THE PLANS WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS FOR RESPONSIBILITY TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE DRAWINGS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTION OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIAL APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

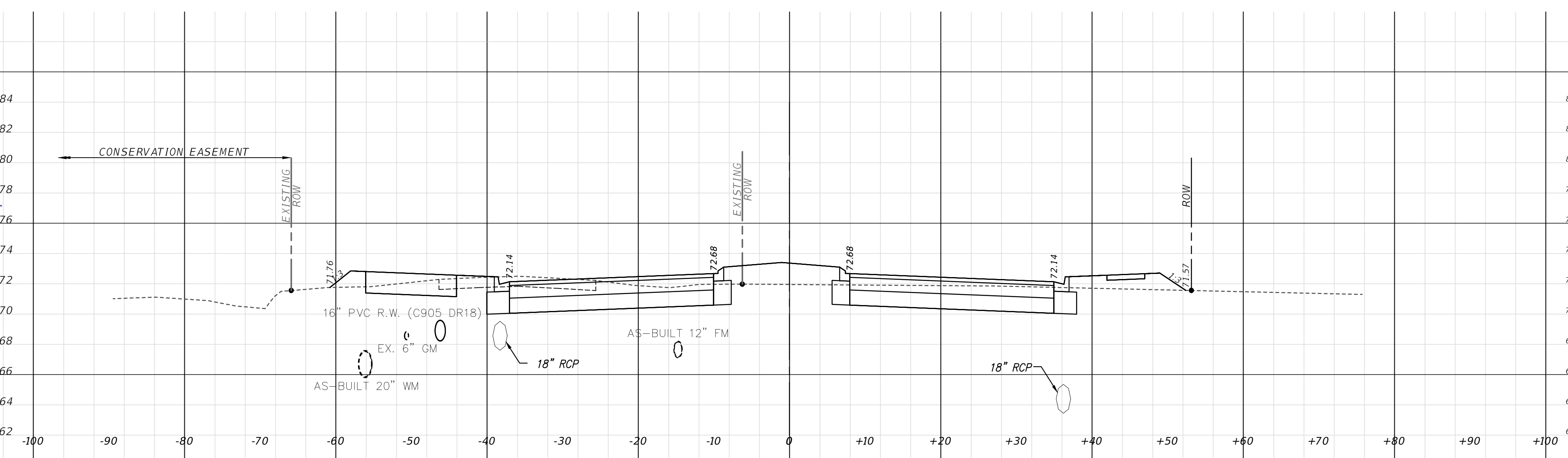
NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



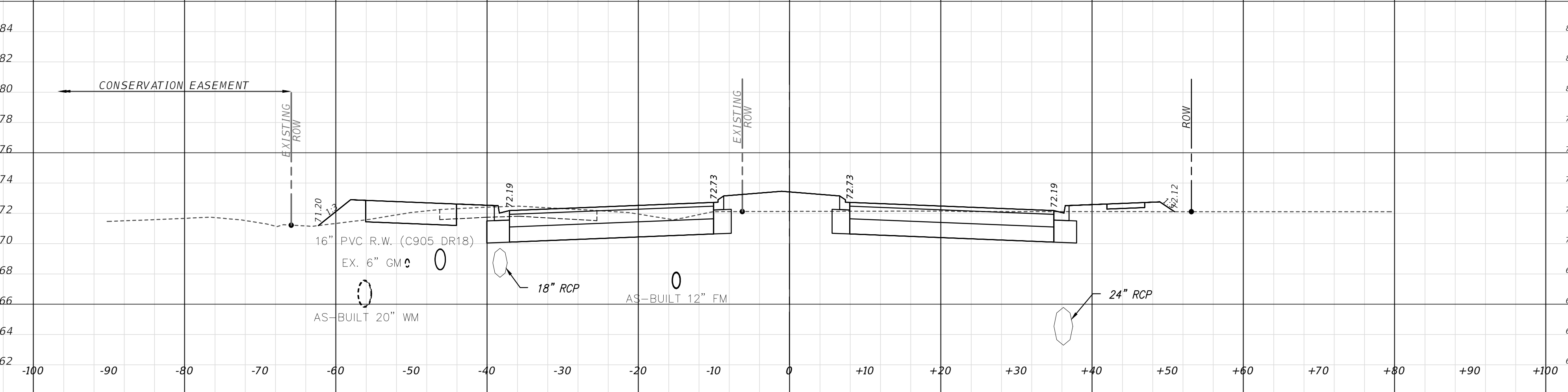
SUBSOIL EXCAVATION TO BE QUANTIFIED BY CONTRACTOR, SEE SHEET 56 FOR MUCK PROBE DATA
MUCK REMOVAL SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARDS, FDM SECTION 216.4.2 AND FDOT STANDARD PLANS 120-002.

Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)

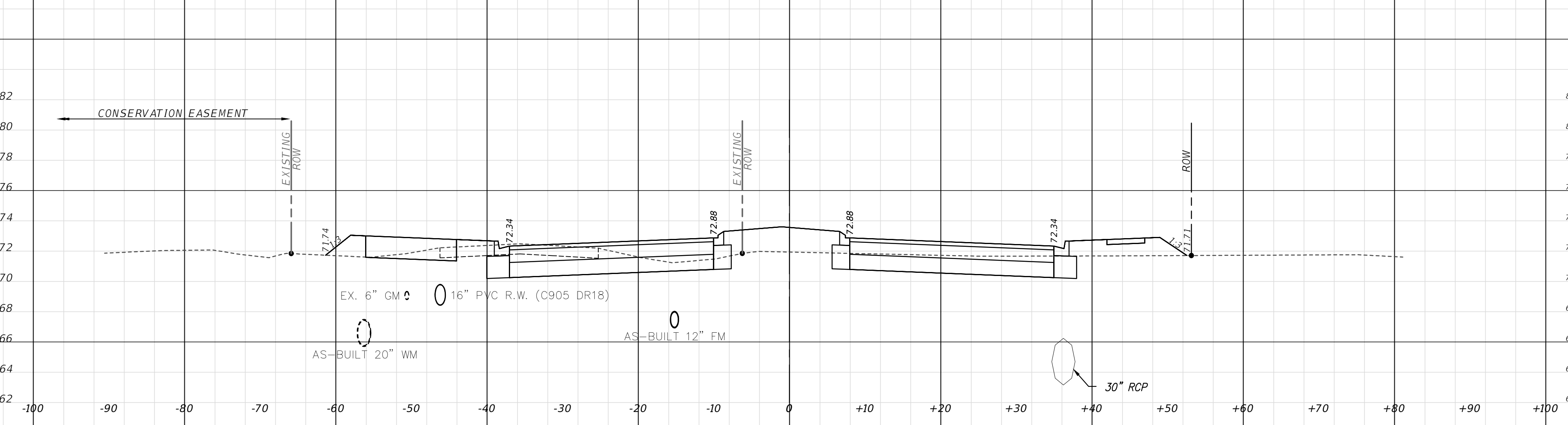
119	223	32	55
123	198	28	63
91	151	40	94



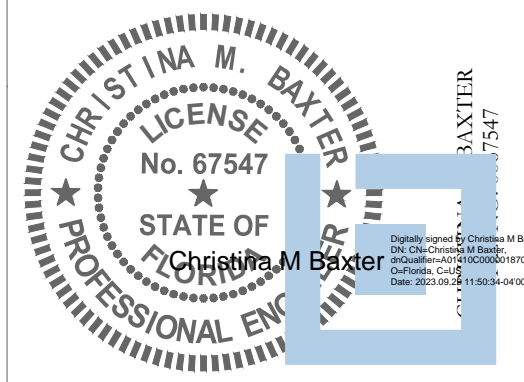
97+00



96+50



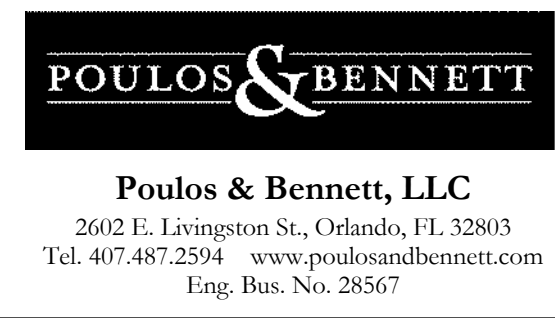
96+00



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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
127

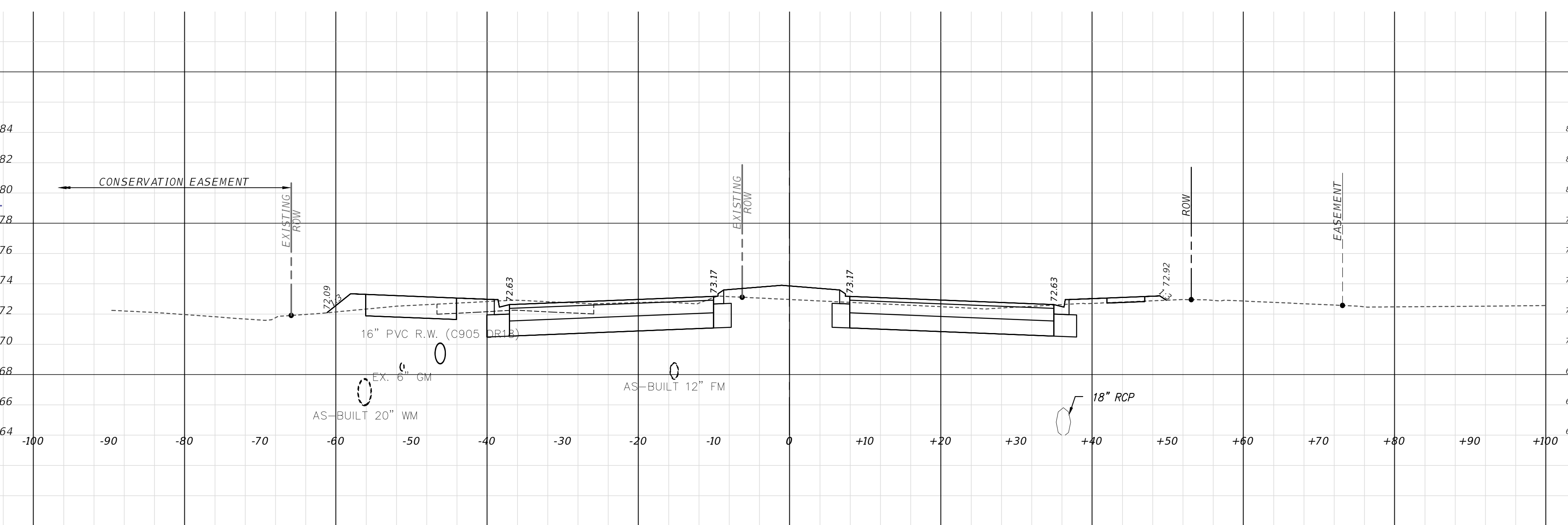
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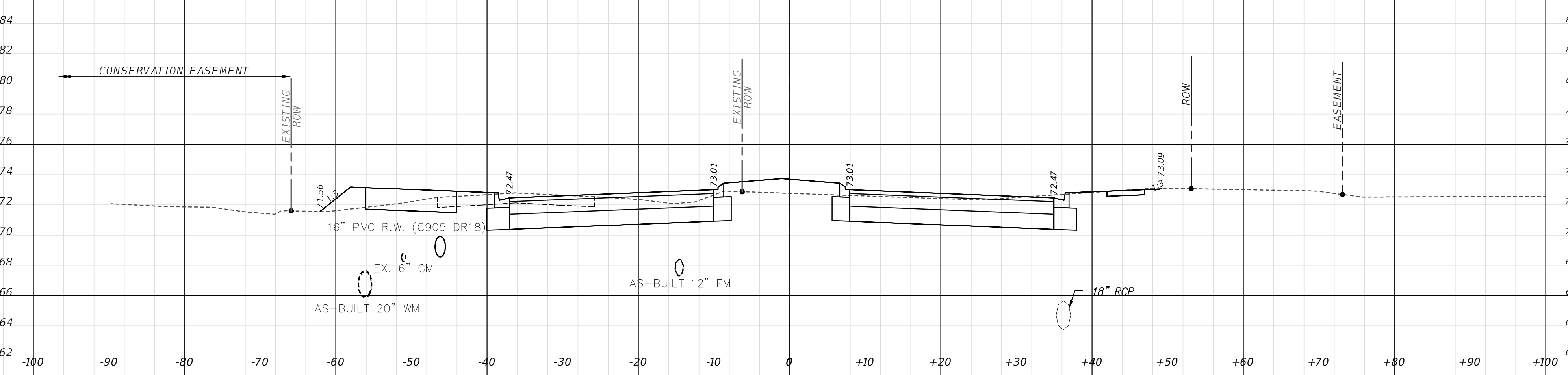
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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

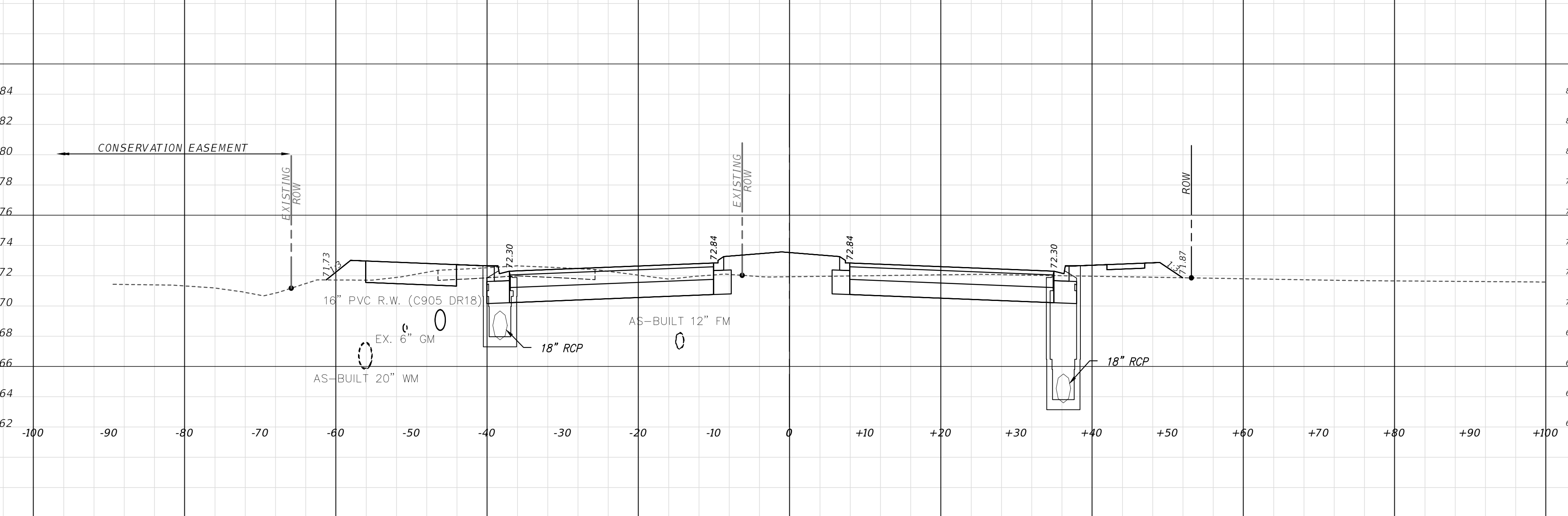
131	242	17	33		
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98+50

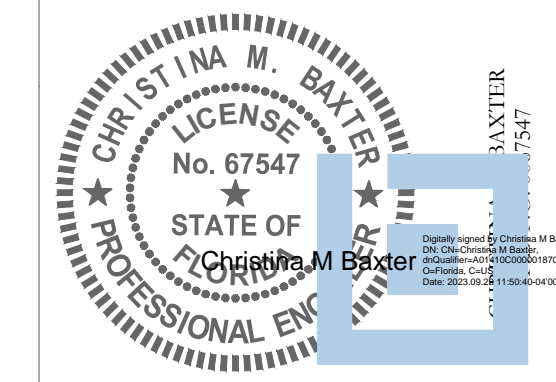


98+00



97+50

130	228	18	48		
116	217	34	61		



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DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT
Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

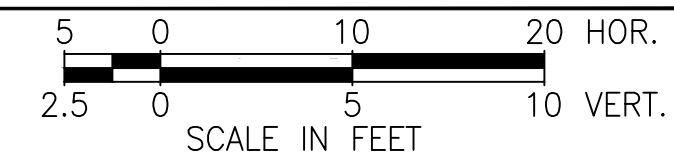
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
128

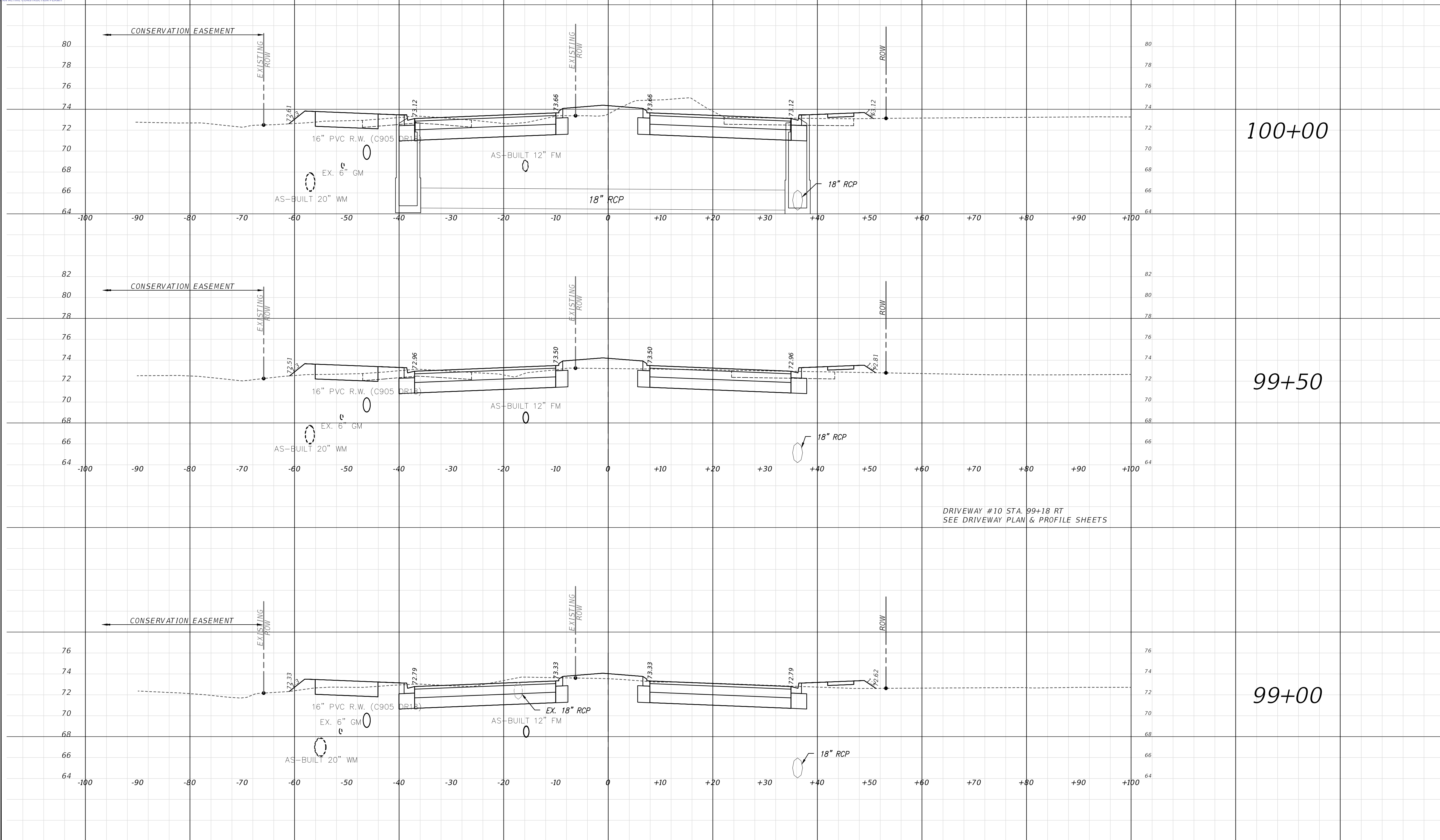
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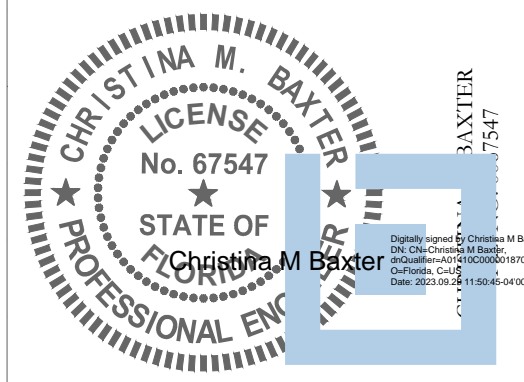


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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



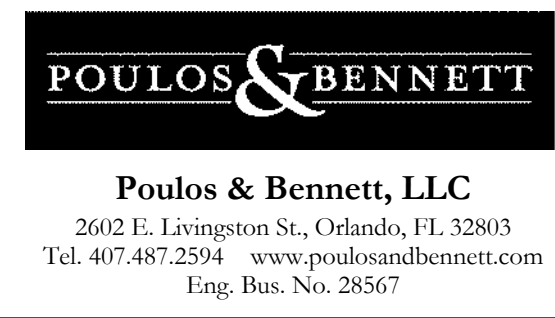
150	256	17	37
126	256	22	35
150	260	15	30



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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

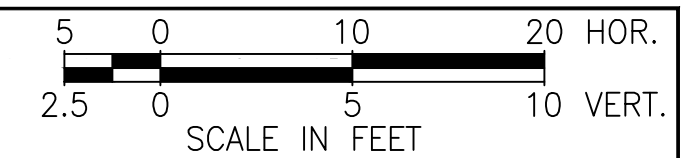
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
129

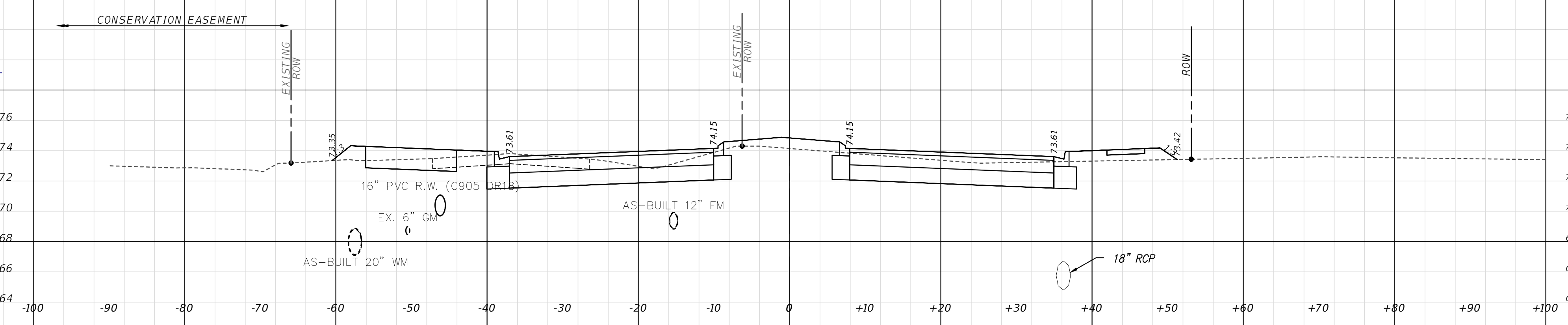
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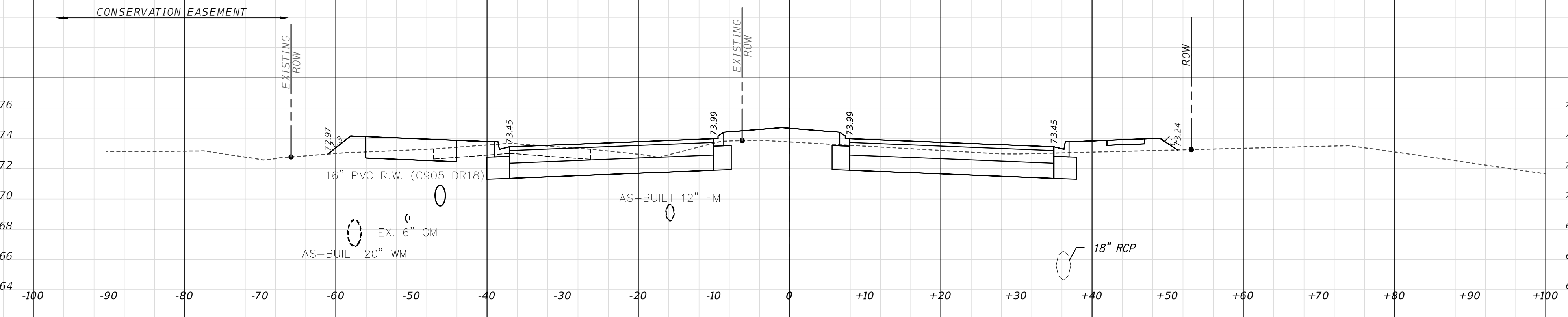
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Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)



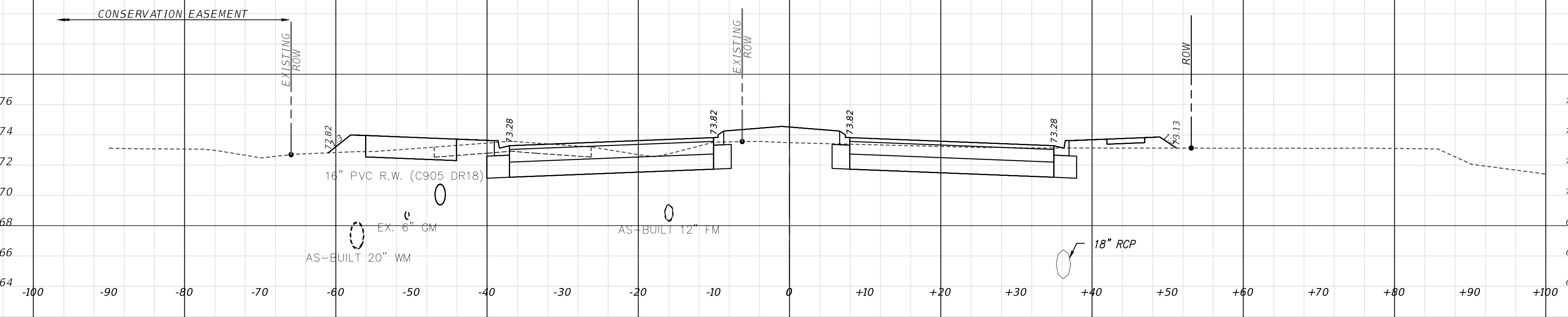
101+50

116	213	20	40
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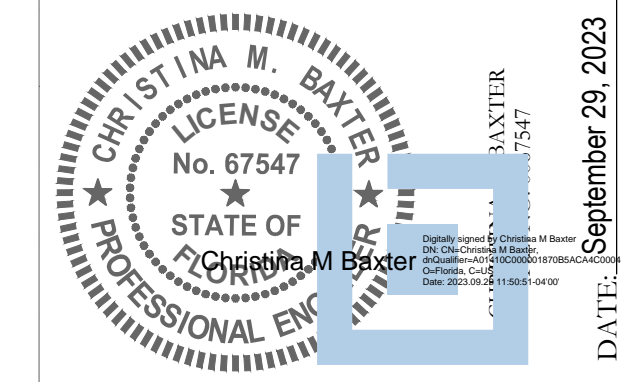
101+00

114	218	24	43
-----	-----	----	----



100+50

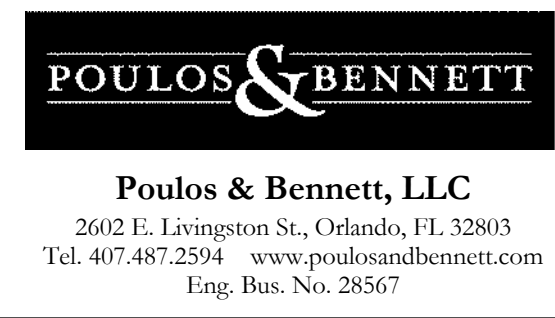
121	251	23	37
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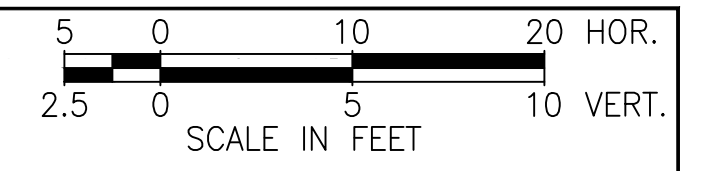
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

SHEET NO.
130

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Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)

94	178	32	59
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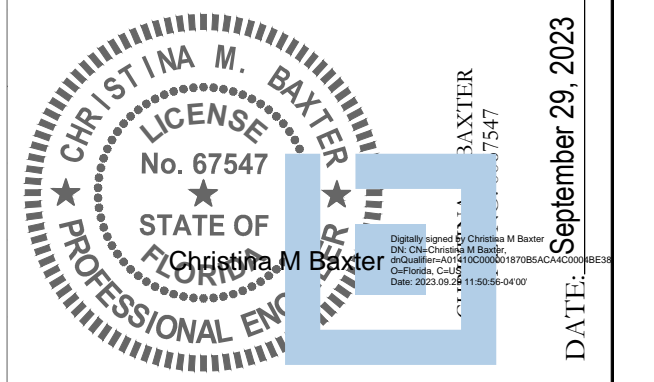
103+00

102+50

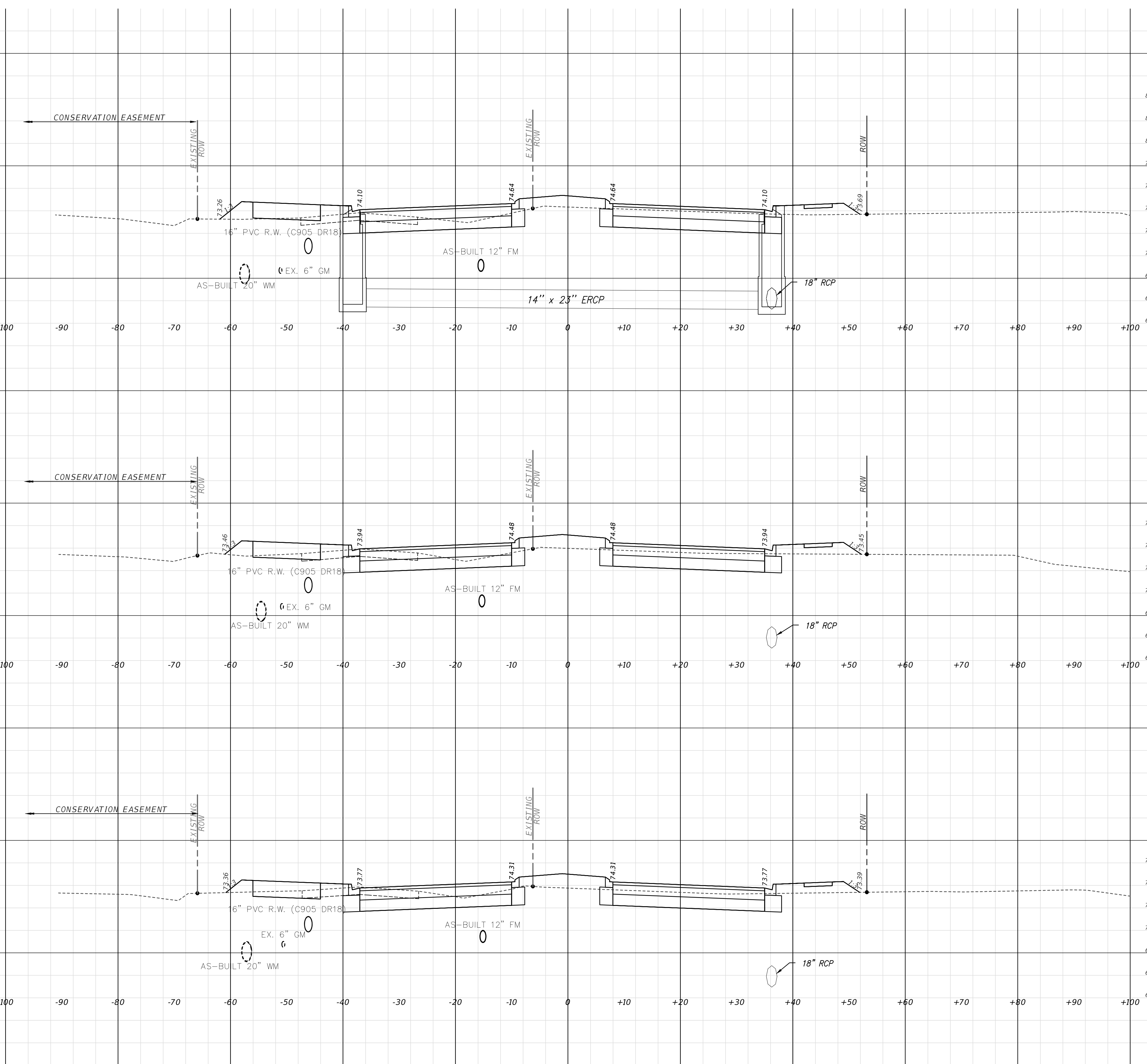
102+00

98	186	32	58
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103	203	30	46
-----	-----	----	----

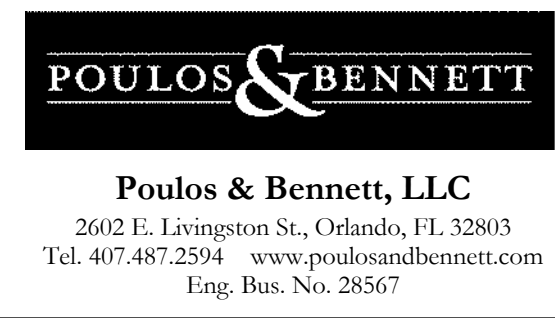


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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

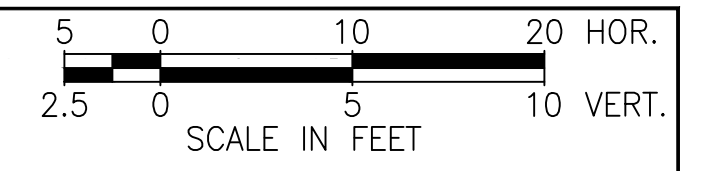
CROSS SECTIONS

SHEET NO.
131

DATE: September 29, 2023

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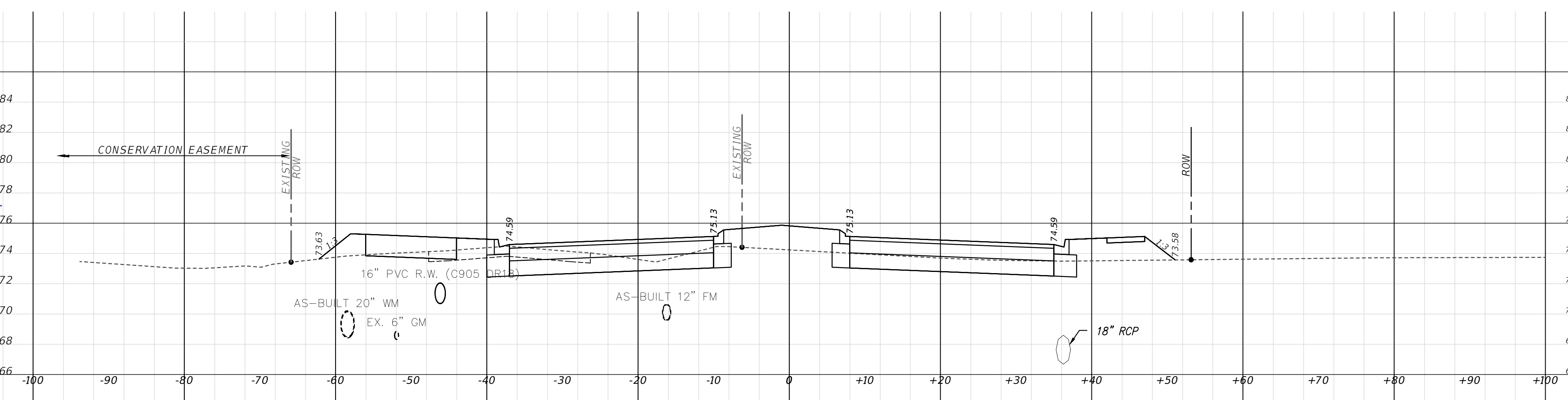
NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



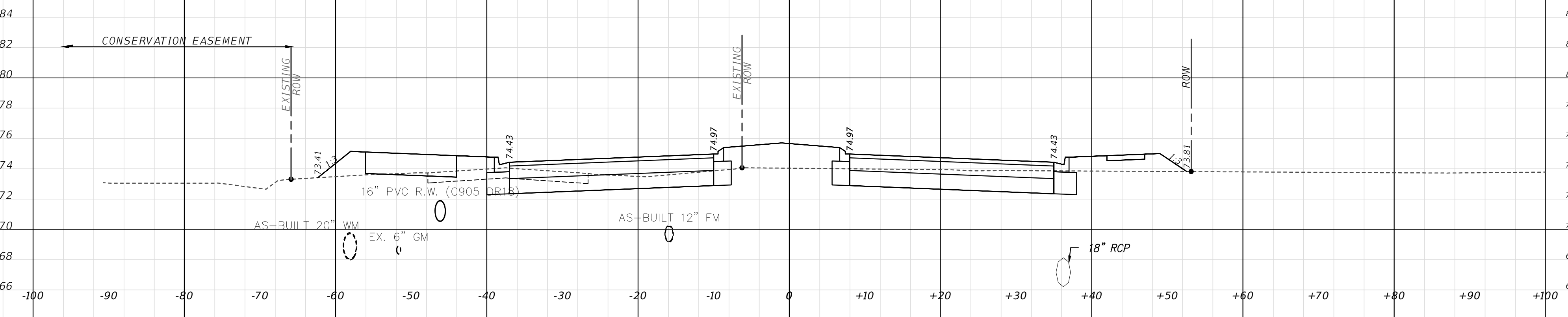
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MUCK REMOVAL SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARDS, FDM SECTION 216.4.2 AND FDOT STANDARD PLANS 120-002.

Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)

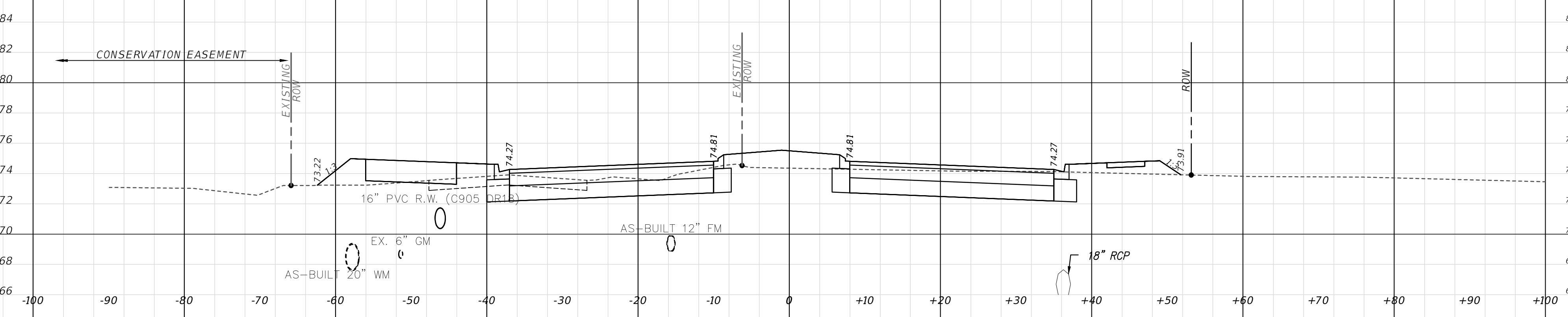
77	146	43	80
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104+50



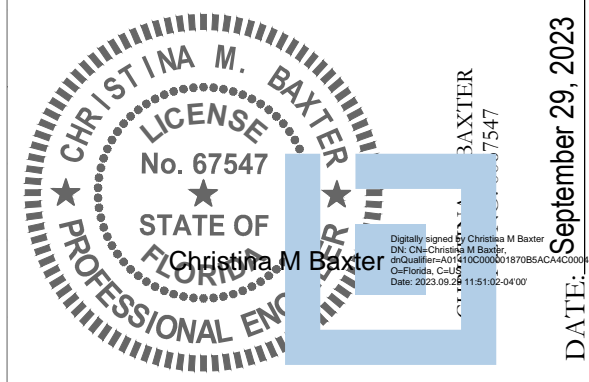
104+00



103+50

81	170	43	70
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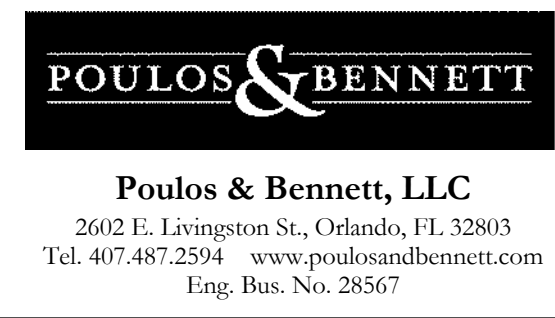
103	182	33	60
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DATE	DESCRIPTION	DATE	DESCRIPTION



OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

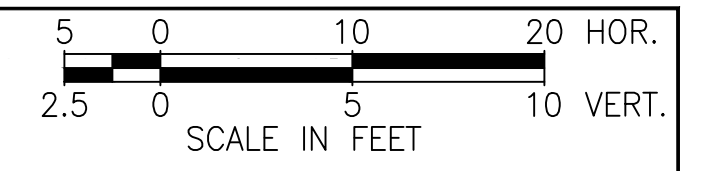
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
132

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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

68	119	49	76		
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106+50

60	62	33	24		
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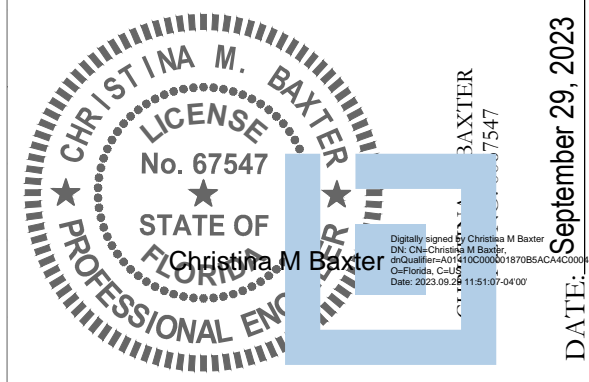
106+00

ABSHER ROAD STA. 105+50 RT
SEE DRIVEWAY PLAN & PROFILE SHEETS

DRIVEWAY #11 STA. 105+43 RT
SEE DRIVEWAY PLAN & PROFILE SHEETS

86	150	38	76		
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105+00



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Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

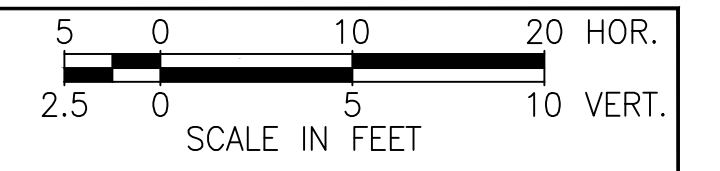
CROSS SECTIONS

SHEET NO.

133

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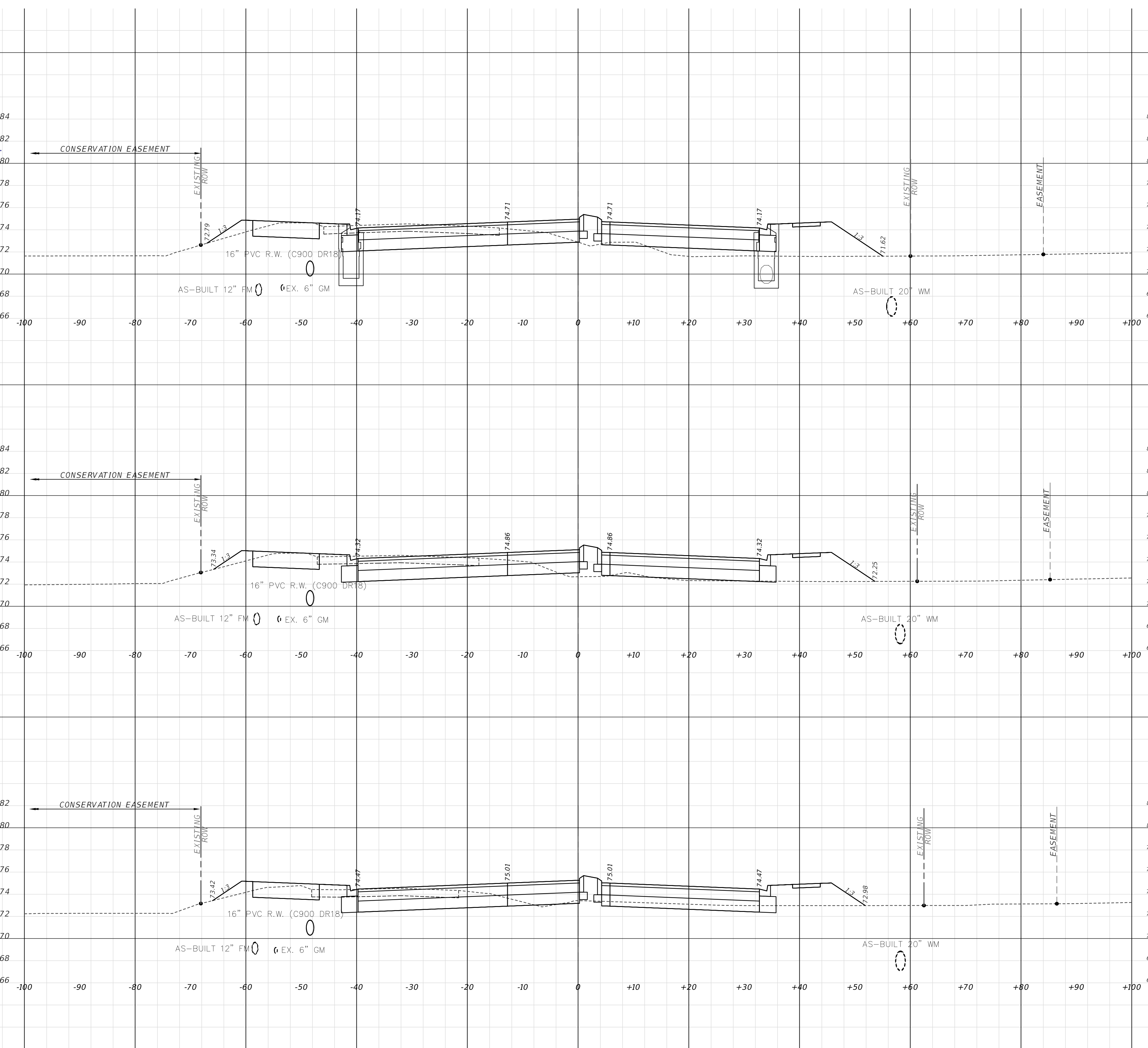
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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

90	161	69	108		
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84	152	47	90		
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80	137	49	91		
----	-----	----	----	--	--



108+00

107+50

107+00

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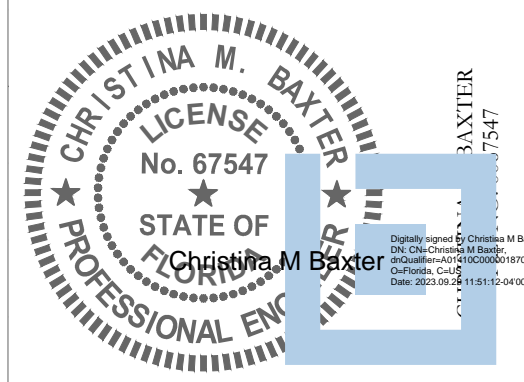
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.

134



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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

158	325	27	161		
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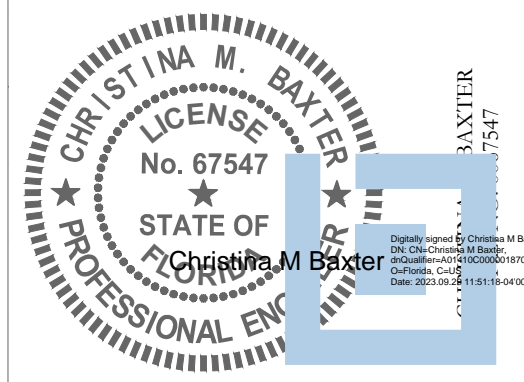
109+74

109+00

108+50

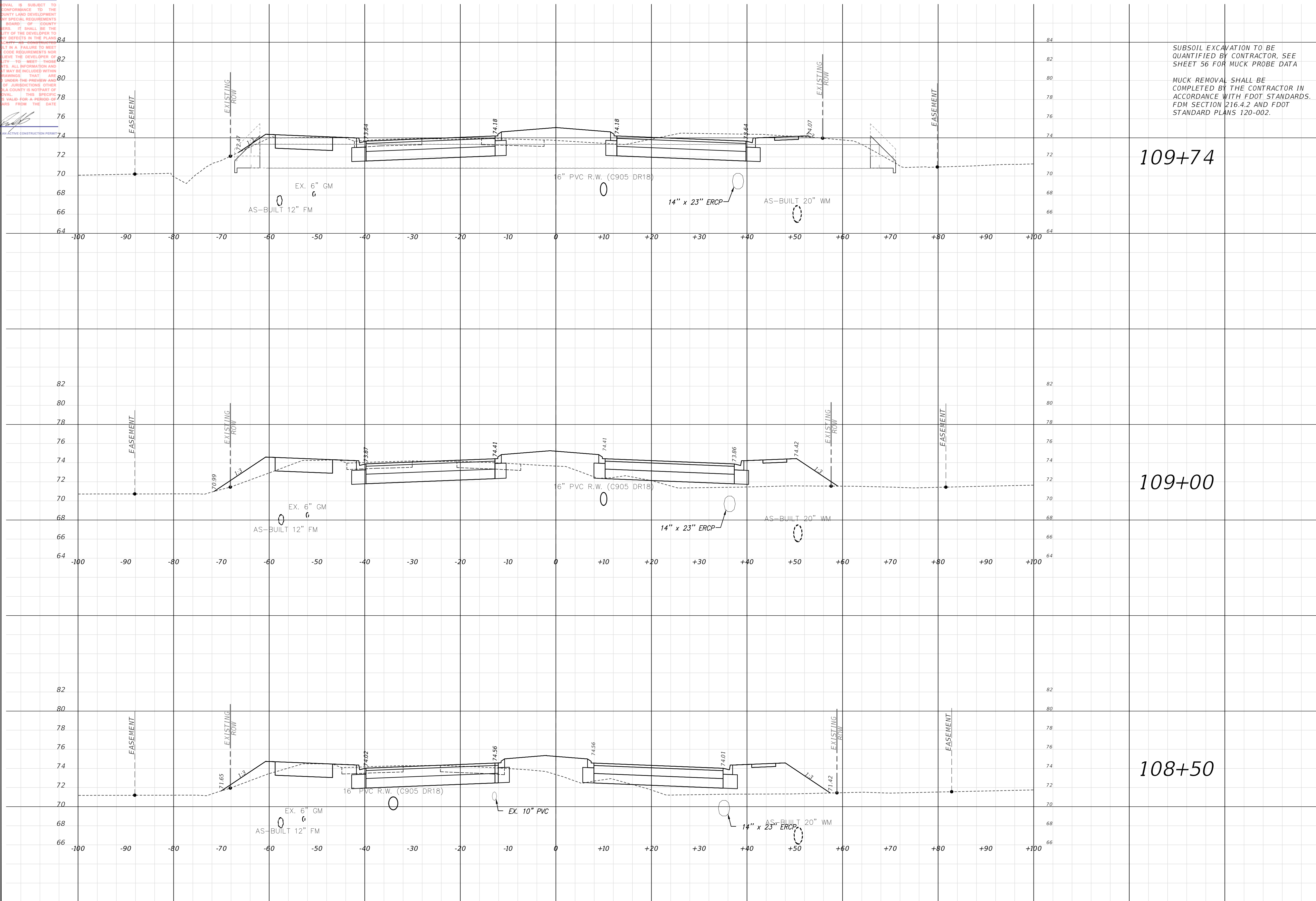
80	149	90	173		
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81	158	97	154		
----	-----	----	-----	--	--



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Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

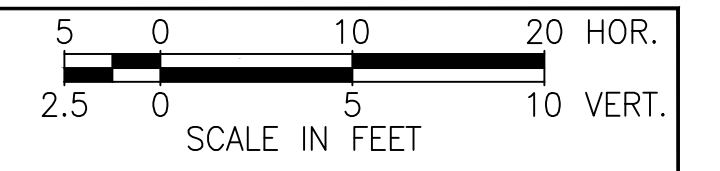
CROSS SECTIONS

SHEET NO.

135

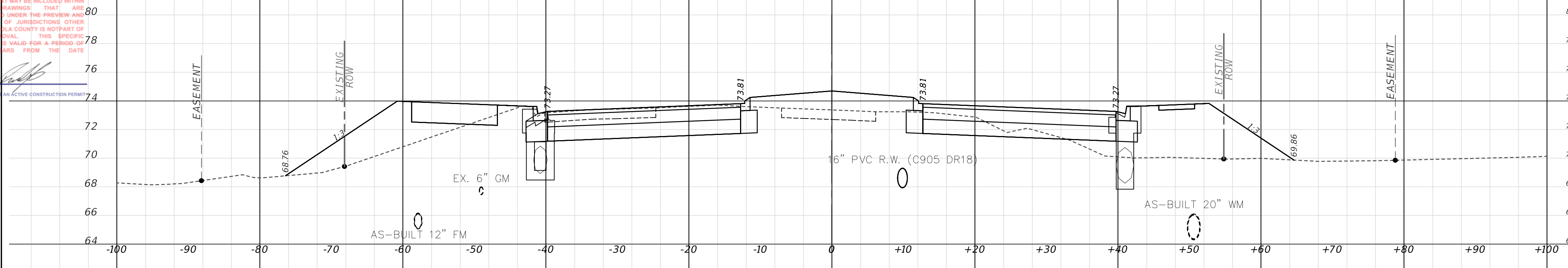
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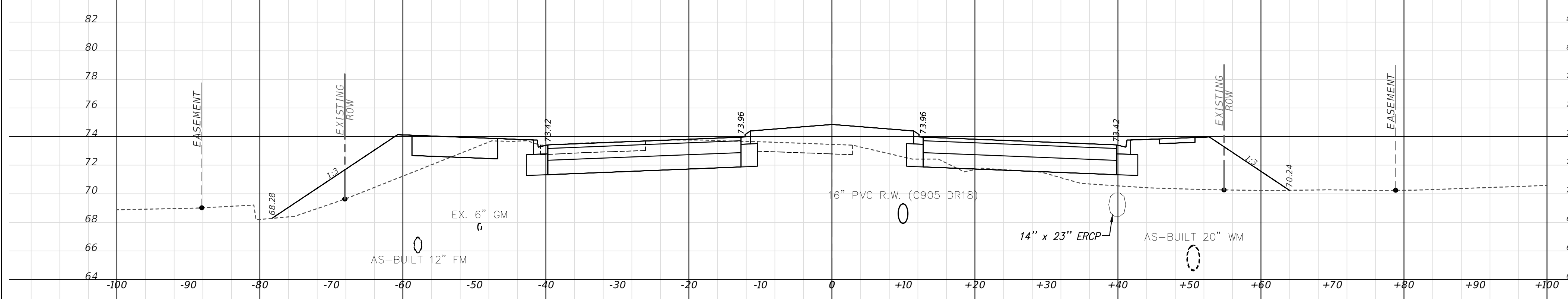
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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



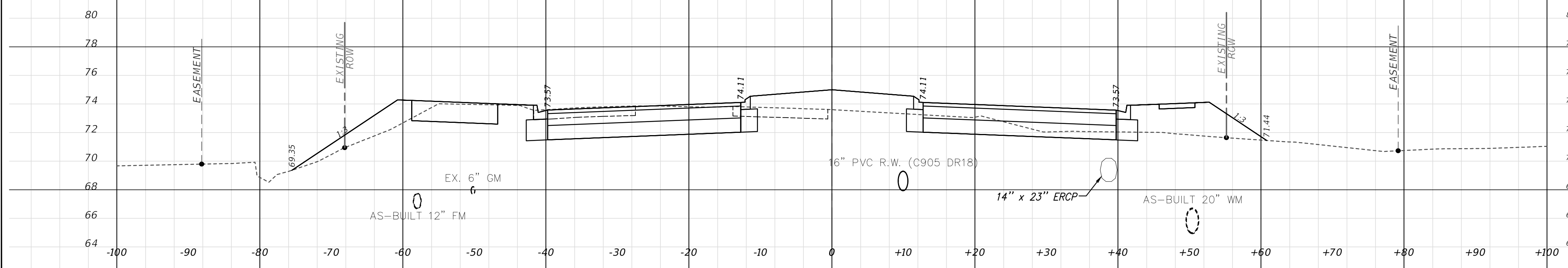
111+00

87	149	132	243
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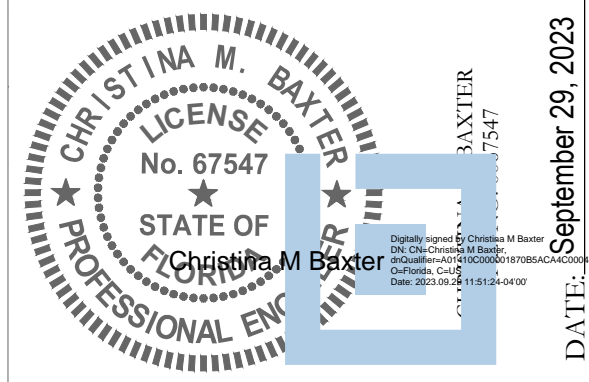
110+50

74	166	130	187
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110+00

105	127	72	48
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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

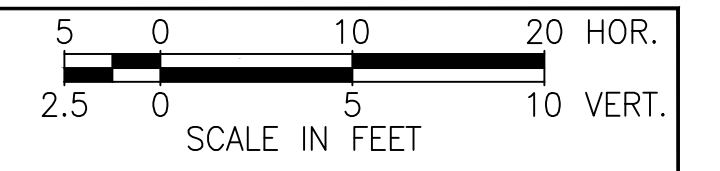
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
136

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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

107	182	128	244		
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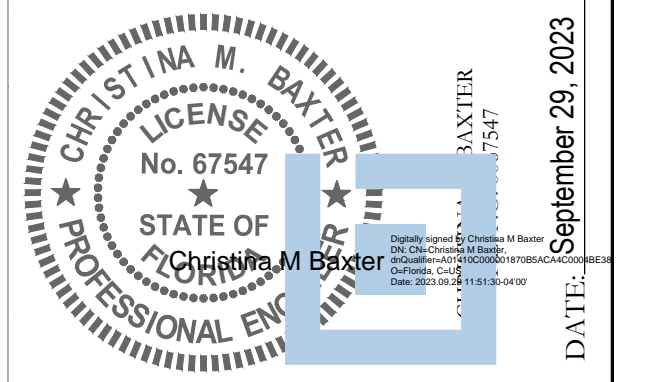
112+50

89	161	136	242		
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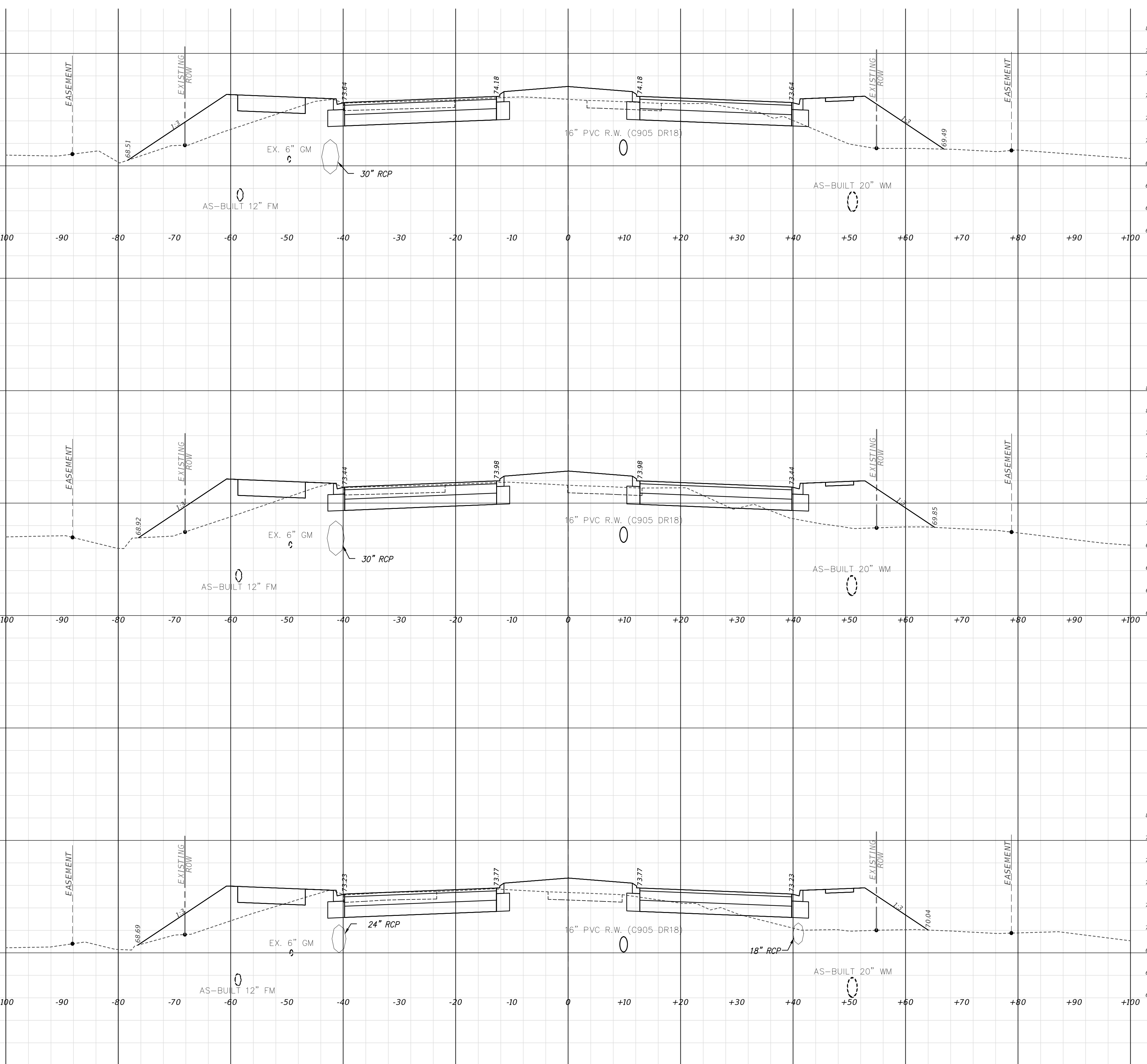
112+00

84	159	125	238		
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111+50

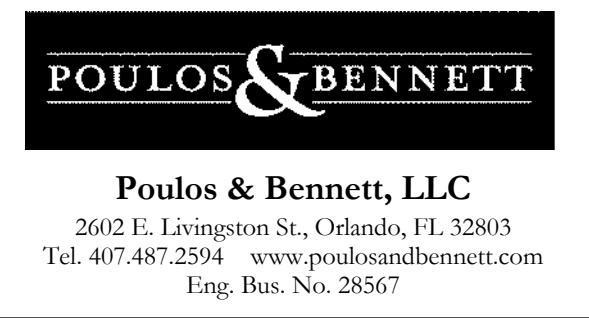


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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

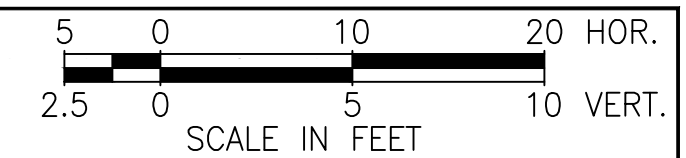
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.	137
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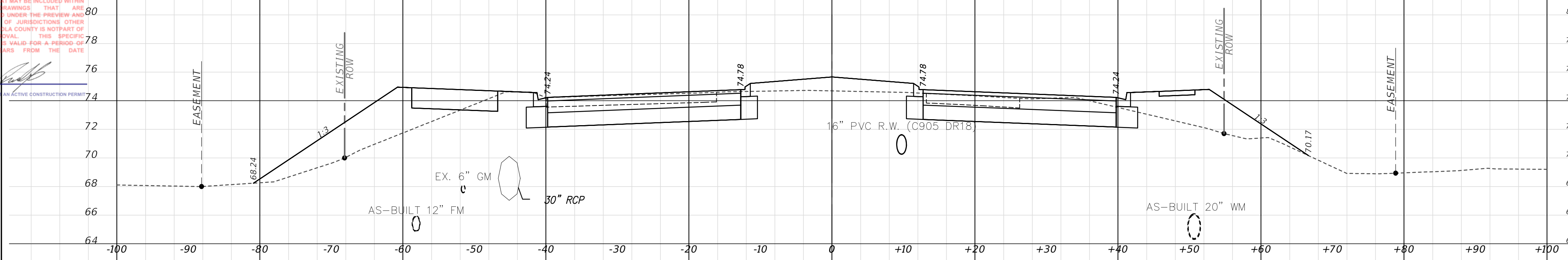
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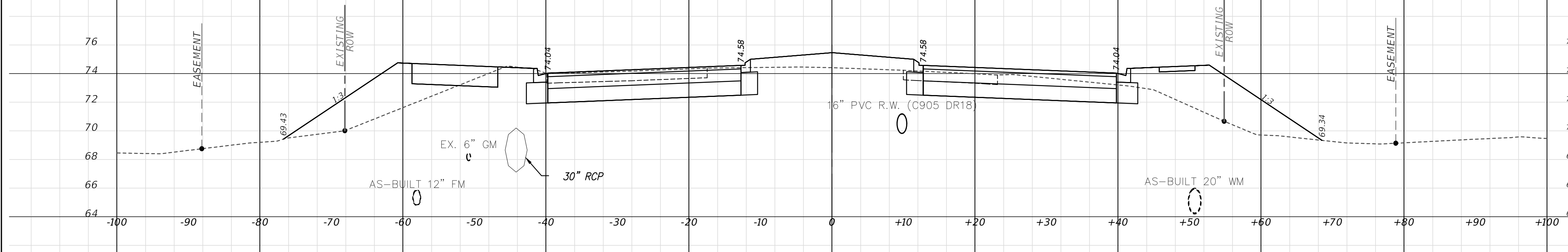
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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



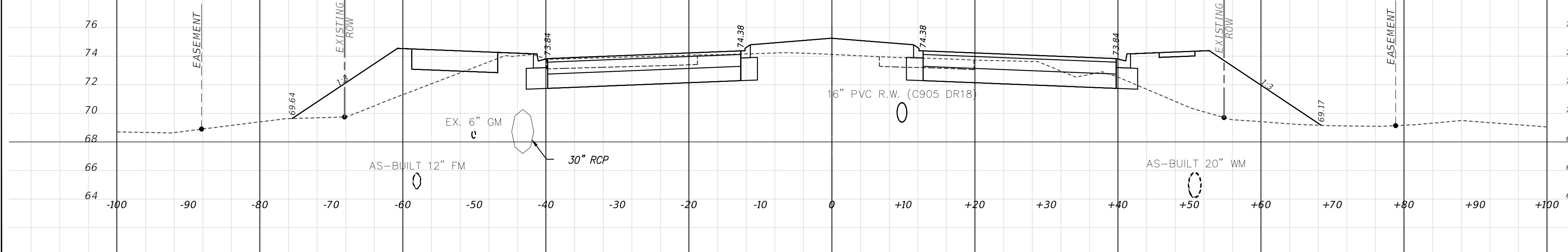
114+00

125	225	103	200
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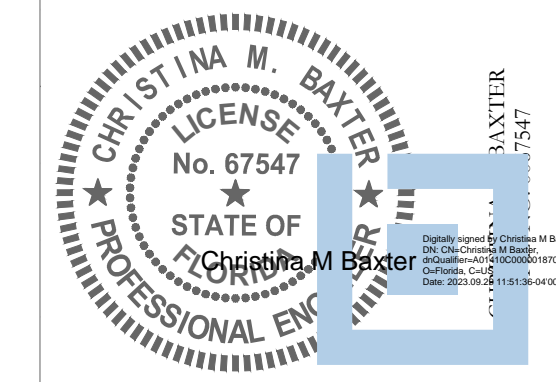
113+50

118	210	112	226
-----	-----	-----	-----



113+00

108	199	131	240
-----	-----	-----	-----



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2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

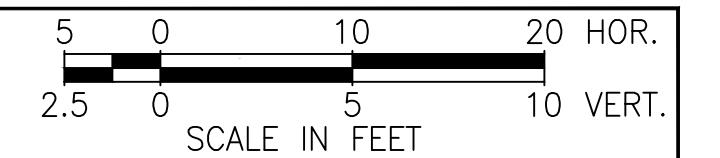
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

SHEET NO.
138

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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

101	133	48	67		
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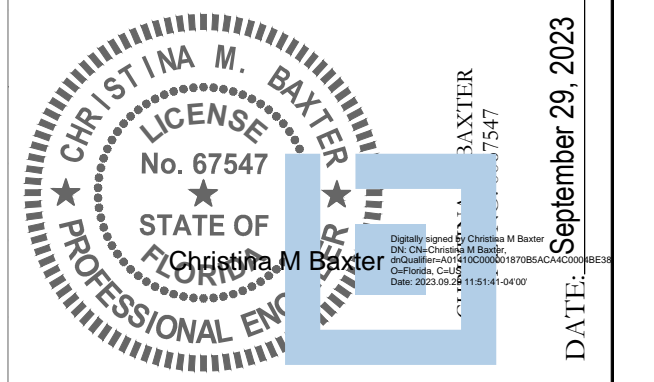
115+30

139	250	73	158		
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115+00

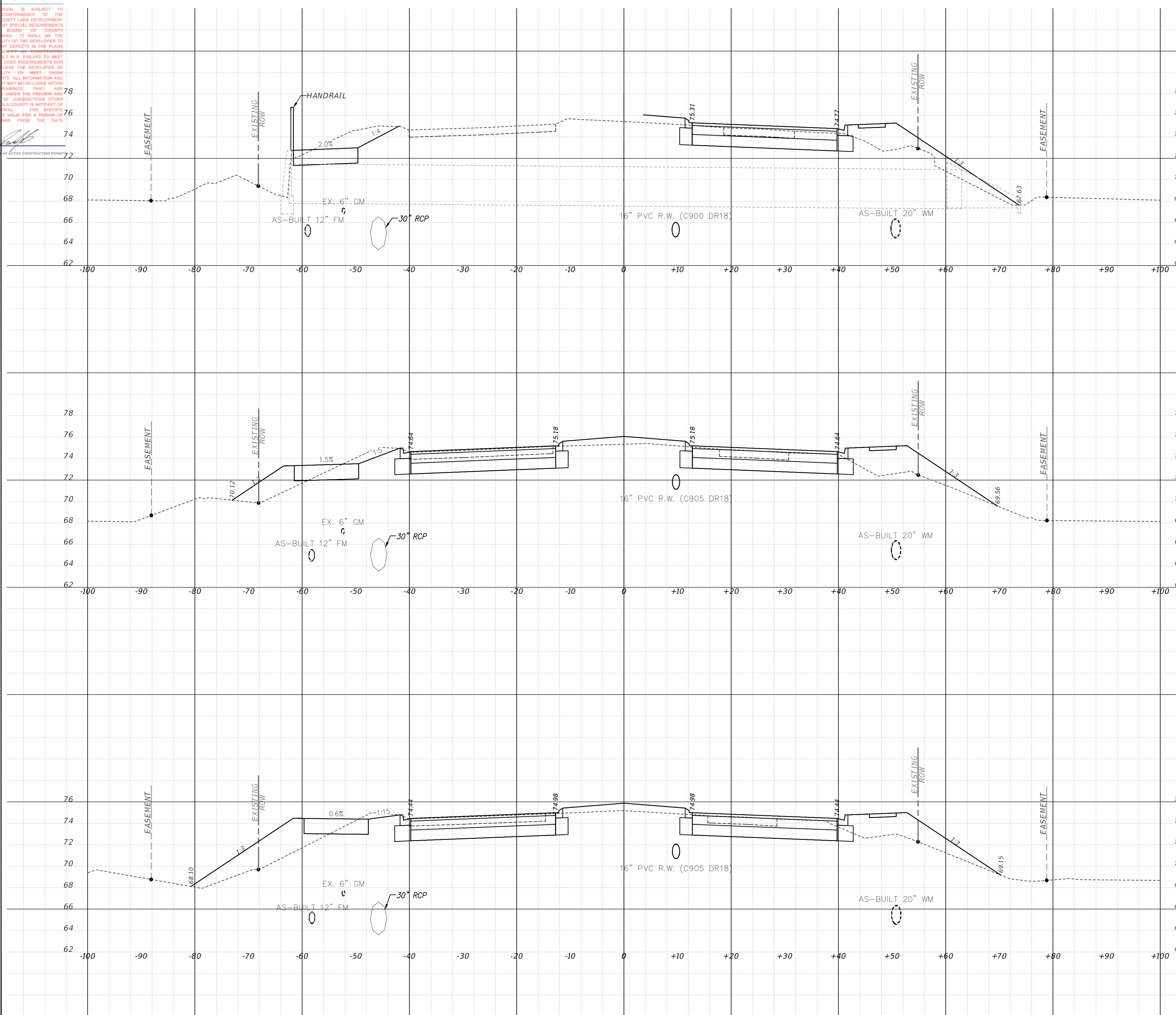
131	237	98	187		
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114+50



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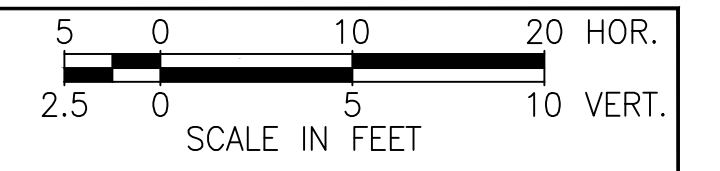
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
139

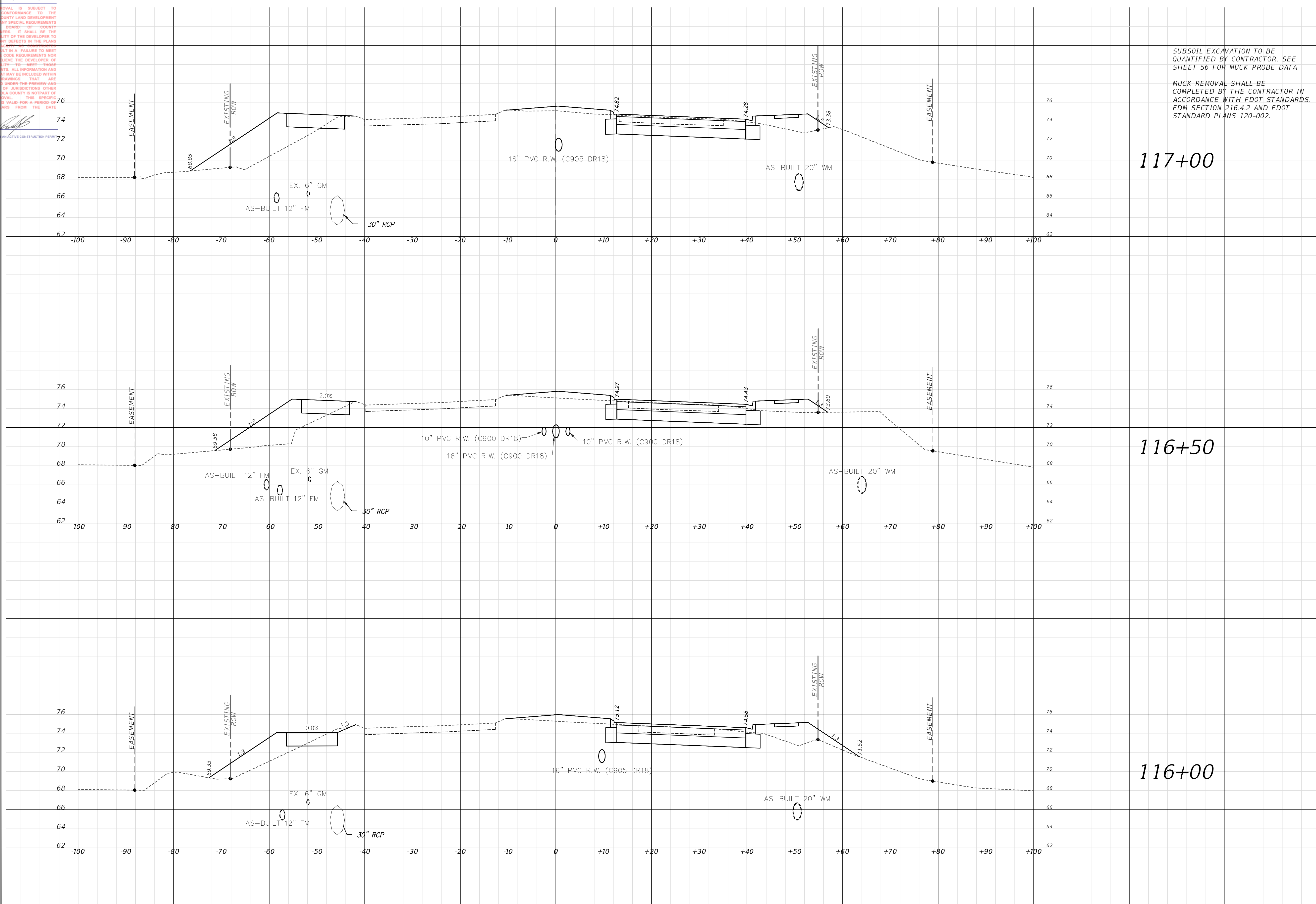
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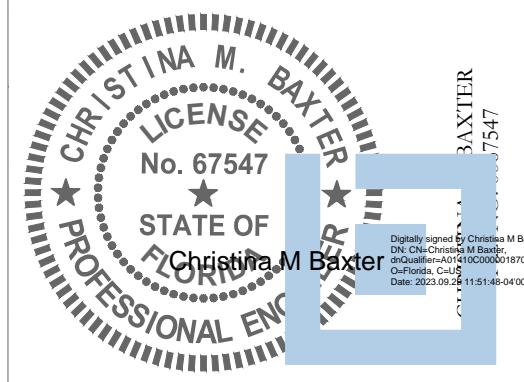


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Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)



69	123	86	146
64	122	72	126
68	219	64	146



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PROJECT NO. (SDP23-0132)

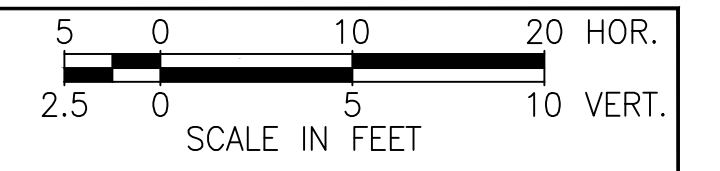
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
140

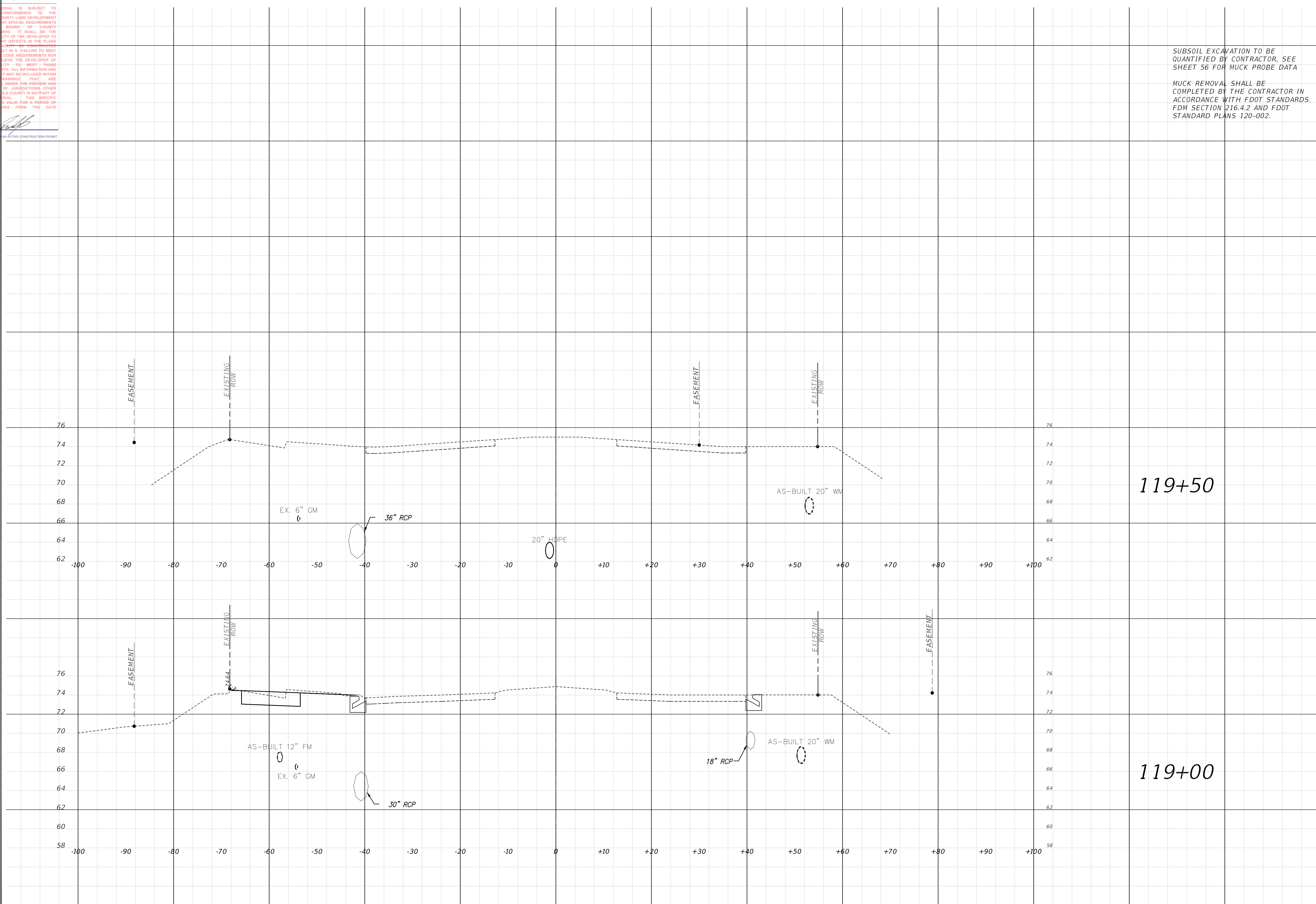
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SUBSOIL EXCAVATION TO BE QUANTIFIED BY CONTRACTOR, SEE SHEET 56 FOR MUCK PROBE DATA
MUCK REMOVAL SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARDS, FDM SECTION 216.4.2 AND FDOT STANDARD PLANS 120-002.

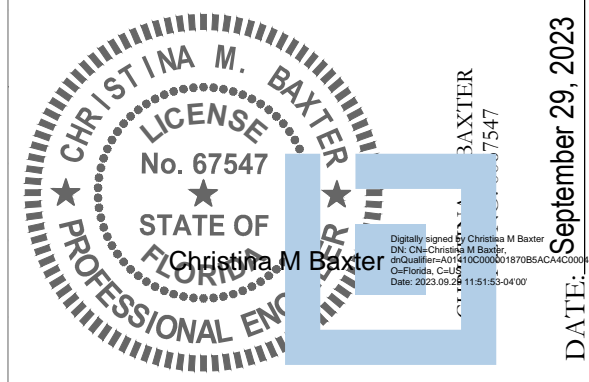
Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)



17	21	0	18
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119+50

119+00



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DATE: September 29, 2023

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DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT
Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

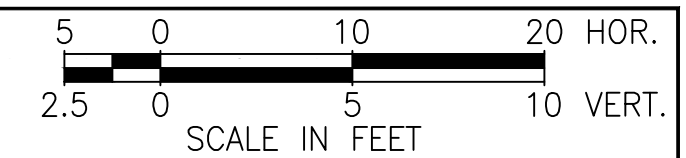
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CROSS SECTIONS

SHEET NO.
141

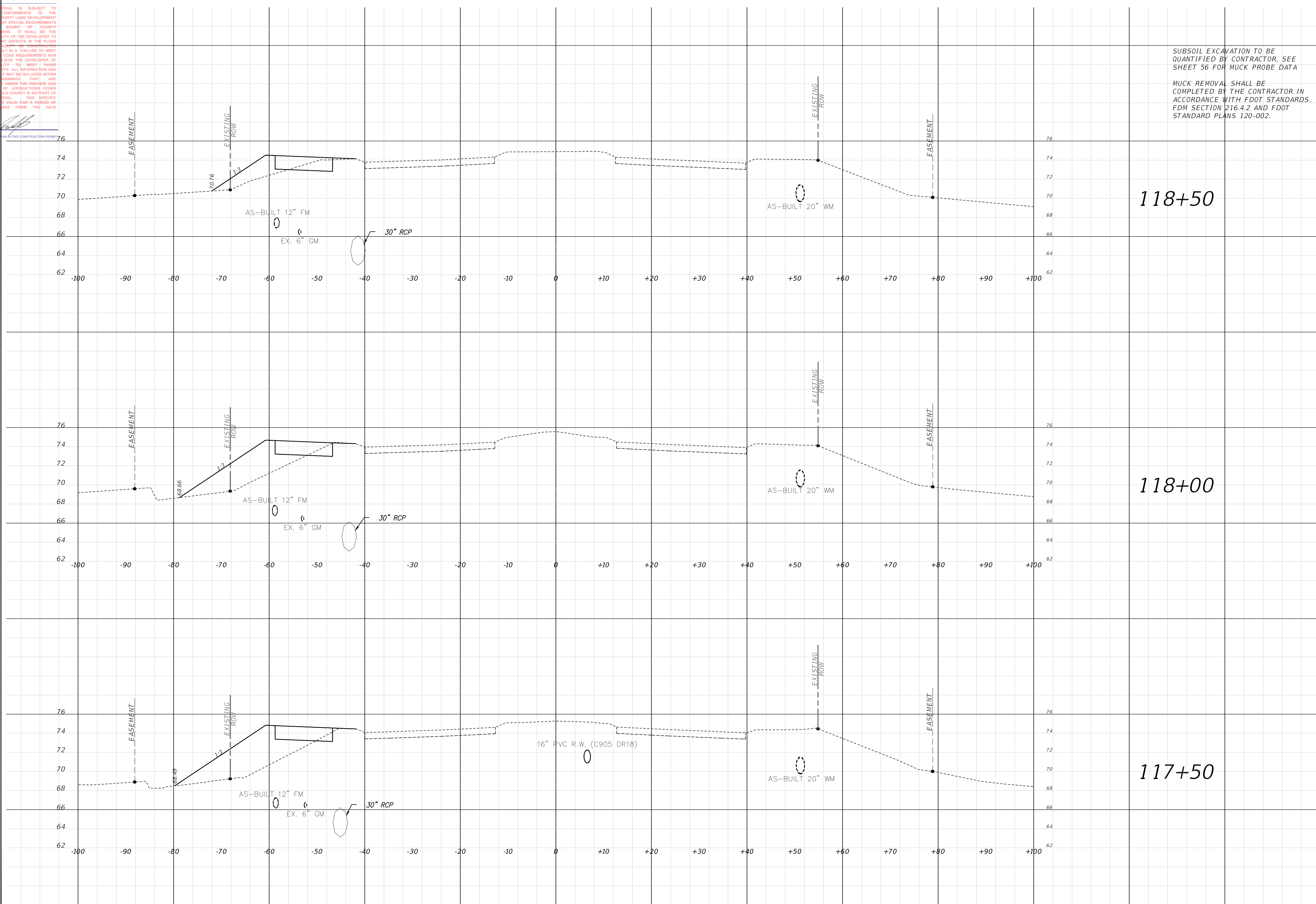
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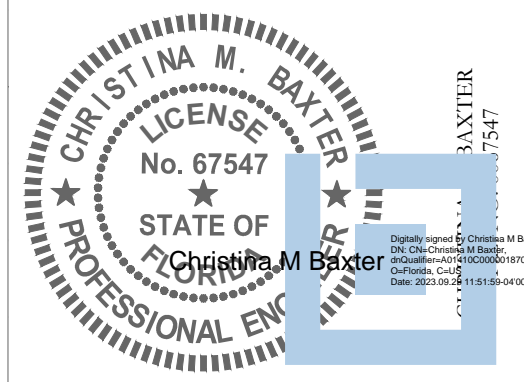


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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



7	10	19	67
4	5	52	110
2	65	66	140



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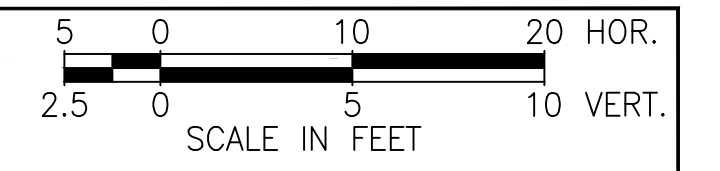
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CROSS SECTIONS

SHEET NO.
142

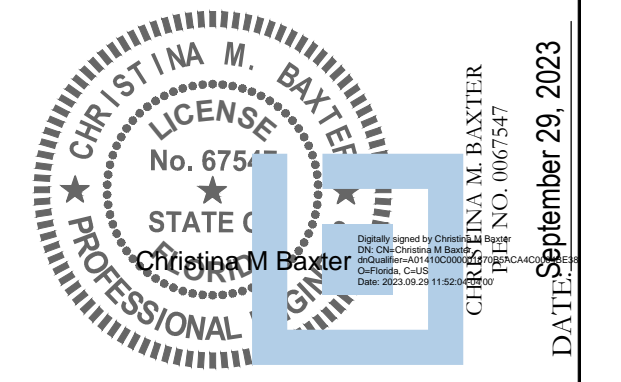
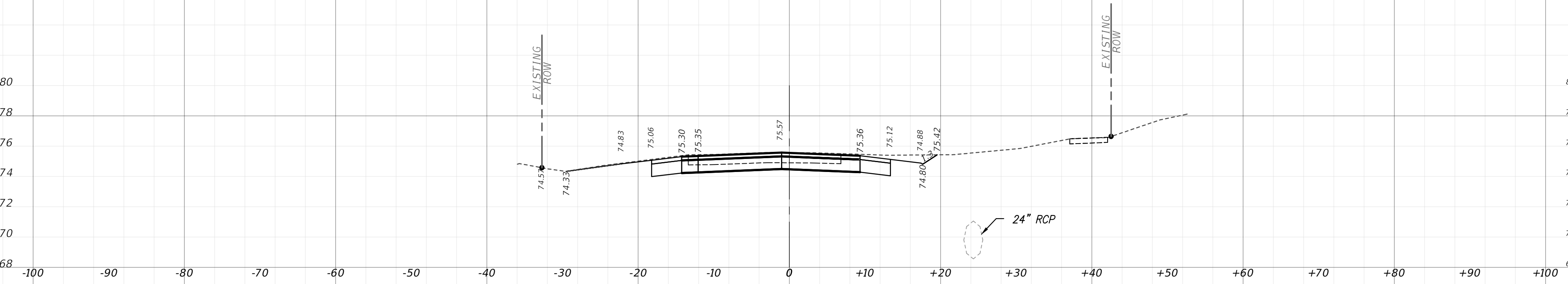
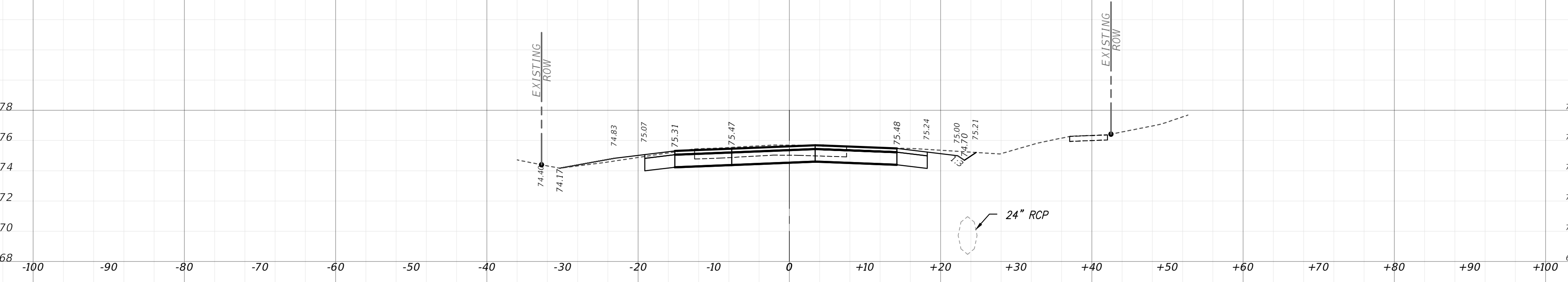
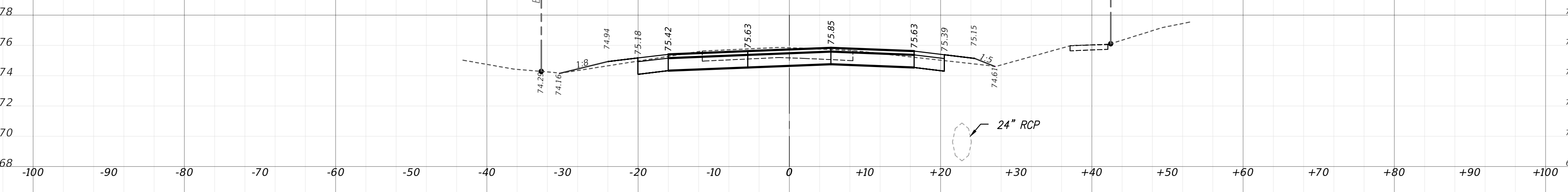
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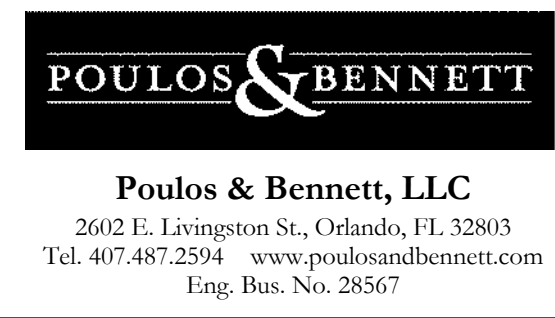
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Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)



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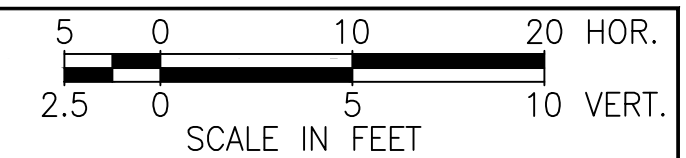
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
ZUNI ROAD CROSS SECTIONS

SHEET NO.	143
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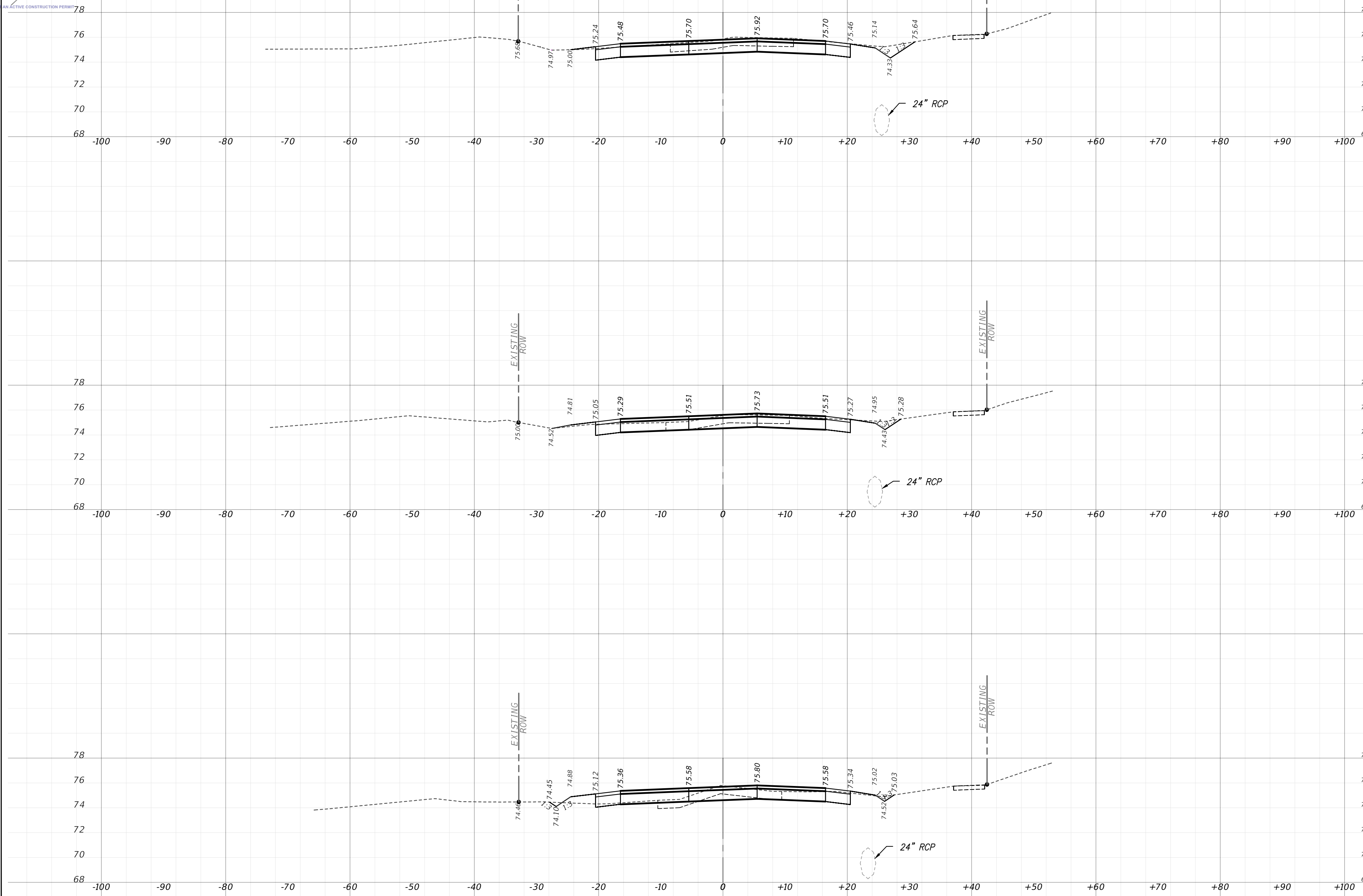
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Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)



126+50

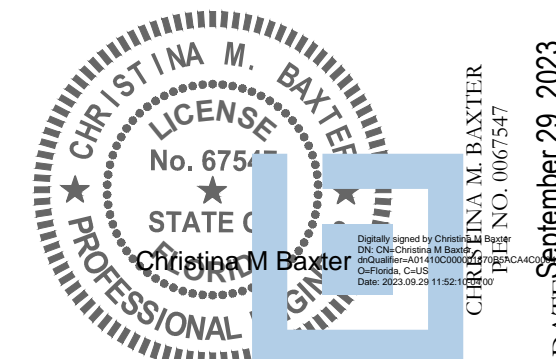
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126+00

0	0	0	0
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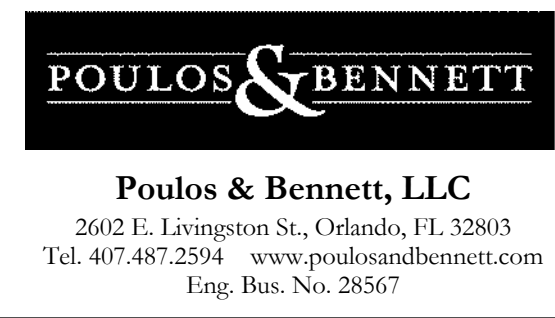
125+50

0	0	0	0
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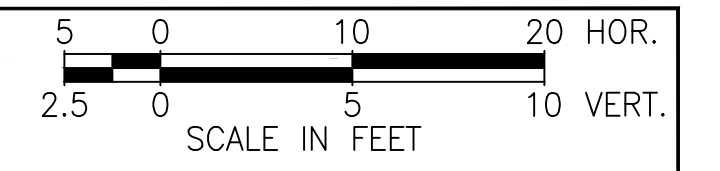
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
ZUNI ROAD CROSS SECTIONS

SHEET NO.
144

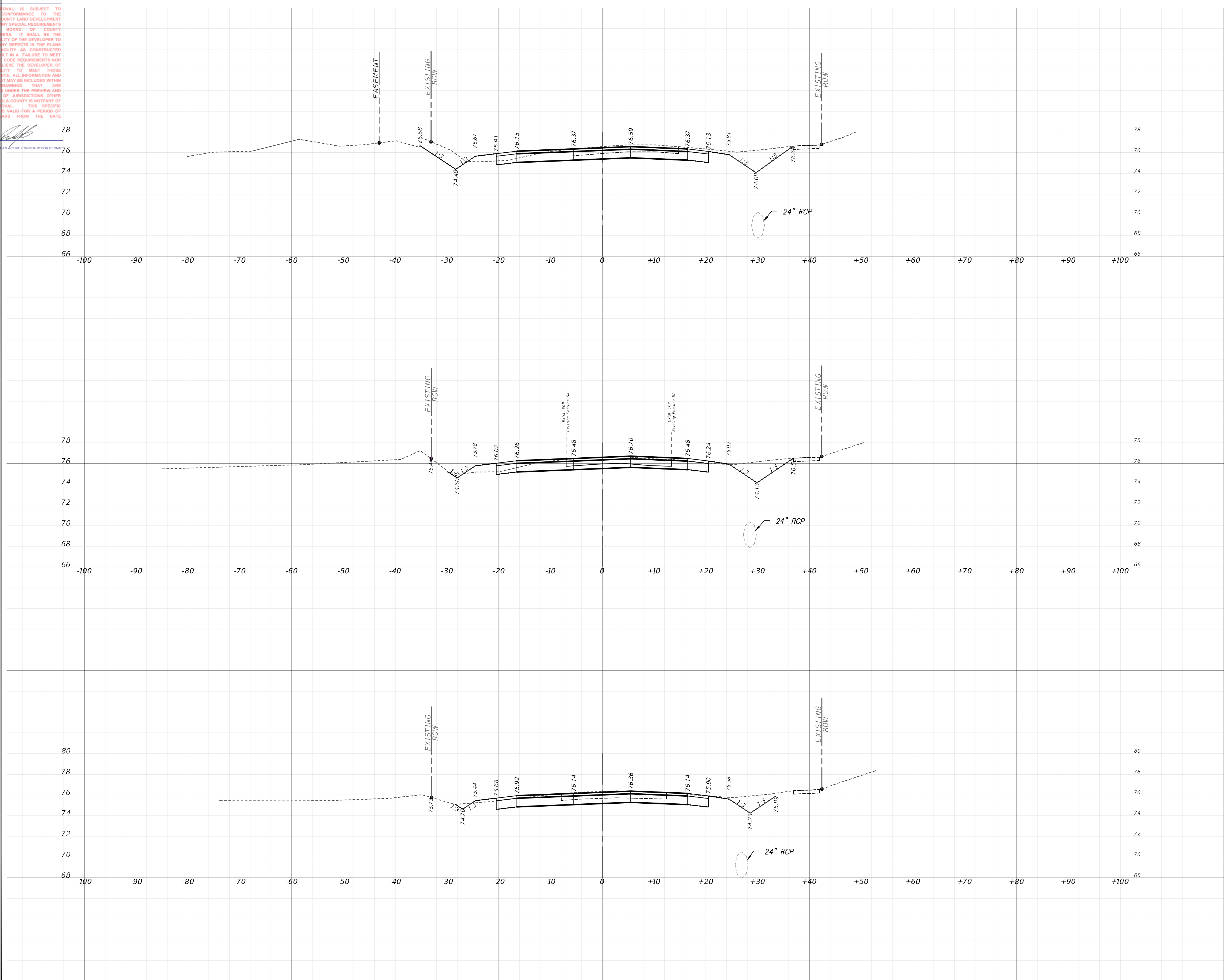
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Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)



128+00

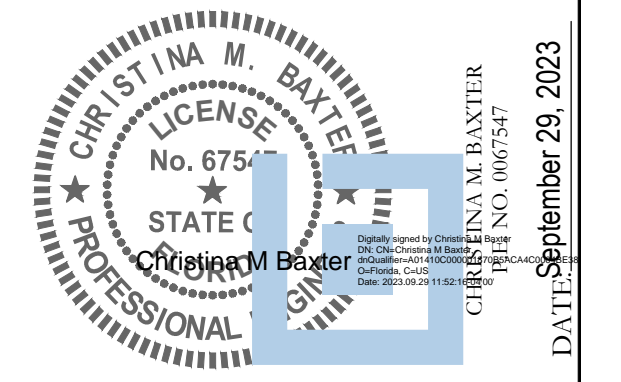
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127+50

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127+00

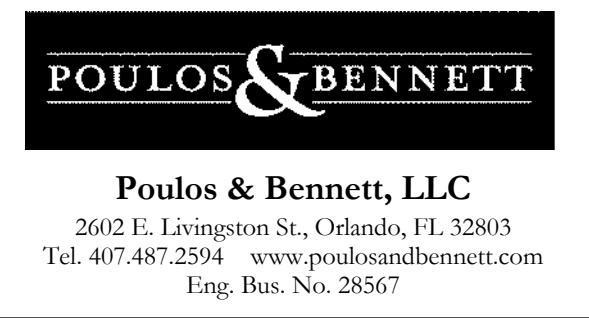
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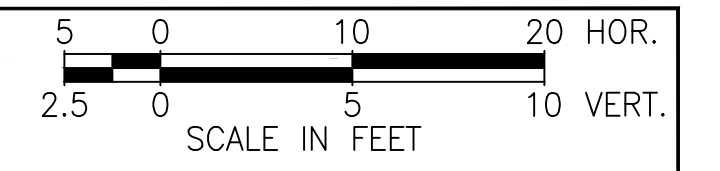
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
ZUNI ROAD CROSS SECTIONS

SHEET NO.
145

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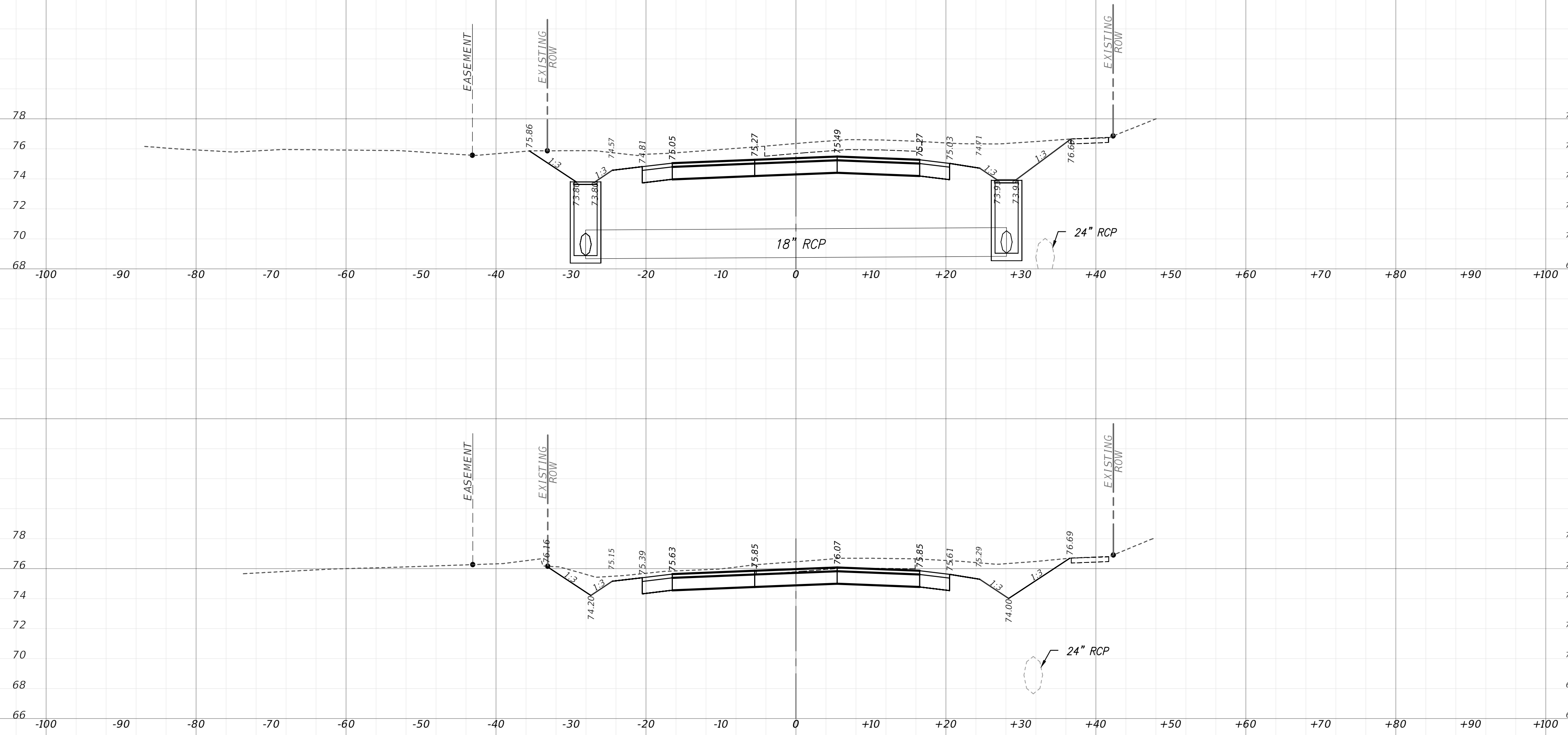
NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



SUBSOIL EXCAVATION TO BE QUANTIFIED BY CONTRACTOR, SEE SHEET 56 FOR MUCK PROBE DATA

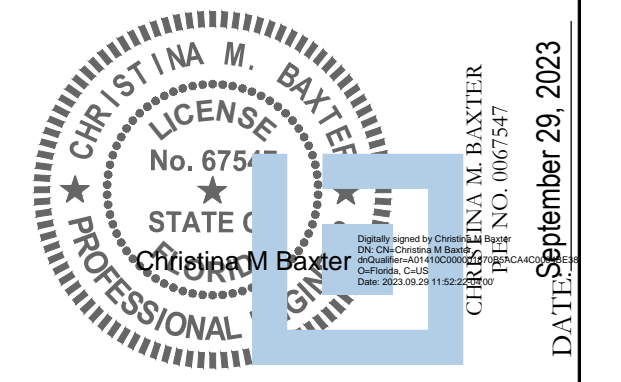
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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



0	0	0	0
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0	0	0	0
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Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

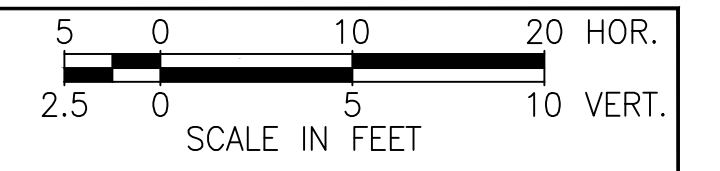
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
ZUNI ROAD CROSS SECTIONS

SHEET NO.
146

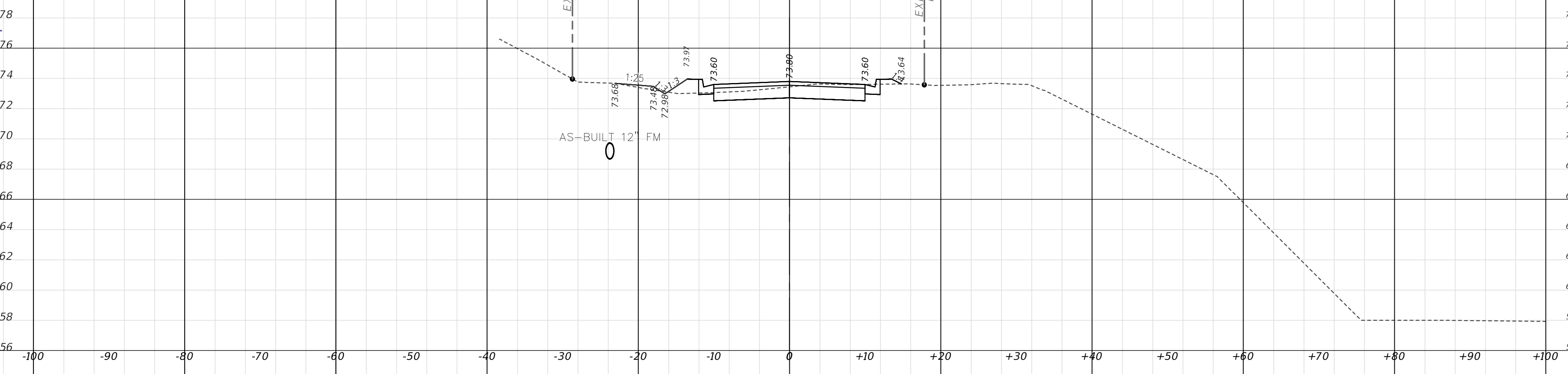
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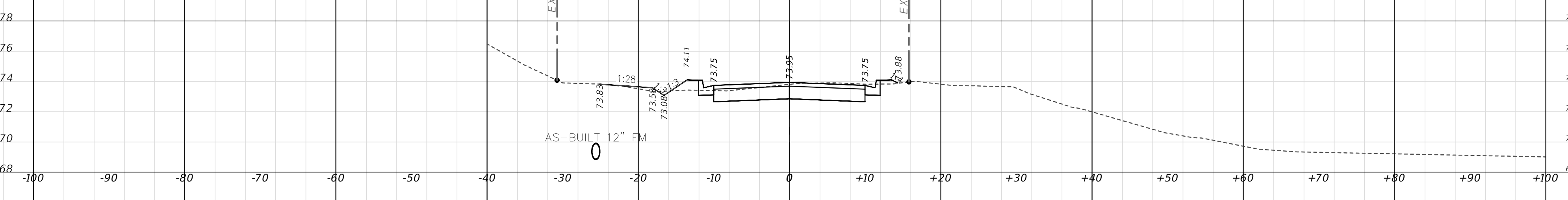


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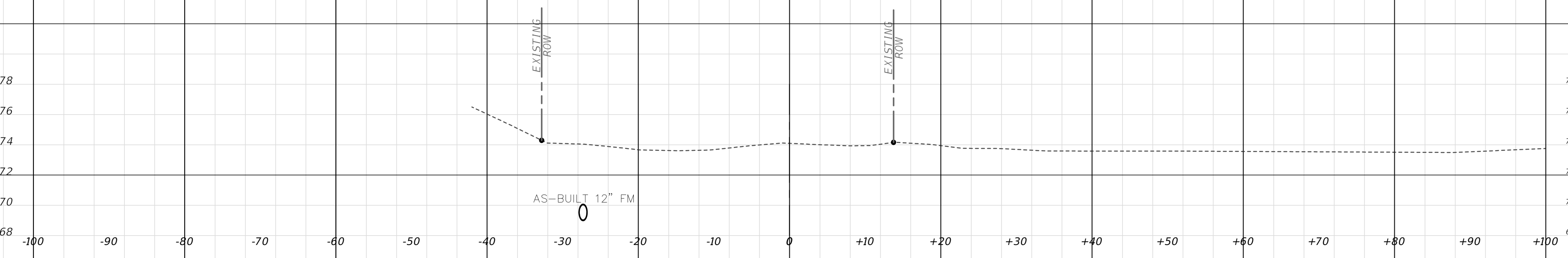
Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



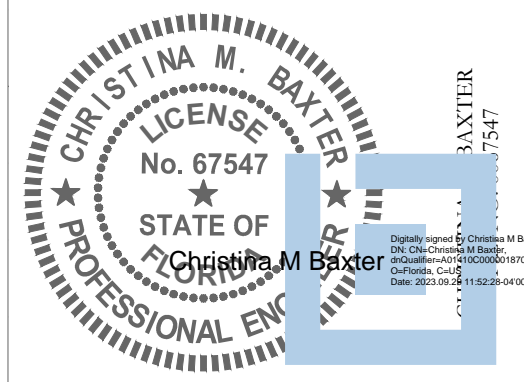
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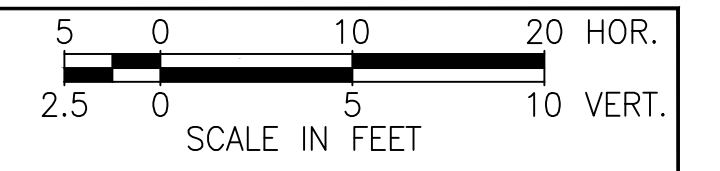
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
FRANKLIN ROAD CROSS SECTIONS

SHEET NO.	147
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THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE INFORMATION PROVIDED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS FOR DOES IT BELIEVE THE DEVELOPER OF RESPONSIBILITY TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE DRAWINGS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTION OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

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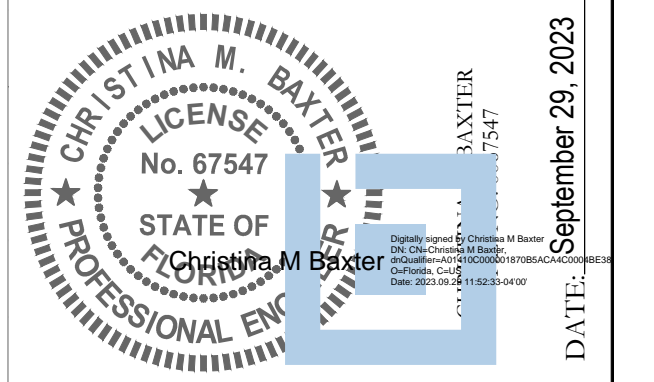
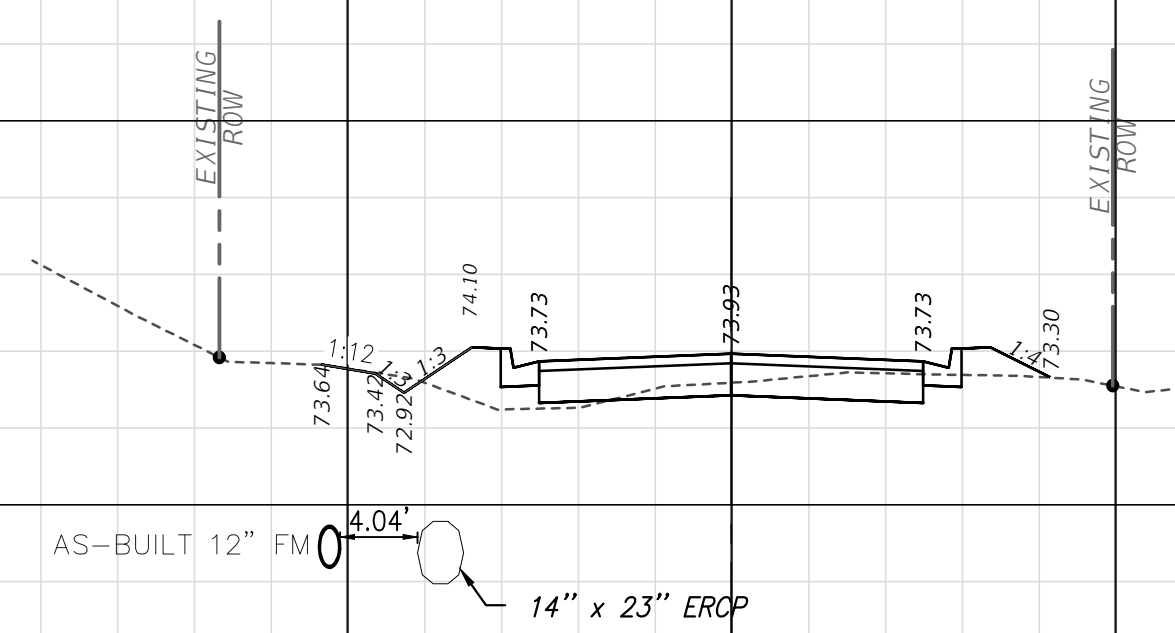


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Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

0	0	0	0	0	0
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149+00



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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

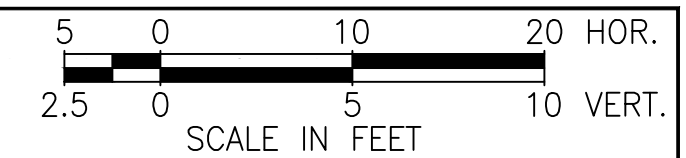
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
FRANKLIN ROAD CROSS SECTIONS

SHEET NO.
148

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198+50

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Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)

0	0	0	0
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198+00

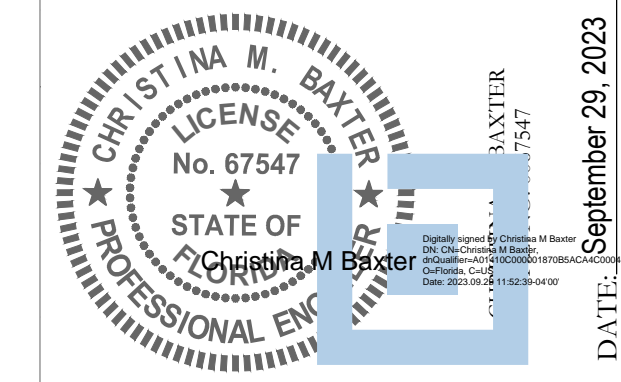
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197+50

0	0	0	0
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197+20

0	0	0	0
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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

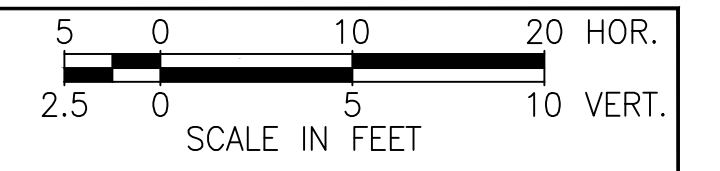
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
ABSHER ROAD CROSS SECTIONS

SHEET NO.

149

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE PLANS OR THE CONTRACTOR WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS FOR RESPONSIBILITY TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE DRAWINGS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTION OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

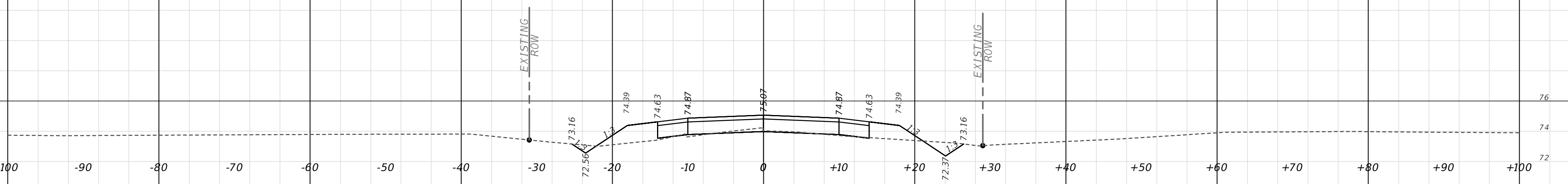
NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



SUBSOIL EXCAVATION TO BE QUANTIFIED BY CONTRACTOR, SEE SHEET 56 FOR MUCK PROBE DATA

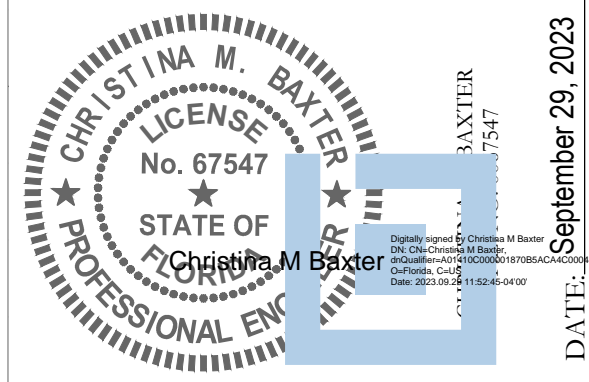
MUCK REMOVAL SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARDS. FDM SECTION 216.4.2 AND FDOT STANDARD PLANS 120-002.

Regular		Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)



199+00

0 0 0 0



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DATE: September 29, 2023

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POULOS & BENNETT

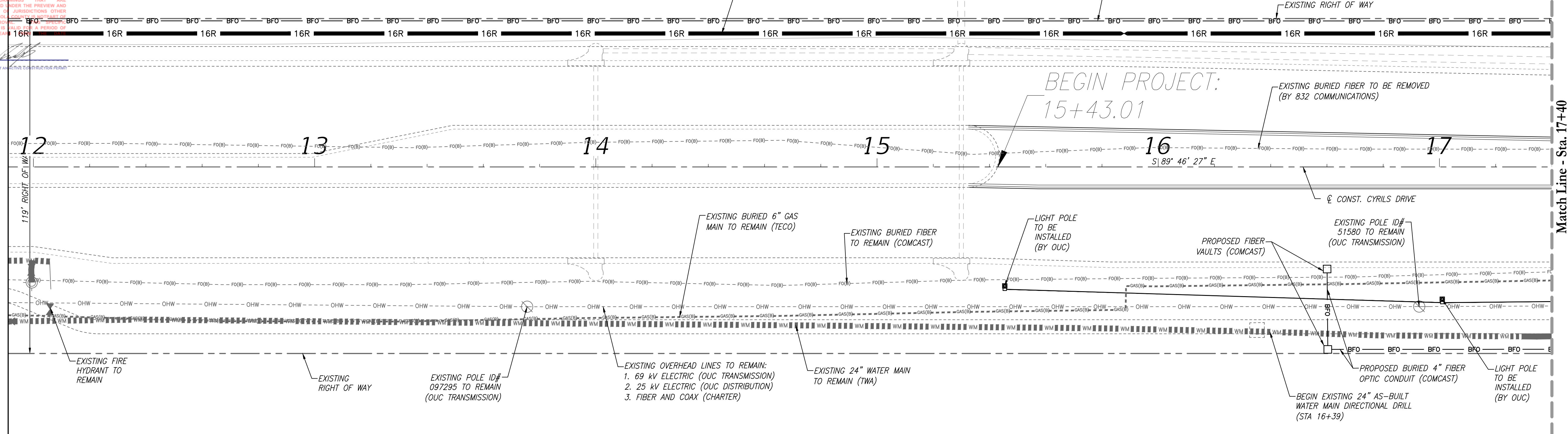
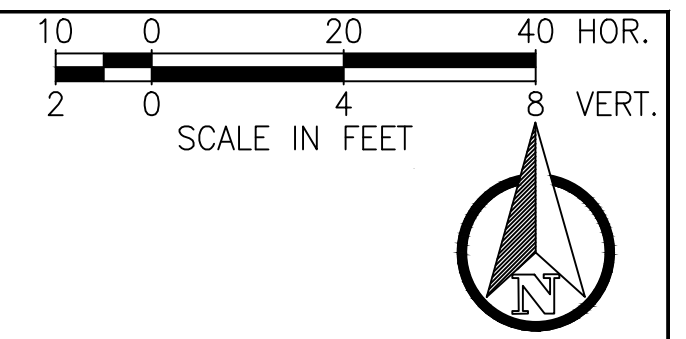
Poulos & Bennett, LLC
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Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

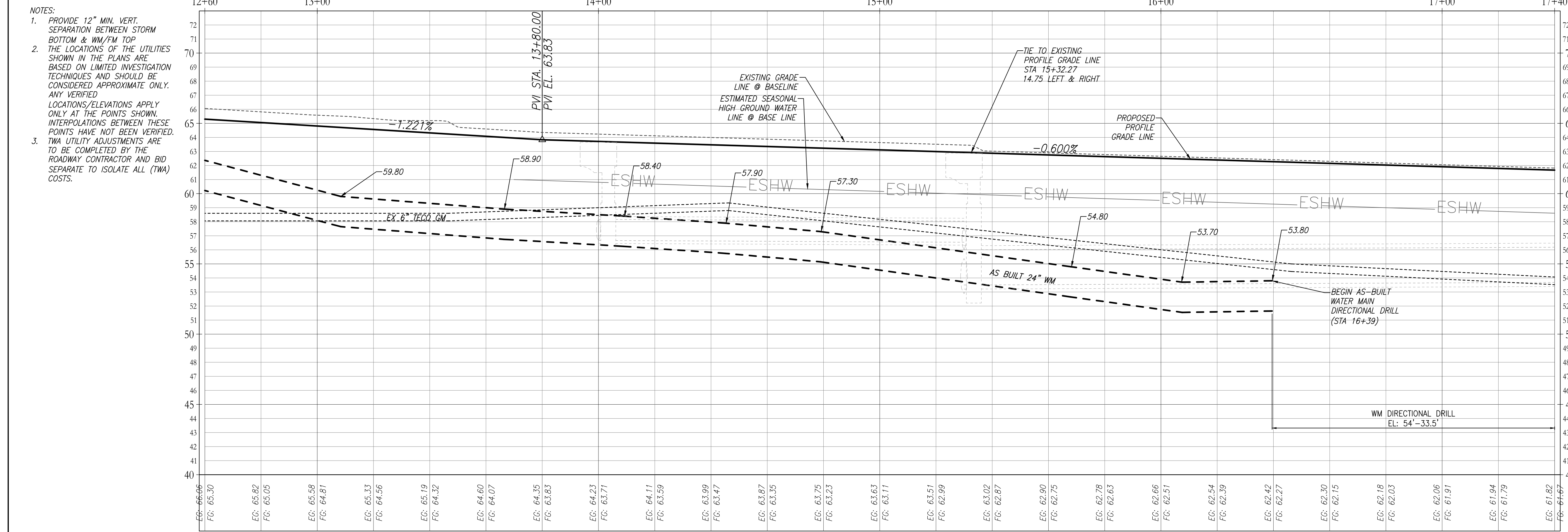
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
ABSHER ROAD CROSS SECTIONS

SHEET NO.
150

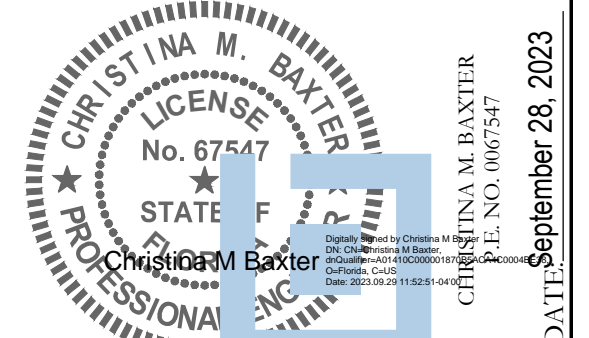
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NOTES:
SEE RECLAIMED WATER PLAN & PROFILES SHEETS 188-212



NOTES:
1. PROVIDE 12" MIN. VERT. SEPARATION BETWEEN STORM BOTTOM & WM/FM TOP
2. THE LOCATIONS OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. ANY VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
3. TWA UTILITY ADJUSTMENTS ARE TO BE COMPLETED BY THE ROADWAY CONTRACTOR AND BID SEPARATE TO ISOLATE ALL (TWA) COSTS.



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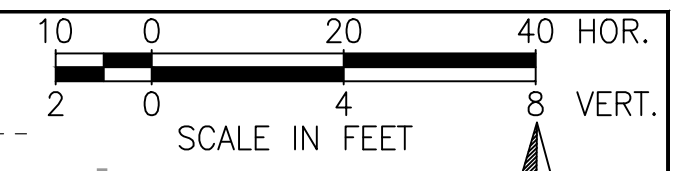
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
UTILITY ADJUSTMENT SHEETS

SHEET NO.
151

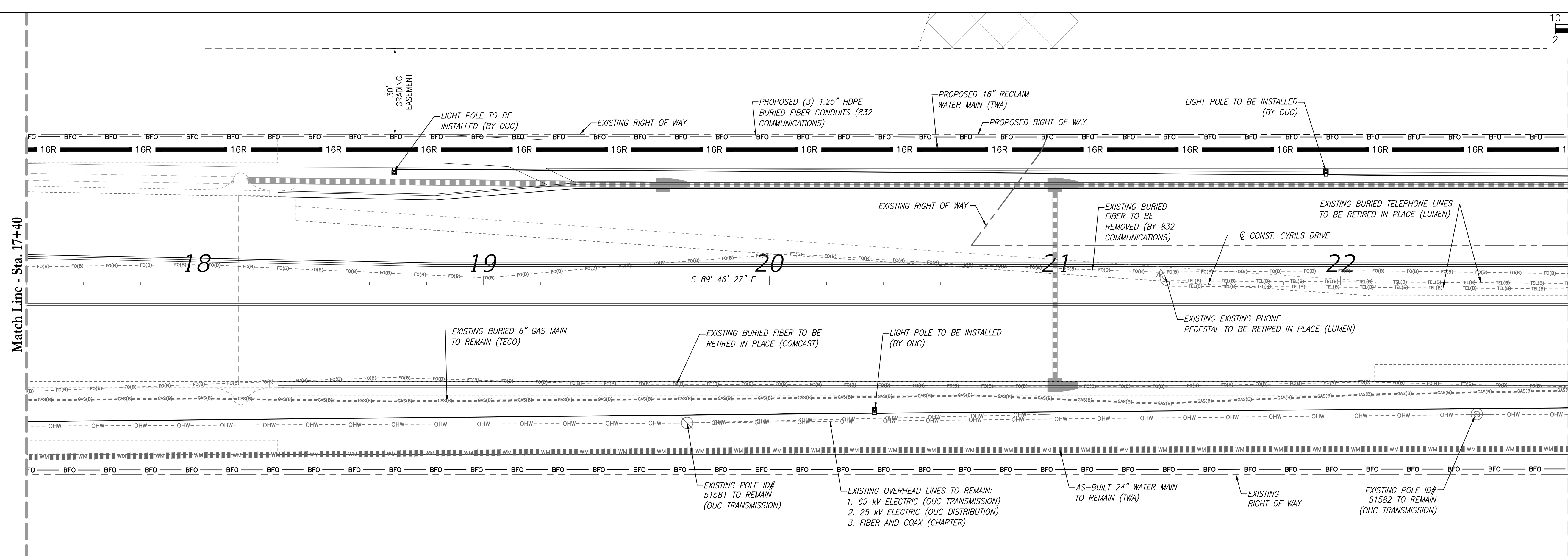
Z:\2017\17-042 TAVIS/STOCK - SUNBRIDGE/CYRILS DR WIDENING TO ABSHER/ROAD WIDENING\17042-04208-CD&M-UPP

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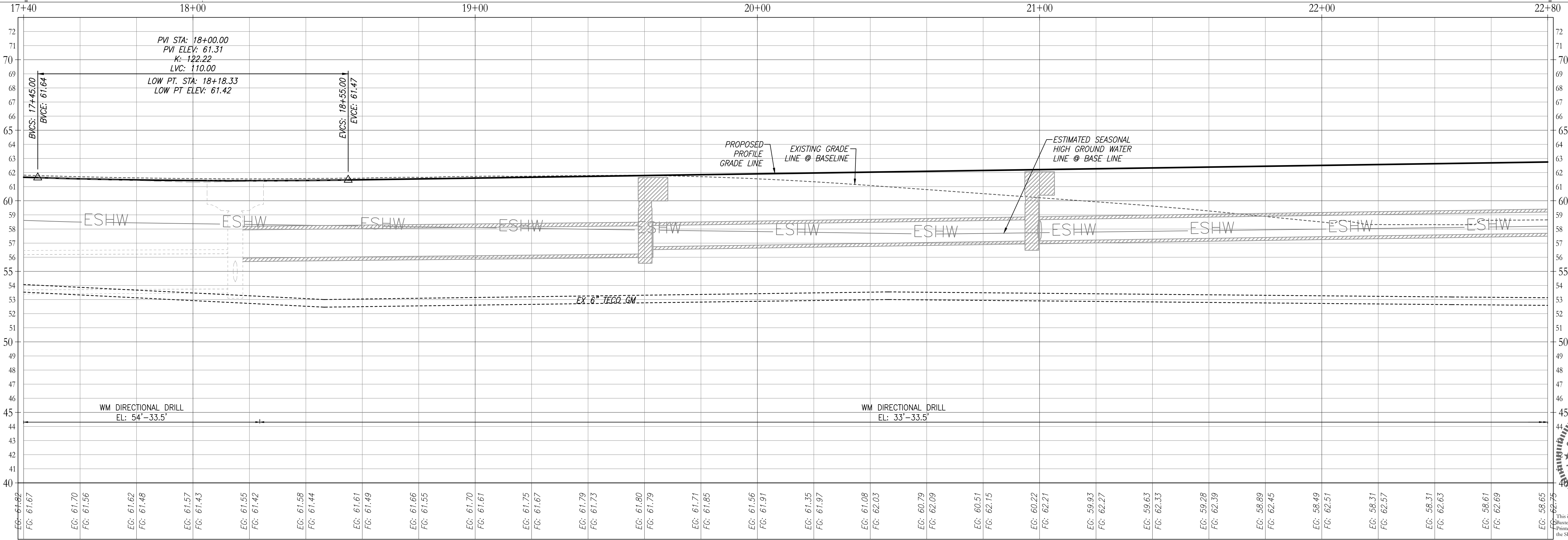


Match Line - Sta. 17+40



Match Line - Sta. 22+80

NOTES:
SEE RECLAIMED WATER
PLAN & PROFILES
SHEETS 188-212



Z:\2017\17-042 TAMISTOCK - SUNBRIDGE\CYRILS DR\WARCOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-UPP

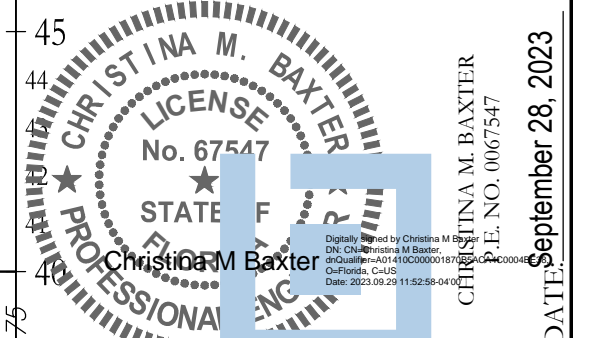
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UTILITY ADJUSTMENT SHEETS

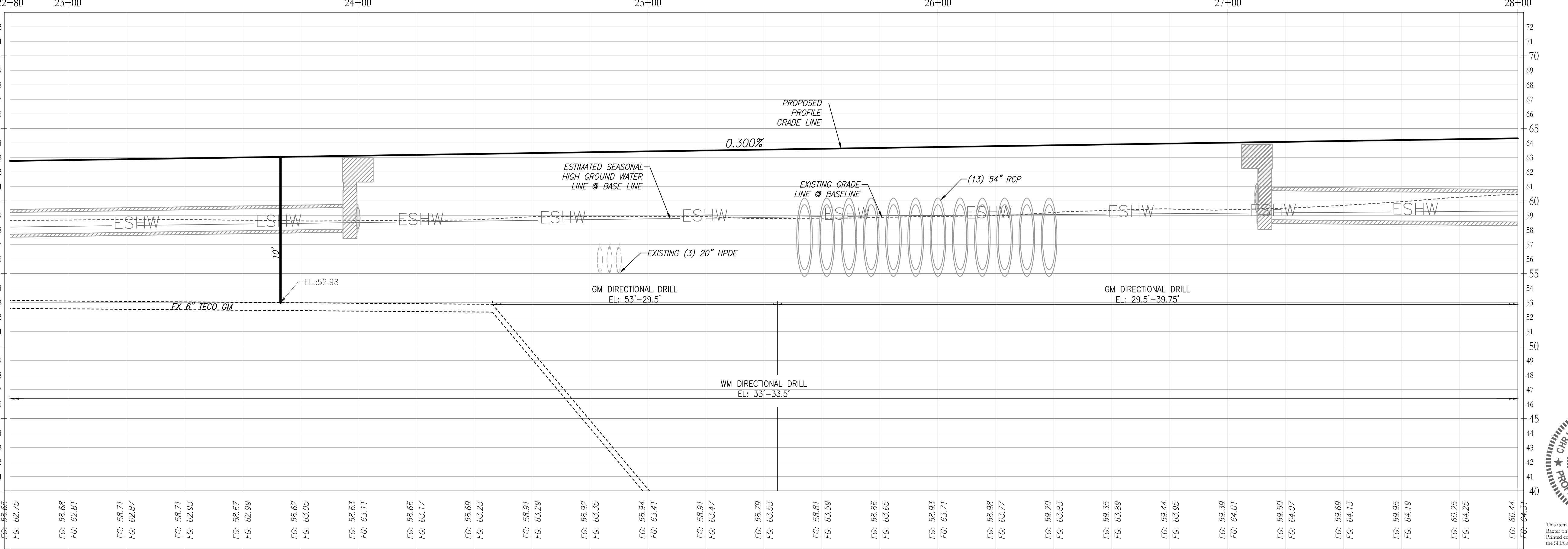
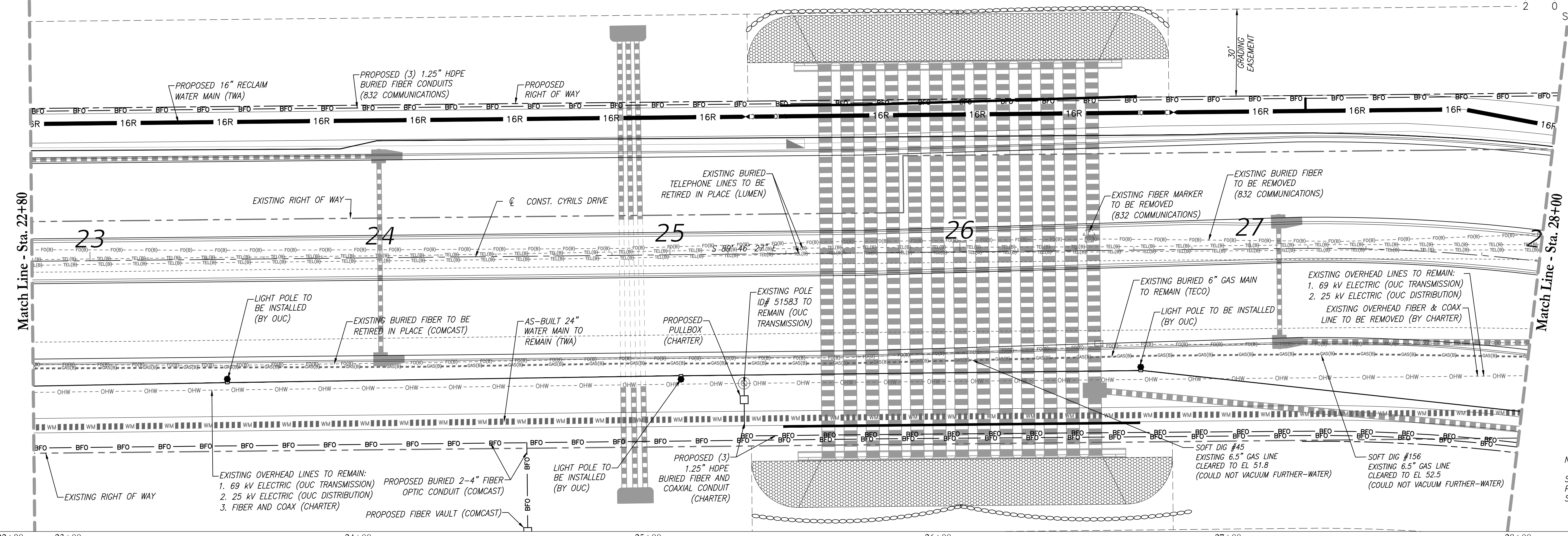
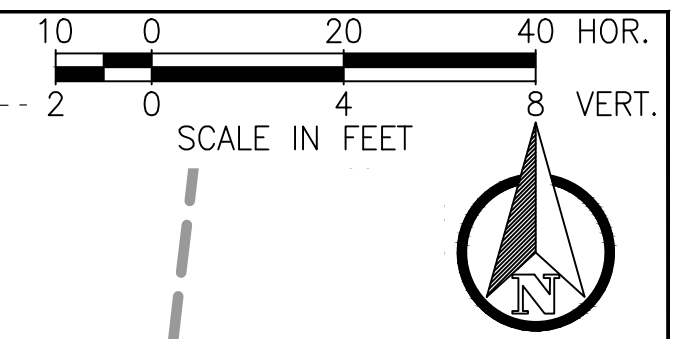
SHEET NO.
152



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NOTES:
SEE RECLAIMED WATER PLAN & PROFILES SHEETS 188-212

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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
UTILITY ADJUSTMENT SHEETS

SHEET NO.
153



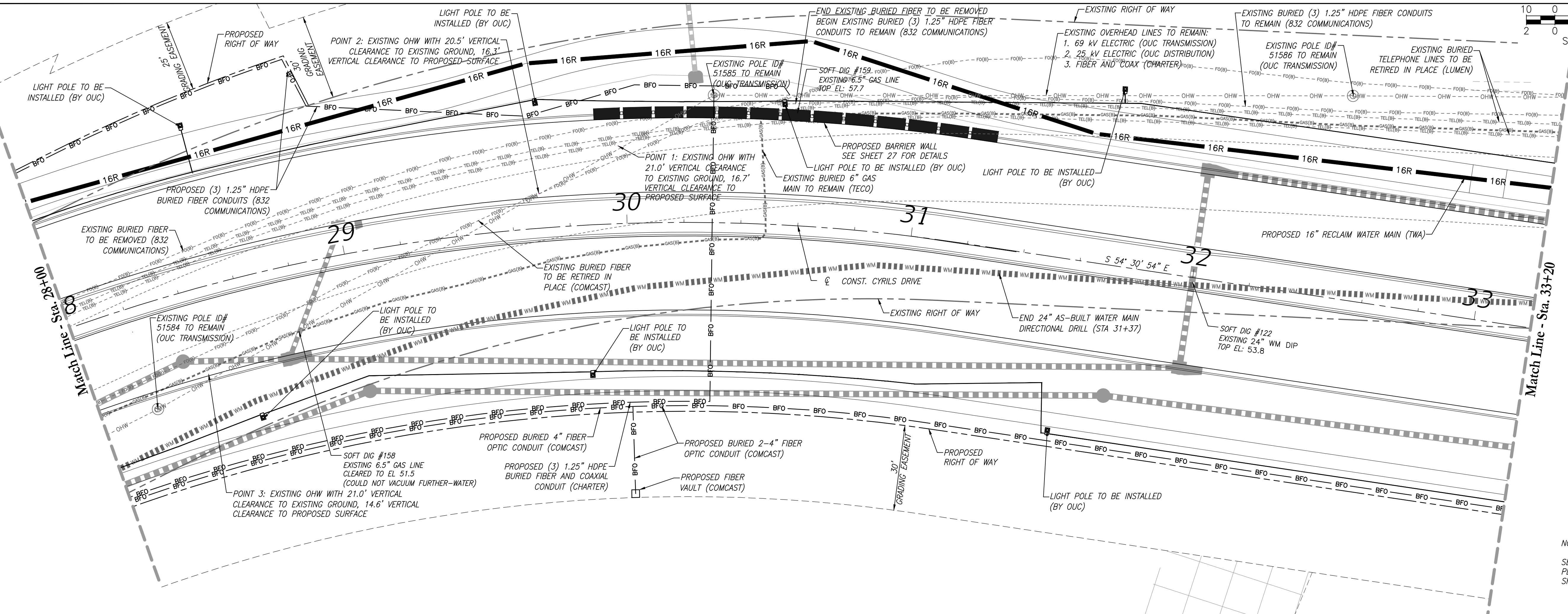
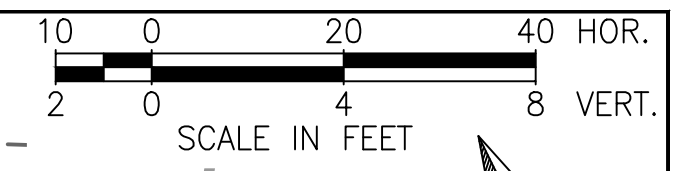
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Z:\2017\17-042 TAMISTOCK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-0203-CD&M-UPP

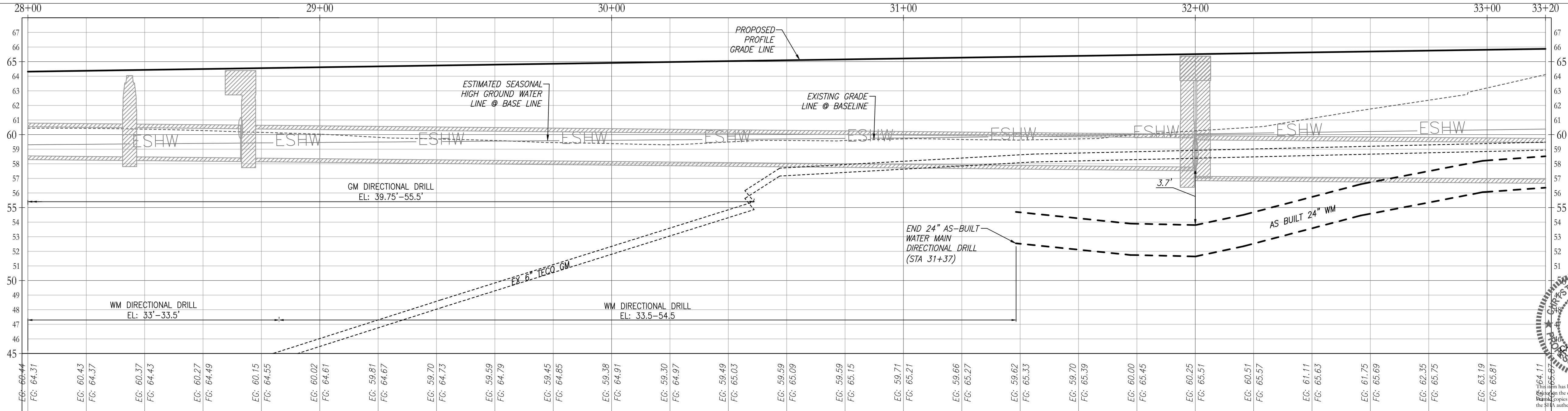
Osceola County
Community Development

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NOTES:
SEE RECLAIMED WATER
PLAN & PROFILES
SHEETS 188-212



CHRISTINA M. BAXTER
LICENSE
No. 67547
STATE OF FLORIDA
PROFESSIONAL ENGINEER
September 28, 2023

Z:\2017\17-042 TAMISDCK - SUNBRIDGE\CYRILS DR\WARCOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-UPP

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OSCEOLA COUNTY
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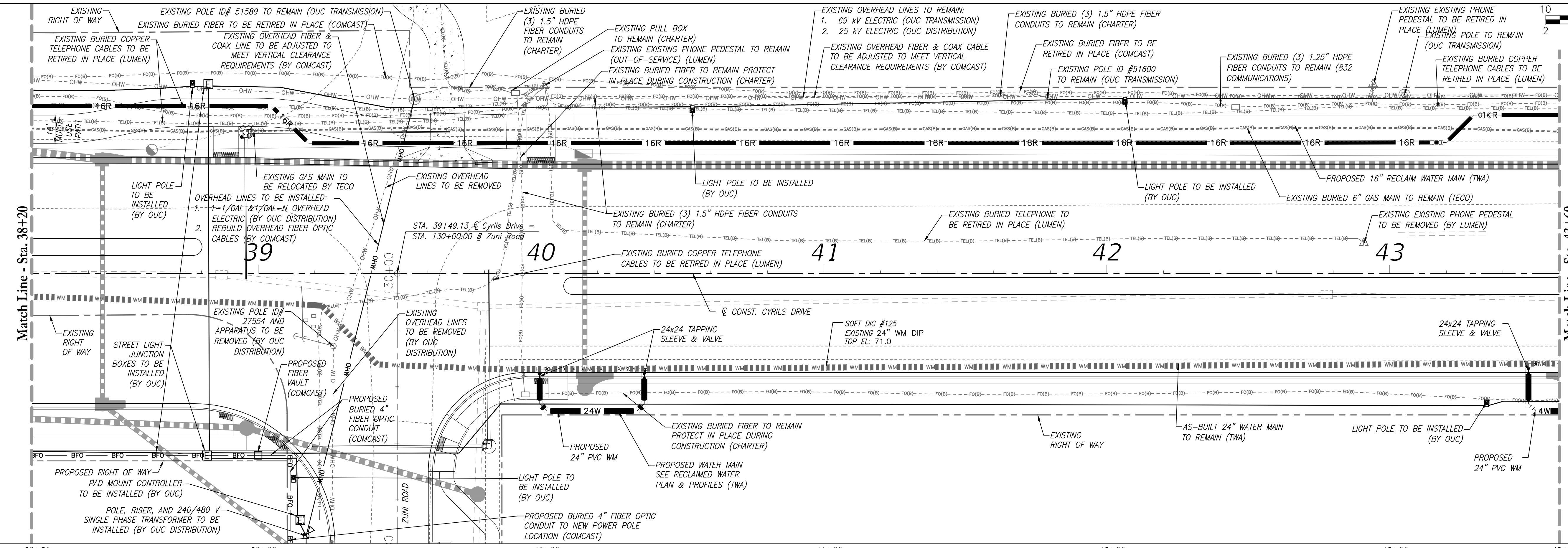
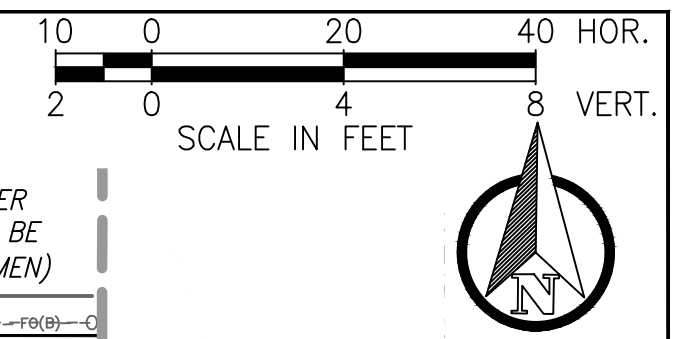
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
UTILITY ADJUSTMENT SHEETS

SHEET NO.
154

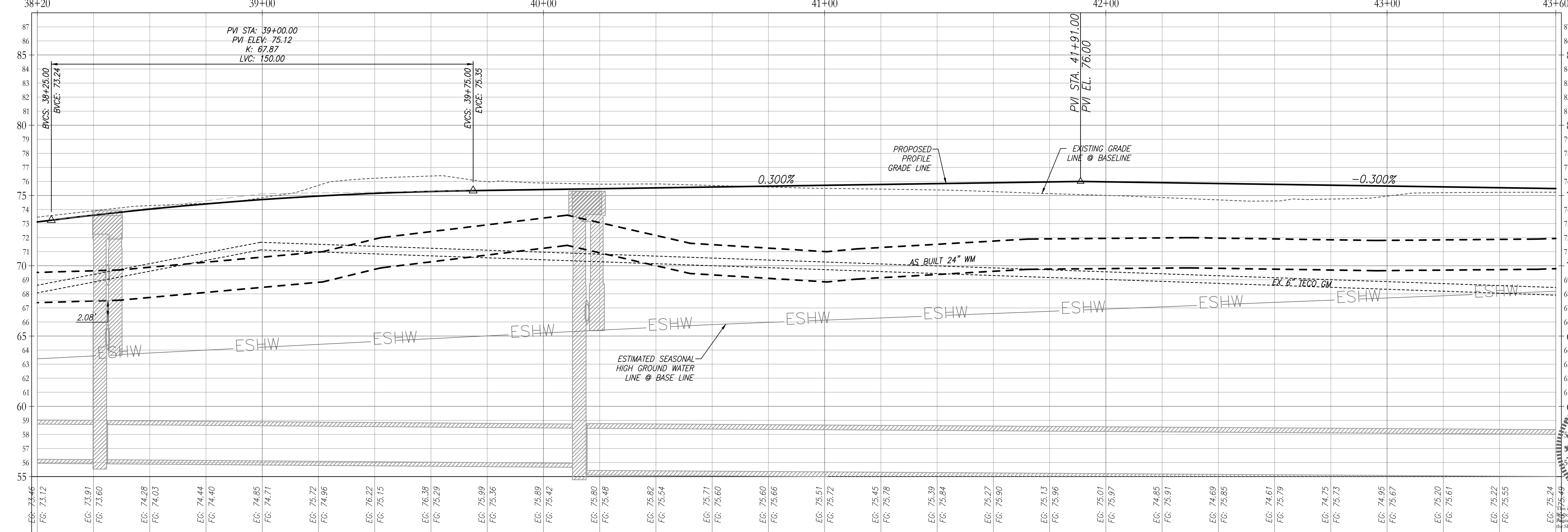
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NOTES:
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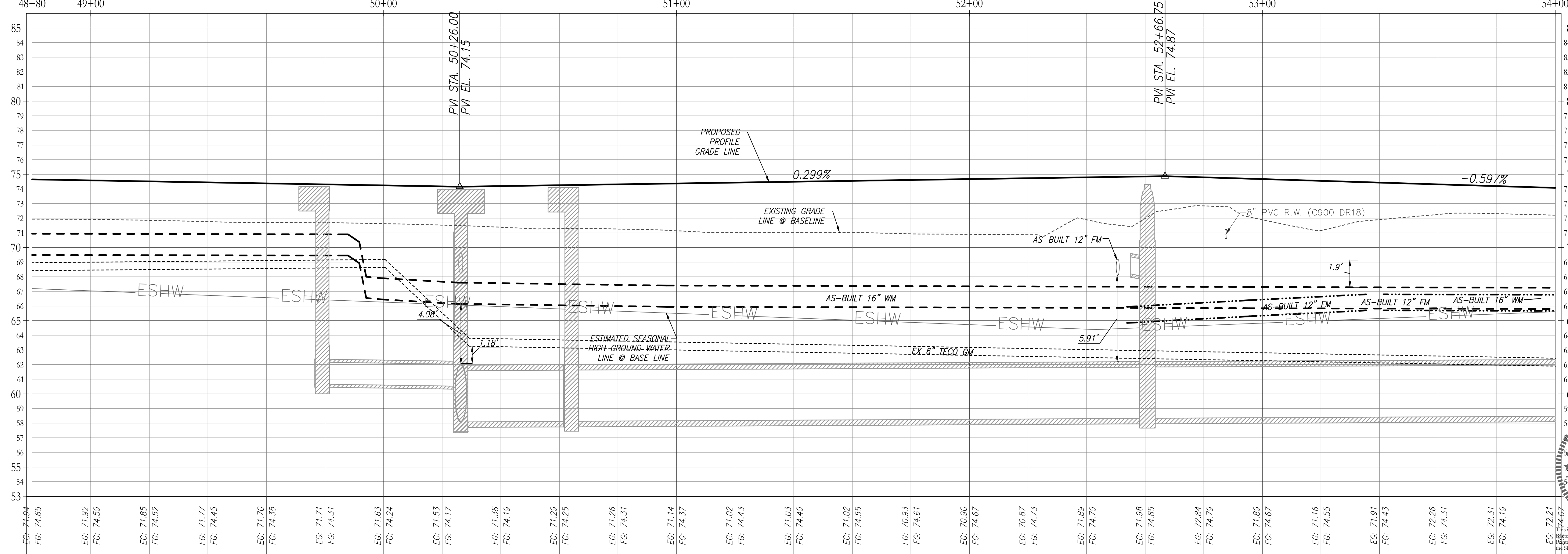
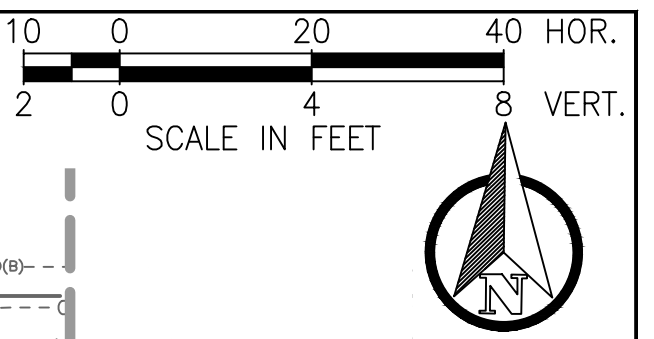
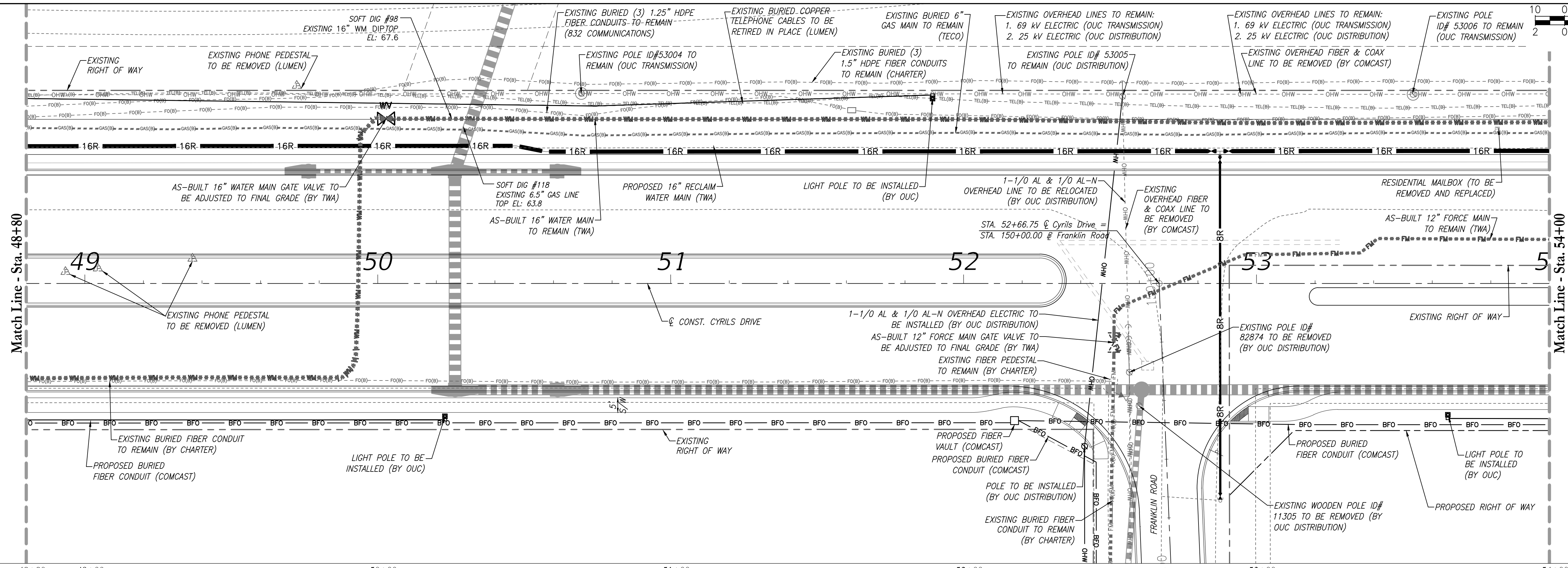
CYRILS DRIVE / NARCOOSSEE ROAD TO
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UTILITY ADJUSTMENT SHEETS

SHEET NO.
156

Osceola County
Community Development

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NOTES:
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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
UTILITY ADJUSTMENT SHEETS

SHEET NO.
158

CHRISTINA M. BAXTER
LICENSE No. 67547
STATE OF FLORIDA
PROFESSIONAL ENGINEER

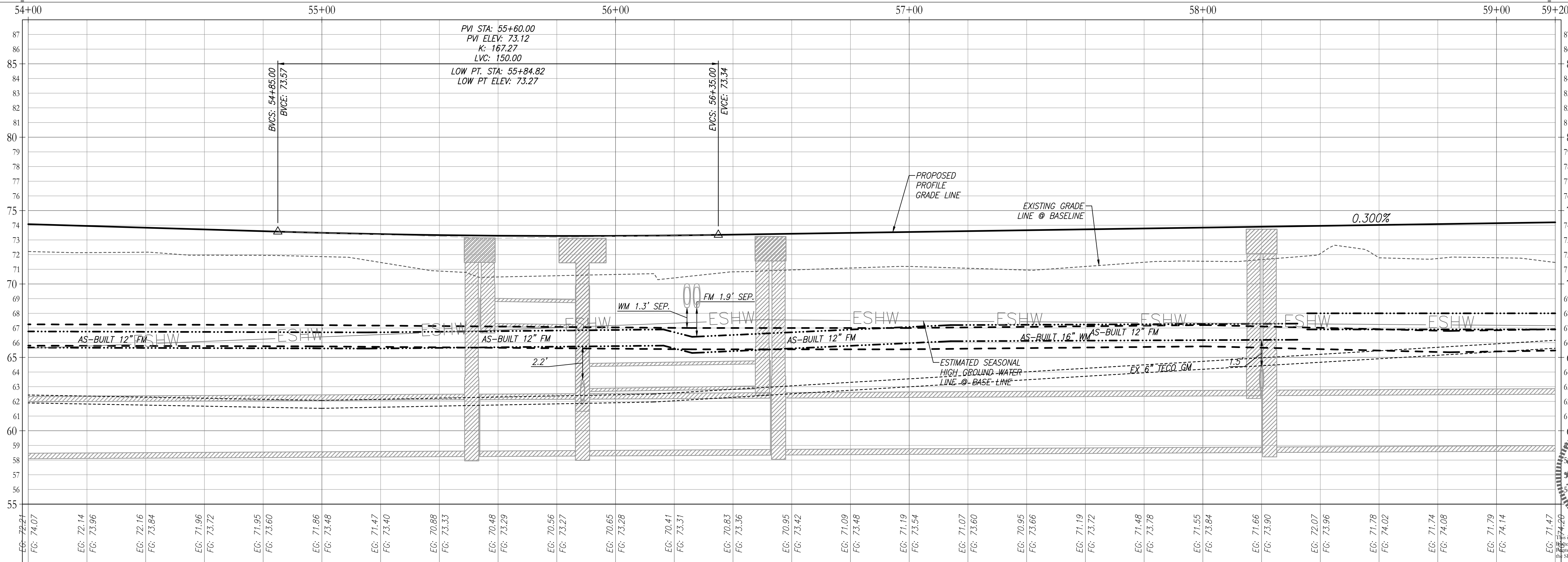
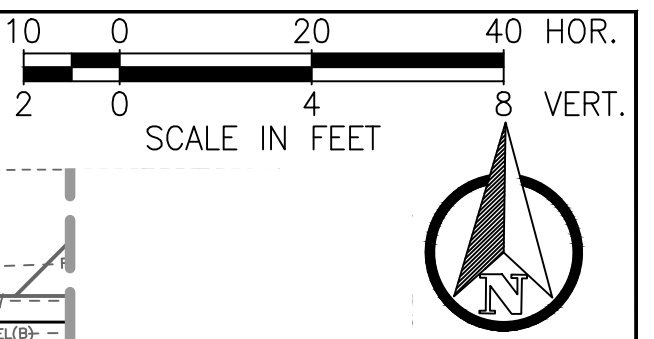
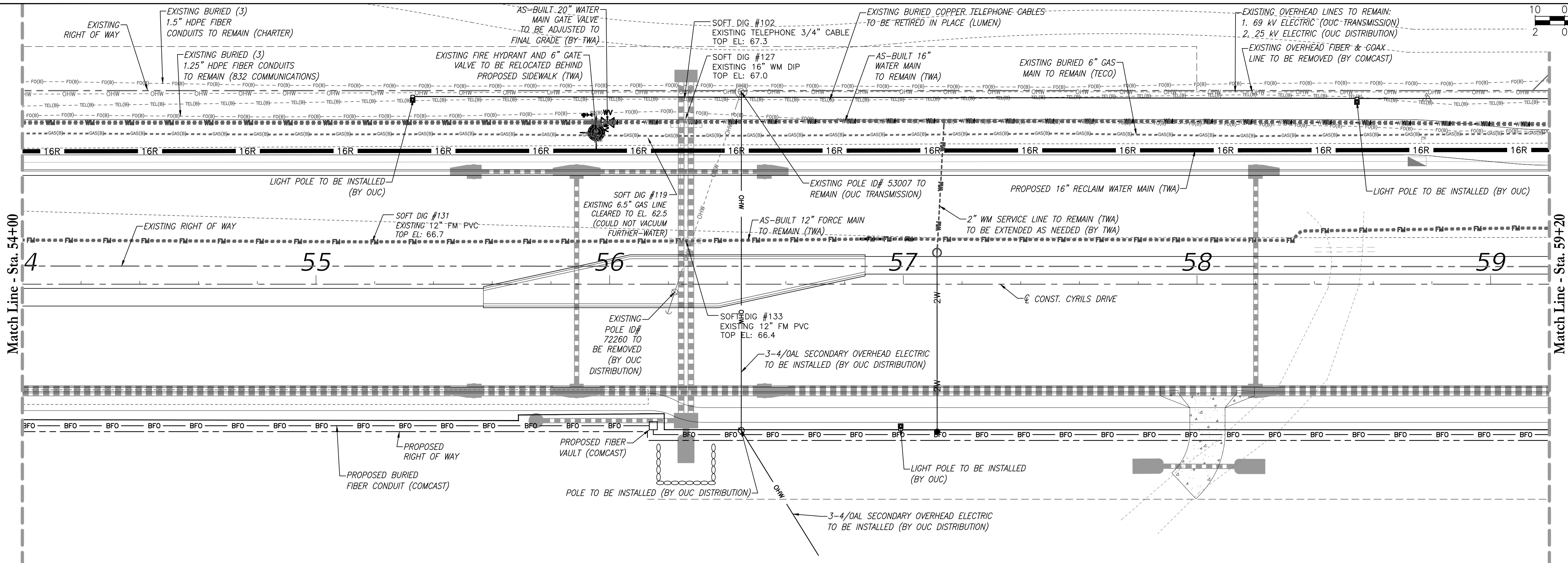
September 28, 2023

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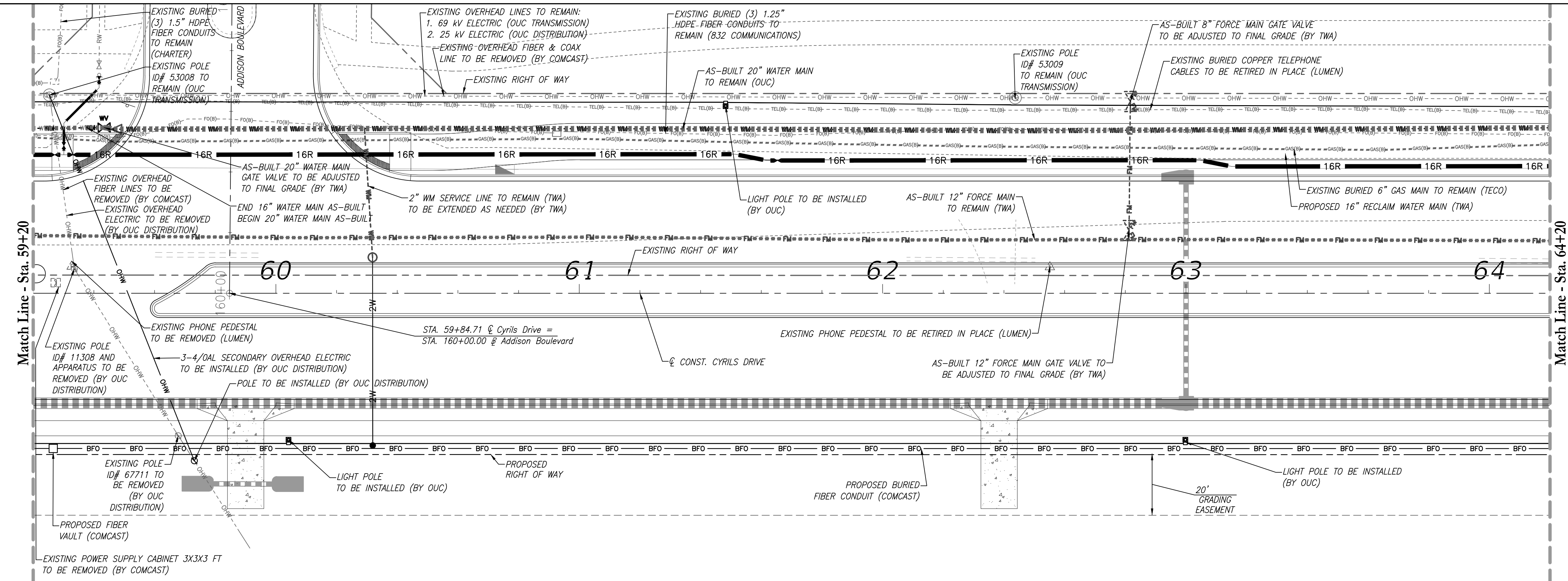
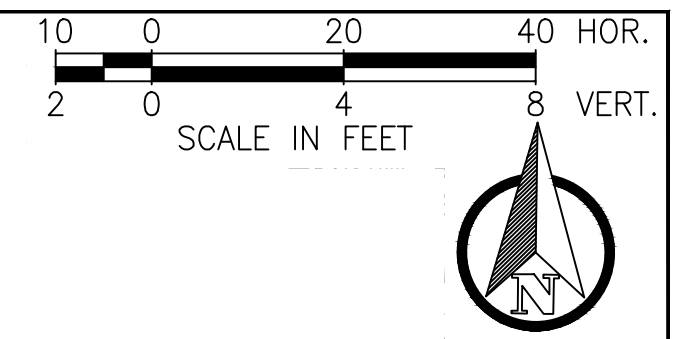
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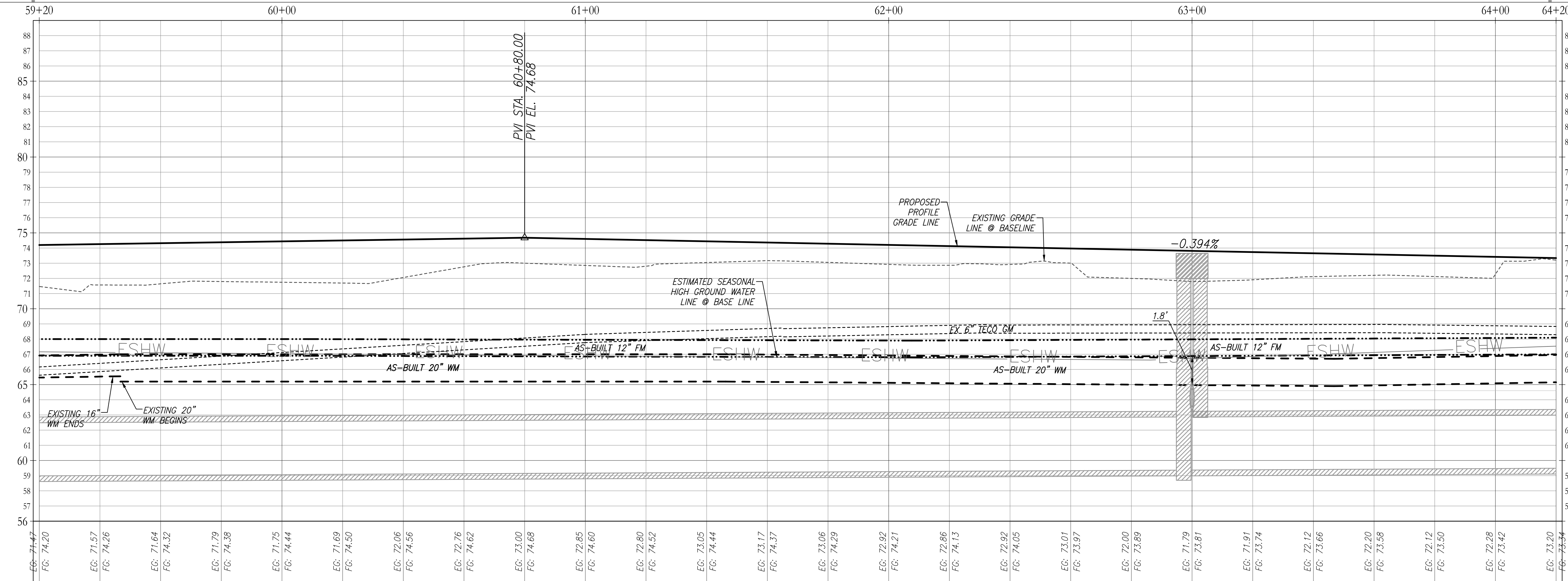
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Z:\2017\17-042 TAMISTOCK - SUNBRIER\CYRILS DR\WARCOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-16208-CD&M-UPP

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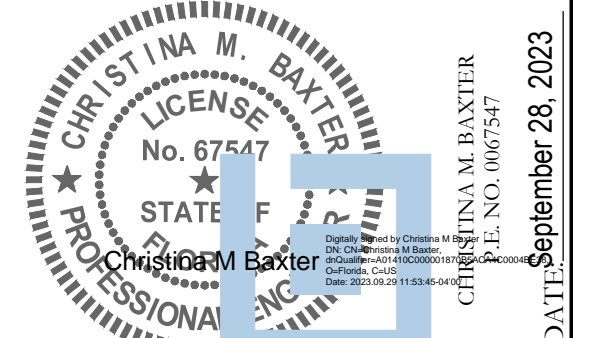
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CYRILS DRIVE / NARCOOSSEE ROAD TO
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UTILITY ADJUSTMENT SHEETS

SHEET NO.
160

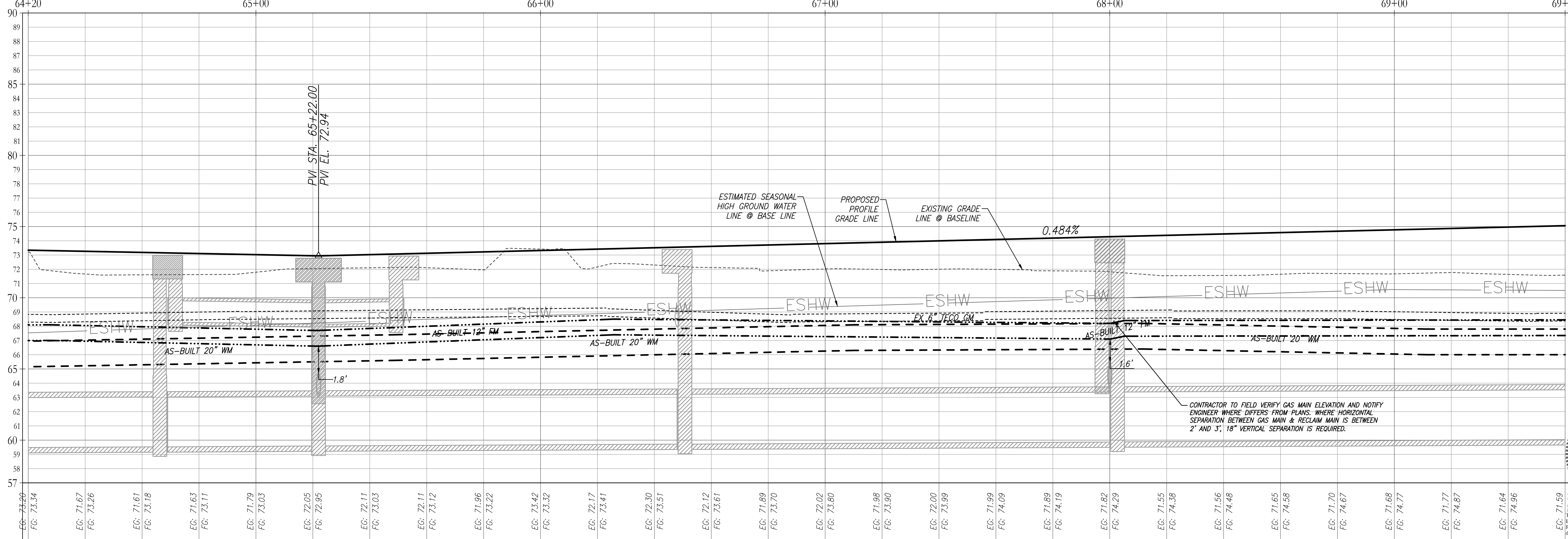
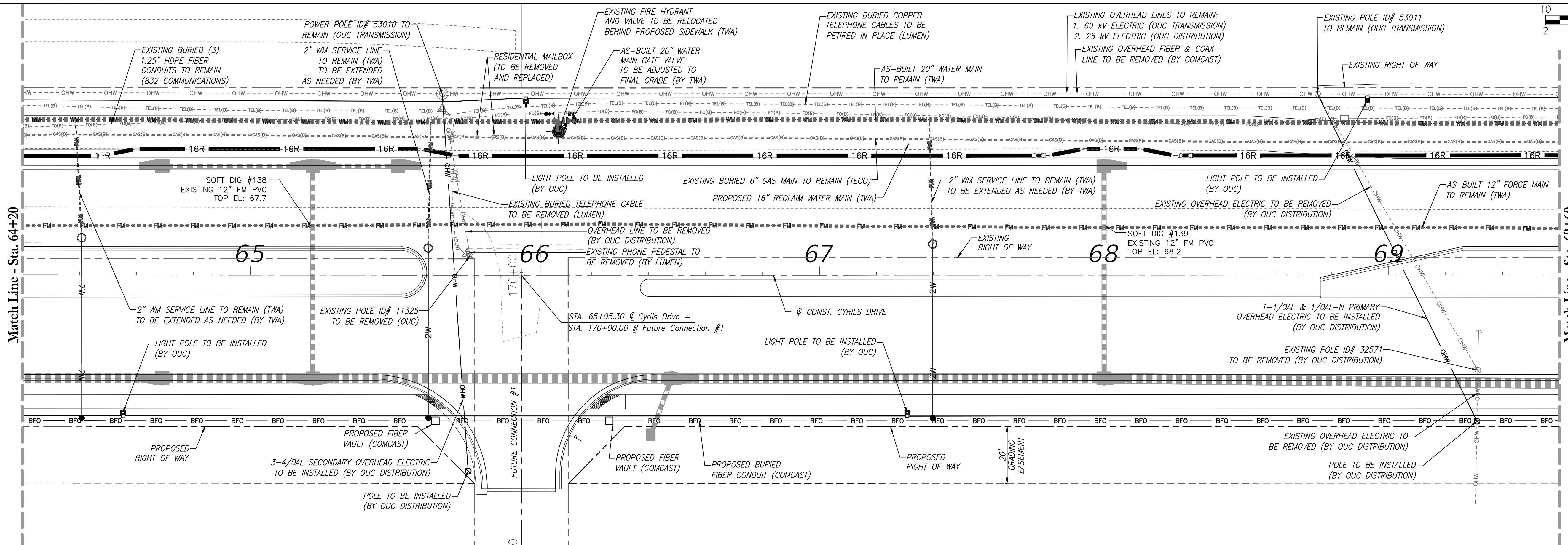
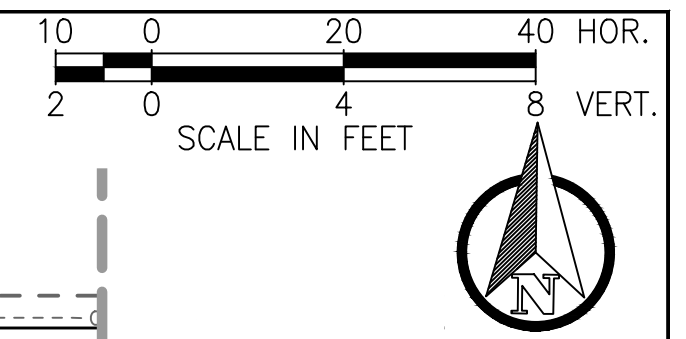


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Osceola County
Community Development

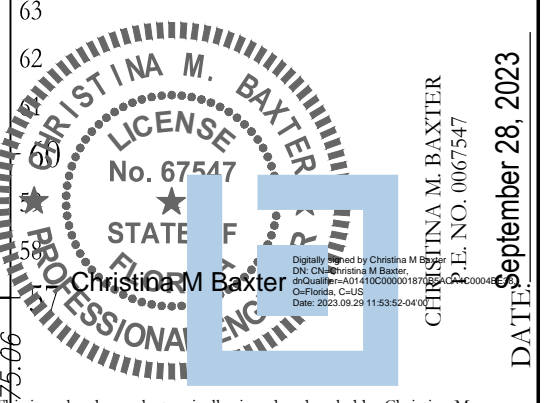
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EG: 71.59			
FG: 75.06			

NOTES:
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PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
UTILITY ADJUSTMENT SHEETS

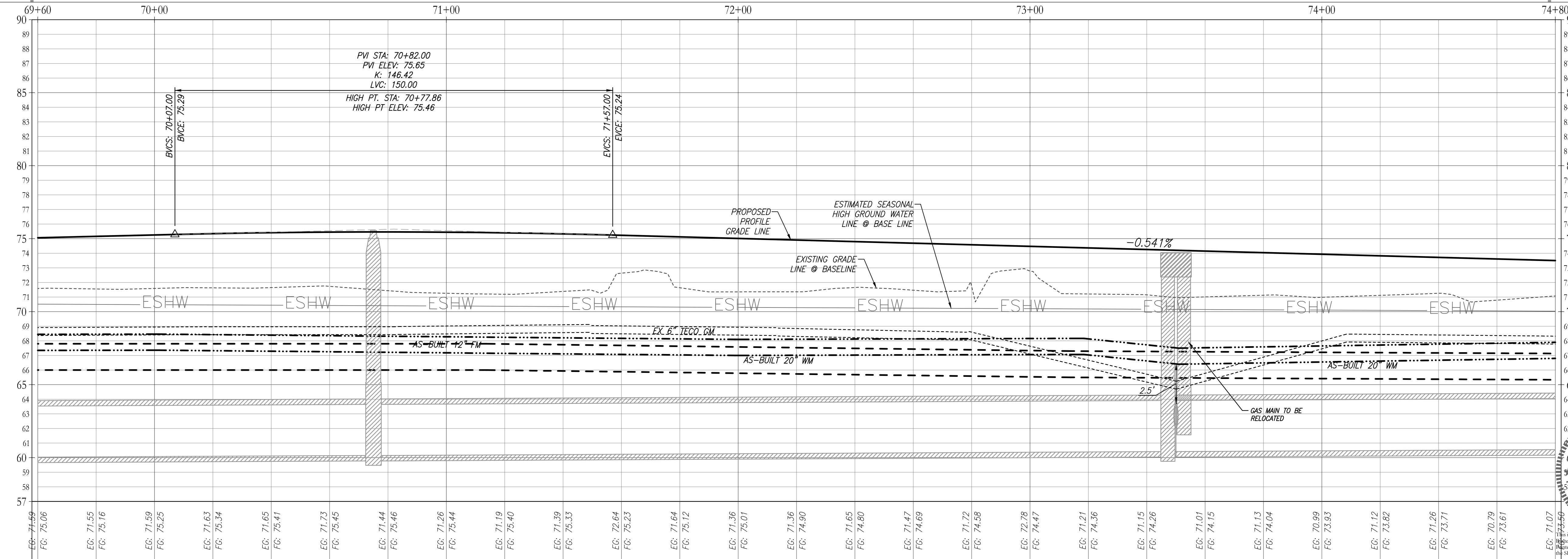
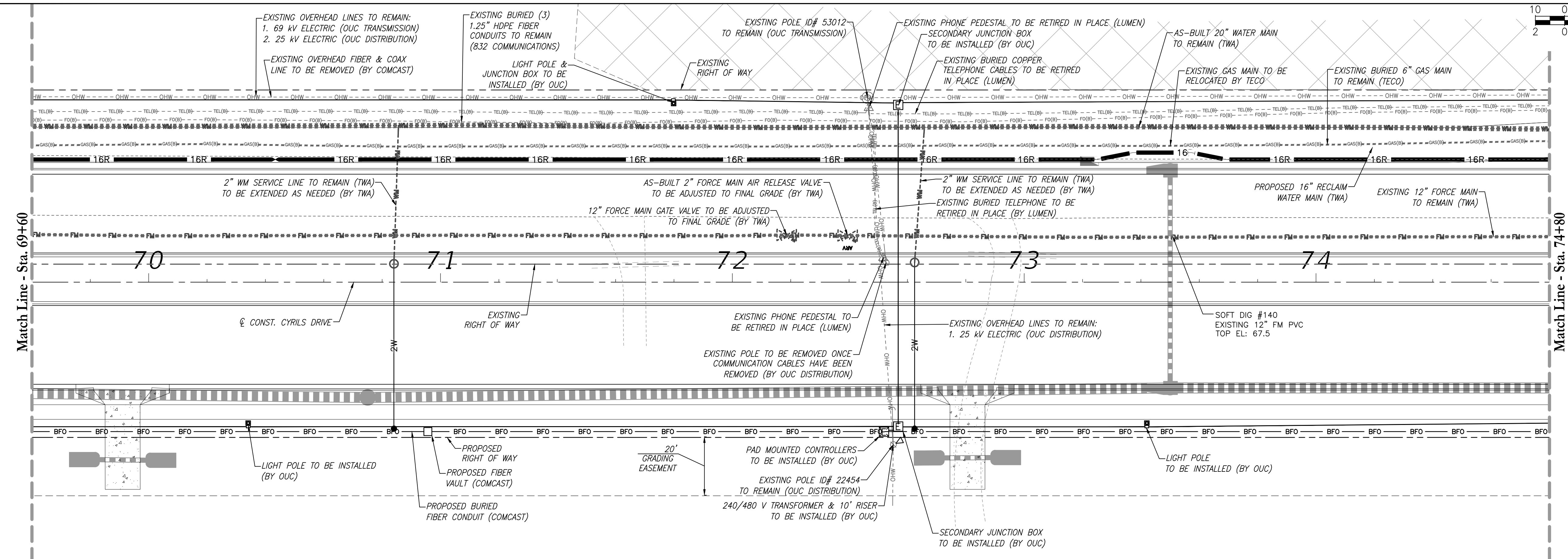
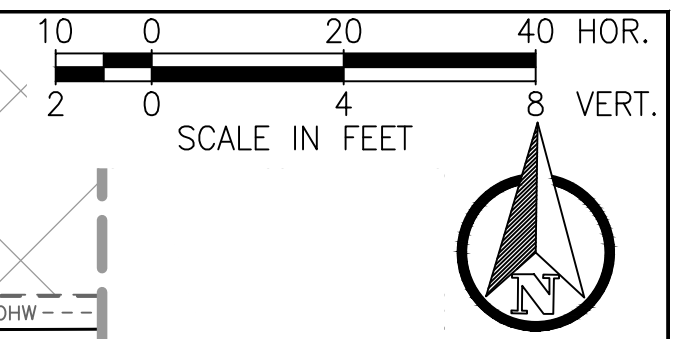
SHEET NO.
161

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Osceola County
Community Development

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NOTES:
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CYRILS DRIVE / NARCOOSSEE ROAD TO
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UTILITY ADJUSTMENT SHEETS

SHEET NO.
162

CHRISTINA M. BAXTER
LICENSE No. 67547
STATE OF FLORIDA
PROFESSIONAL ENGINEER
September 28, 2023

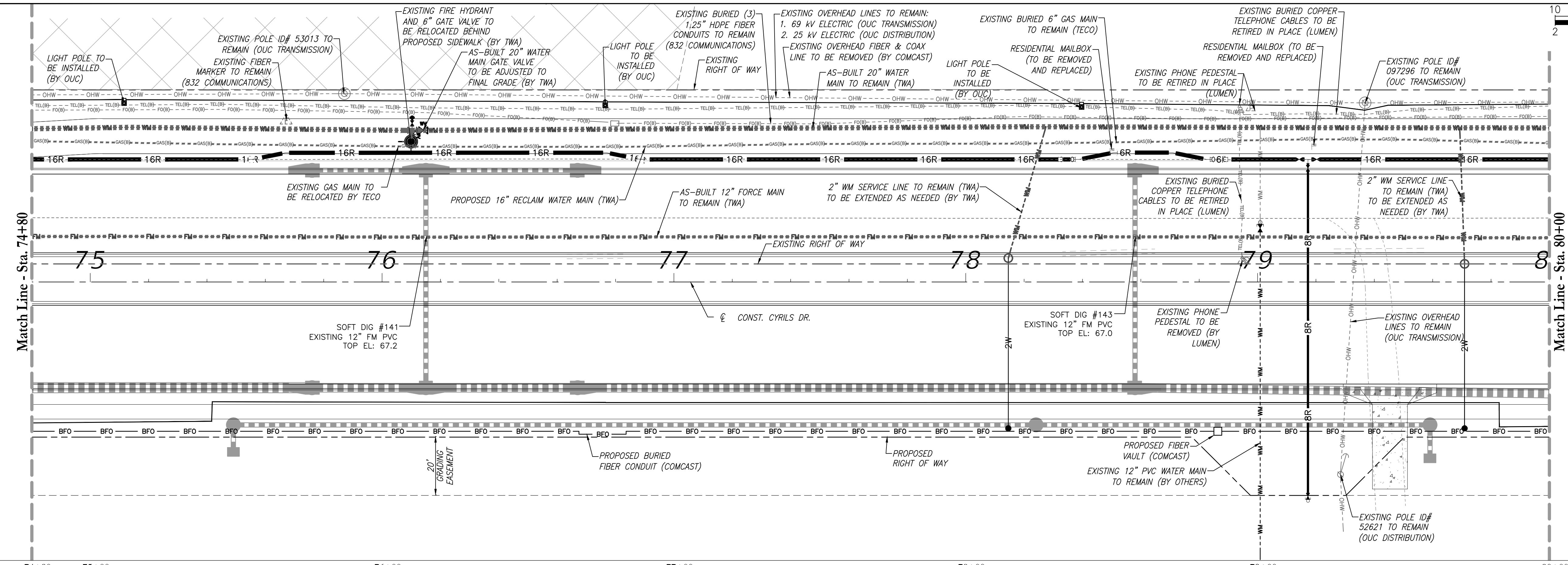
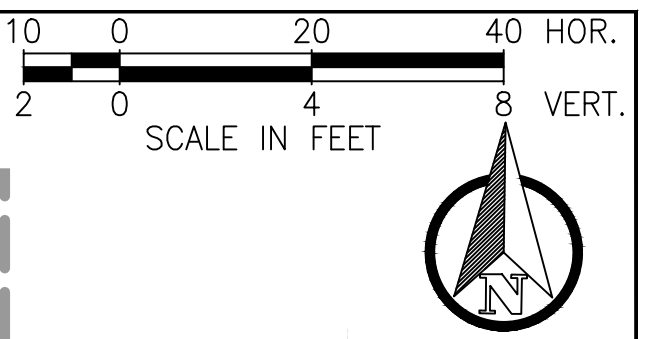
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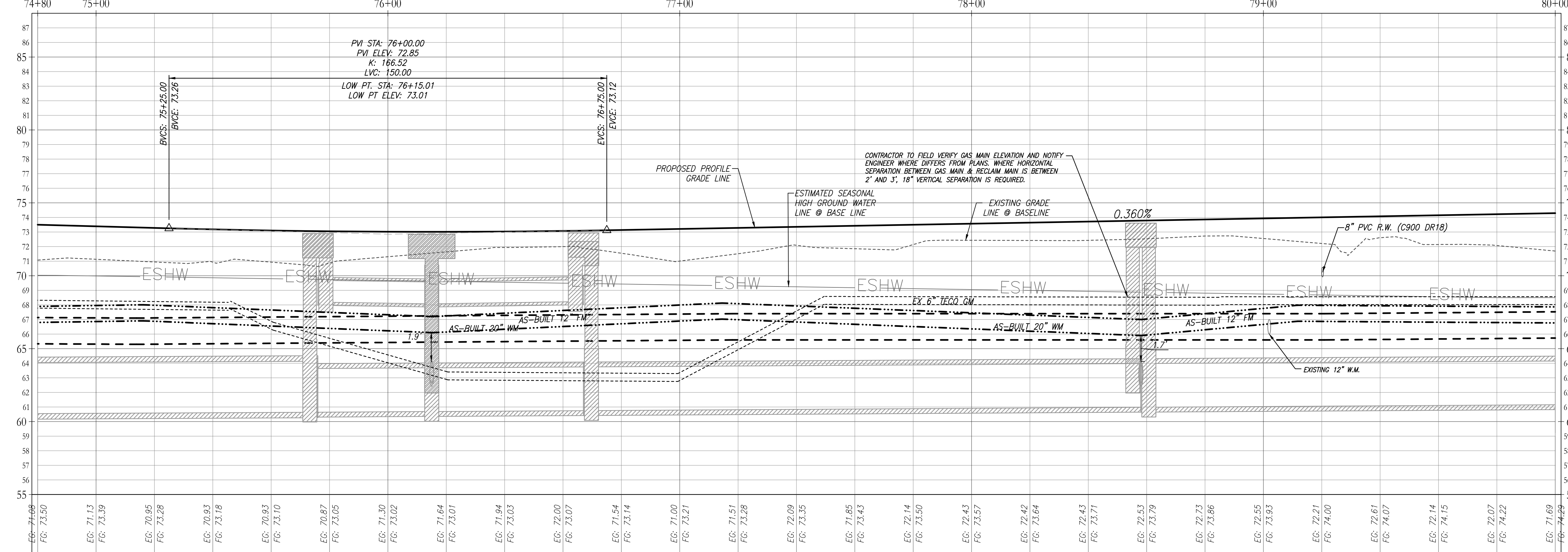
Osceola County
Community Development

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CONTRACTOR TO FIELD VERIFY GAS MAIN ELEVATION AND NOTIFY ENGINEER WHERE DIFFERS FROM PLANS. WHERE HORIZONTAL SEPARATION BETWEEN GAS MAIN & RECLAIM MAIN IS BETWEEN 2' AND 3', 18\"/>

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CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
UTILITY ADJUSTMENT SHEETS

SHEET NO.
163

CHRISTINA M. BAXTER
LICENSE No. 67547
STATE OF FLORIDA
PROFESSIONAL ENGINEER

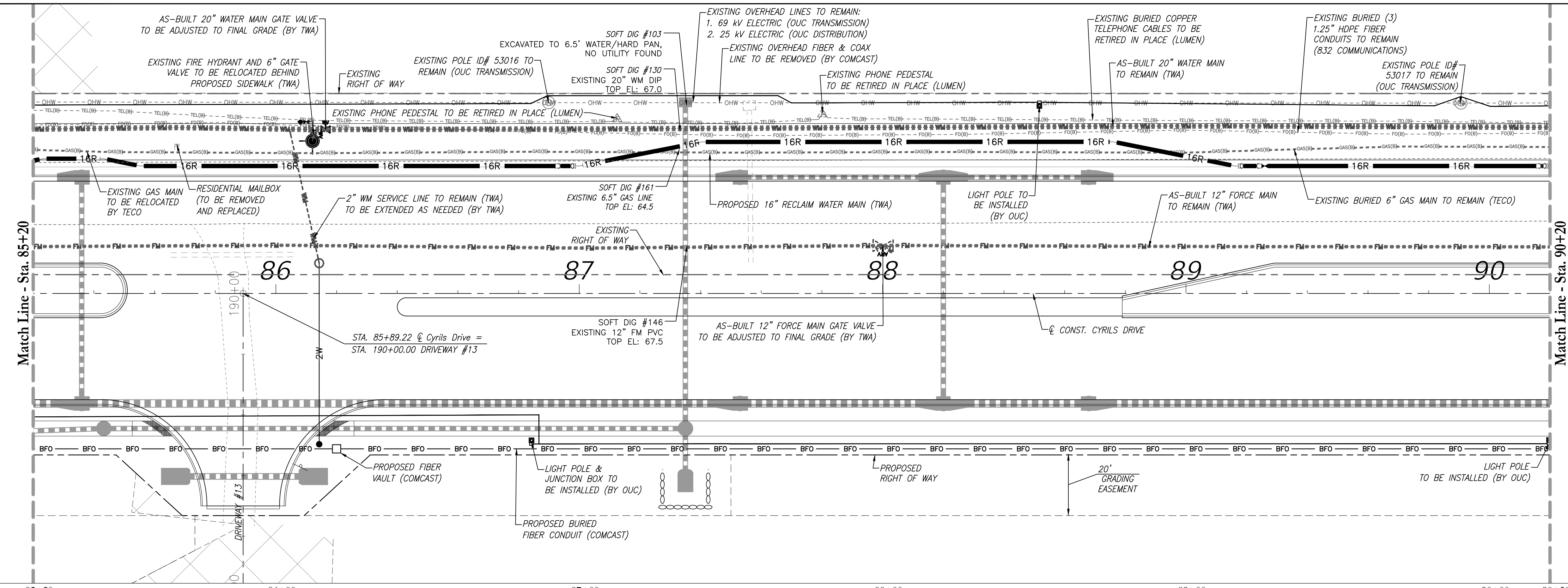
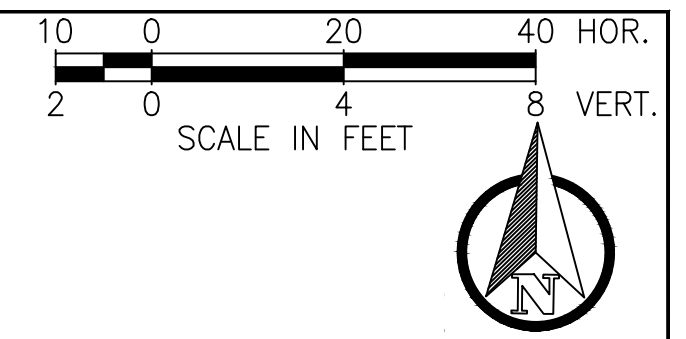
CHRISTINA M. BAXTER
P.E. NO. 0607547
September 28, 2023

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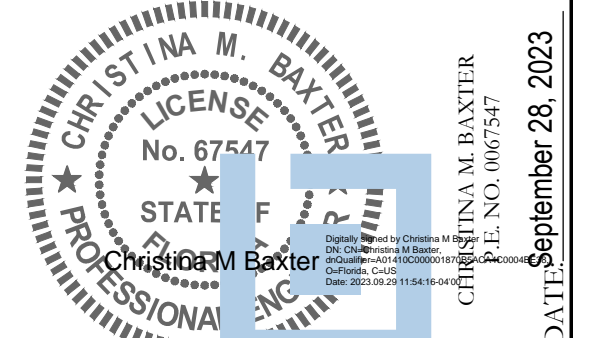
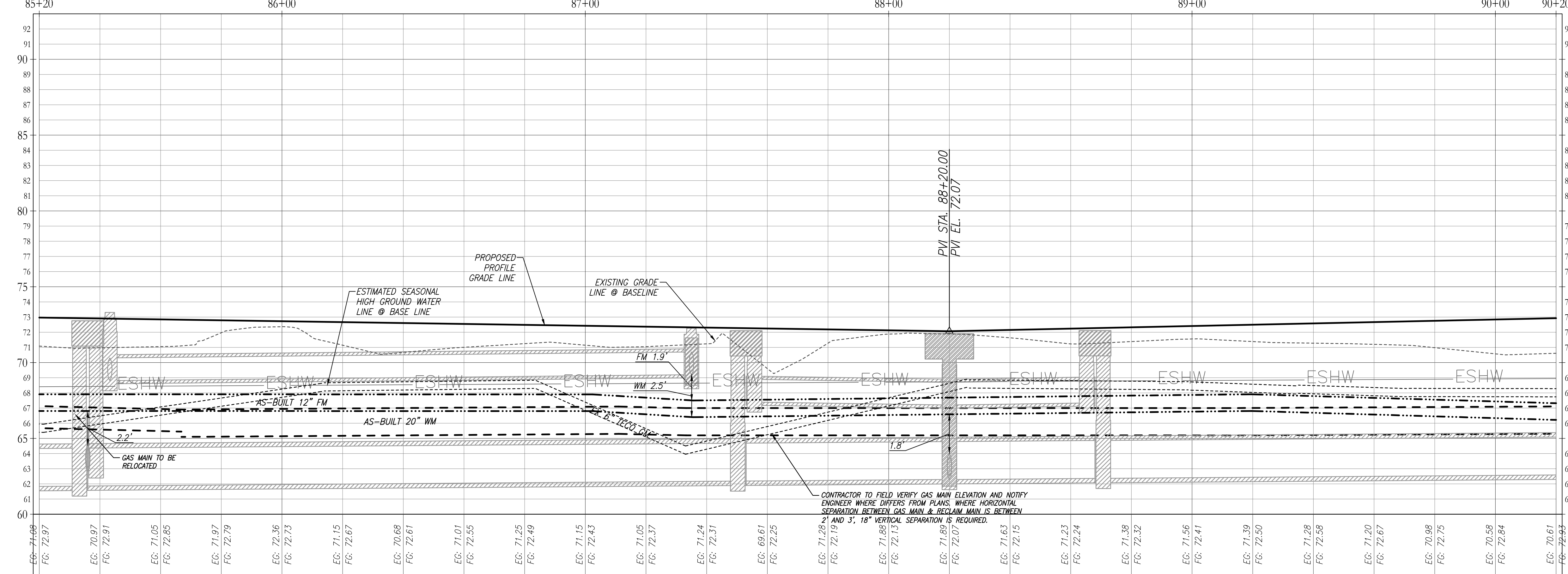
Osceola County
Community Development

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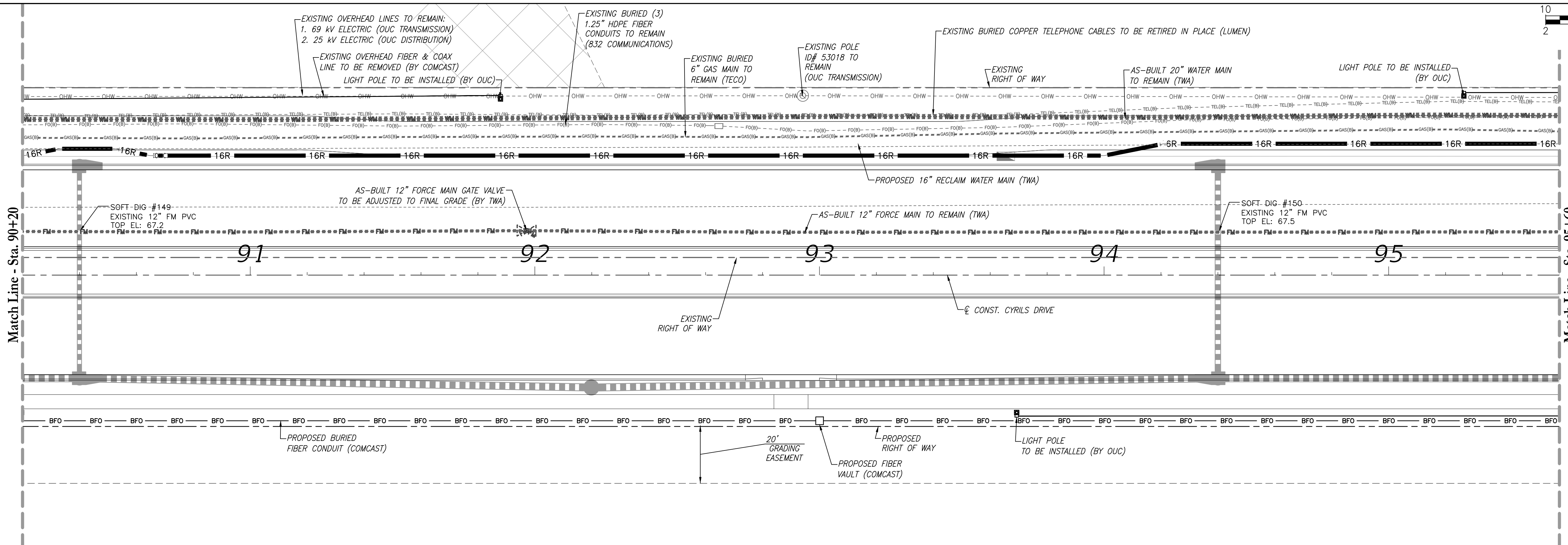
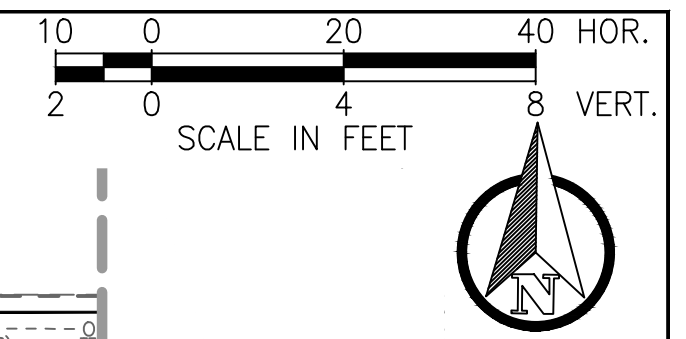
SHEET NO.
165

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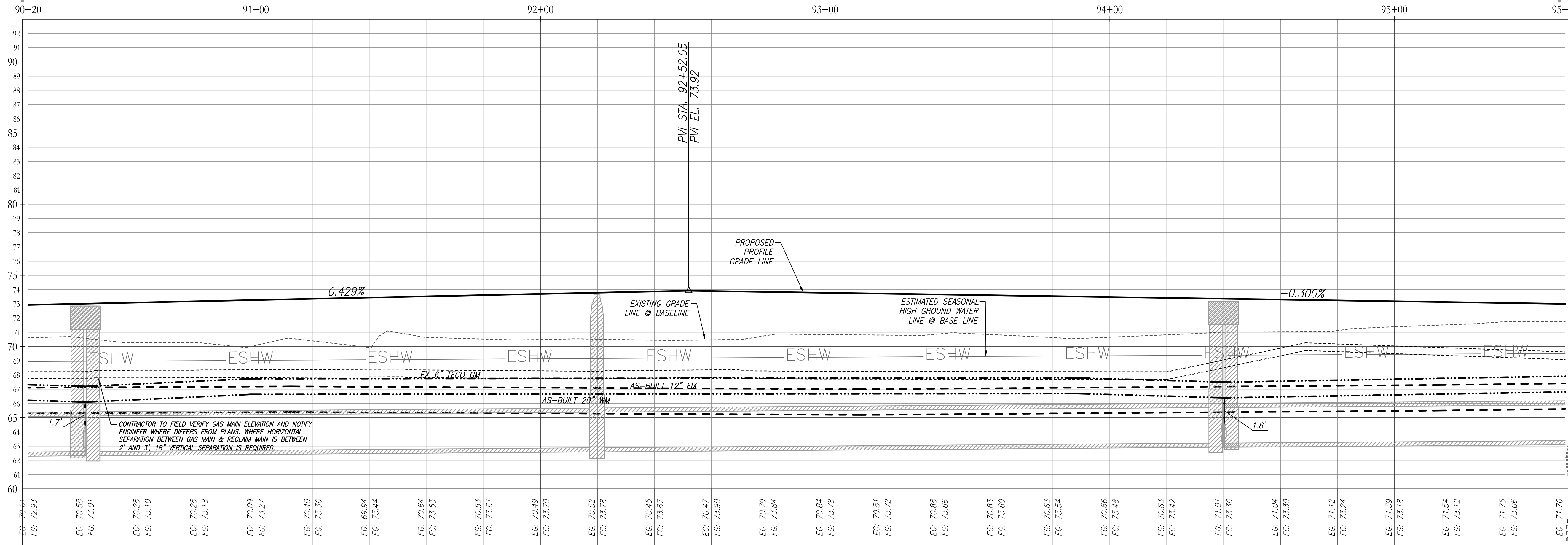
Osceola County
Community Development

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SHEET NO.
166

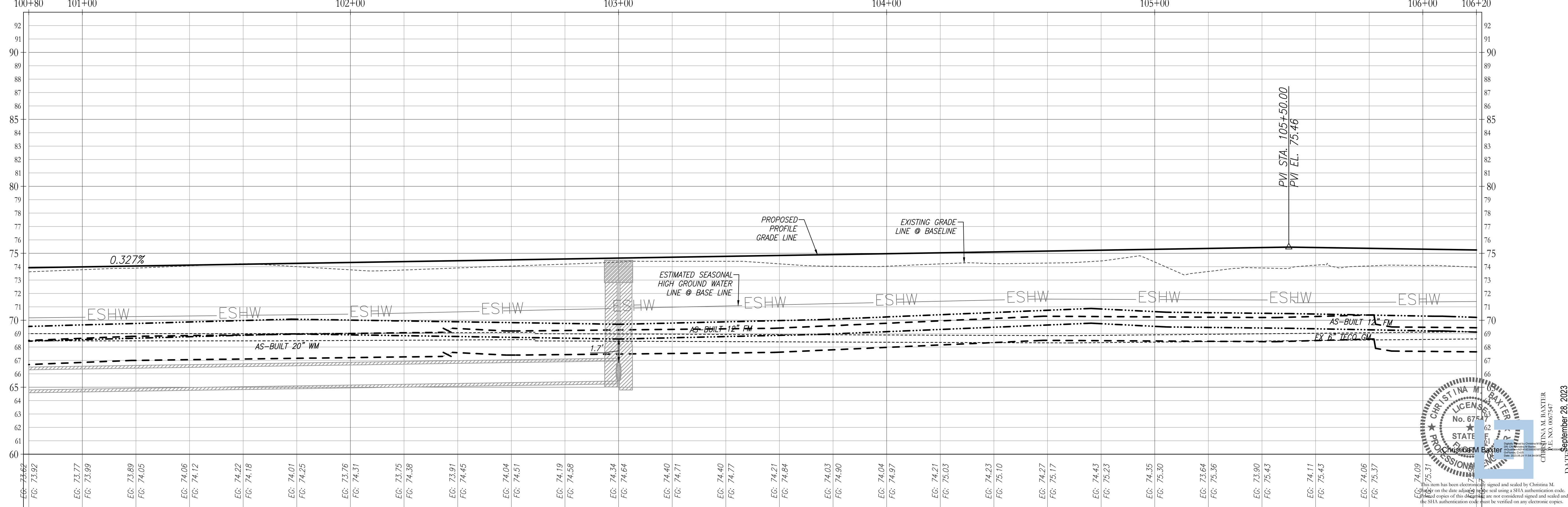
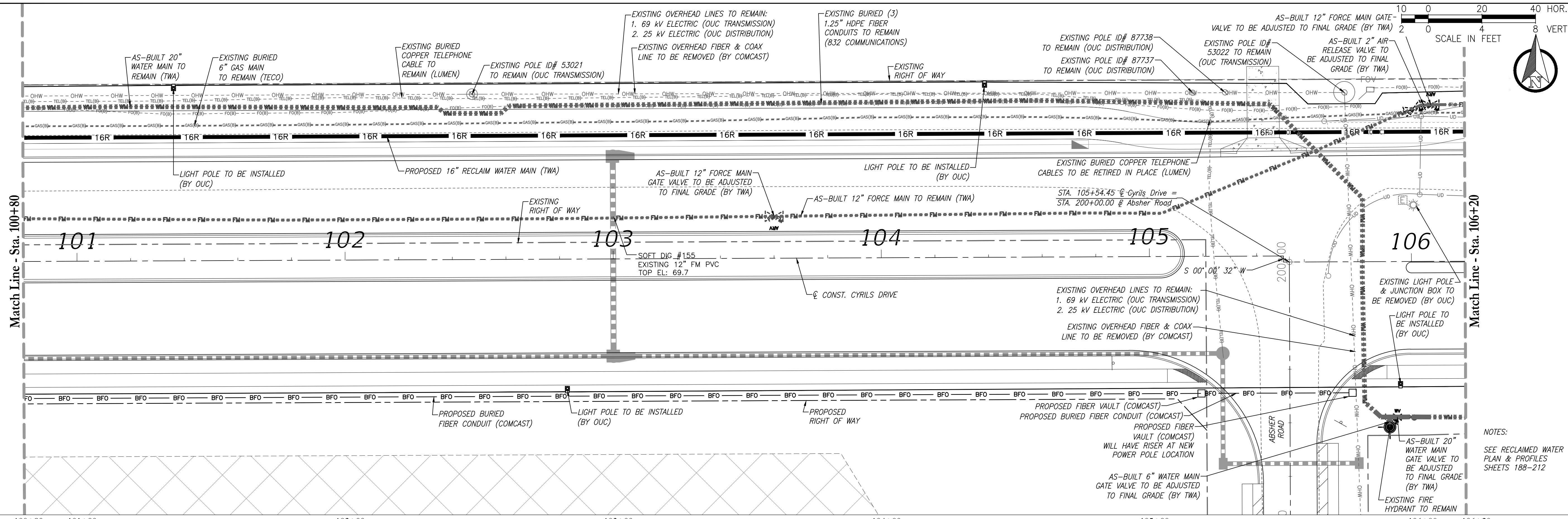


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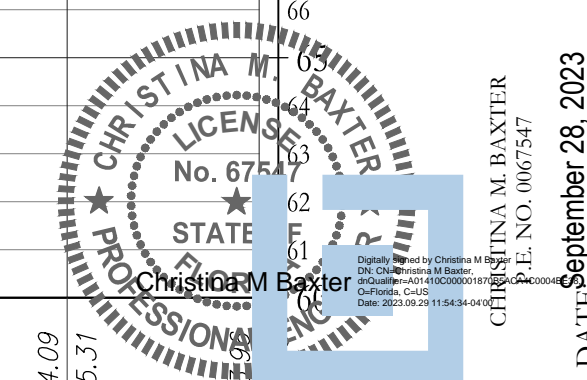
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CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
UTILITY ADJUSTMENT SHEETS

SHEET NO.
168

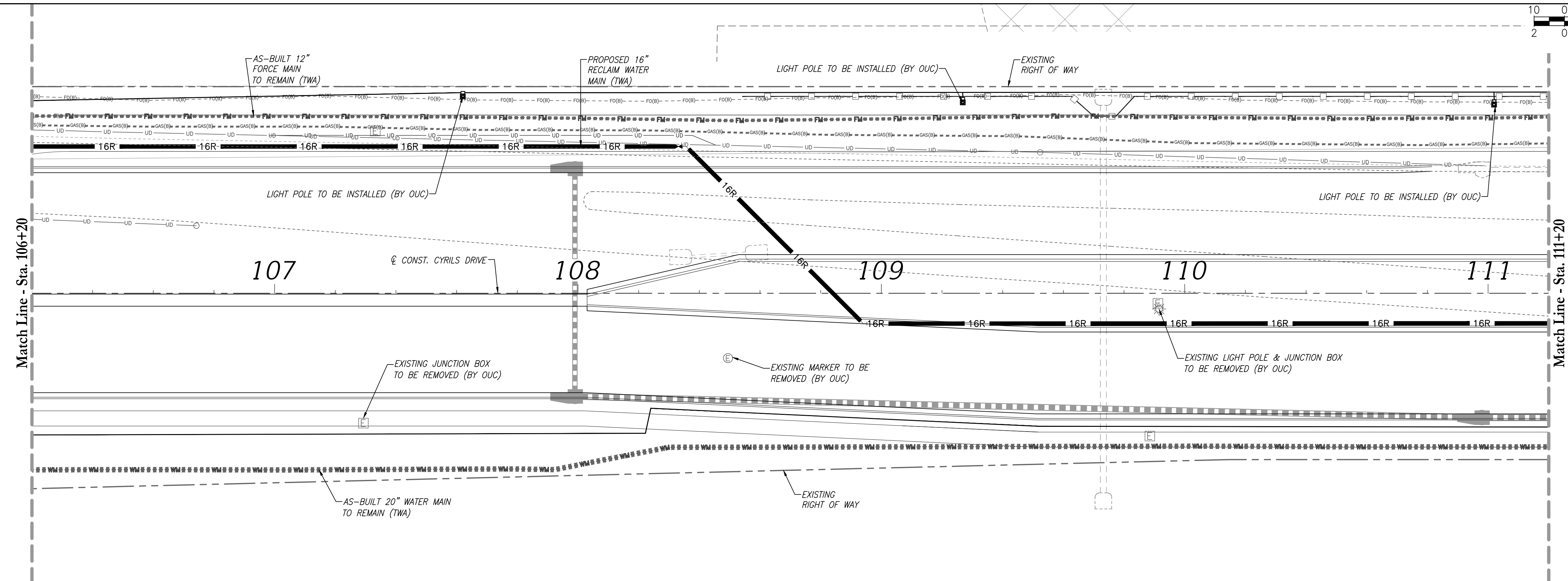
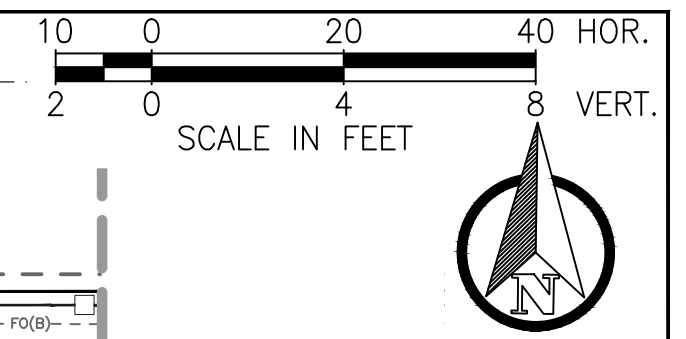


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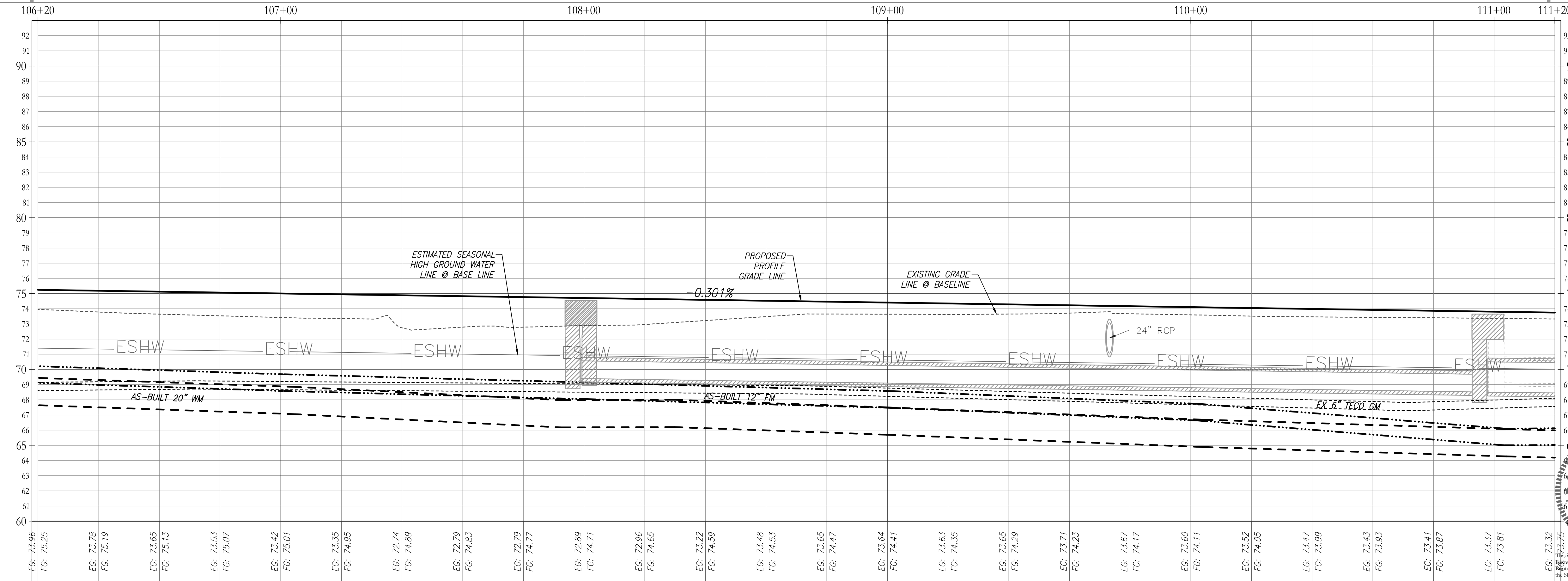
Osceola County
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NOTES:
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SHEETS 188-212



CHRISTINA M. BAXTER
No. 67547
STATE OF FLORIDA
PROFESSIONAL ENGINEER
September 28, 2023

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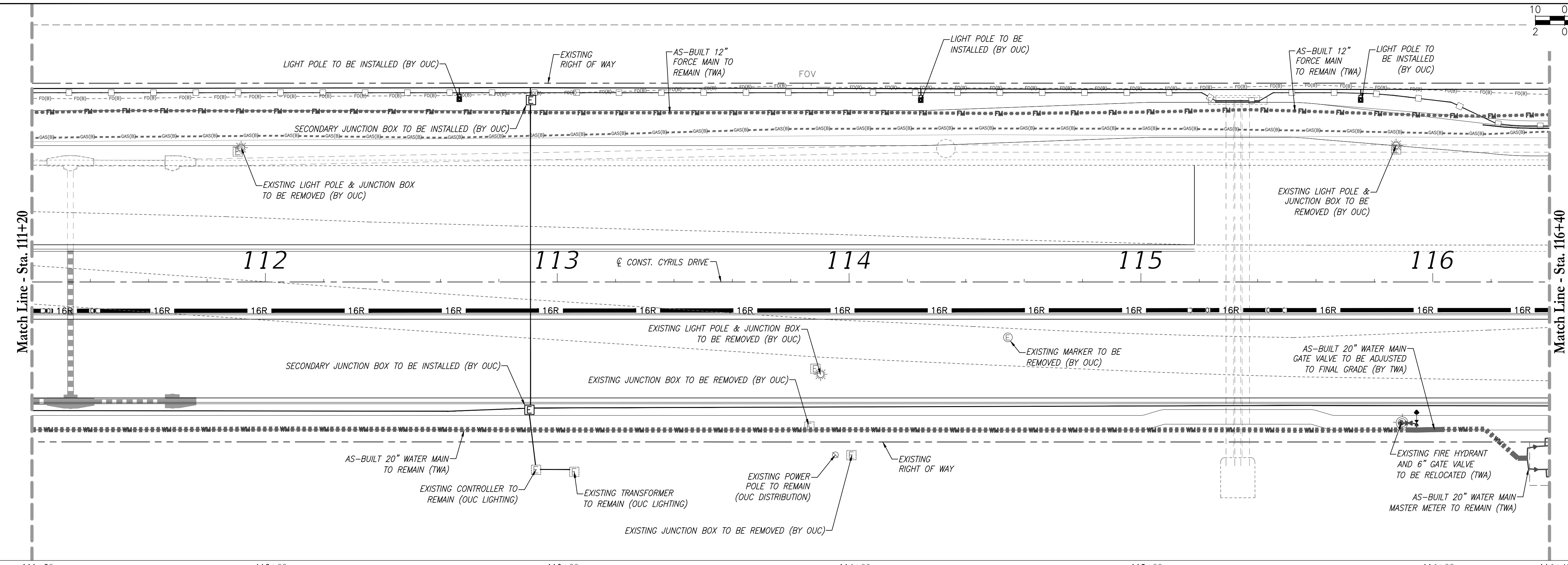
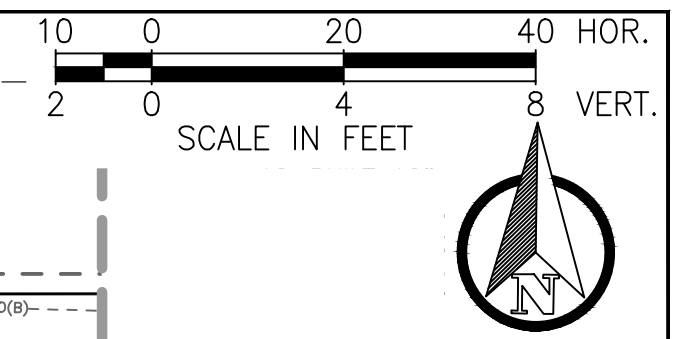
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
UTILITY ADJUSTMENT SHEETS

SHEET NO.
169

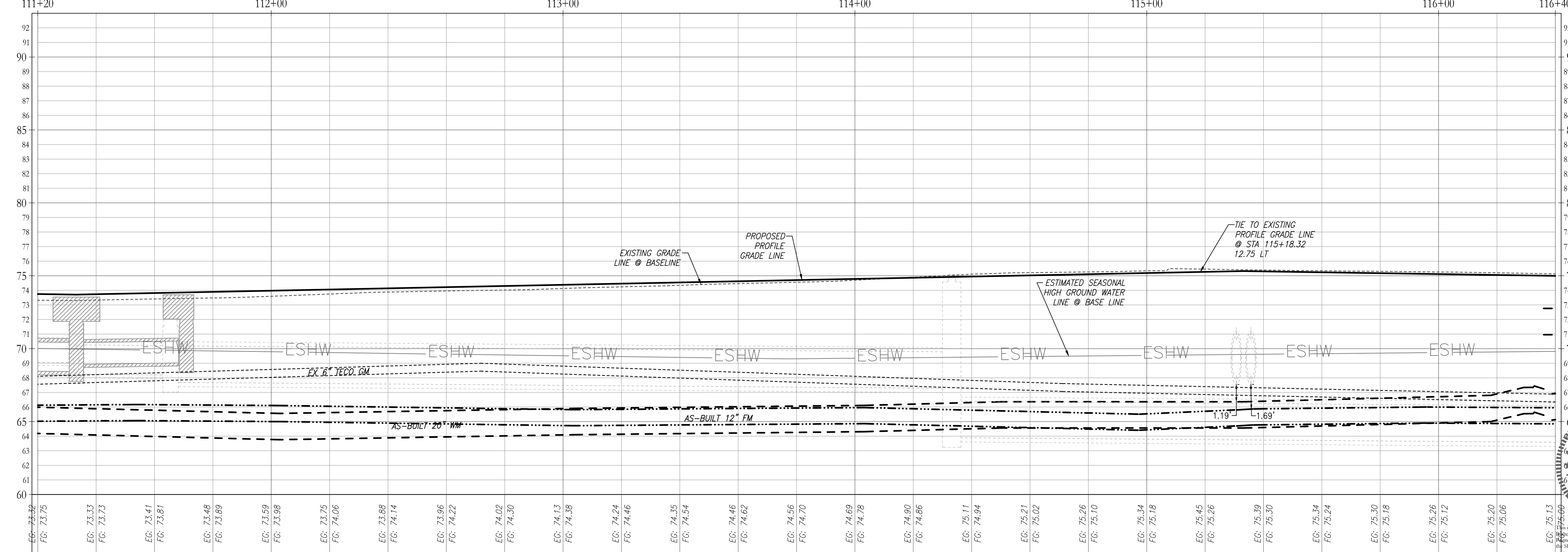
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CHRISTINA M. BAXTER
No. 67547
STATE OF FLORIDA
PROFESSIONAL ENGINEER
DATE: September 28, 2023

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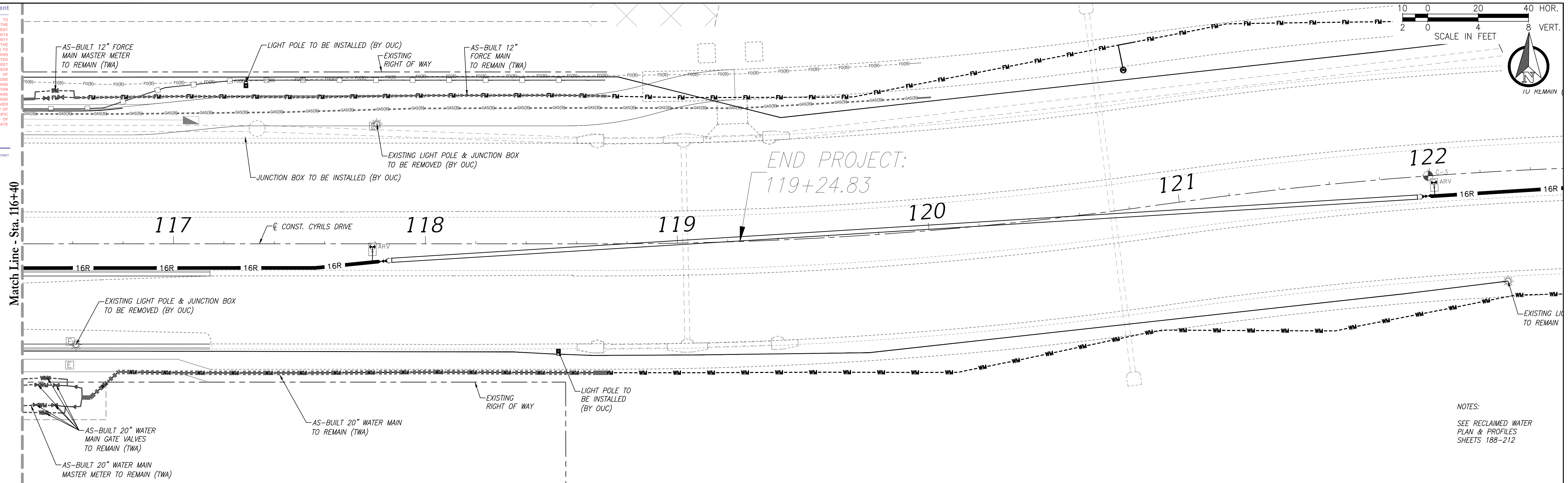
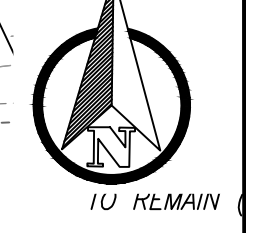
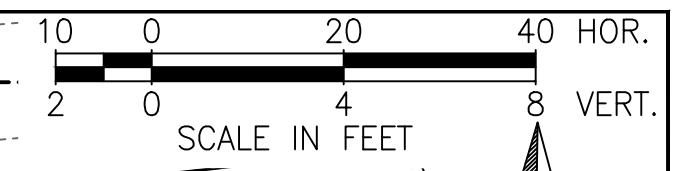
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

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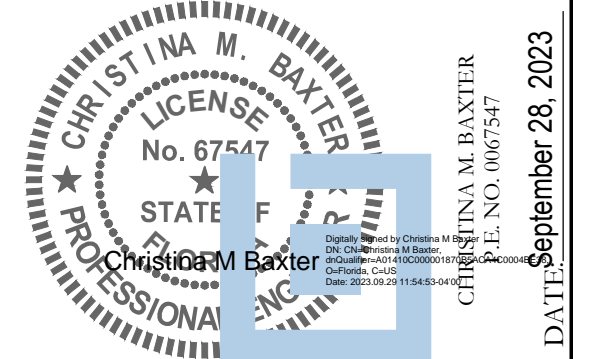
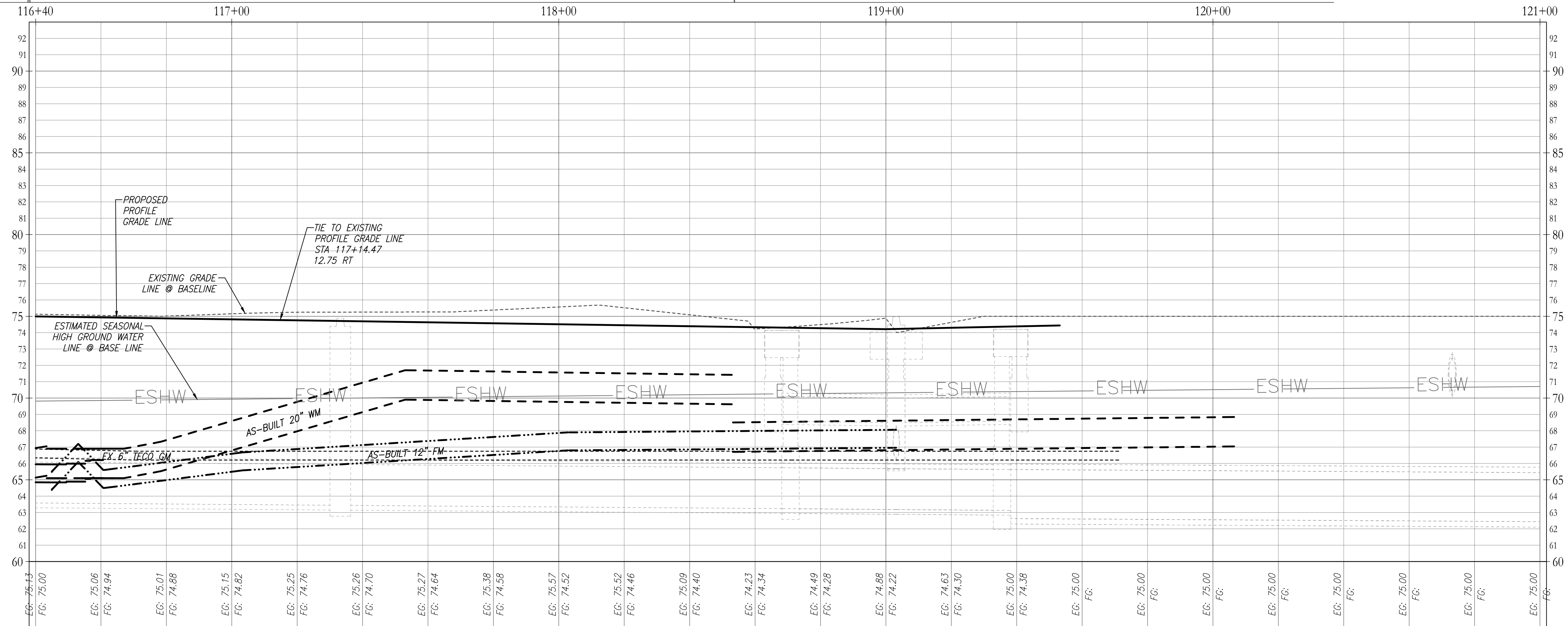
SHEET NO.
170

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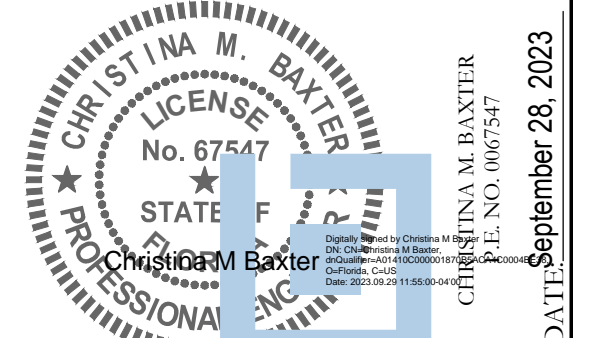
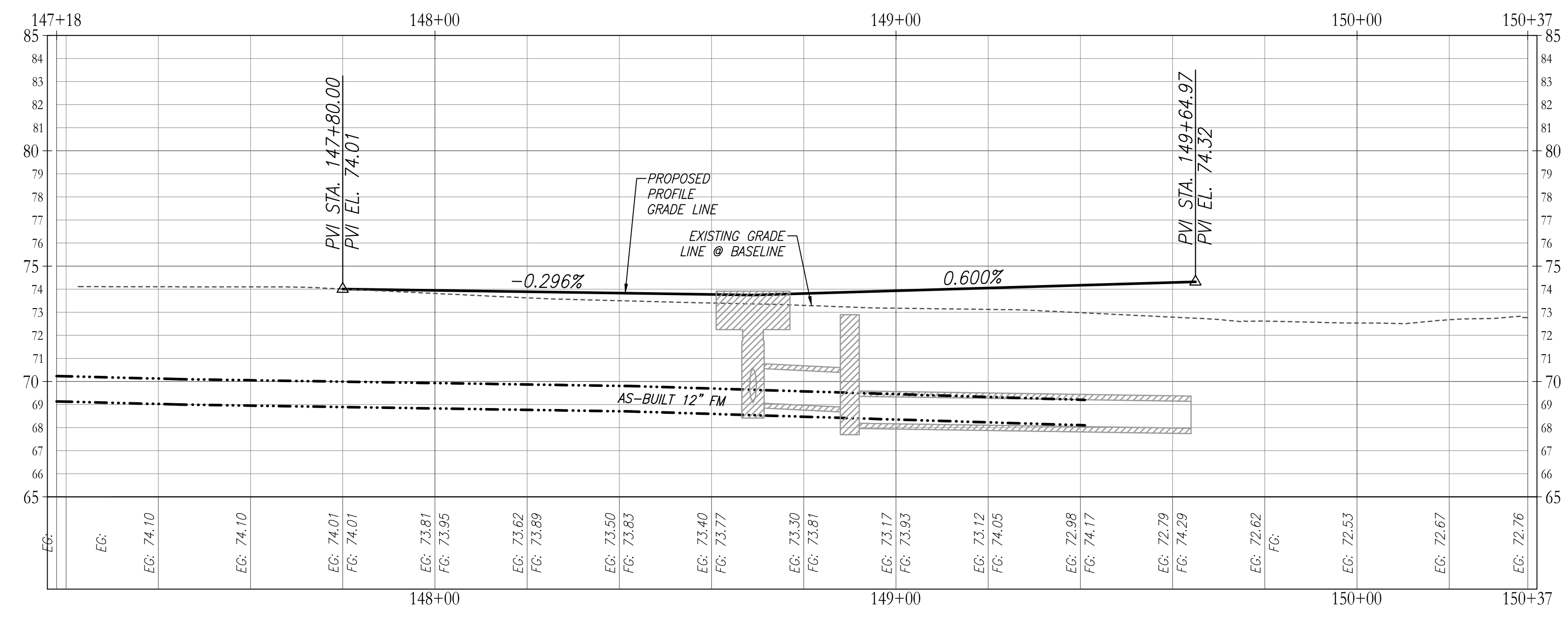
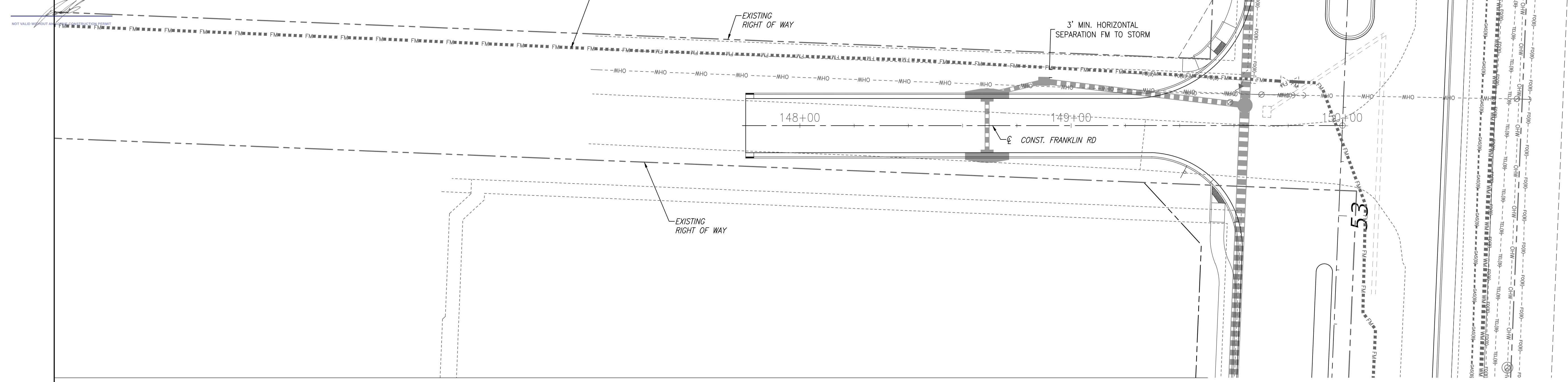
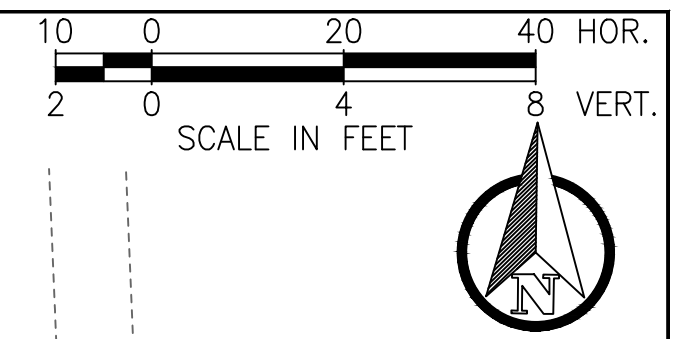
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
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UTILITY ADJUSTMENT SHEETS

SHEET NO.
171

Z:\2017\17-042 TAMISDCK - SUNBRIDGE\CYRILS DR\WARCOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-UPP

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SHEET NO.
172

THIS APPROVAL IS SUBJECT TO THE SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLAN OR THE FAILURE AS CONSTRUCTED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS. THE DEVELOPER DOES IT REMAIN THE DEVELOPER'S RESPONSIBILITY TO MEET THESE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE CHANGES THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTIONS OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

NOT VALID WITHOUT ACTIVE CONSTRUCTION PERMIT

WATER MAIN FITTING						
ID NUMBER	EASTING	NORTHING	ELEVATION	MAIN TYPE	FITTING TYPE	COMMENTS
WMF-1	586355.74	1454020.98	71.0	WATERMAIN	24" X 16" REDUCER	P.O.C.
WMF-2	586359.10	1454020.95	71.2	WATERMAIN	16" X 4" TEE	
WMF-3	586367.81	1454020.78	71.3	WATERMAIN	16" X 4" TEE	
WMF-4	586546.92	1454020.66	70.9	WATERMAIN	16" ~ 45" BEND	
WMF-5	586650.76	1454024.64	70.4	WATERMAIN	16" ~ 45" BEND	
WMF-6	586651.65	1454028.57	67.1	WATERMAIN	16" ~ 45" VERT BEND	
WMF-7	586653.27	1454103.66	68.0	WATERMAIN	16" ~ 45" BEND	
WMF-8	586658.71	1454109.30	67.9	WATERMAIN	16" ~ 45" BEND	
WMF-9	587254.69	1454107.18	66.7	WATERMAIN	16" X 6" TEE	
WMF-10	587605.93	1454105.91	67.0	WATERMAIN	16" X 20" REDUCER	
WMF-11	588267.44	1454105.38	67.7	WATERMAIN	20" X 6" TEE	
WMF-12	589269.44	1454102.99	67.1	WATERMAIN	20" X 6" TEE	
WMF-13	590271.49	1454104.92	67.1	WATERMAIN	20" X 6" TEE	
WMF-14	591254.62	1454106.69	67.5	WATERMAIN	20" X 6" TEE	
WMF-15	591262.50	1454107.22	67.5	WATERMAIN	20" ~ 45" BEND	
WMF-16	591265.78	1454104.38	67.3	WATERMAIN	20" ~ 45" BEND	
WMF-17	591285.59	1454104.17	67.6	WATERMAIN	20" ~ 45" BEND	
WMF-18	591288.31	1454106.92	67.6	WATERMAIN	20" ~ 45" BEND	
WMF-19	591557.52	1454106.91	67.9	WATERMAIN	20" ~ 45" BEND	
WMF-20	591560.26	1454104.92	67.9	WATERMAIN	20" ~ 45" BEND	
WMF-21	591580.32	1454106.12	67.8	WATERMAIN	20" ~ 45" BEND	
WMF-22	591582.08	1454107.78	67.7	WATERMAIN	20" ~ 45" BEND	
WMF-23	591893.66	1454107.56	69.1	WATERMAIN	20" ~ 45" BEND	
WMF-24	591896.86	1454105.22	69.1	WATERMAIN	20" ~ 45" BEND	
WMF-25	591917.37	1454105.15	69.2	WATERMAIN	20" ~ 45" BEND	
WMF-26	591920.56	1454107.90	69.2	WATERMAIN	20" ~ 45" BEND	
WMF-27	592204.09	1454107.01	70.2	WATERMAIN	20" ~ 45" BEND	
WMF-28	592238.78	1454072.30	70.4	WATERMAIN	20" ~ 45" BEND	
WMF-29	592239.23	1453995.89	69.7	WATERMAIN	20" ~ 45" BEND	
WMF-30	592245.26	1453990.34	69.5	WATERMAIN	20" ~ 45" BEND	
WMF-31	592248.43	1453990.37	69.5	WATERMAIN	20" X 6" TEE	
WMF-32	587373.06	1454107.60	66.9	WATERMAIN	16" X 2" SADDLE	
WMF-33	587688.38	1454106.02	66.9	WATERMAIN	20" X 2" SADDLE	
WMF-34	588097.77	1454106.01	67.3	WATERMAIN	20" X 2" SADDLE	
WMF-35	588222.61	1454105.04	67.4	WATERMAIN	20" X 2" SADDLE	
WMF-36	588397.69	1454105.76	68.1	WATERMAIN	20" X 2" SADDLE	
WMF-37	588744.73	1454104.78	67.9	WATERMAIN	20" X 2" SADDLE	
WMF-38	588924.94	1454104.24	67.4	WATERMAIN	20" X 2" SADDLE	
WMF-39	589486.61	1454104.23	67.4	WATERMAIN	20" X 2" SADDLE	
WMF-40	589628.39	1454103.84	67.4	WATERMAIN	20" X 2" SADDLE	
WMF-41	590011.31	1454105.09	67.9	WATERMAIN	20" X 2" SADDLE	
WMF-42	590263.60	1454105.03	67.0	WATERMAIN	20" X 2" SADDLE	
WMF-43	591594.03	1454107.76	67.7	WATERMAIN	20" X 2" SADDLE	
WMF-44	592257.67	1453990.11	69.5	WATERMAIN	20" CAP	

WATER MAIN VALVES						
ID NUMBER	EASTING	NORTHING	ELEVATION	VALVE TYPE	MAIN TYPE	COMMENTS
WV-1	586363.47	1454020.94	73.6	16" GATE	WATERMAIN	
WV-2	586662.04	1454108.95	70.4	16" GATE	WATERMAIN	
WV-3	587254.55	1454105.52	67.8	6" GATE	WATERMAIN	
WV-4	587602.58	1454106.45	69.4	16" GATE	WATERMAIN	
WV-5	588267.45	1454103.55	68.3	6" GATE	WATERMAIN	
WV-6	589269.27	1454101.23	67.4	6" GATE	WATERMAIN	
WV-7	590271.55	1454103.03	67.5	6" GATE	WATERMAIN	
WV-8	591254.54	1454105.20	68.1	6" GATE	WATERMAIN	
WV-9	592248.46	1453988.62	70.2	6" GATE	WATERMAIN	
WV-10	592251.36	1453990.29	72.6	20" GATE	WATERMAIN	
WV-11	587258.46	1454107.07	69.4	16" GATE	WATERMAIN	
WV-12	588271.88	1454107.87	70.7	20" GATE	WATERMAIN	
WV-13	589273.00	1454102.76	63.8	20" GATE	WATERMAIN	
WV-14	590275.30	1454104.74	69.9	20" GATE	WATERMAIN	
WV-15	591258.70	1454106.99	70.3	20" GATE	WATERMAIN	

HYDRANTS			
ID NUMBER	EASTING	NORTHING	COMMENTS
FH-1	587254.59	1454103.72	
FH-2	588267.55	1454101.63	
FH-3	589269.05	1454099.16	
FH-4	590271.19	1454101.12	
FH-5	591254.62	1454103.28	
FH-6	592248.55	1453986.57	

WATER MAIN PIPE					
ID NUMBER	EASTING	NORTHING	ELEVATION	MAIN TYPE	COMMENTS
WL-1	586458.15	1454020.43	71.2	WATERMAIN	16"
WL-2	586551.22	1454020.57	71.2	WATERMAIN	16"
WL-3	586755.86	1454108.66	67.4	WATERMAIN	16"
WL-4	586856.15	1454108.57	67.2	WATERMAIN	16"
WL-5	586956.33	1454107.18	67.3	WATERMAIN	16"
WL-6	587056.90	1454107.34	67.2	WATERMAIN	16"
WL-7	587156.36	1454107.18	67.2	WATERMAIN	16"
WL-8	587357.81	1454107.63	67.0	WATERMAIN	16"
WL-9	587460.16	1454107.38	67.2	WATERMAIN	16"
WL-10	587542.96	1454106.59	66.8	WATERMAIN	16"
WL-11	587706.46	1454106.05	66.9	WATERMAIN	20"
WL-12	587805.41	1454105.79	67.0	WATERMAIN	20"
WL-13	587905.01	1454105.10	67.1	WATERMAIN	20"
WL-14	588005.99	1454105.50	66.7	WATERMAIN	20"
WL-15	588107.84	1454106.07	67.3	WATERMAIN	20"
WL-16	588207.64	1454104.93	67.4	WATERMAIN	20"
WL-17	588369.34	1454105.98	68.1	WATERMAIN	20"
WL-18	588470.67	1454105.19	68.2	WATERMAIN	20"
WL-19	588570.76	1454104.50	67.8	WATERMAIN	20"
WL-20	588670.37	1454104.52	68.0	WATERMAIN	20"
WL-21	588772.80	1454104.88	67.8	WATERMAIN	20"
WL-22	588873.71	1454104.07	67.5	WATERMAIN	20"
WL-23	588973.02	1454104.41	67.3	WATERMAIN	20"
WL-24	589074.44	1454104.14	67.3	WATERMAIN	20"
WL-25	589173.04	1454104.08	67.1	WATERMAIN	20"
WL-26	589377.19	1454103.67	67.4	WATERMAIN	20"
WL-27	589480.15	1454104.25	67.4	WATERMAIN	20"
WL-28	589579.93	1454103.90	67.4	WATERMAIN	20"
WL-29	589722.12	1454103.73	67.5	WATERMAIN	20"
WL-30	589823.34	1454105.01	67.8	WATERMAIN	20"
WL-31	589923.85	1454104.54	67.8	WATERMAIN	20"
WL-32	590024.36	1454105.17	67.9	WATERMAIN	20"
WL-33	590123.94	1454104.38	67.4	WATERMAIN	20"
WL-34	590226.00	1454105.57	66.9	WATERMAIN	20"
WL-35	590320.12	1454105.09	67.1	WATERMAIN	20"
WL-36	590469.77	1454105.61	67.5	WATERMAIN	20"
WL-37	590570.56	1454105.96	67.0	WATERMAIN	20"
WL-38	590672.15	1454105.59	67.2	WATERMAIN	20"
WL-39	590771.44	1454105.49	67.2	WATERMAIN	20"
WL-40	590871.41	1454106.09	67.3	WATERMAIN	20"
WL-41	590971.90	1454106.60	67.0	WATERMAIN	20"
WL-42	591072.72	1454106.23	67.4	WATERMAIN	20"
WL-43	591174.14	1454107.01	67.3	WATERMAIN	20"
WL-44	591289.94	1454106.77	67.6	WATERMAIN	20"
WL-45	591494.87	1454106.86	67.7	WATERMAIN	20"
WL-46	591676.72	1454107.63	68.0	WATERMAIN	20"
WL-47	591777.54	1454108.30	68.8	WATERMAIN	20"
WL-48	592017.23	1454108.46	69.4	WATERMAIN	20"
WL-49	592117.54	1454109.08	70.3	WATERMAIN	20"

WATER SERVICES					
ID NUMBER	EASTING	NORTHING	ELEVATION	MAIN TYPE	COMMENTS
WS-1	587371.38	1454070.34	70.8	WATERMAIN	2" SERVICE
WS-2	587690.55	1454070.44	70.8	WATERMAIN	2" SERVICE
WS-3	588100.42	1454067.19	71.4	WATERMAIN	2" SERVICE
WS-4	588222.02	1454066.78	71.6	WATERMAIN	2" SERVICE
WS-5	588399.64	1454066.74	71.5	WATERMAIN	2" SERVICE
WS-6	588743.36	1454065.52	71.5	WATERMAIN	2" SERVICE
WS-7	588922.58	1454064.89	71.1	WATERMAIN	2" SERVICE
WS-8	589481.55	1454062.71	70.8	WATERMAIN	2" SERVICE
WS-9	589625.97	1454063.35	70.9	WATERMAIN	2" SERVICE
WS-10	590009.45	1454065.37	70.7	WATERMAIN	2" SERVICE
WS-11	590267.08	1454067.19	70.8	WATERMAIN	2" SERVICE
WS-12	591582.81	1454062.39	73.0	WATERMAIN	2" SERVICE

WATER METER					
ID NUMBER	EASTING	NORTHING	ELEVATION	MAIN TYPE	COMMENTS
WM-1	587370.61	1454062.78	70.2	WATERMAIN	2" METER
WM-2	587691.01	1454063.59	70.7	WATERMAIN	2" METER
WM-3	588099.91	1454064.39	71.2	WATERMAIN	2" METER
WM-4	588221.65	1454060.73	71.2	WATERMAIN	2" METER
WM-5	588398.94	1454062.05	70.9	WATERMAIN	2" METER
WM-6	588743.17	1454057.41	70.8	WATERMAIN	2" METER
WM-7	588921.58	1454057.84	70.5	WATERMAIN	2" METER
WM-8	589473.71	1454059.19	70.7	WATERMAIN	2" METER
WM-9	589630.05	1454057.20	71.5	WATERMAIN	2" METER
WM-10	590017.98	1454060.39	70.9	WATERMAIN	2" METER
WM-11	590273.40	1454060.89	70.7	WATERMAIN	2" METER
WM-12	591593.43	1454062.05	73.4	WATERMAIN	2" METER

FORCE MAIN PIPE					
ID NUMBER	EASTING	NORTHING	ELEVATION	MAIN TYPE	COMMENTS
FL-1	587086.68	1454067.19	66.9	FORCEMAIN	12"
FL-2	587175.17	1454066.64	66.9	FORCEMAIN	12"
FL-3	587275.46	1454066.80	66.9	FORCEMAIN	12"
FL-4	587373.29	1454067.31	67.2	FORCEMAIN	12"
FL-5	587471.90	1454067.00	67.2	FORCEMAIN	12"
FL-6	587568.88	1454070.96	68.1	FORCEMAIN	12"
FL-7	587667.87	1454070.04	68.0	FORCEMAIN	12"
FL-8	587767.55	1454070.15	67.9	FORCEMAIN	12"
FL-9	587866.73	1454069.14	67.9	FORCEMAIN	12"
FL-10	587967.10	1454069.17	68.3	FORCEMAIN	12"
FL-11	588066.99	1454068.64	68.1	FORCEMAIN	12"
FL-12	588165.09	1454068.70	68.2	FORCEMAIN	12"
FL-13	588264.92	1454069.21	68.5	FORCEMAIN	12"
FL-14	588363.34	1454068.43	68.4	FORCEMAIN	12"
FL-15	588464.25	1454067.80	68.4	FORCEMAIN	12"
FL-16	588579.93	1454067.91	67.2	FORCEMAIN	12"
FL-17	588660.70	1454067.00	68.46	FORCEMAIN	12"
FL-18	588759.54	1454067.16	68.35	FORCEMAIN	12"
FL-19	588857.98	1454066.99	68.10	FORCEMAIN	12"
FL-20	588977.53	1454066.45	68.17	FORCEMAIN	12"
FL-21	589075.78	1454066.59	67.91	FORCEMAIN	12"
FL-22	589175.29	1454066.68			

Osceola County
Community Development

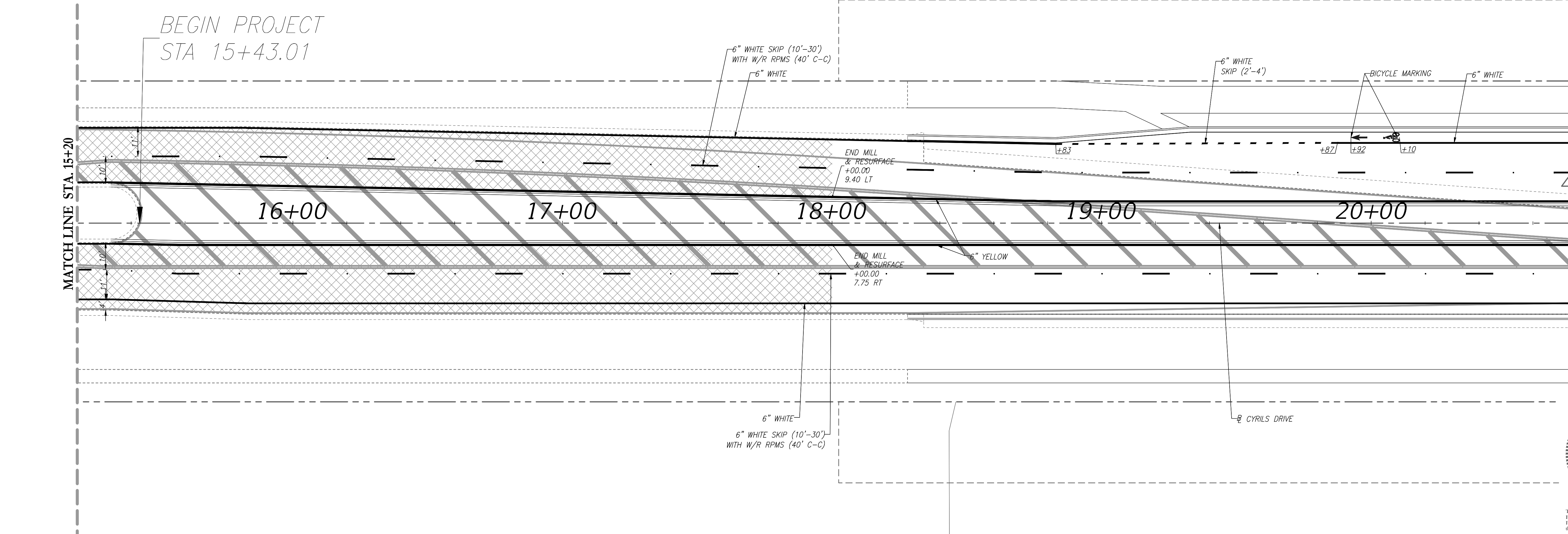
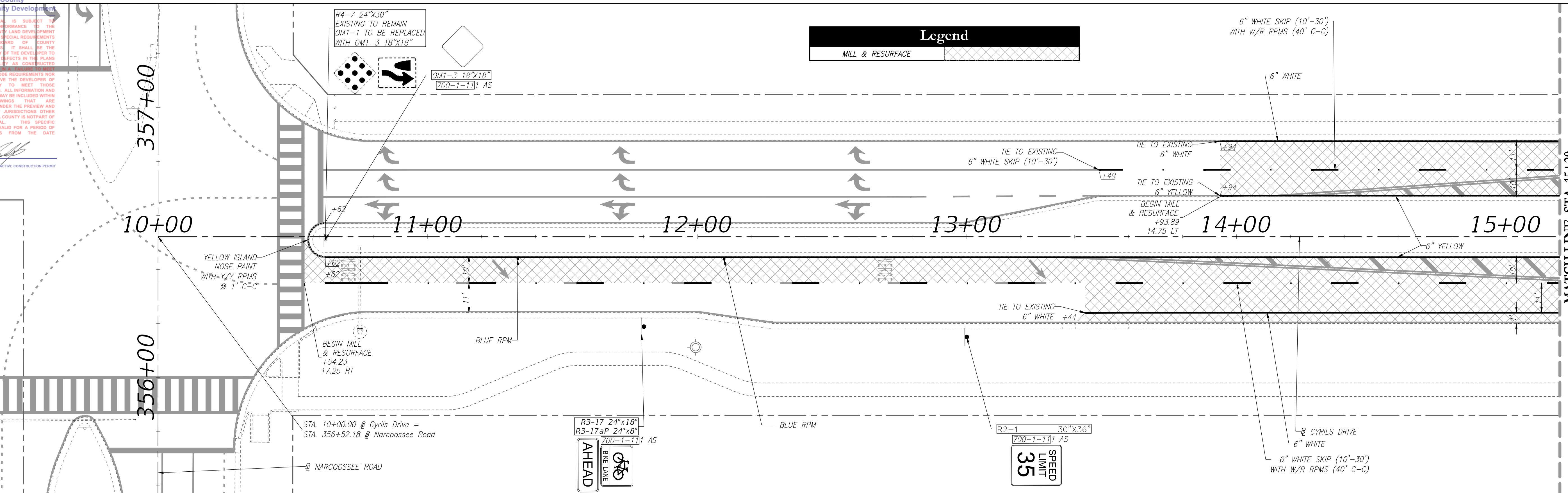
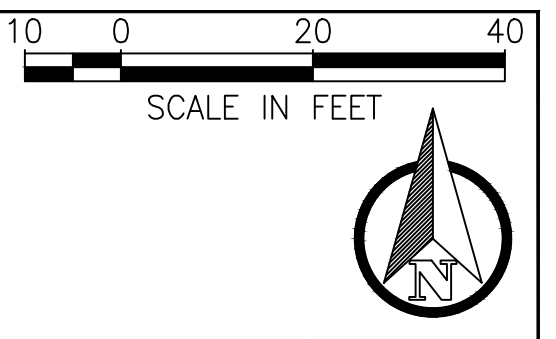
THIS APPROVAL IS SUBJECT TO SPECIFIC COMPLIANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE FACILITY AS CONSTRUCTED.

APPLICABLE CODE REQUIREMENTS FOR WHICH THE DEVELOPER IS RESPONSIBLE TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT ARE INCLUDED WITHIN THESE DRAWINGS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTIONS OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

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Legend

MILL & RESURFACE



Z:\2017\17-042 TAVISDOCK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-04208-CD&M-SSP

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT

Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
SIGNING AND PAVEMENT MARKING

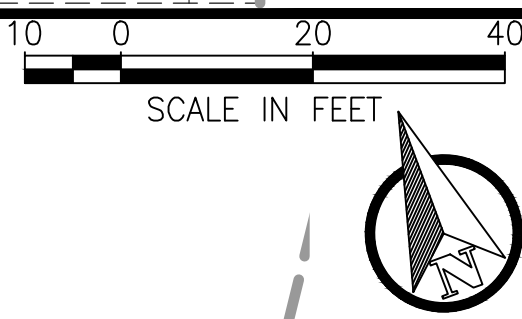
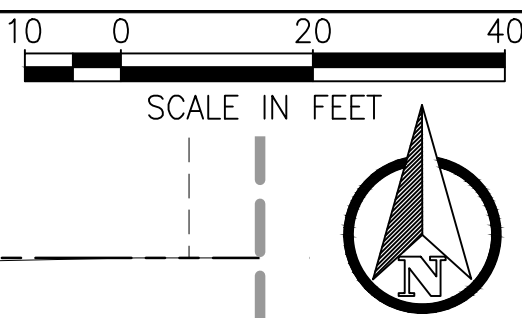
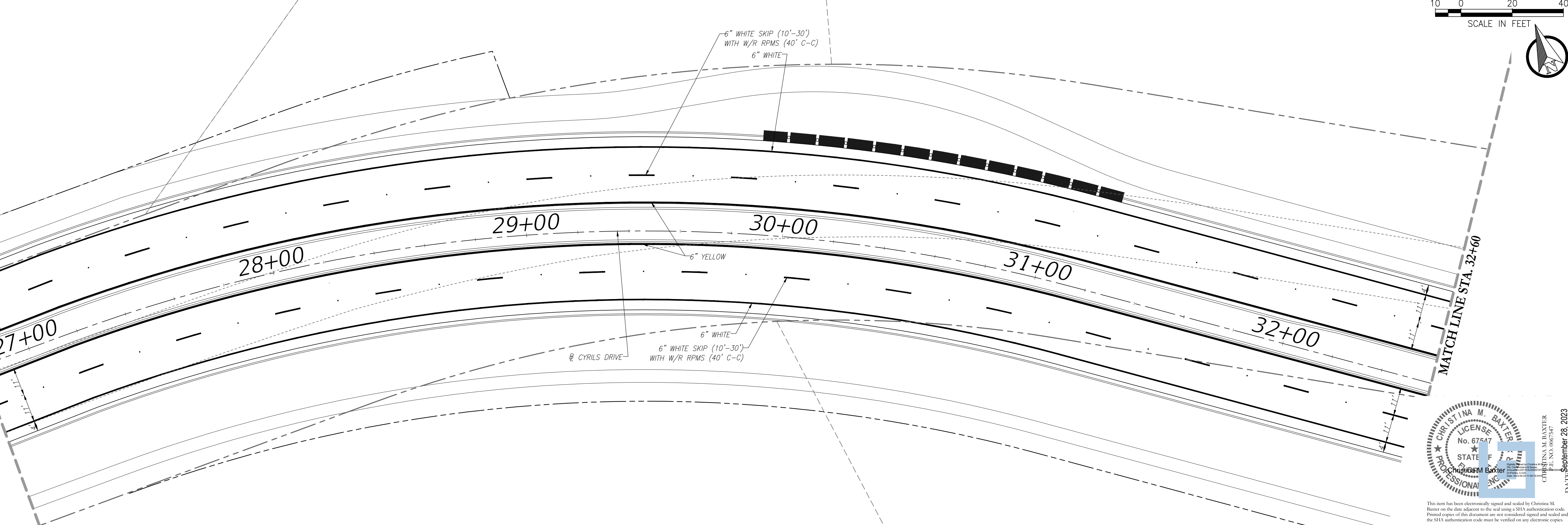
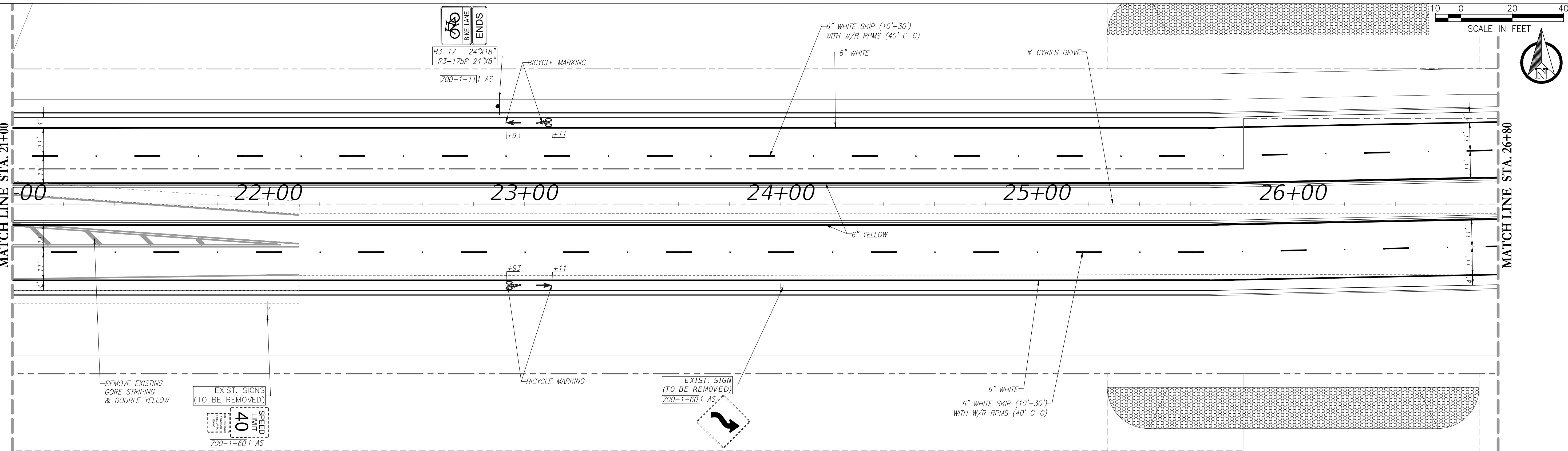
SHEET NO.
174

CHRISTINA M. BAXTER
LICENSE No. 67547
STATE OF FLORIDA
PROFESSIONAL ENGINEER
DATE: September 28, 2023

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Z:\2017\17-042 TAVIS/DOCK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-SSP

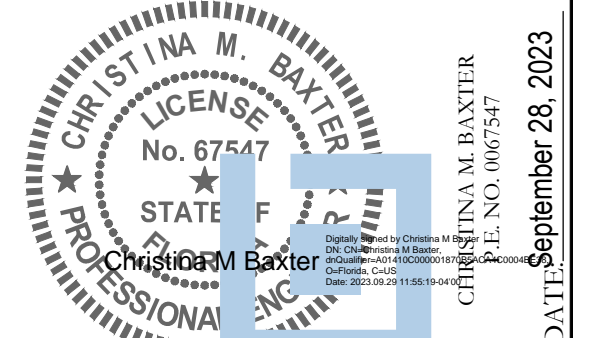
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT
 Poulos & Bennett, LLC
 2602 E. Livingston St., Orlando, FL 32803
 Tel. 407.487.2594 www.poulosandbennett.com
 Eng. Bus. No. 28567

OSCEOLA COUNTY
 PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
 ABSHER ROAD - ROAD WIDENING
 SIGNING AND PAVEMENT MARKING

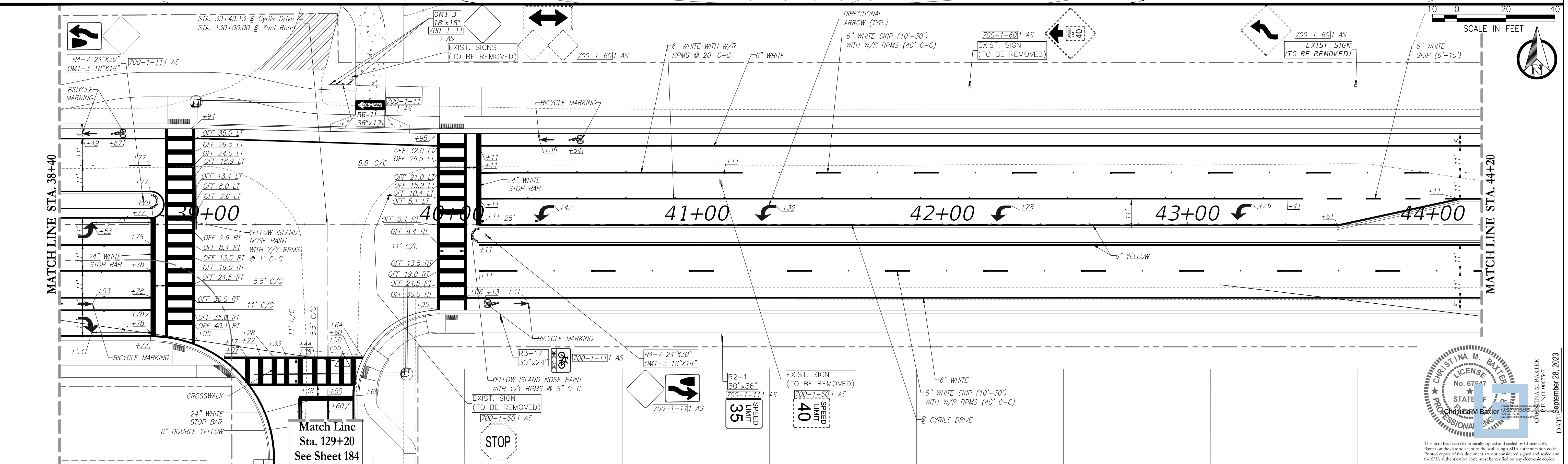
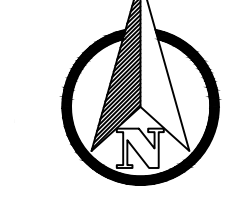
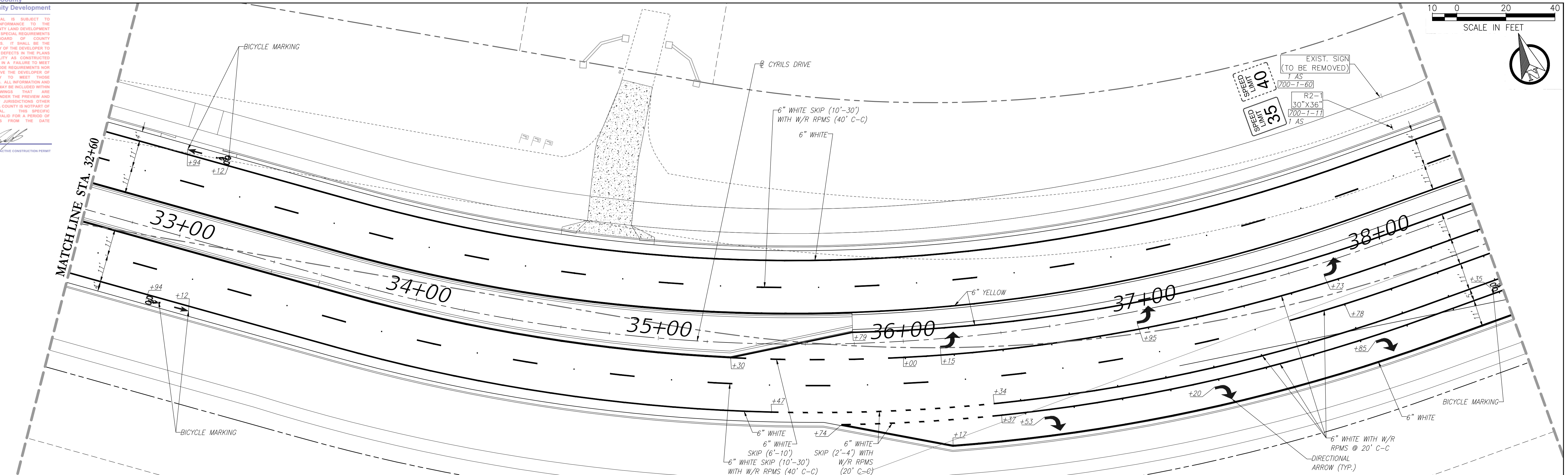
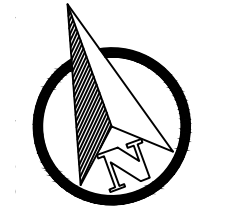
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Z:\2017\17-042-TAMISDCK - SUNBRIER\CYRILS DR\WIDENING\OSCEOLA\COUNTY\17042-10208-CD&M-SSP

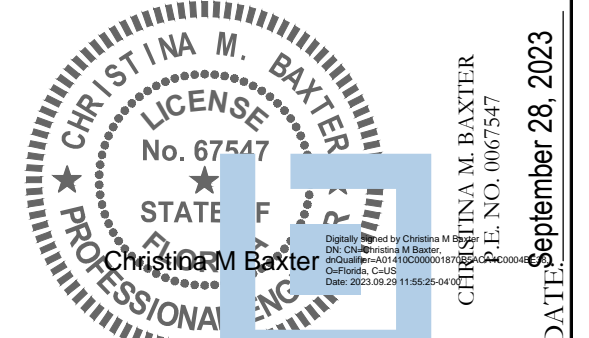
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT
Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
SIGNING AND PAVEMENT MARKING

SHEET NO.
176

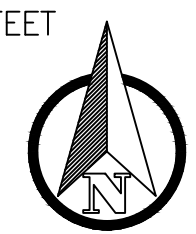


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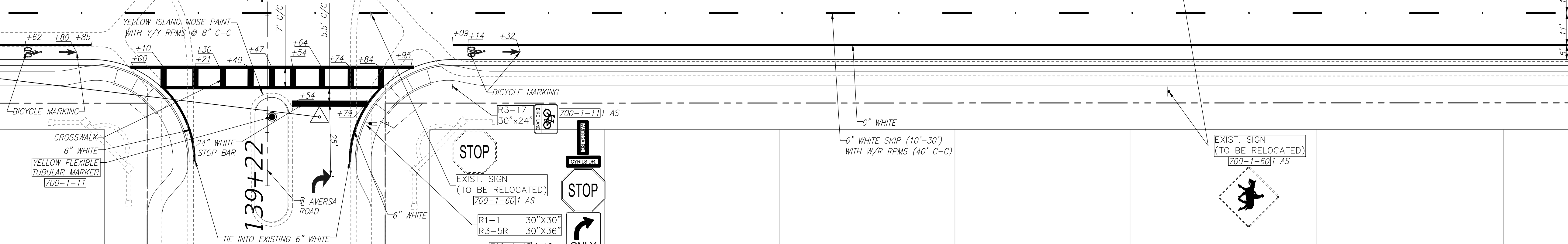
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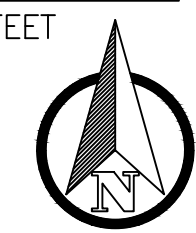
MATCH LINE STA. 44+20

MATCH LINE STA. 50+00

45+00 46+00 47+00 48+00 49+00 50+00



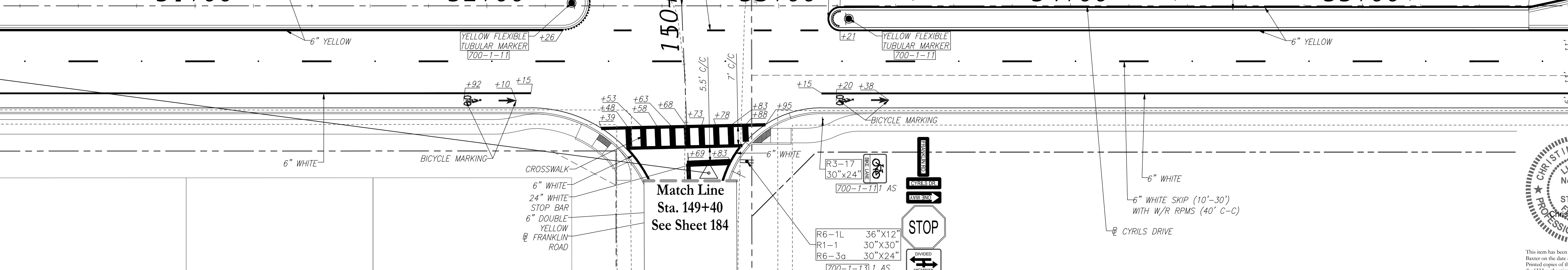
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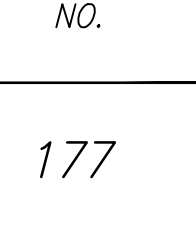
MATCH LINE STA. 50+00

MATCH LINE STA. 55+80

51+00 52+00 53+00 54+00 55+00



SCALE IN FEET



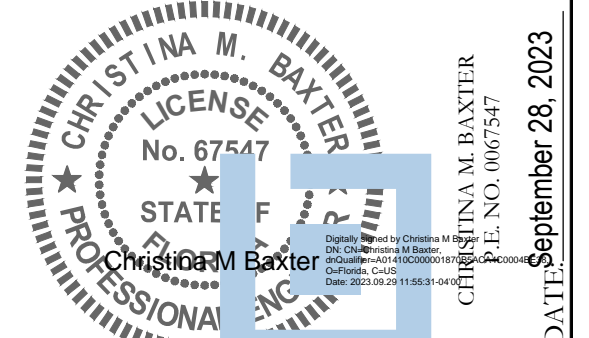
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT
Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
SIGNING AND PAVEMENT MARKING

SHEET NO.
177

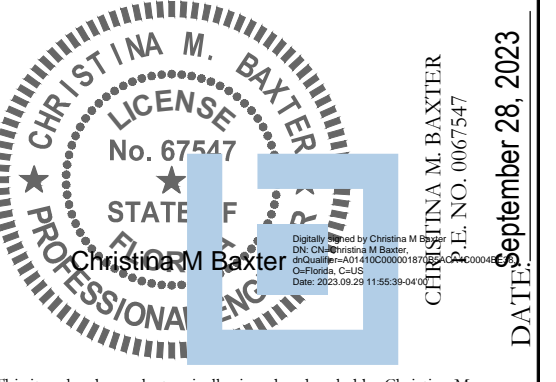
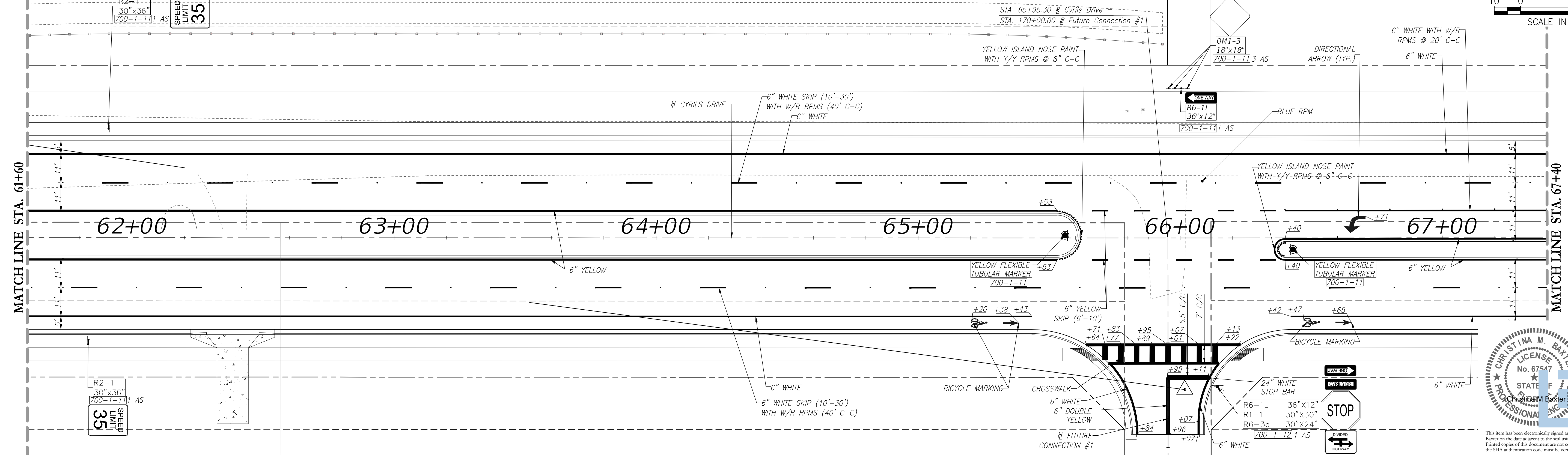
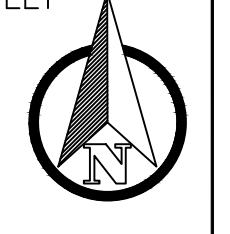
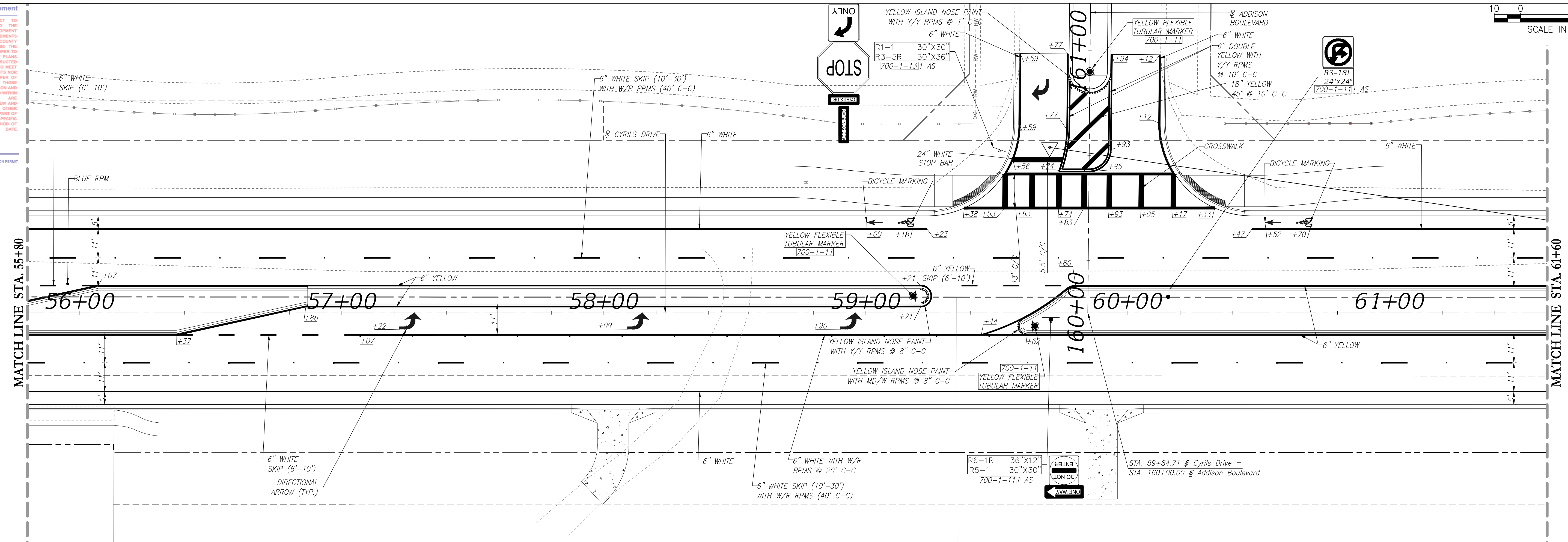
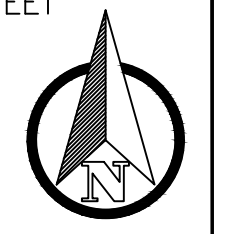
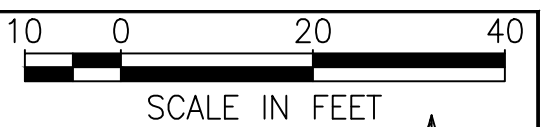


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Z:\2017\17-042 TAVIS/STOCK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-SSP

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OSCEOLA COUNTY
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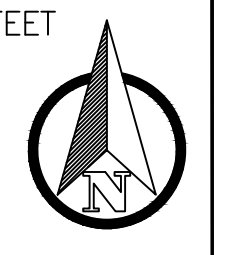
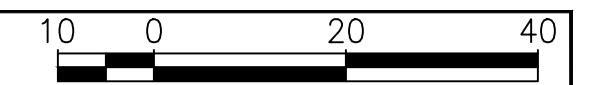
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
SIGNING AND PAVEMENT MARKING

SHEET NO.
178

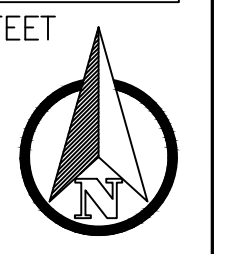
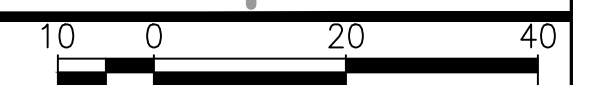
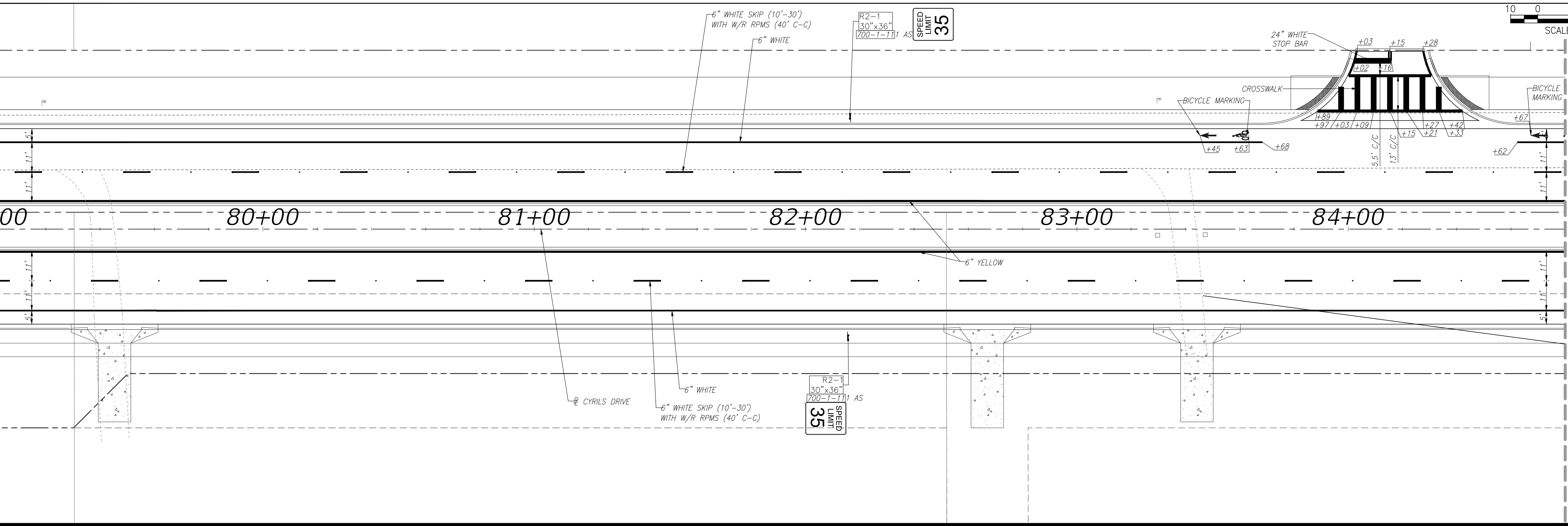
Z:\2017\17-042 TAVIS/STOCK - SUNBRIDGE\CYRILS DR\WIDENING\17042-10208-CD&M-SSP

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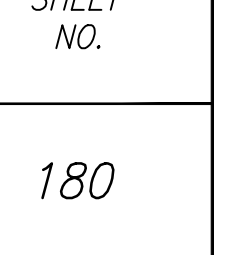
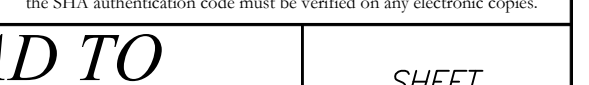
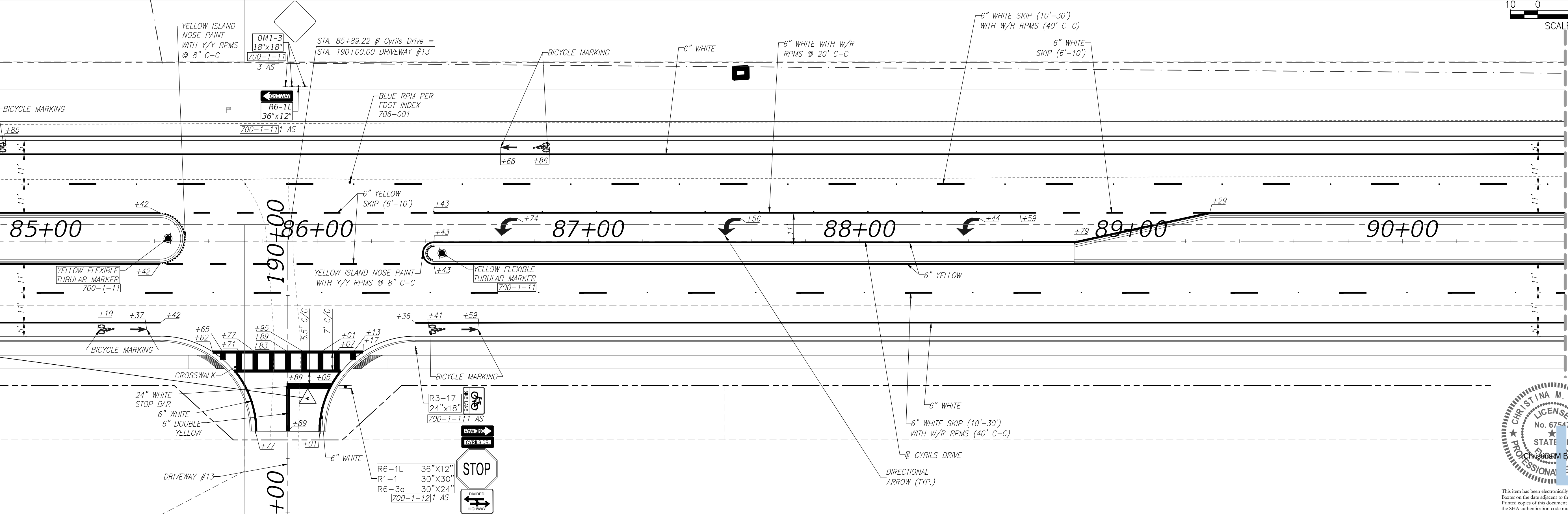
NOT VALID WITHOUT ACTIVE CONSTRUCTION PERMIT



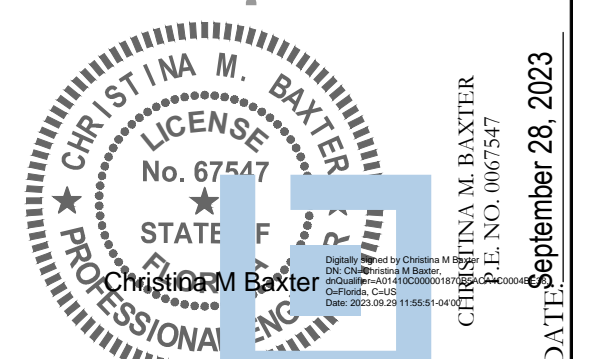
MATCHLINE STA. 79+00



MATCHLINE STA. 84+80



MATCHLINE STA. 90+60



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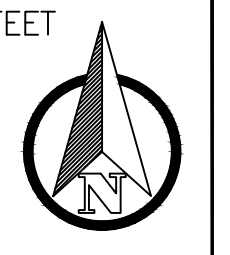
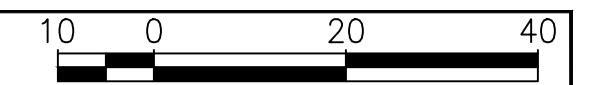
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
SIGNING AND PAVEMENT MARKING

SHEET NO.
180

Z:\2017\17-042 TAMISDCK - SUNBRIE/CYRILS DR/ARCOSSEE TO ABSHER/ROAD WIDENING/SDP23-0132-0208-CD&M-SSP

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MATCH LINE STA. 90+60

MATCH LINE STA. 96+40

91+00 92+00 93+00 94+00 95+00 96+00

6" WHITE SKIP (10'-30')
WITH W/R RPMS (40' C-C)

6" WHITE

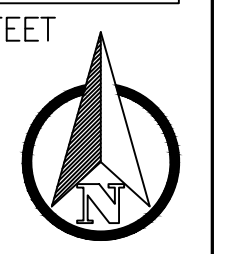
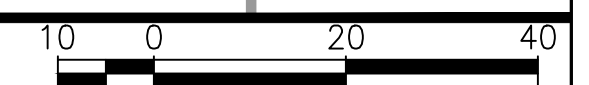
BLUE RPM

6" YELLOW

6" WHITE

6" WHITE SKIP (10'-30')
WITH W/R RPMS (40' C-C)

CYRILS DRIVE



MATCH LINE STA. 96+40

MATCH LINE STA. 102+20

97+00 98+00 99+00 100+00 101+00 102+00

6" WHITE SKIP (10'-30')
WITH W/R RPMS (40' C-C)

6" WHITE

6" YELLOW

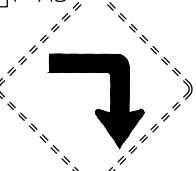
6" WHITE

6" WHITE SKIP (10'-30')
WITH W/R RPMS (40' C-C)

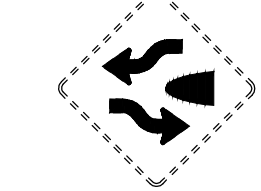
CYRILS DRIVE

EXIST. SIGNS
(TO BE REMOVED)
[200-1-60] AS

20
MPH



EXIST. SIGN
(TO BE REMOVED)
[200-1-60] AS



DATE: September 28, 2023

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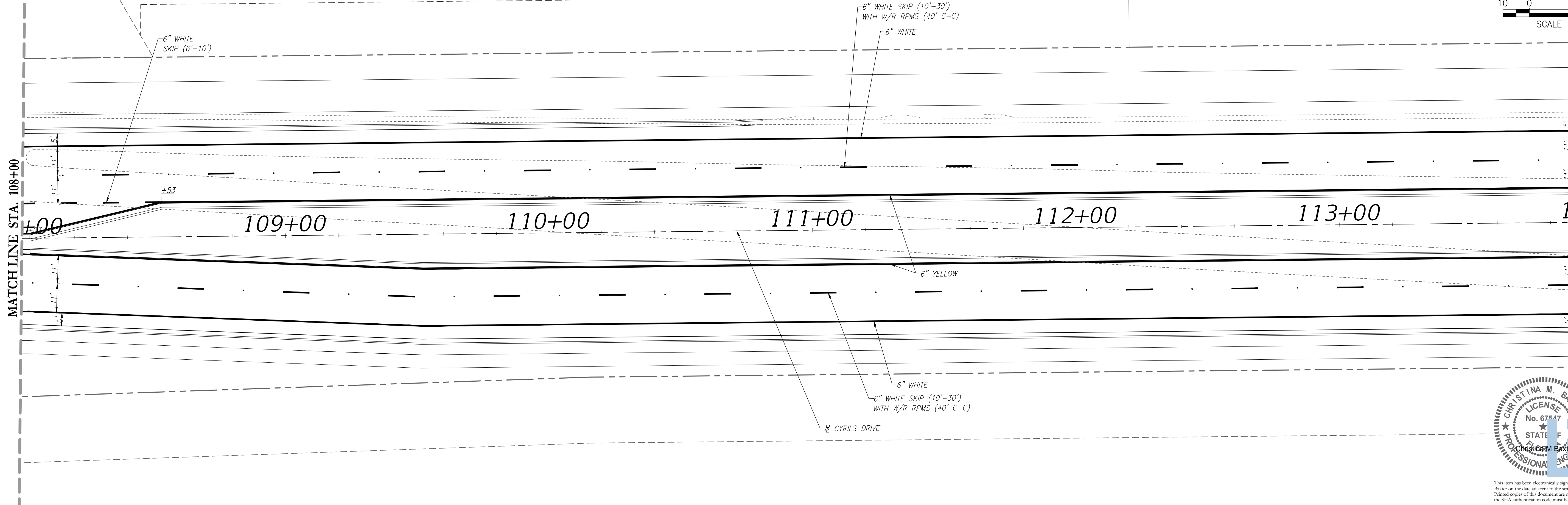
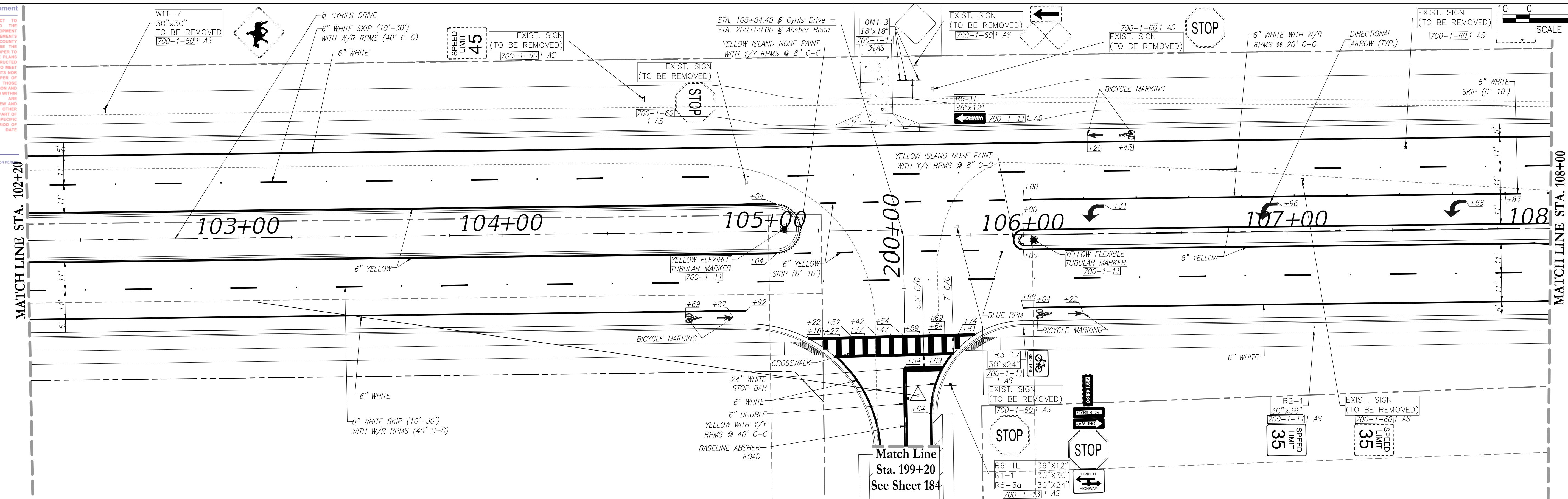
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
SIGNING AND PAVEMENT MARKING

SHEET NO.
181

Osceola County
Community Development

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Z:\2017\17-042 TAVIS/STOCK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-SSP

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Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
SIGNING AND PAVEMENT MARKING

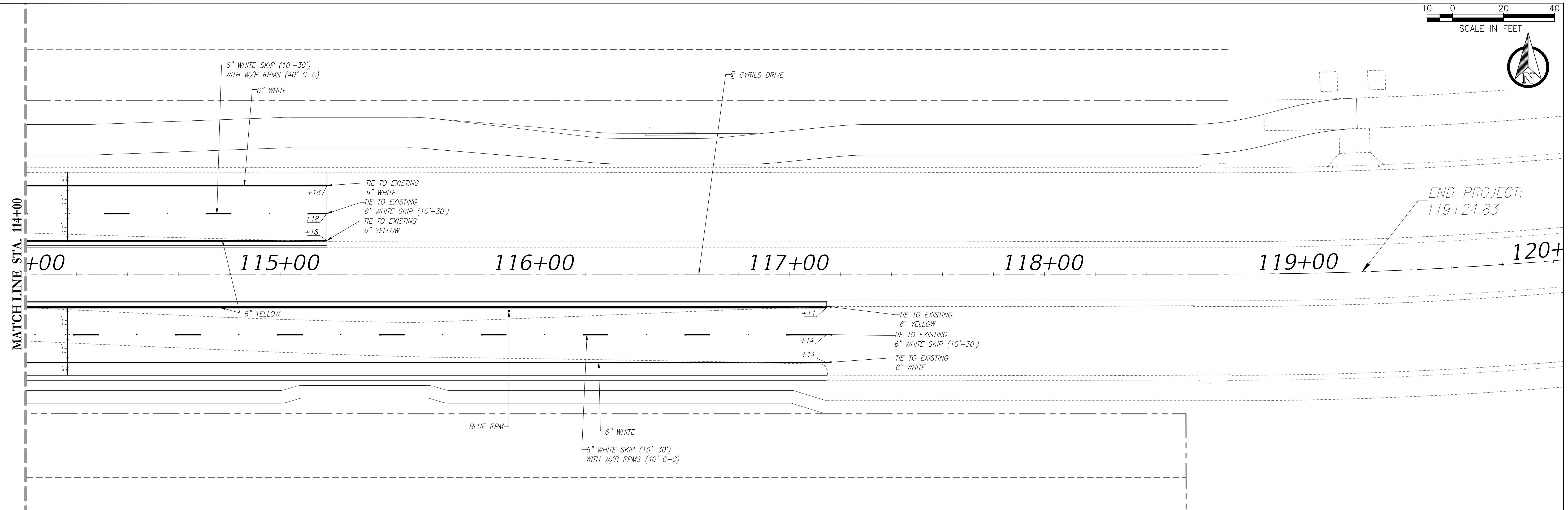
SHEET NO.
182

CHRISTINA M. BAXTER
LICENSE No. 67547
STATE OF FLORIDA
PROFESSIONAL ENGINEER
DATE: September 28, 2023

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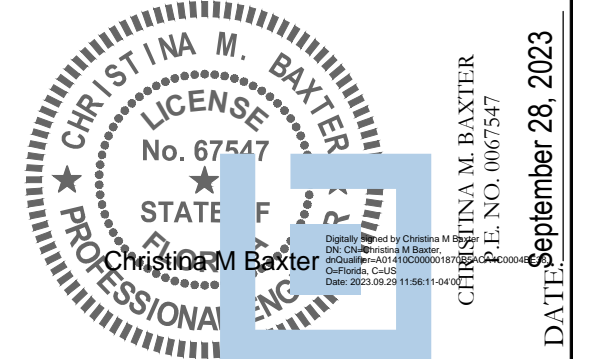
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SIGNING AND PAVEMENT MARKING

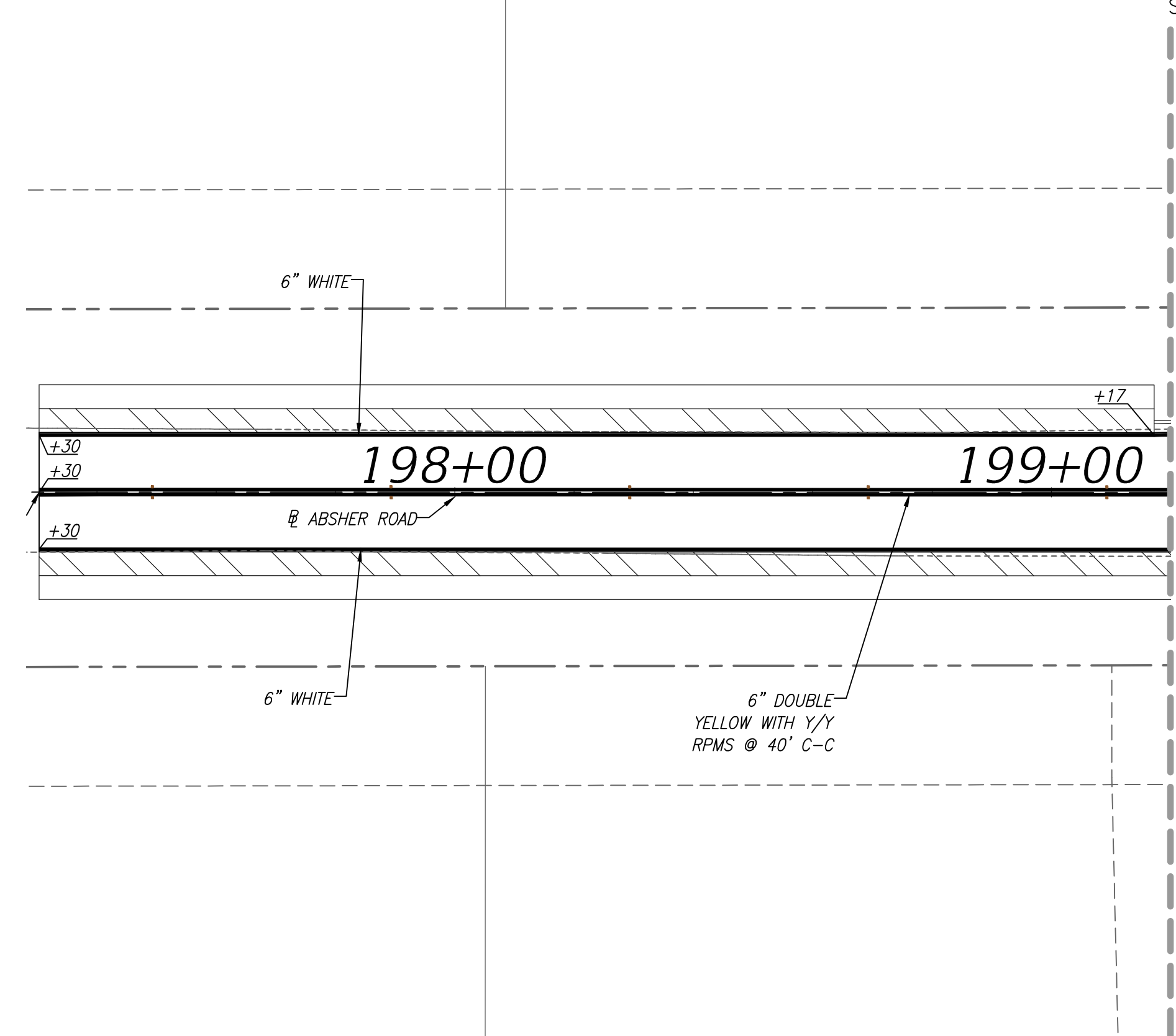
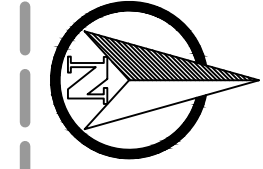
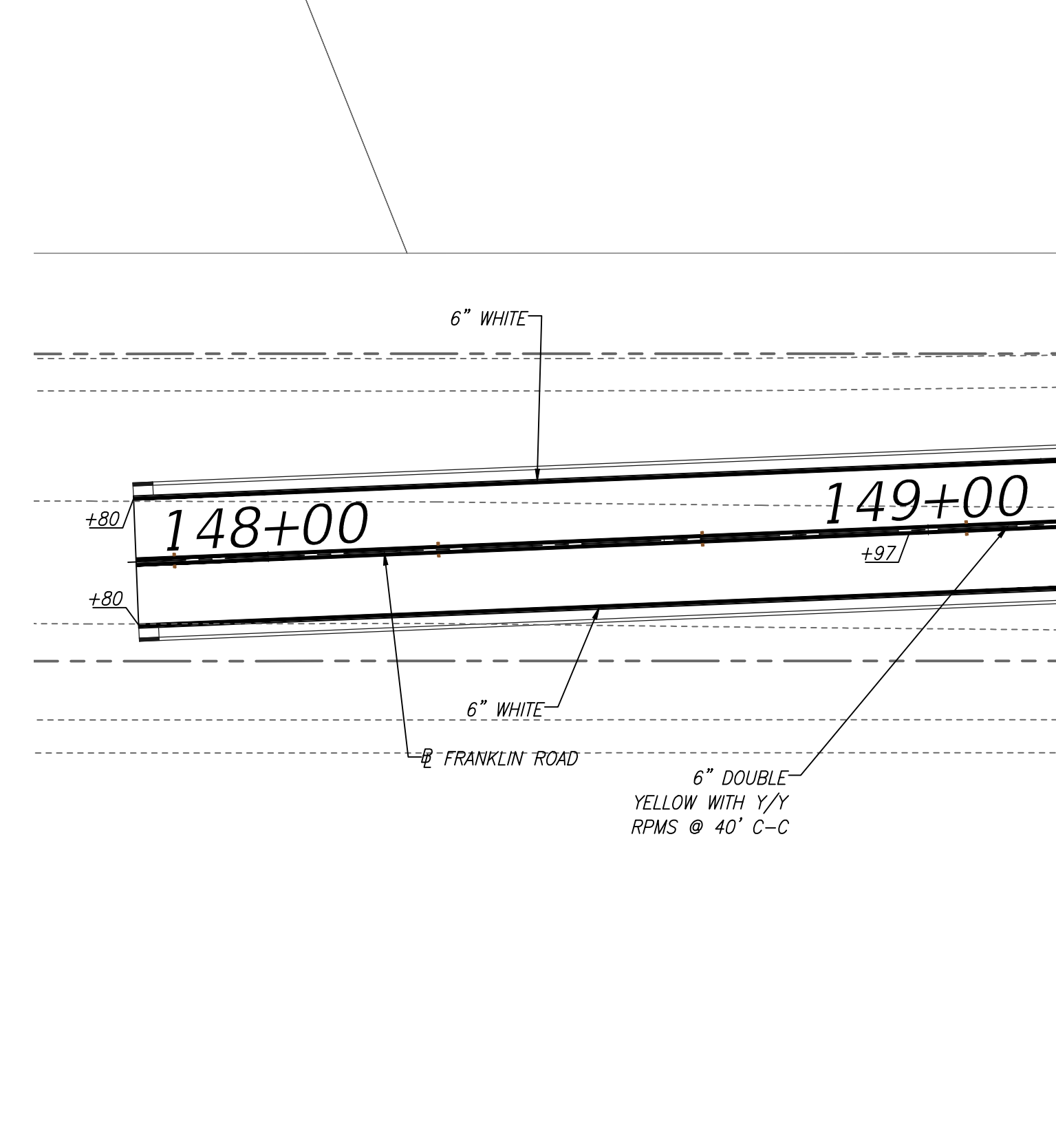
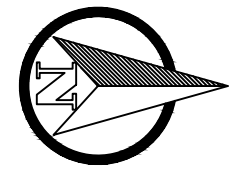
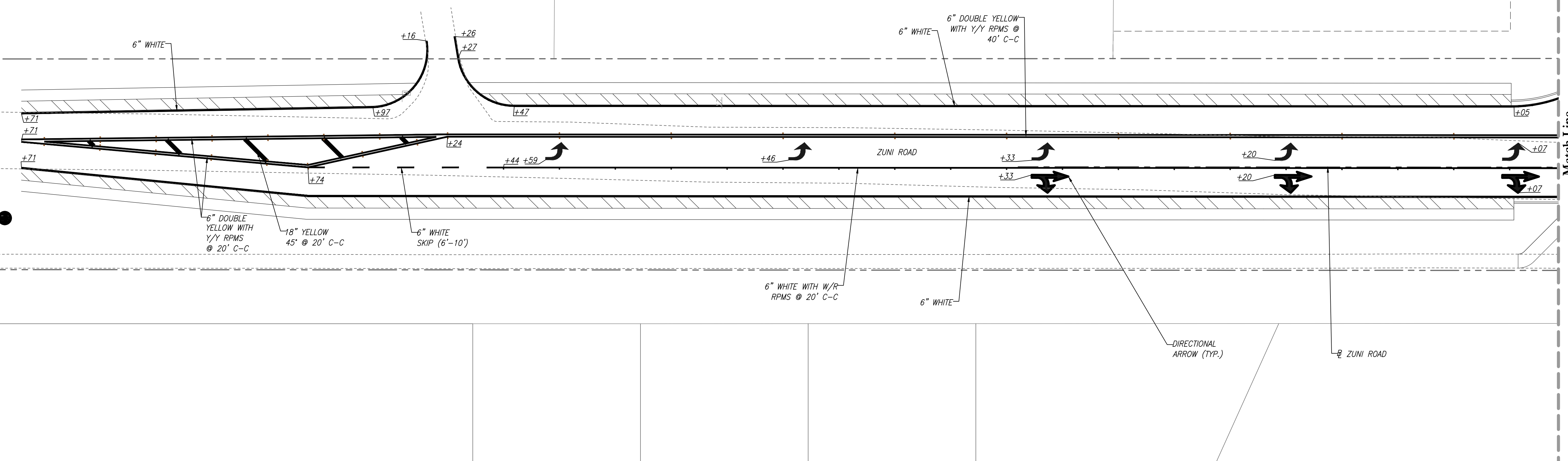
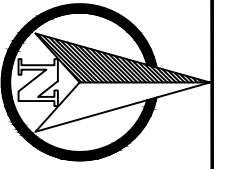
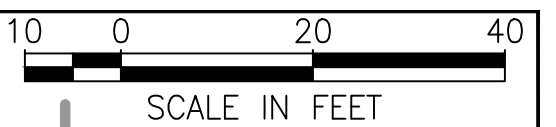
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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

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SIGNING AND PAVEMENT MARKING

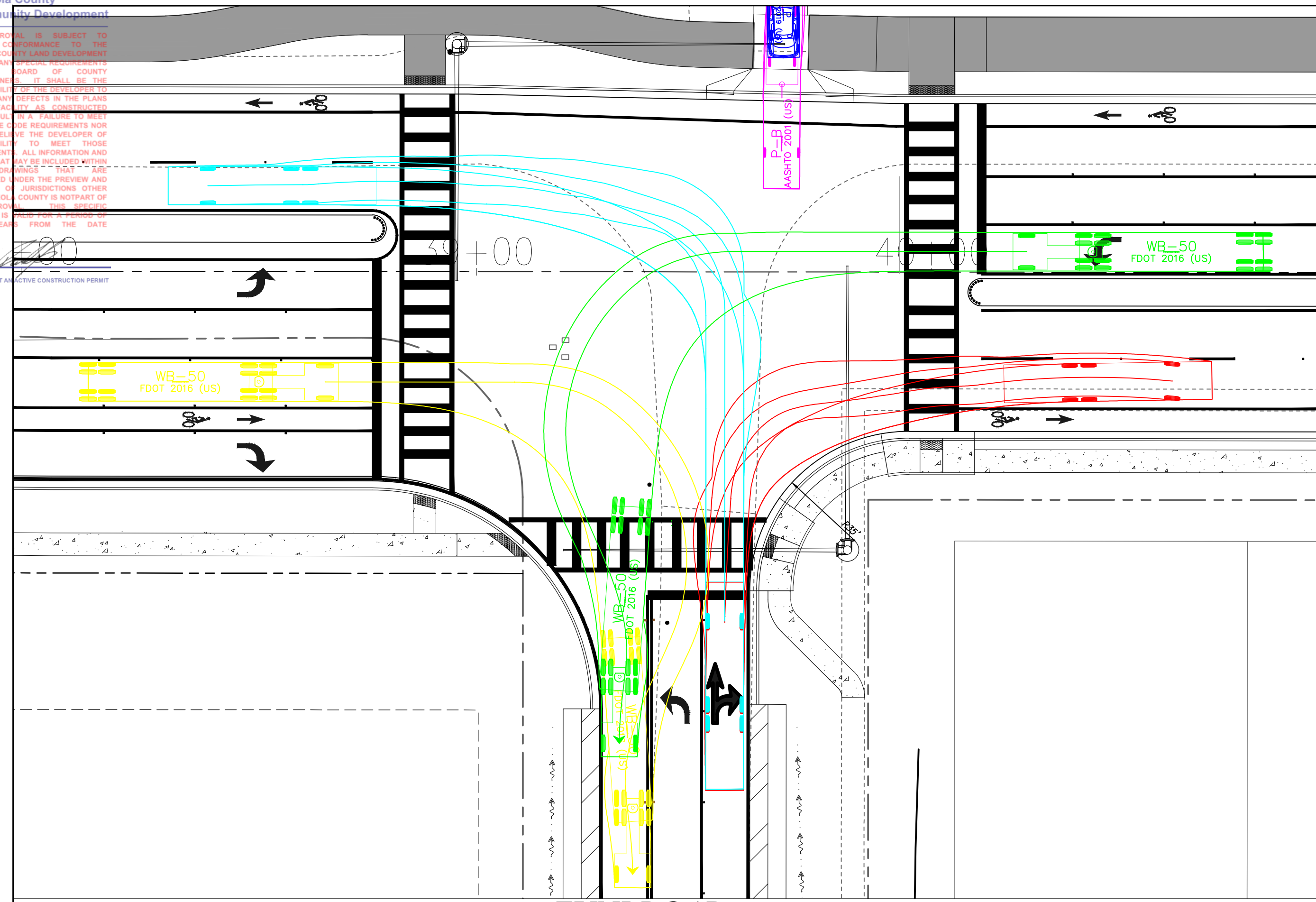
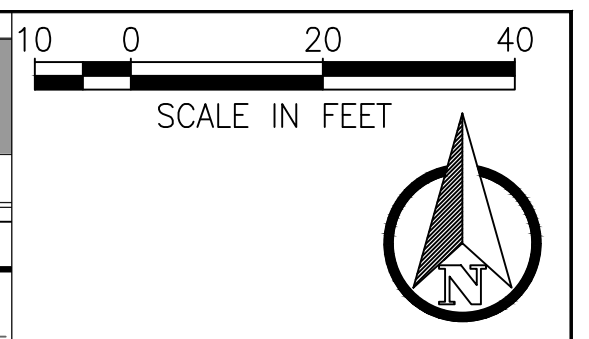
SHEET NO.
184

Z:\2017\17-042 TAVIS/STOCK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-18208-CD&M-SSP

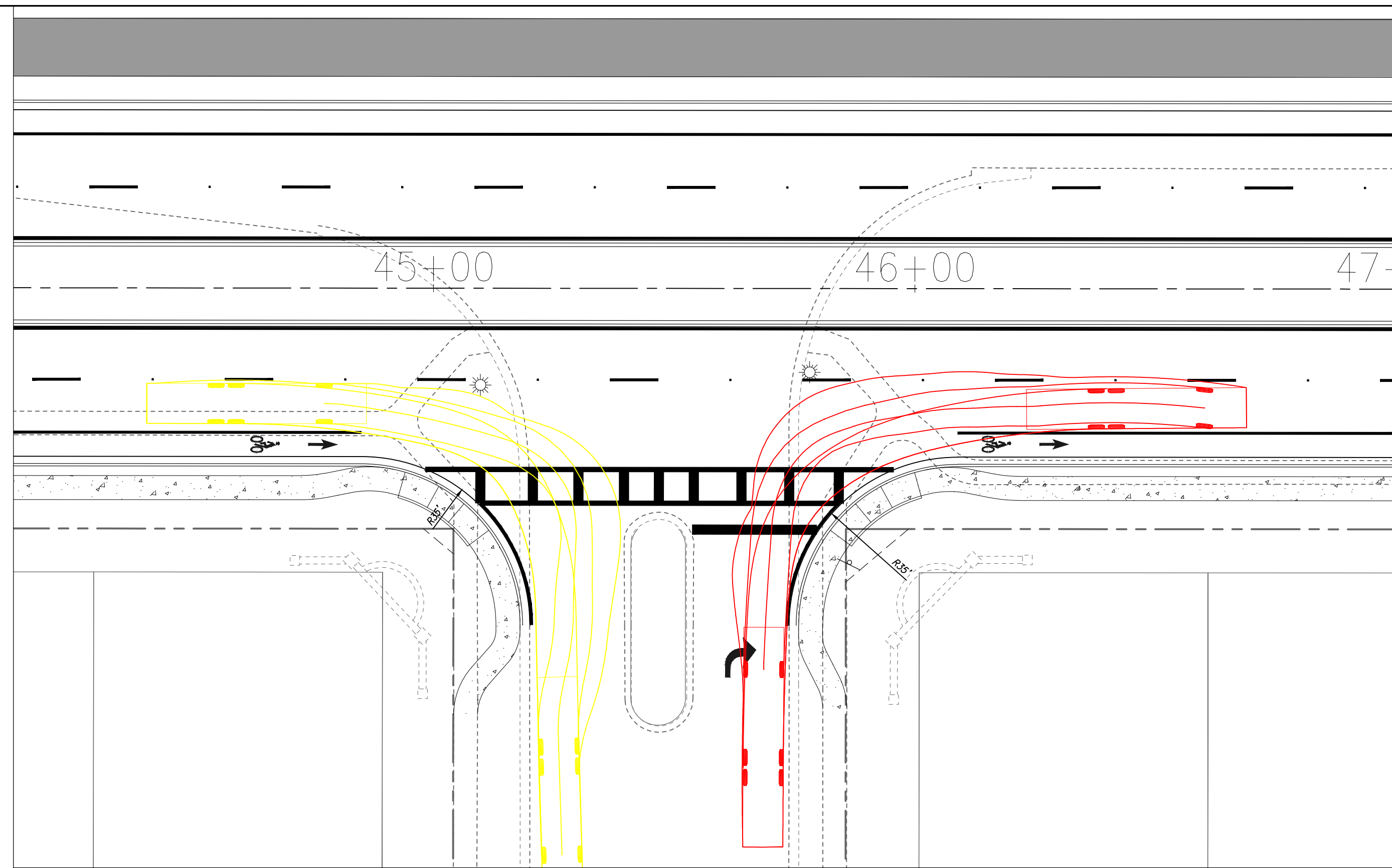
Osceola County
Community Development

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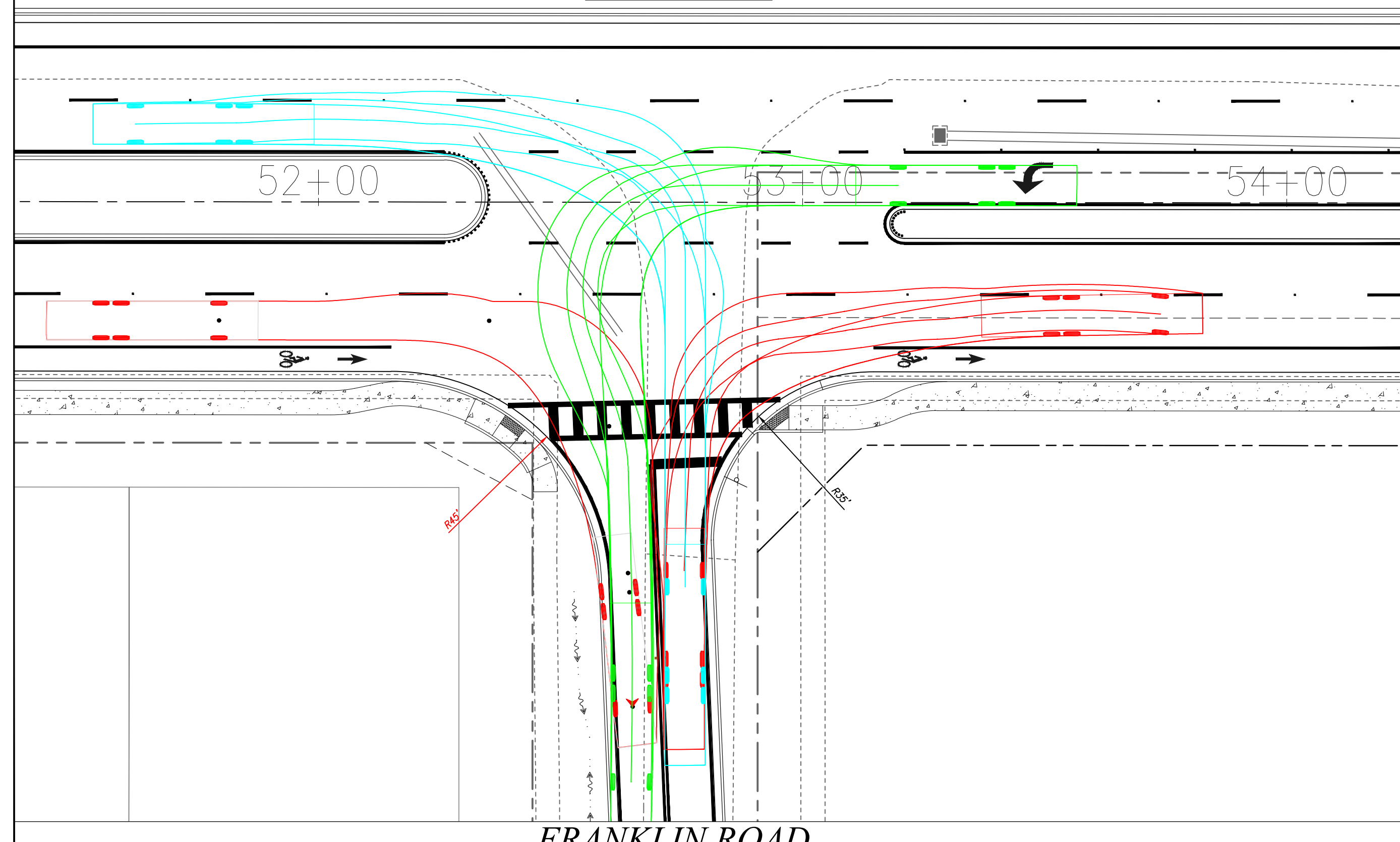
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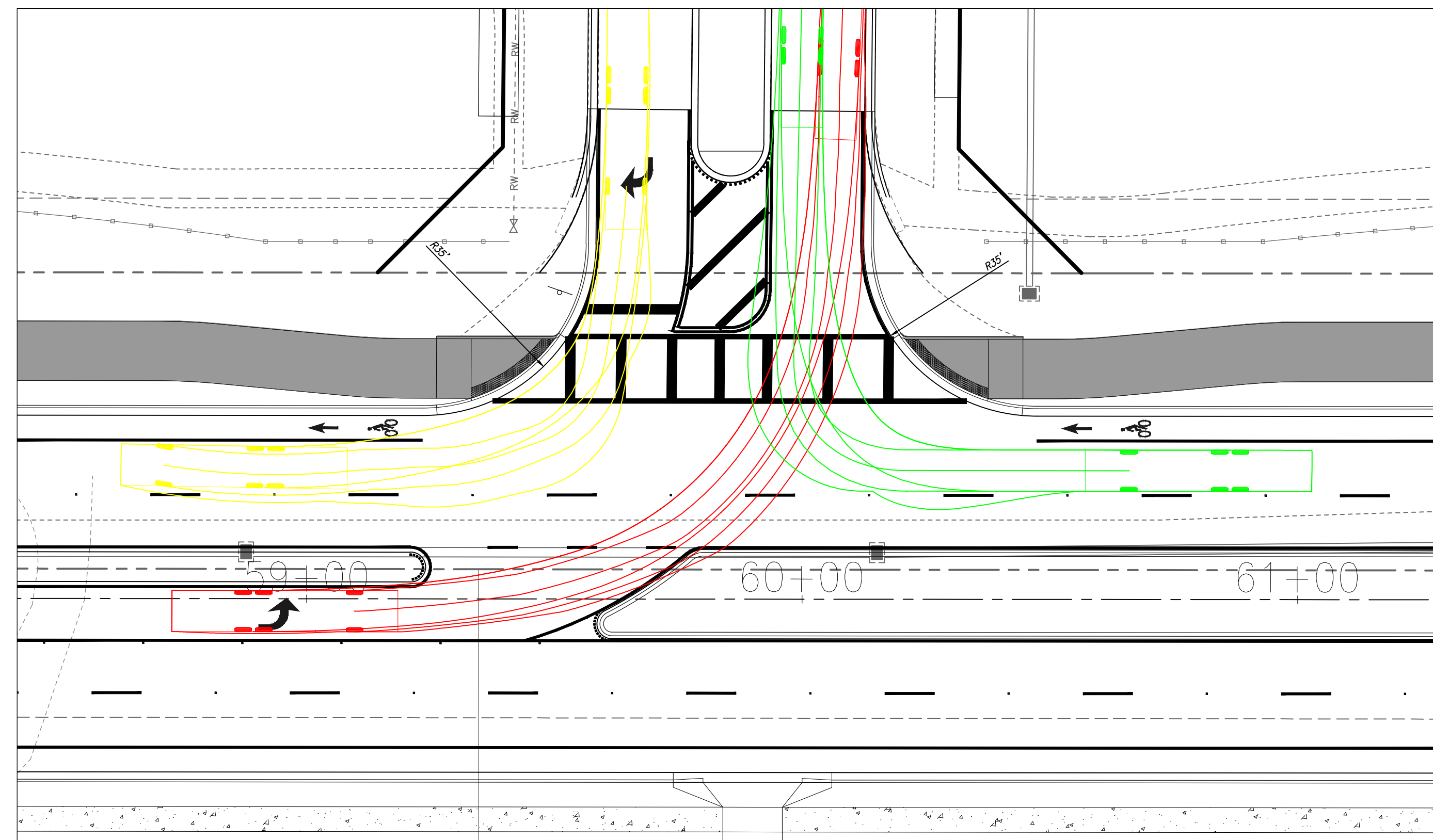
ZUNI ROAD



AVERSA ROAD



FRANKLIN ROAD



ADDISON BOULEVARD

CHRISTINA M. BAXTER
LICENSE
No. 67547
STATE OF FLORIDA
PROFESSIONAL ENGINEER
DATE: September 28, 2023

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Z:\2017\17-042 TAVISOCK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\AUTOTURN ANALYSIS

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PROJECT NO. (SDP23-0132)

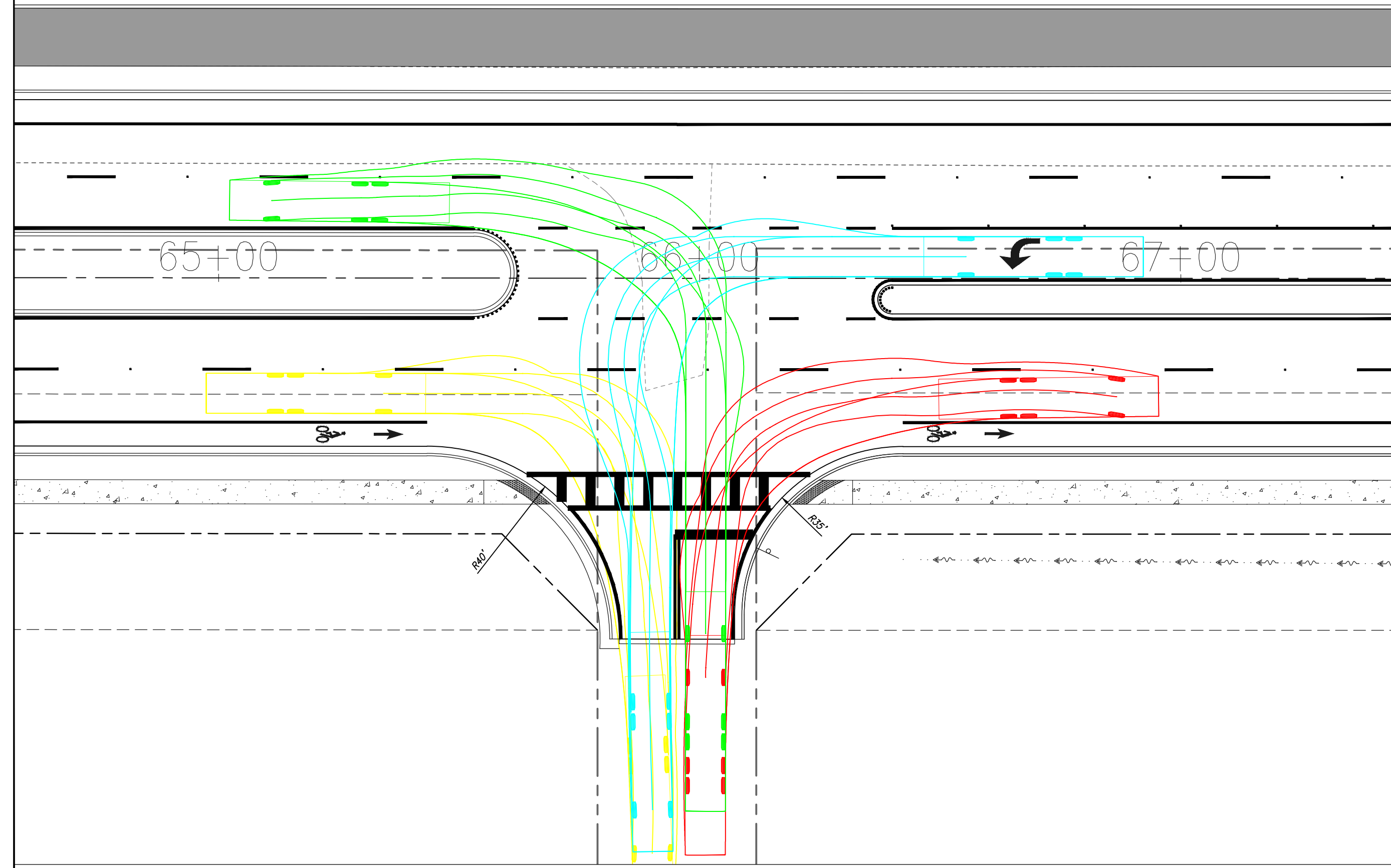
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

AUTOTURN ANALYSIS

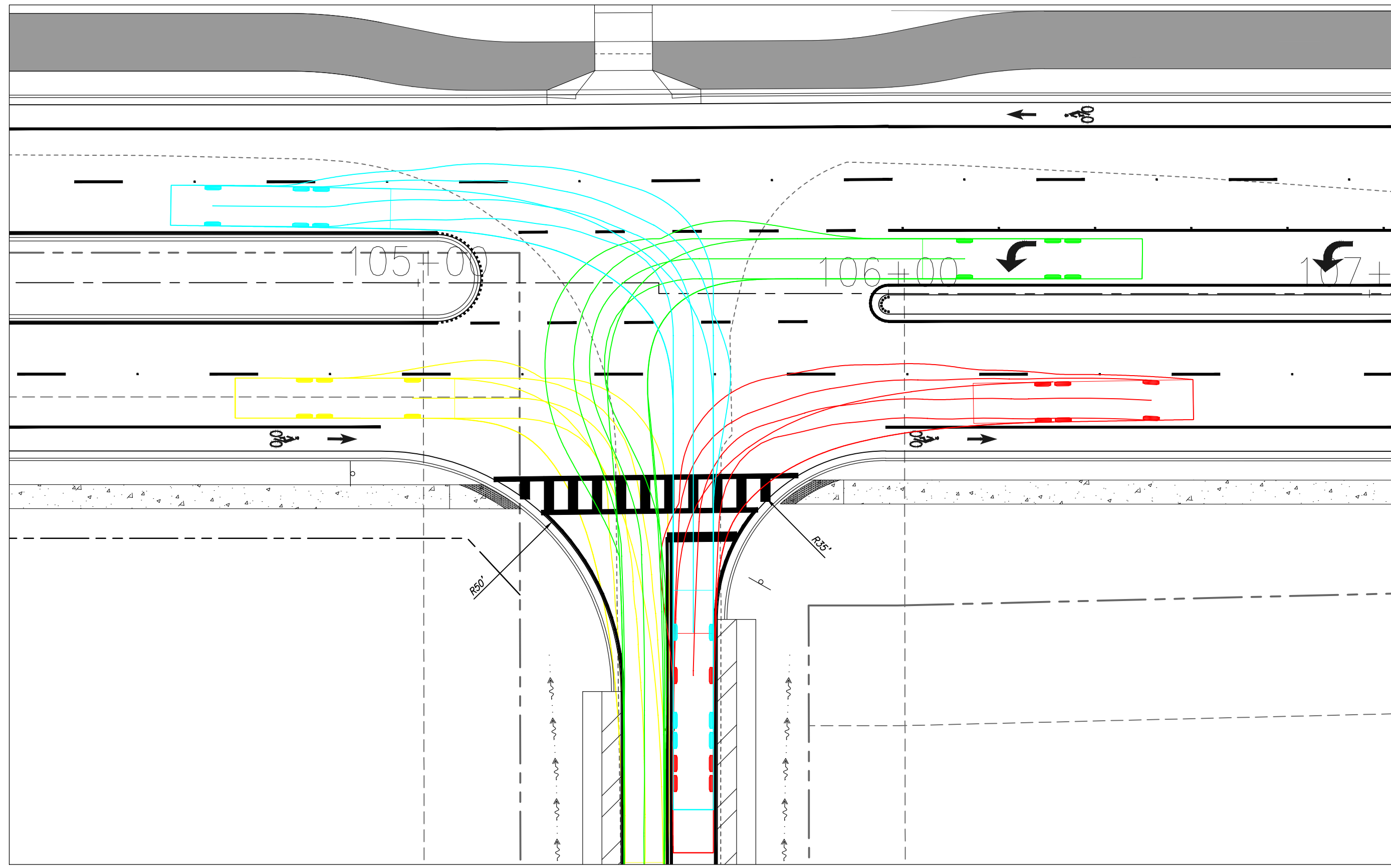
SHEET NO.
185

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FUTURE CONNECTION #1



ABSHER ROAD

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT
Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
AUTOTURN ANALYSIS

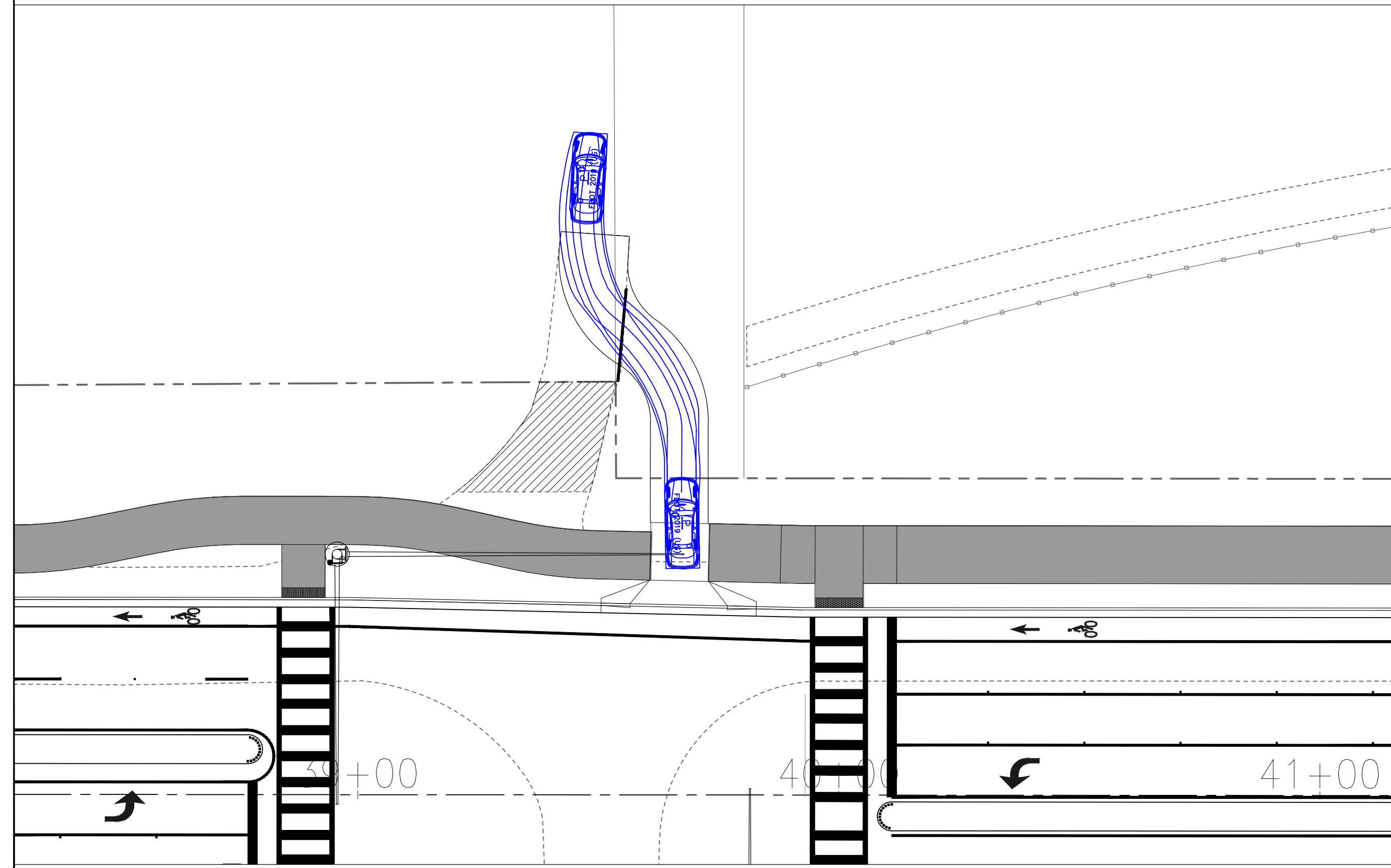
SHEET NO.
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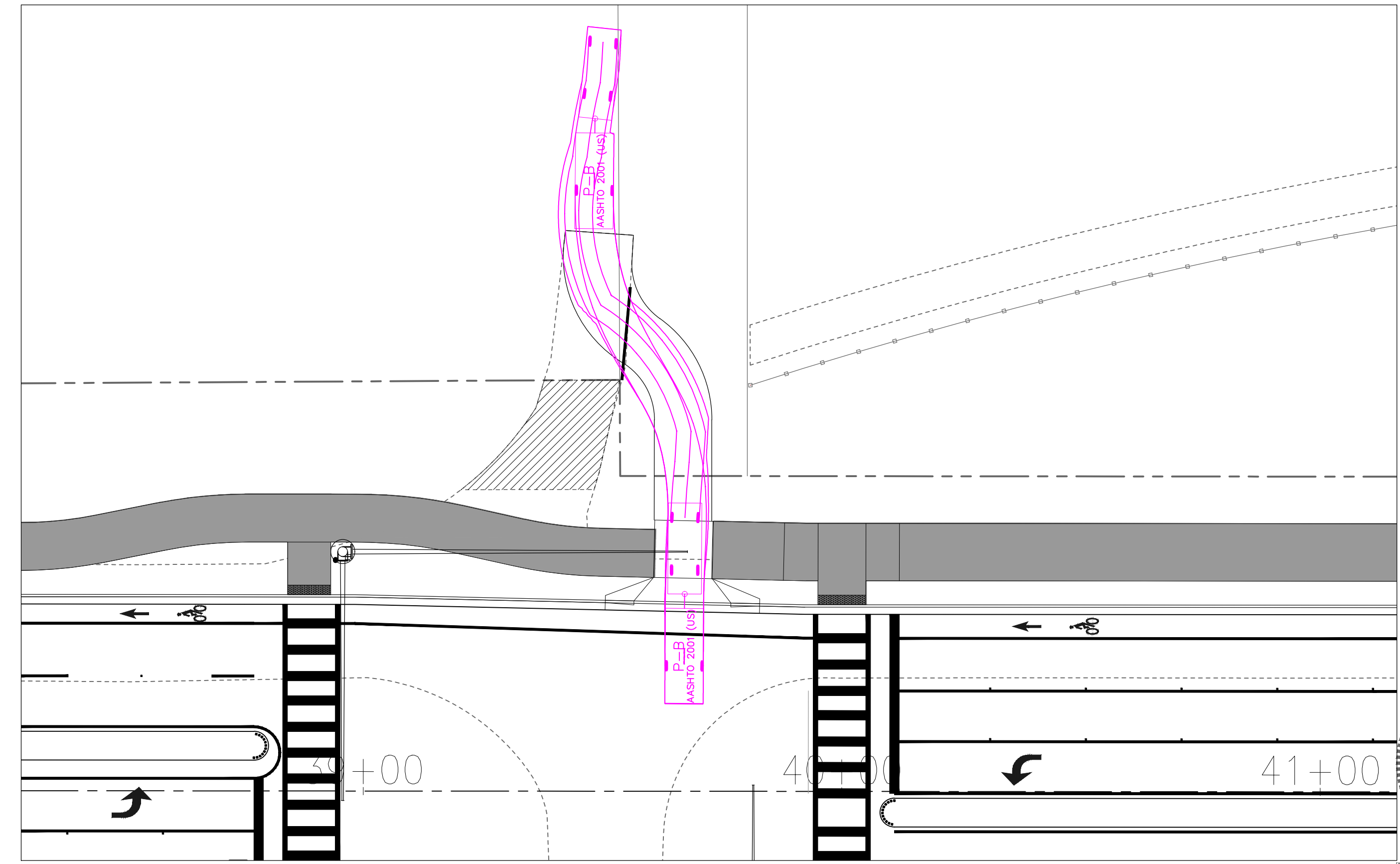
Z:\2017\17-042 TAVIS/STOCK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\AUTOTURN ANALYSIS

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DRIVEWAY #2 - PASSENGER VEHICLE



DRIVEWAY #2 - PASSENGER VEHICLE WITH 20' TRAILER

CHRISTINA M. BAXTER
LICENSE
No. 67547
STATE OF FLORIDA
PROFESSIONAL ENGINEER
DATE: September 28, 2023

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ABSHER ROAD - ROAD WIDENING
AUTOTURN ANALYSIS

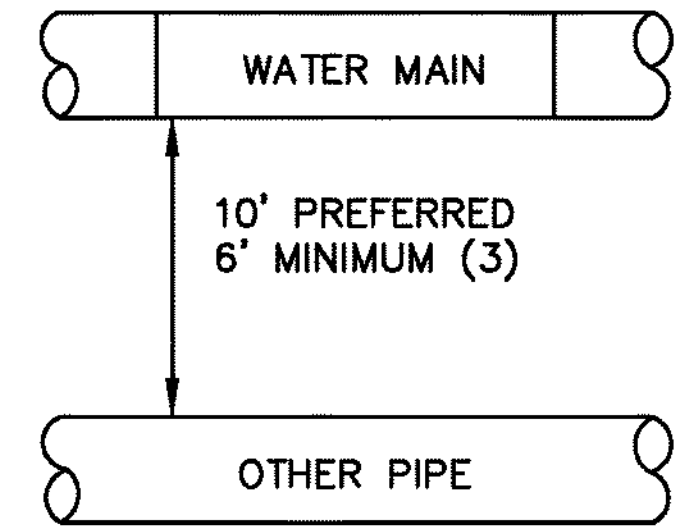
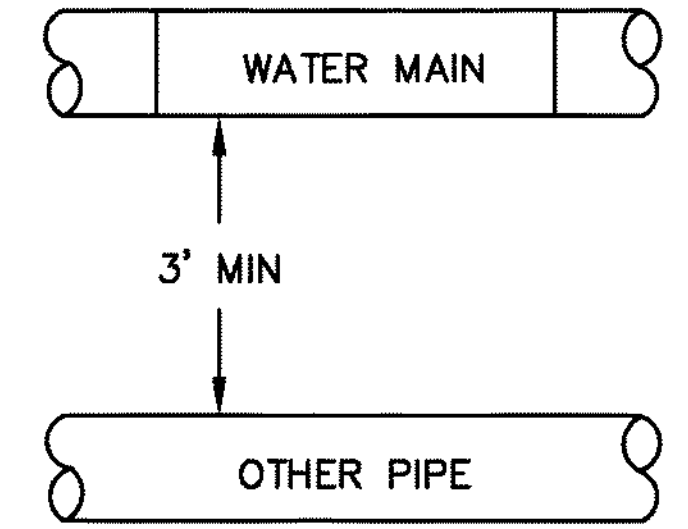
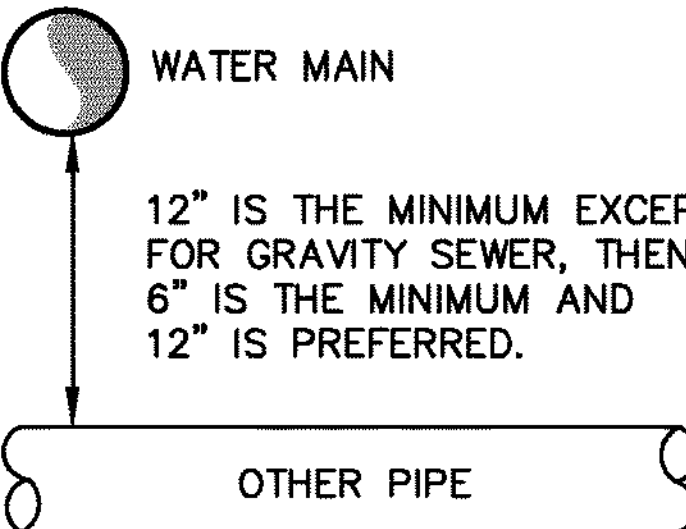
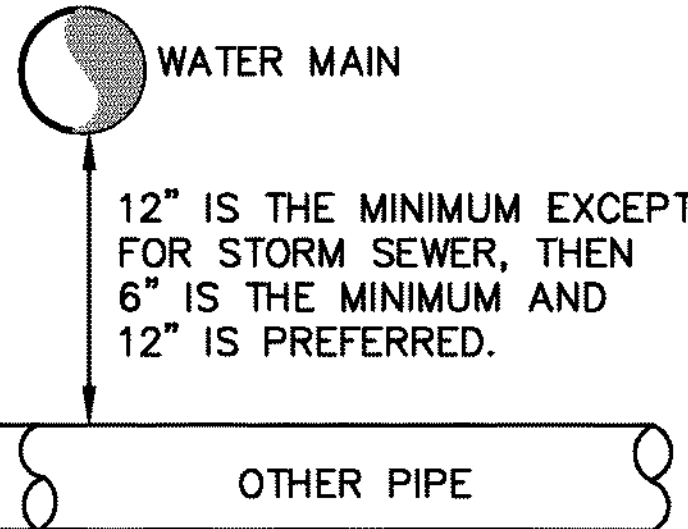
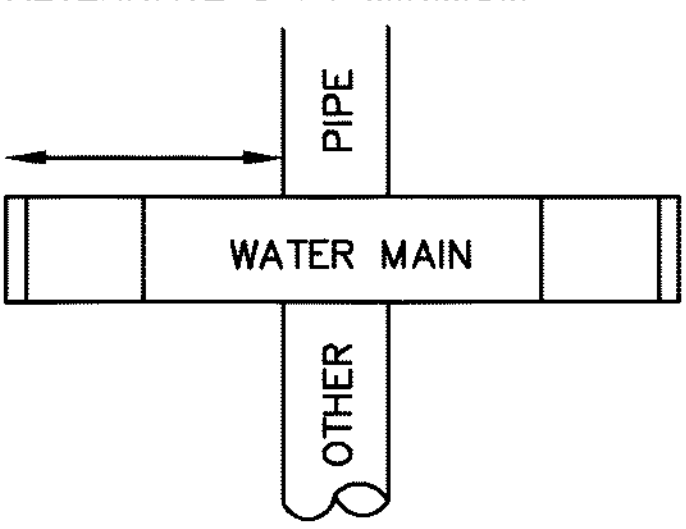
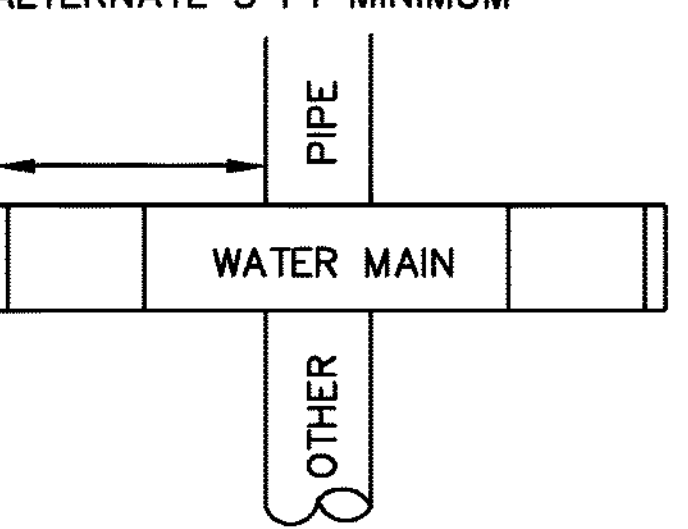
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186A

Z:\2017\17-042 TAMISOCK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\AUTOTURN ANALYSIS

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HORIZONTAL & VERTICAL SEPARATION FROM OTHER UTILITIES

OTHER PIPE	(a) GRAVITY OR PRESSURE SANITARY SEWER (b) SANITARY SEWER FORCE MAIN (c) RECLAIMED WATER (4)	(a) STORM SEWER, (b) STORMWATER FORCE MAIN, (c) RECLAIMED WATER (2)	ON-SITE SEWAGE TREATMENT & DISPOSAL SYSTEM
HORIZONTAL SEPARATION			10' MIN.
CROSSINGS (1)			—
JOINT SPACING AT CROSSINGS (FULL JOINT CENTERED)			—

- (1) WATER MAIN SHOULD CROSS ABOVE OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.
- (2) RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- (3) 3 FT FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.
- (4) RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

PIPING CLEARANCES

TWA-16
2017

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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

TWA DETAILS

SHEET NO.

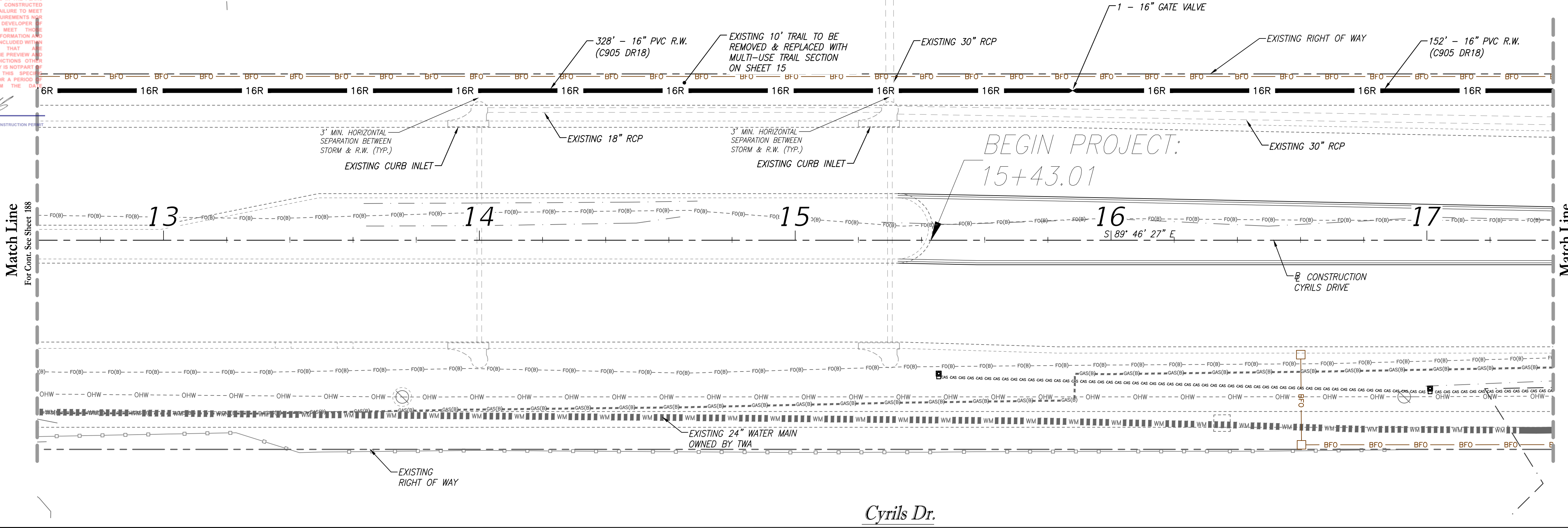
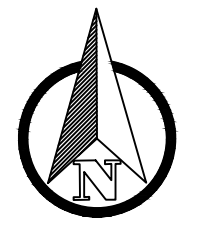
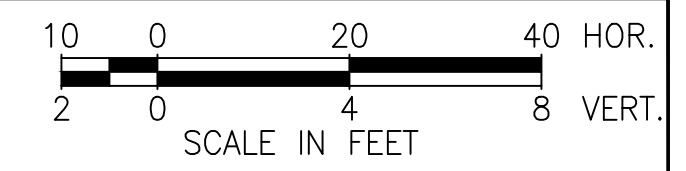
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CHRISTINA M. BAXTER
P.E. NO. 0067547
DATE: September 28, 2023

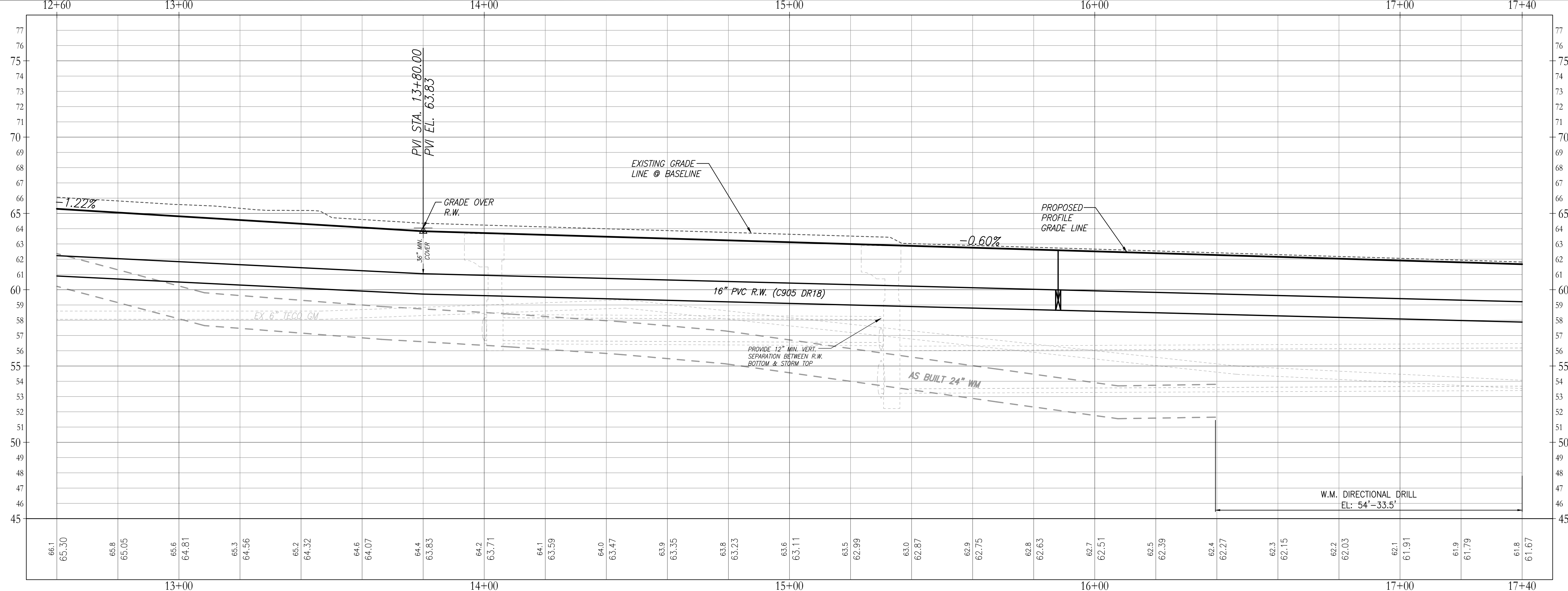
Z:\2017\17-042 TAVIS/STOCK - SUNBRIDGE/CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-18208-CD&M-TW0115

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- NOTES:**
1. PROPOSED LANDSCAPE SHALL BE A MINIMUM OF 5' HORIZONTAL SEPARATION FROM THE ROOT BALLS OF TREES TO TWA MAINTAINED UTILITIES.
 2. ALL PROPOSED POLES (SIGN, TRAFFIC, LIGHT, POWER) SHALL MAINTAIN A MINIMUM 10' HORIZONTAL SEPARATION FROM ALL TWA PROPOSED UTILITIES. IF THERE ARE CONSTRAINTS, TWA SHALL PERMIT A MINIMUM OF 6' OF SEPARATION FROM LIGHT POLES.
 3. MINIMUM COVER OVER REUSE MAINS IS 36". ADEQUATE COVER SHALL BE PROVIDED SO THAT THE TOP OF THE VALVE NUTS ARE MINIMUM 18" BELOW FINISHED GRADE. CONTRACTOR TO CONFIRM MINIMUM DEPTH AT ALL VALVES BASED ON CONTRACTOR'S SELECTED MATERIAL MANUFACTURER SPECIFICATIONS. CONTRACTOR SHALL PROVIDE ALL FITTINGS AND/OR PIPE DEFLECTIONS TO MEET COVER REQUIREMENTS PER TWA STANDARDS.
 4. GAS MAIN HORIZONTAL LOCATION IS SHOWN IN PLAN VIEW PER SURVEY INFORMATION COLLECTED BY ATLANTIC SURVEYING IN JUNE 2023. THE GAS MAIN INFORMATION SHOWN IN PROFILE VIEW IS BASED ON THE TECO DESIGN LEVEL GAS MAIN PLANS (NO AS-BUILT DATA WAS PROVIDED BY TECO). SOFT DIG VERTICAL SURVEY INFORMATION PROVIDED AT DESIGNATED CONFLICT AREAS BY ATLANTIC SURVEYING (SEE UTILITY ADJUSTMENT SHEETS FOR SOFT DIG INFORMATION). CONTRACTOR TO FIELD VERIFY GAS MAIN LOCATION AT CROSSINGS & POINTS OF CONFLICT AND NOTIFY P&B OF ANY AREAS OF CONCERN.



Z:\2017\17-042 TAVISDOCK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-UPP_RW

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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
RECLAIMED WATER PLAN & PROFILES

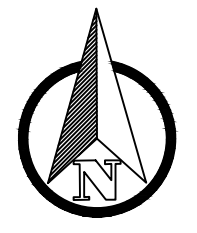
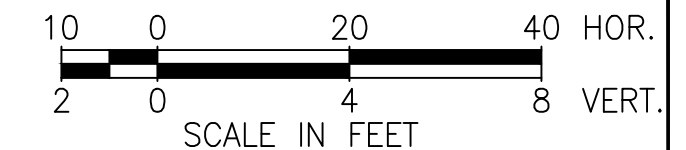
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189



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DATE: September 28, 2023

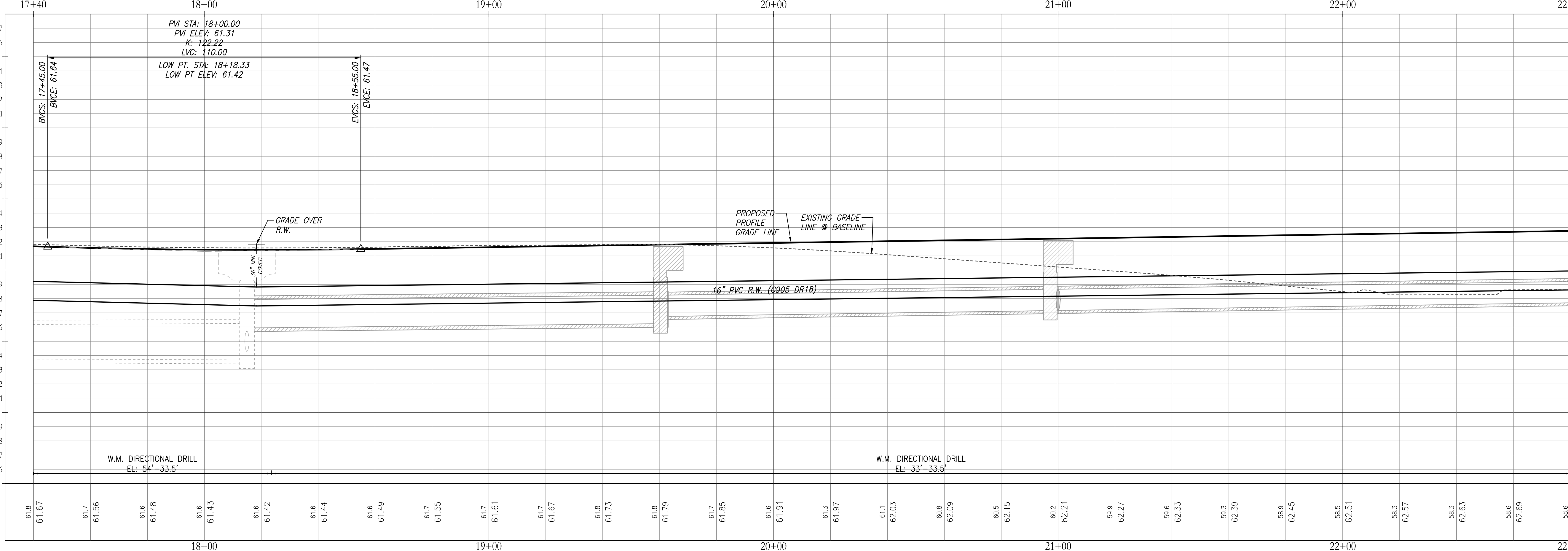
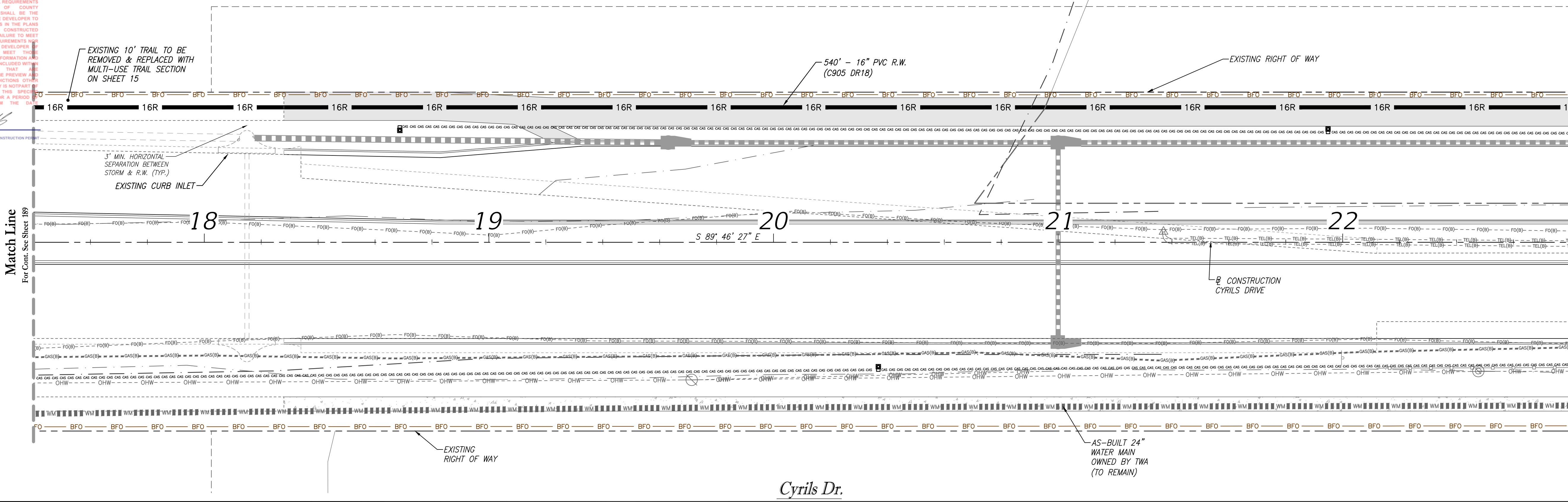
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Match Line
For Cont. See Sheet 189

Match Line
For Cont. See Sheet 191

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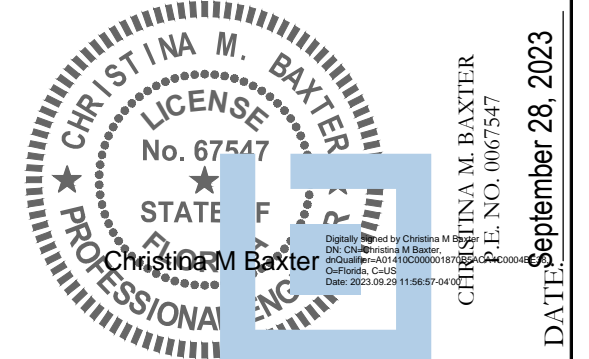
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Tel. 407.487.2594 www.poulosandbennett.com
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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
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RECLAIMED WATER PLAN & PROFILES

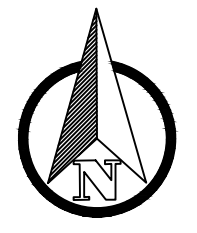
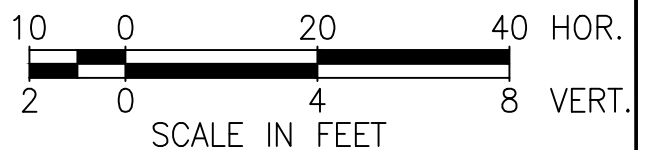
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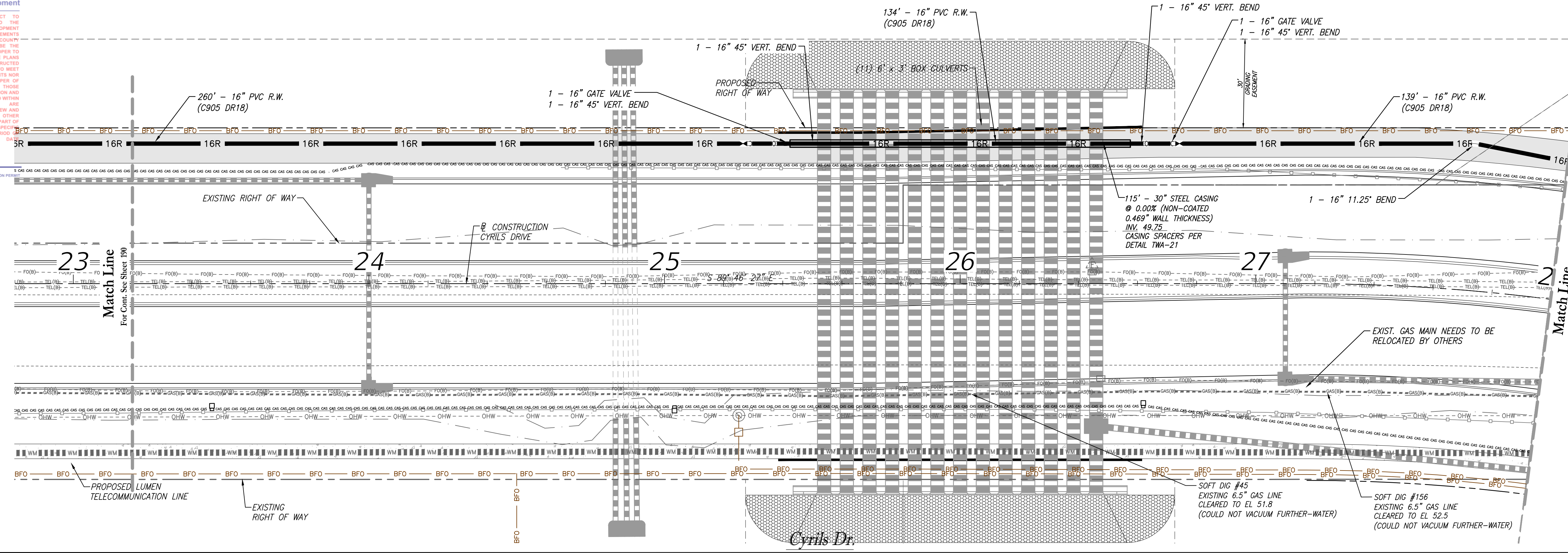
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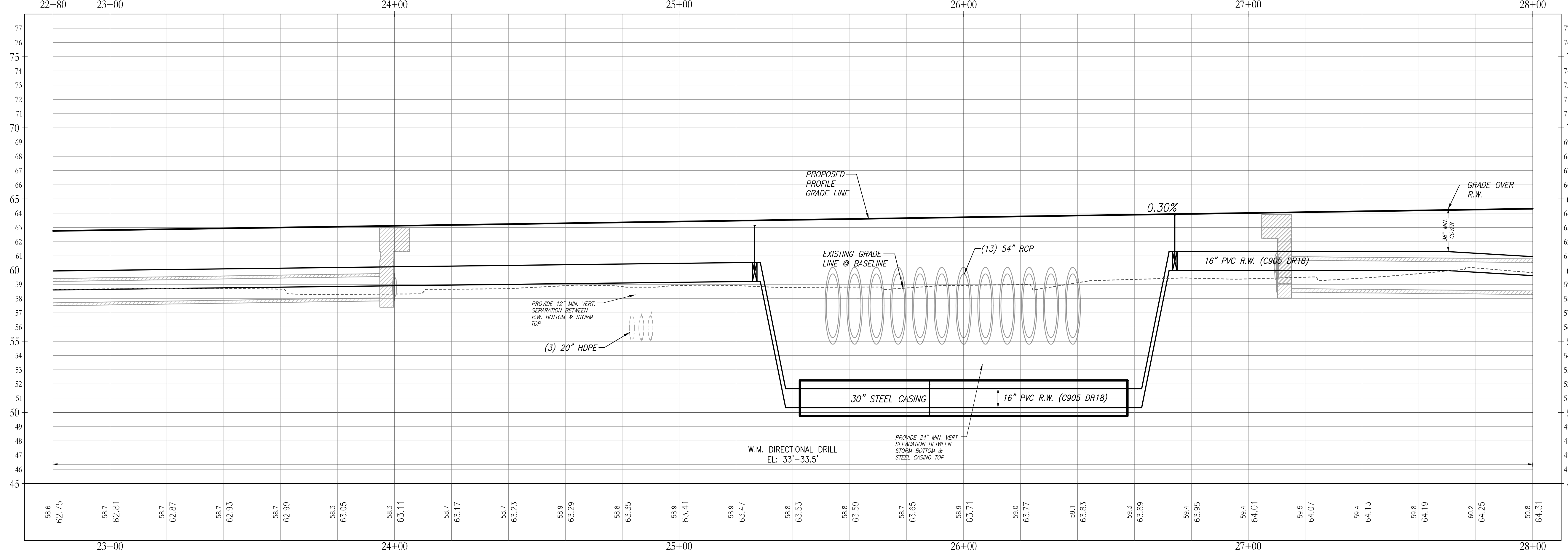
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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
RECLAIMED WATER PLAN & PROFILES

SHEET NO.
191



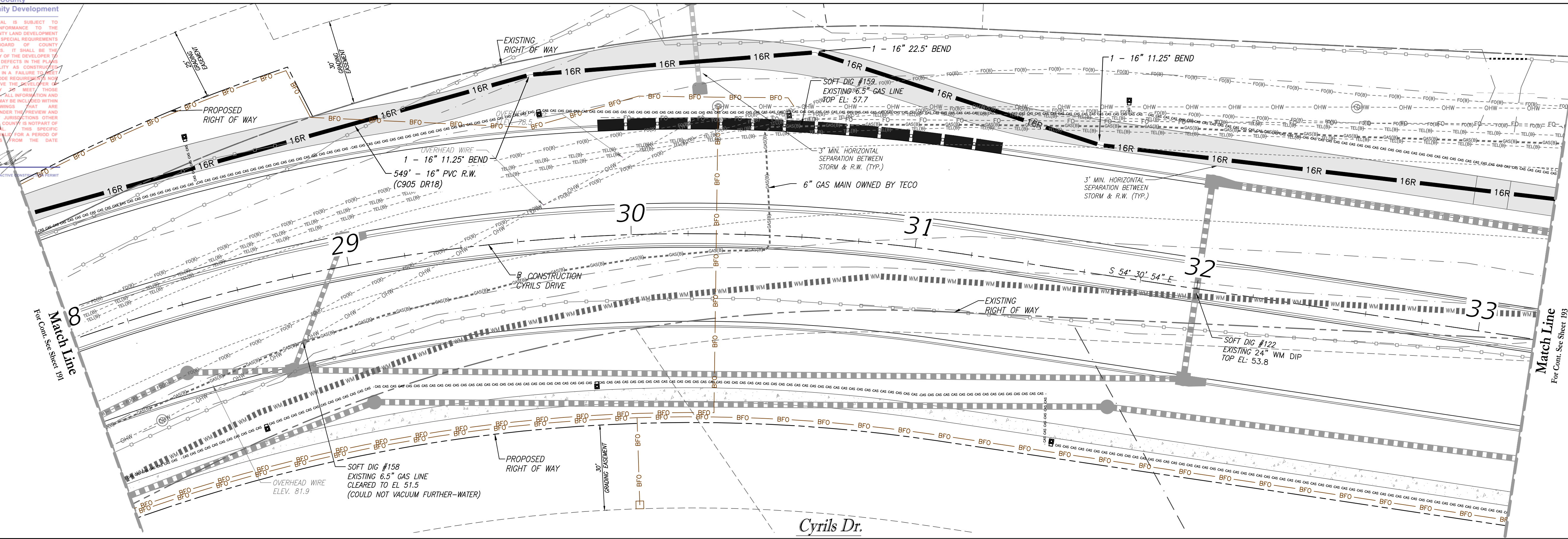
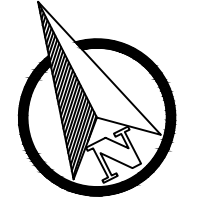
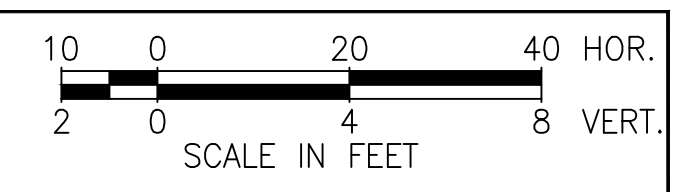
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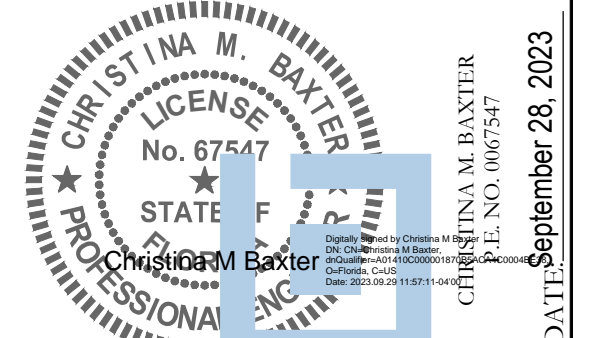
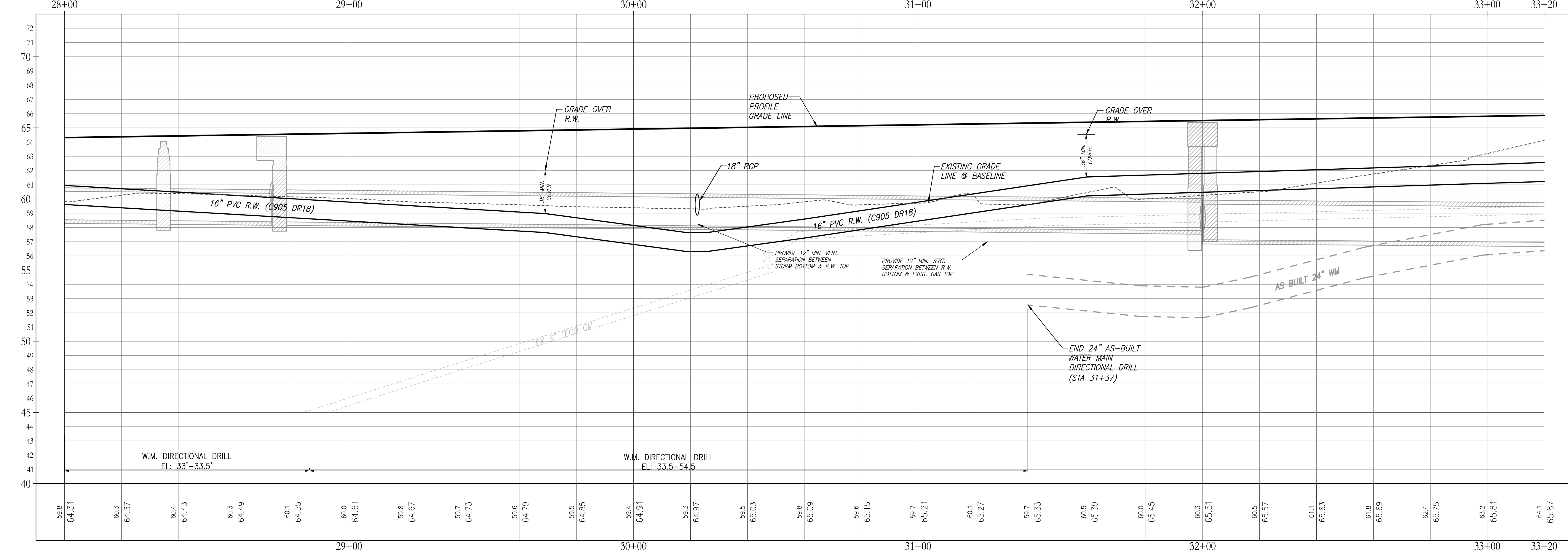
Osceola County
Community Development

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Z:\2017\17-042 TAMISDCK - SUNBRIKE\CYRILS DR\WARCOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-04203-CD&M-UPP_RW

REVISIONS

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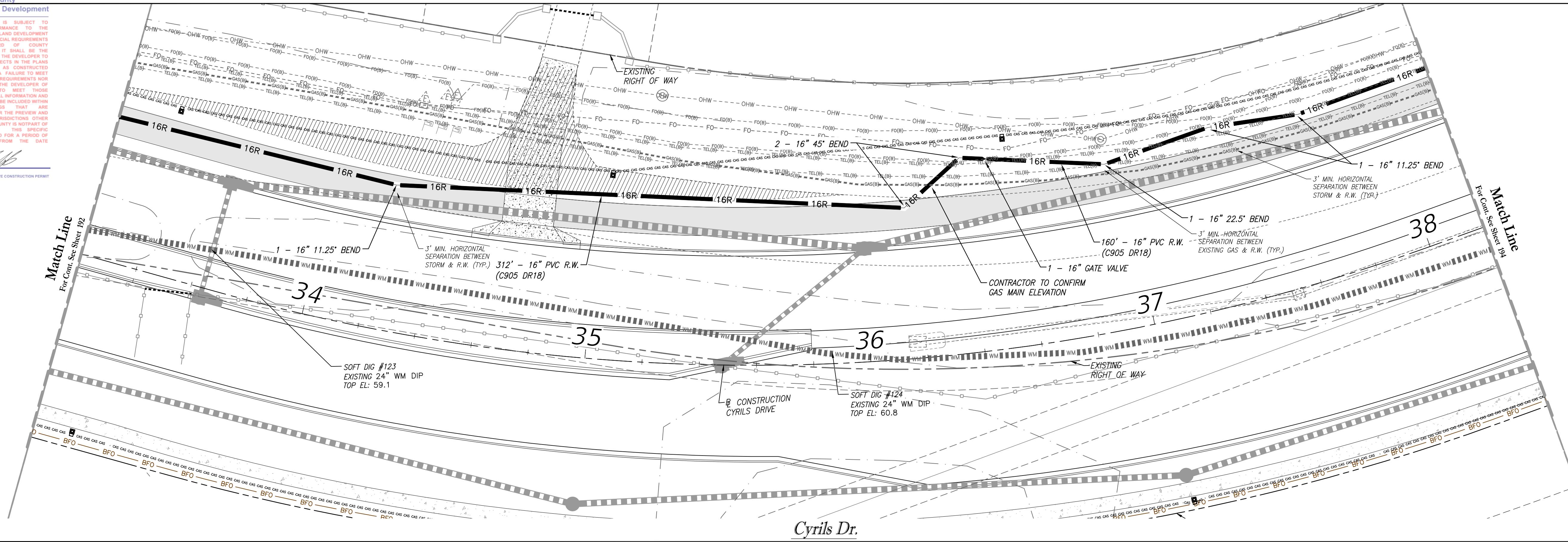
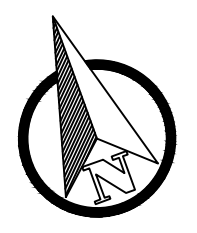
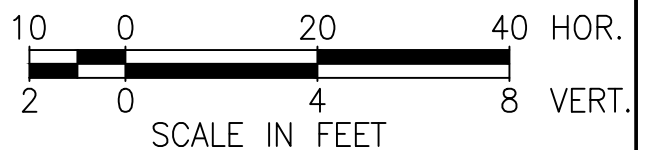
OSCEOLA COUNTY
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RECLAIMED WATER PLAN & PROFILES**

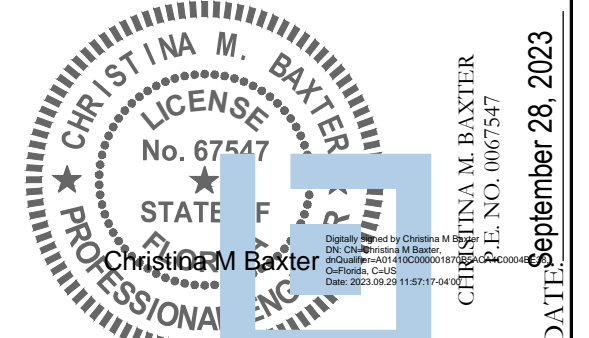
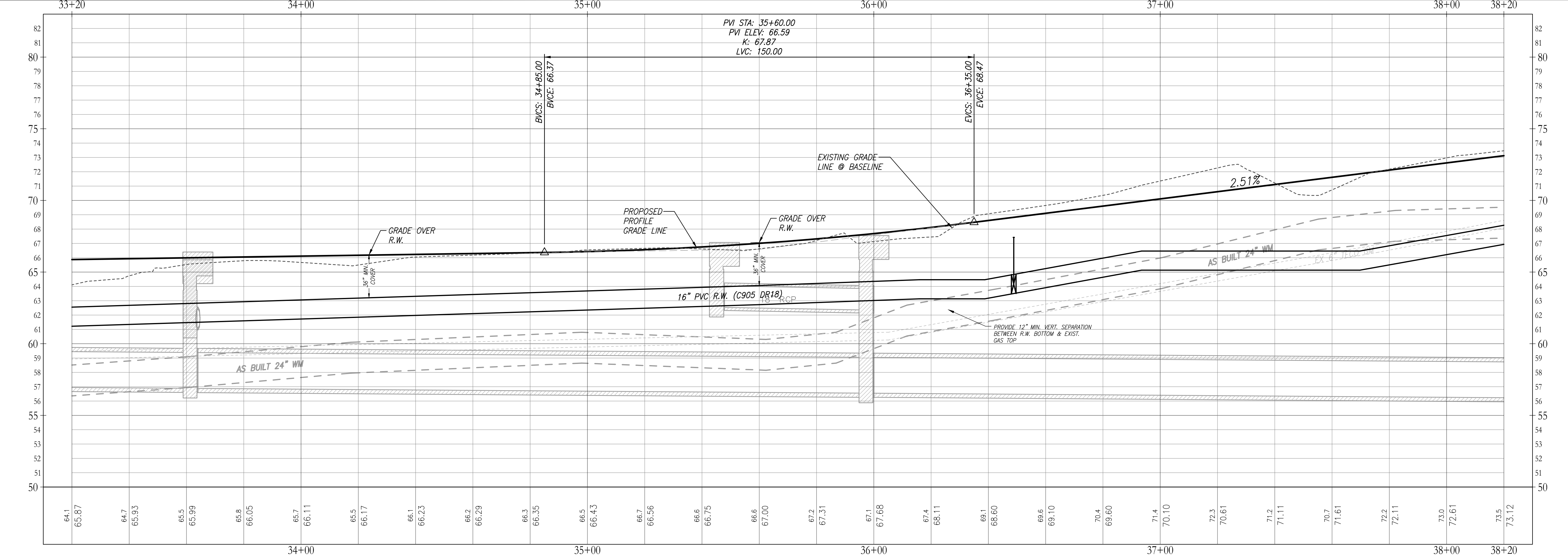
SHEET
NO.
192

THIS APPROVAL IS SUBJECT TO SPECIFIC PERFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE FACILITY AS CONSTRUCTED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS. THE DEVELOPER DOES IT REMAIN THE DEVELOPER OF RESPONSIBILITY TO MEET THESE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE CHANGES THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTIONS OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



- NOTES:**
1. PROPOSED LANDSCAPE SHALL BE A MINIMUM OF 5' HORIZONTAL SEPARATION FROM THE ROOT BALLS OF TREES TO TWA MAINTAINED UTILITIES.
 2. ALL PROPOSED POLES (SIGN, TRAFFIC, LIGHT, POWER) SHALL MAINTAIN A MINIMUM 10' HORIZONTAL SEPARATION FROM ALL TWA PROPOSED UTILITIES. IF THERE ARE CONSTRAINTS, TWA SHALL PERMIT A MINIMUM OF 6' OF SEPARATION FROM LIGHT POLES.
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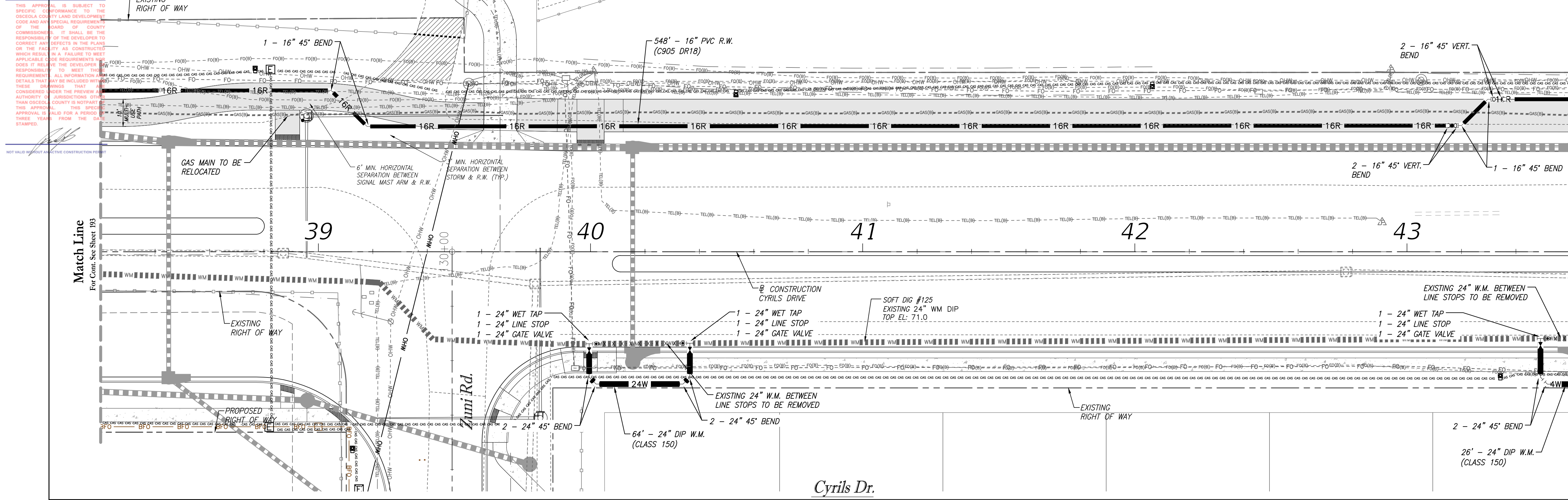
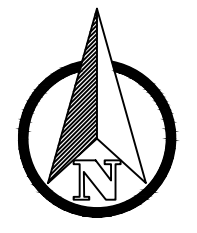
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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

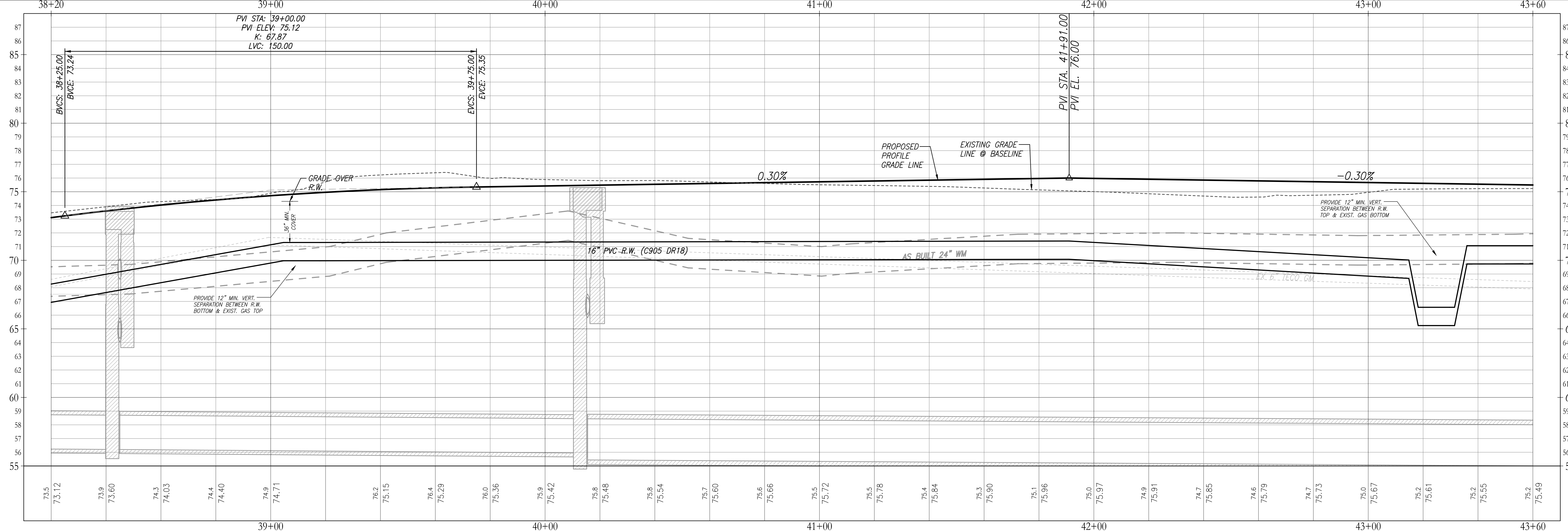
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
RECLAIMED WATER PLAN & PROFILES

SHEET NO.
193

Z:\2017\17-042 TAMISDCK - SUNBRIE/CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-UPP.dwg



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REVISIONS

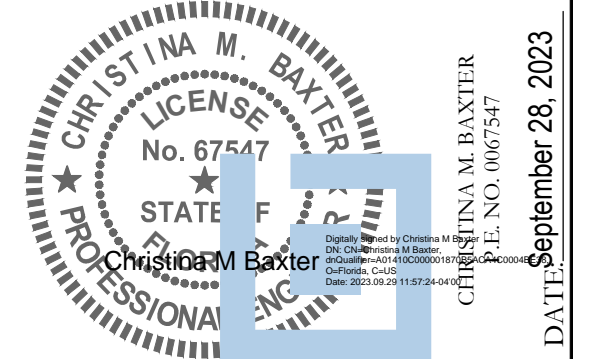
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**OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)**

**CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
RECLAIMED WATER PLAN & PROFILES**

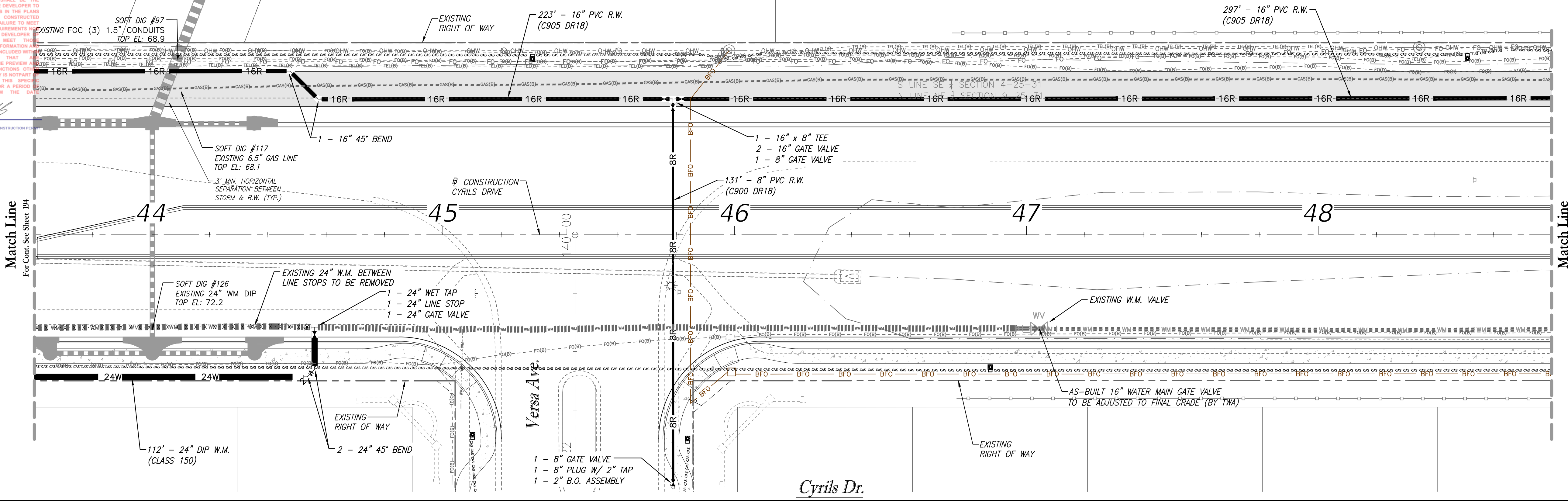
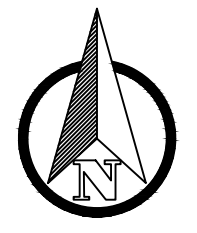
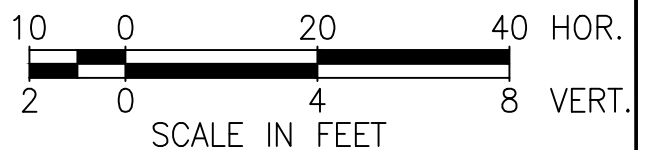
SHEET NO.
194



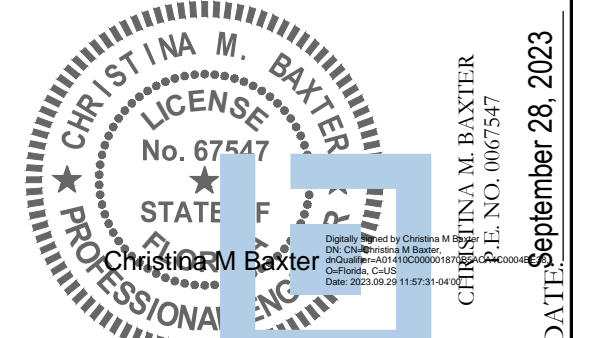
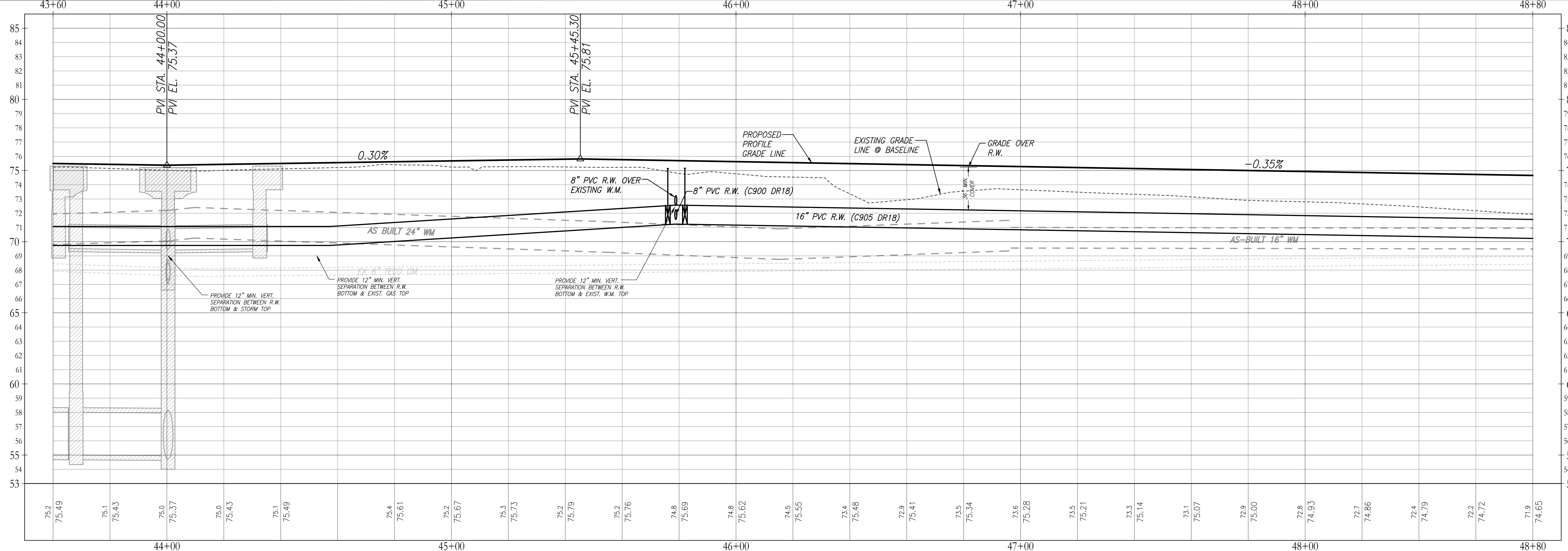
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Z:\2017\17-042 TAVIS/STOCK - SUBMITTALS\CYRILS DR\WARCOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-0203-CD&M-UPP.dwg

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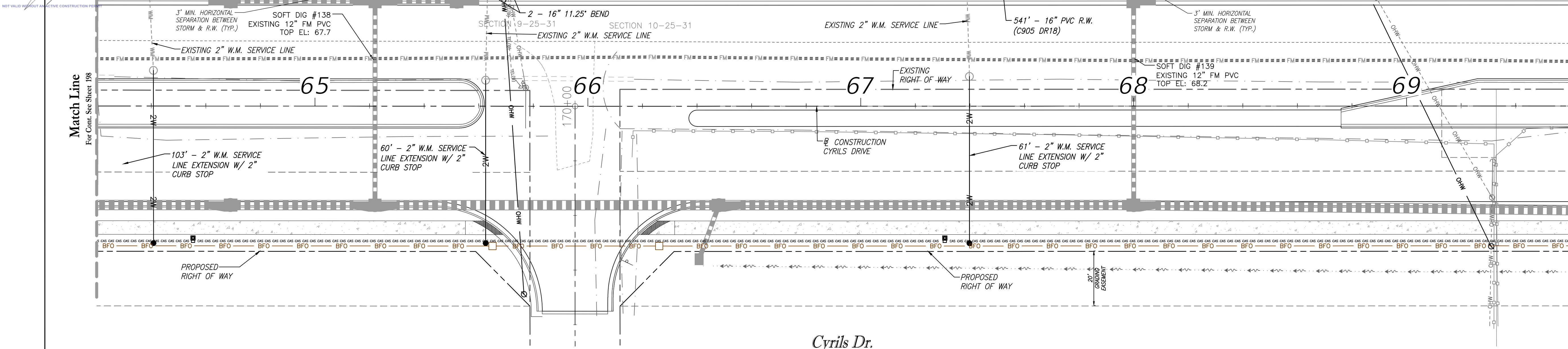
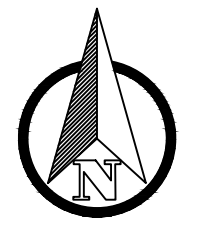
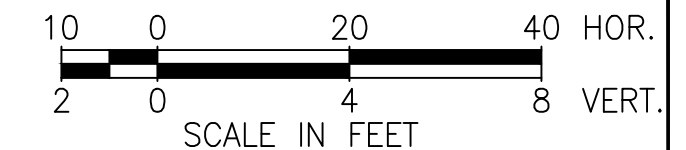
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
RECLAIMED WATER PLAN & PROFILES

SHEET NO.
195

Z:\2017\17-042 TAVIS/DOCK - SUBMITTALS\CYRILS DR\ABSHER\CAD\FINAL\COUNTY\17042-0203-CD&WM-UPP.dwg

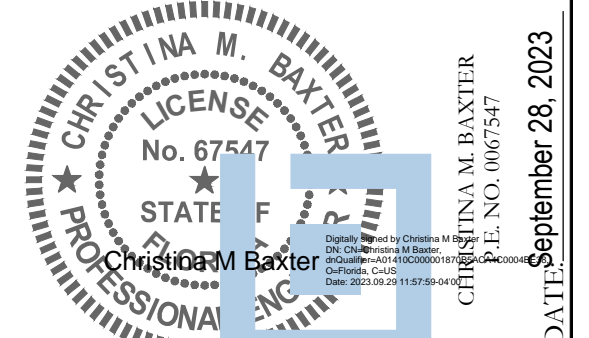
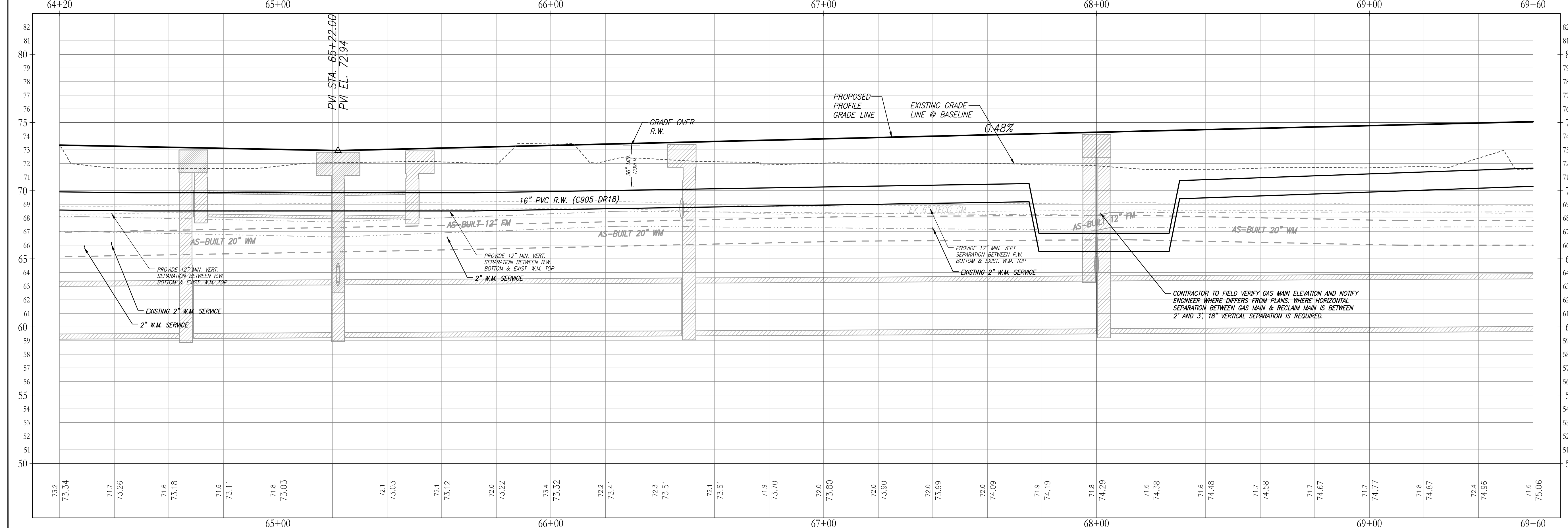
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Match Line
For Cont. See Sheet 200

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Cyrils Dr.



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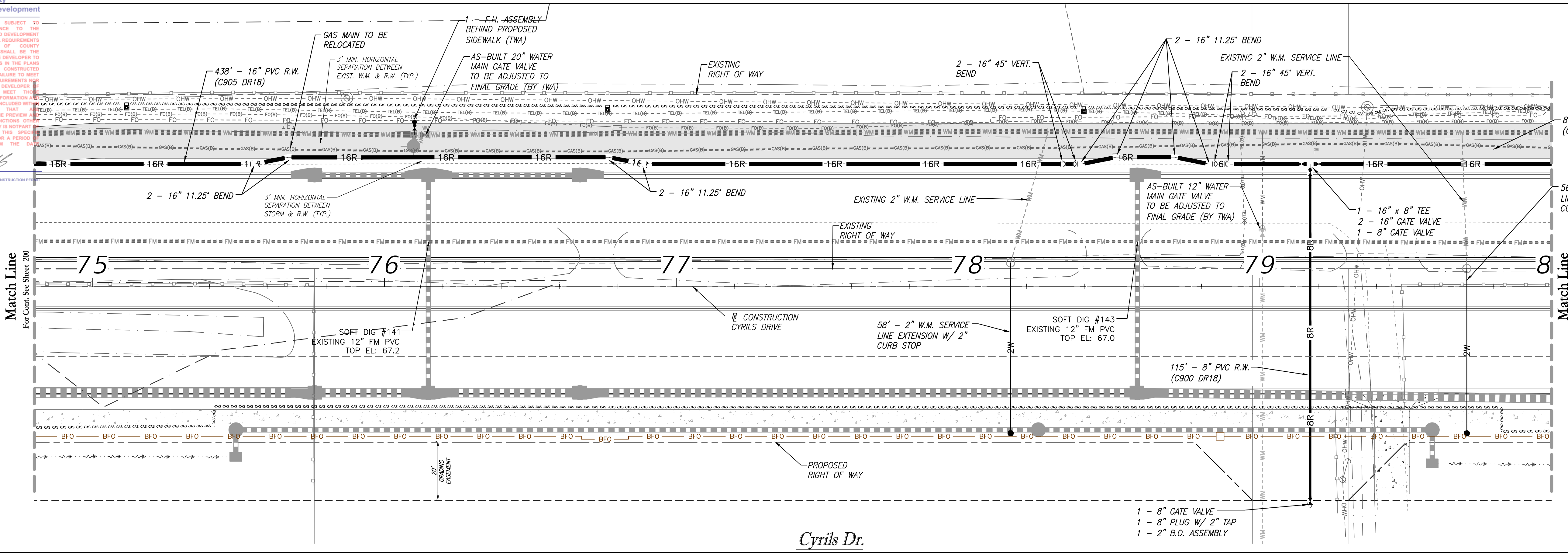
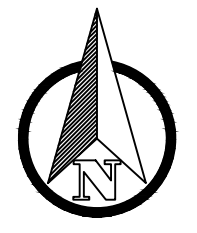
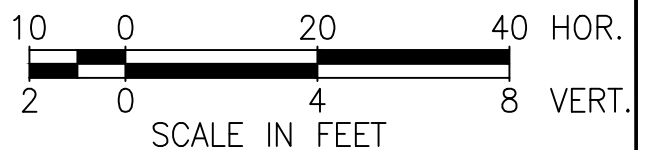
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
RECLAIMED WATER PLAN & PROFILES

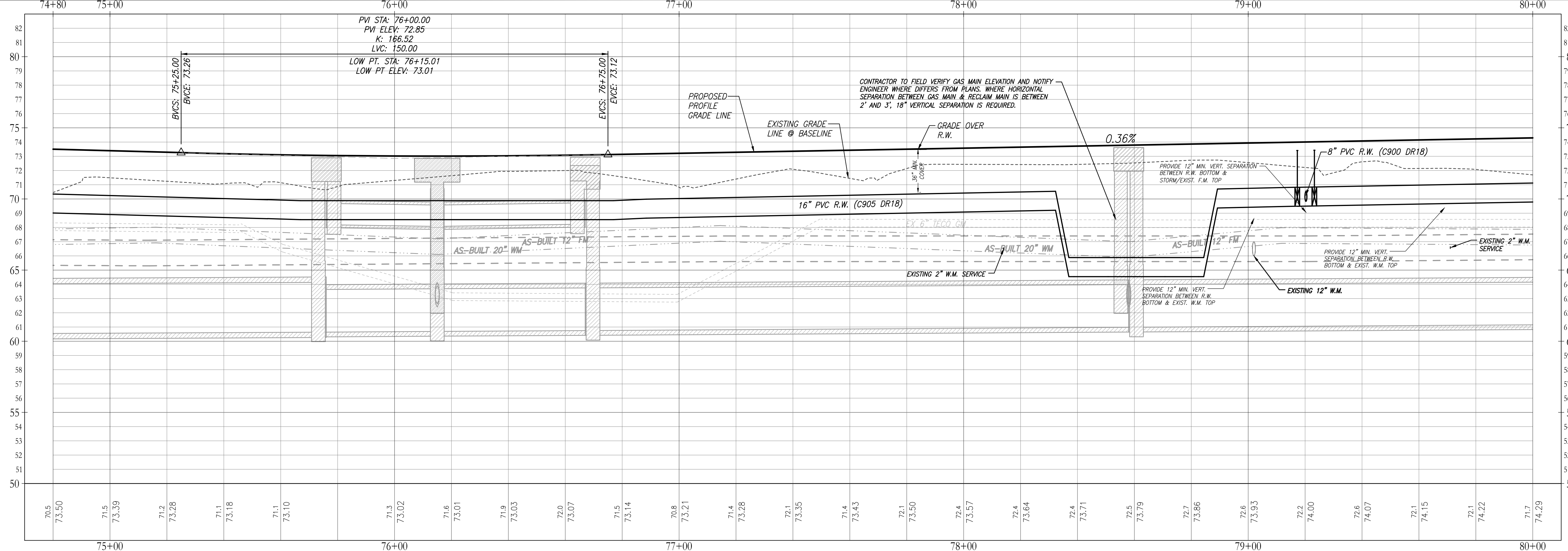
SHEET NO.
199

Z:\2017\17-042 TAMISOCK - SUNBRIE/CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-04203-CD&M-UPP.dwg

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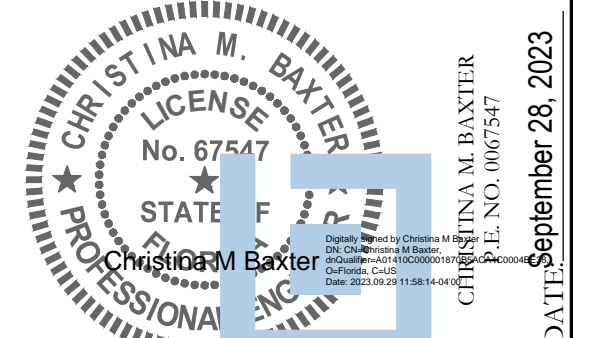
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OSCEOLA COUNTY
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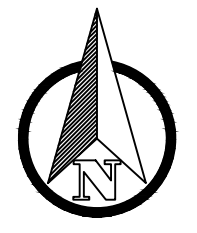
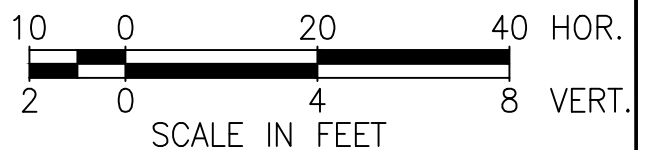
**CYRILS DRIVE / NARCOOSSEE ROAD TO
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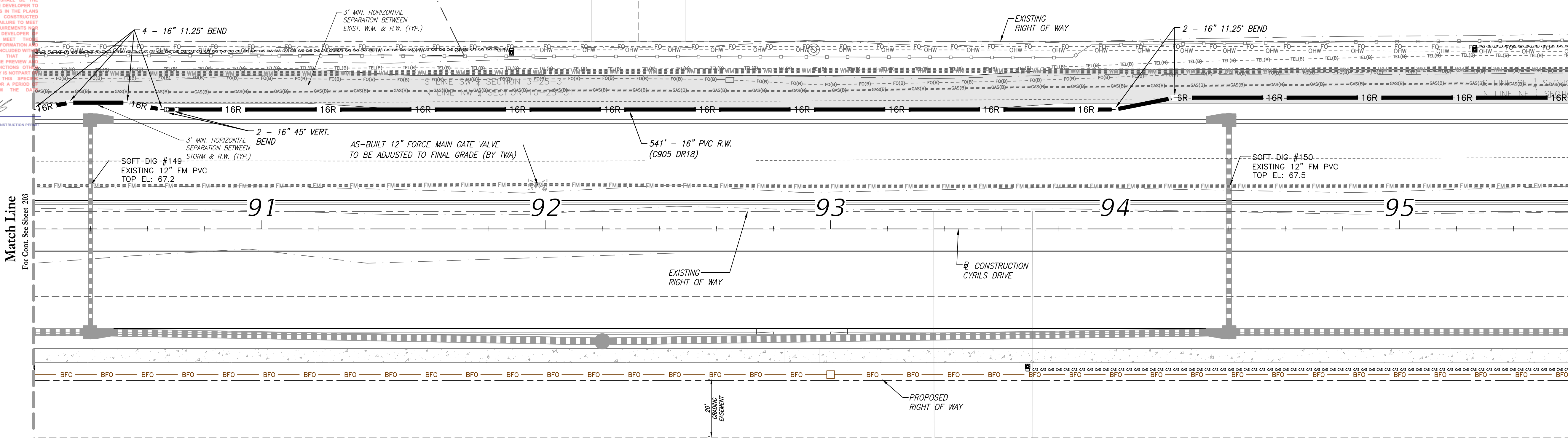
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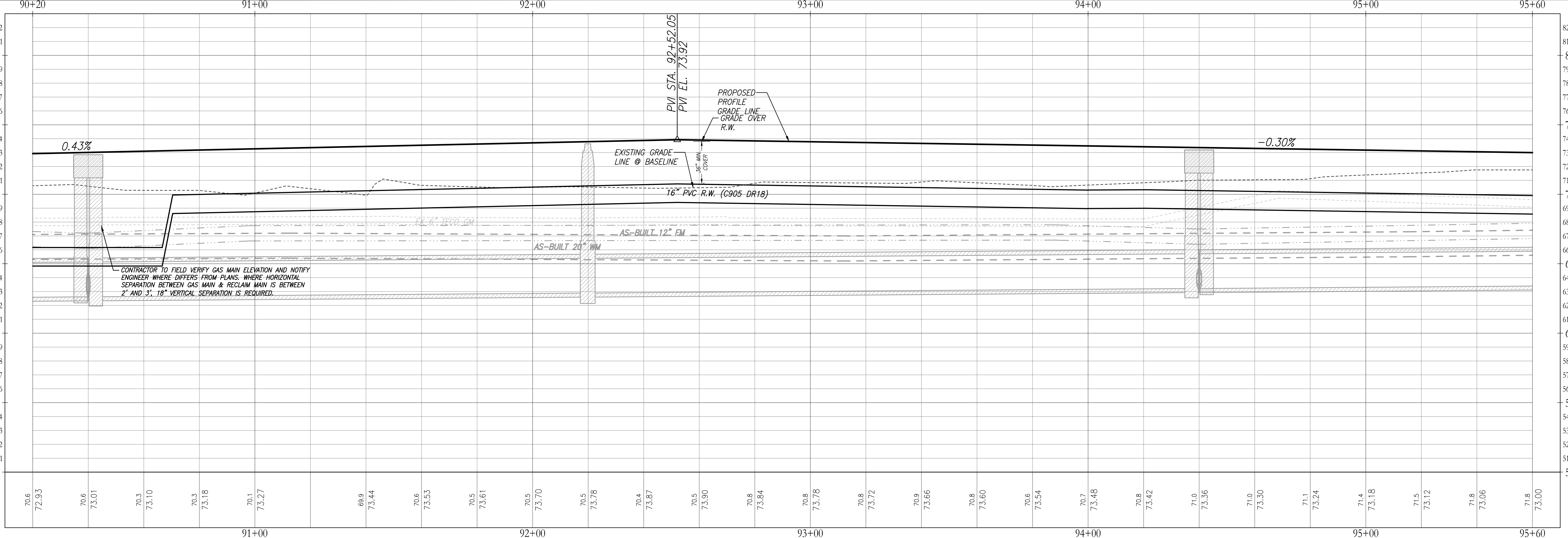
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For Cont. See Sheet 203

Match Line
For Cont. See Sheet 205

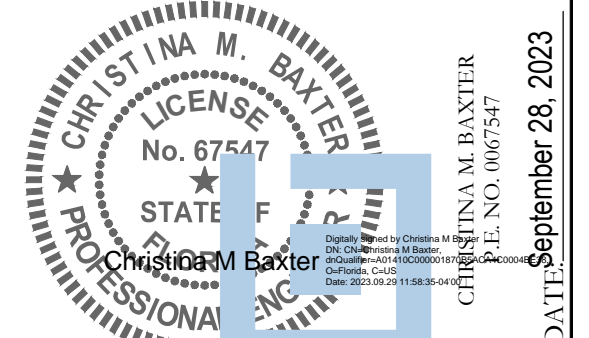
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Cyrils Dr.



CONTRACTOR TO FIELD VERIFY GAS MAIN ELEVATION AND NOTIFY ENGINEER WHERE DIFFERS FROM PLANS. WHERE HORIZONTAL SEPARATION BETWEEN GAS MAIN & RECLAIM MAIN IS BETWEEN 2' AND 3', 18" VERTICAL SEPARATION IS REQUIRED.



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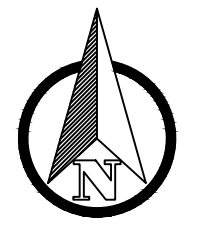
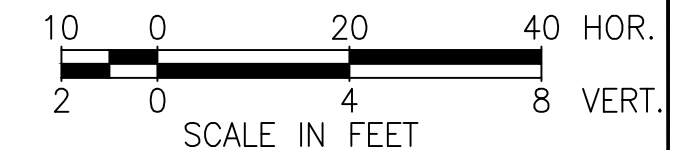
OSCEOLA COUNTY
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CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
RECLAIMED WATER PLAN & PROFILES

SHEET NO.
204

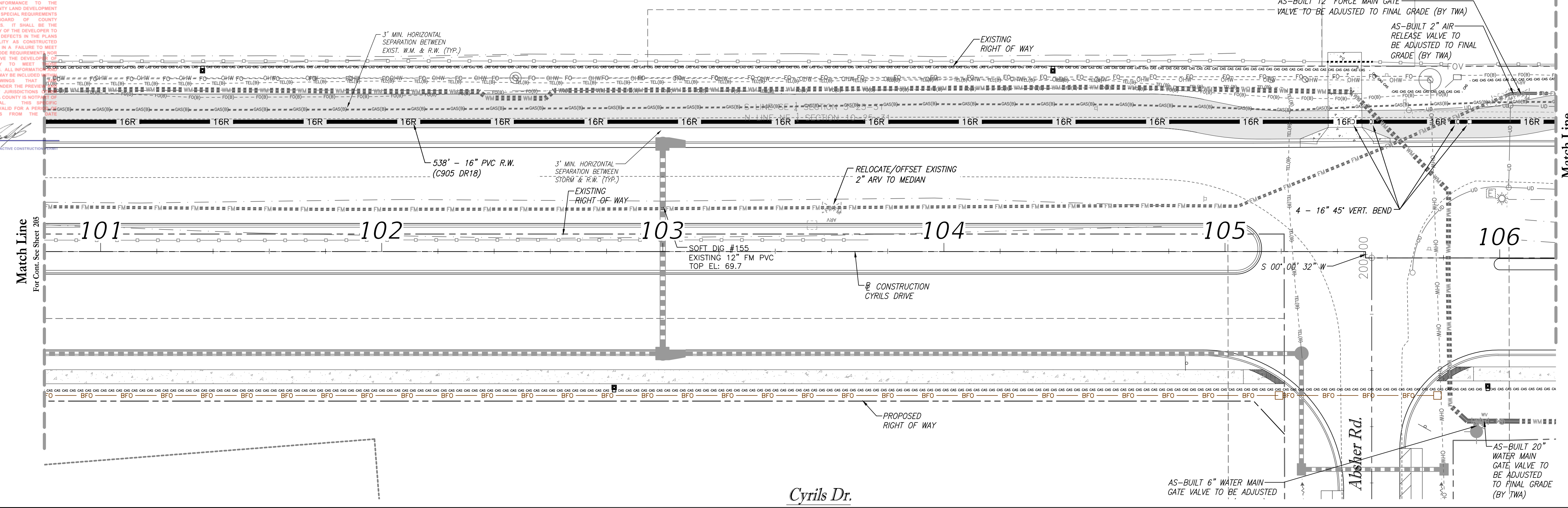
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NOT VALID WITHOUT AN ACTIVE CONTRACT

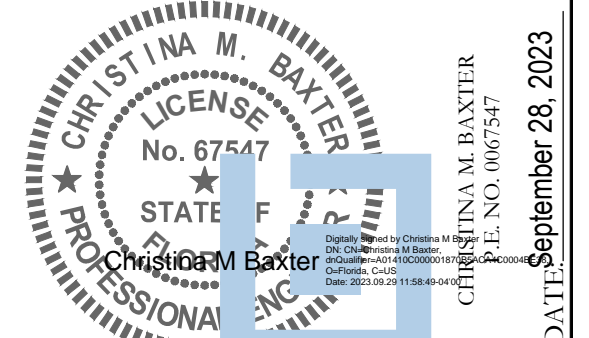
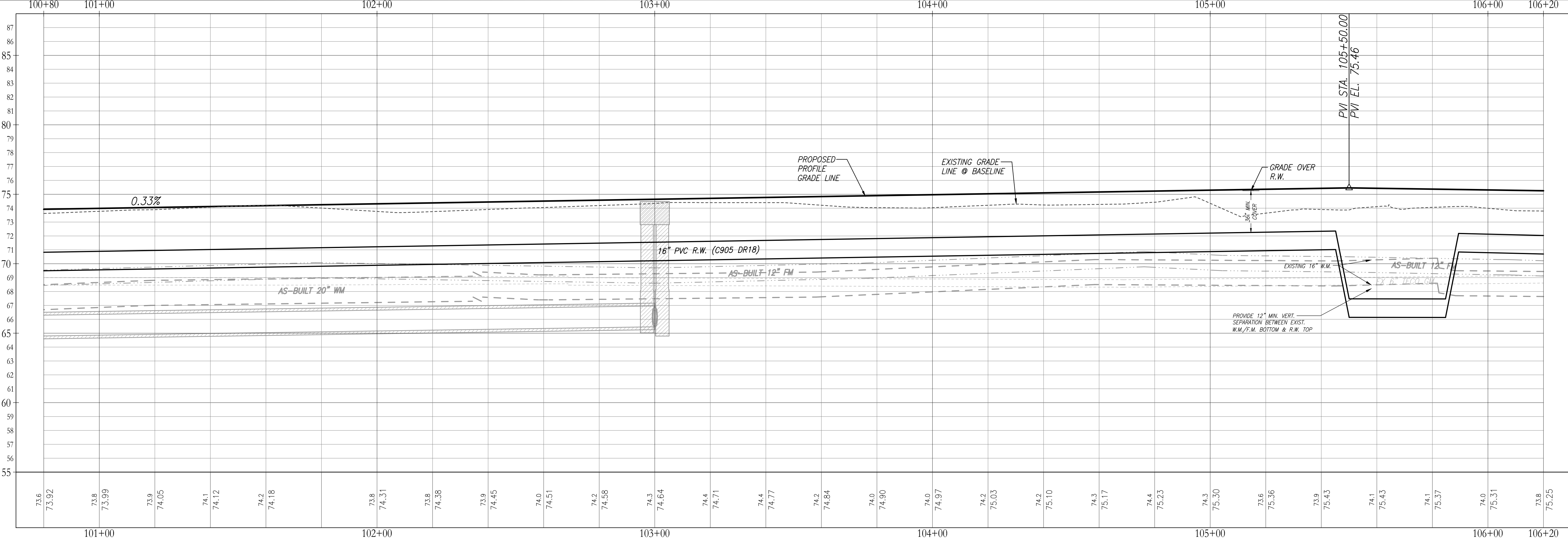


Match Line
For Cont. See Sheet 205

Match Line
For Cont. See Sheet 207



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2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

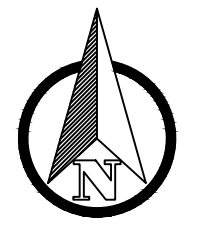
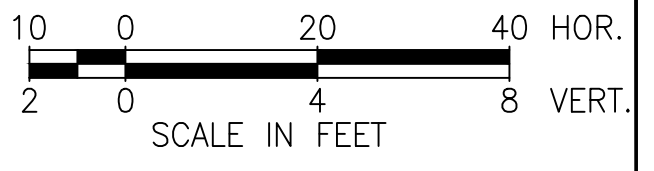
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
RECLAIMED WATER PLAN & PROFILES

SHEET NO.
206

Z:\2017\17-042 TAVIS/STOCK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-04208-CD&M-UPP_RW

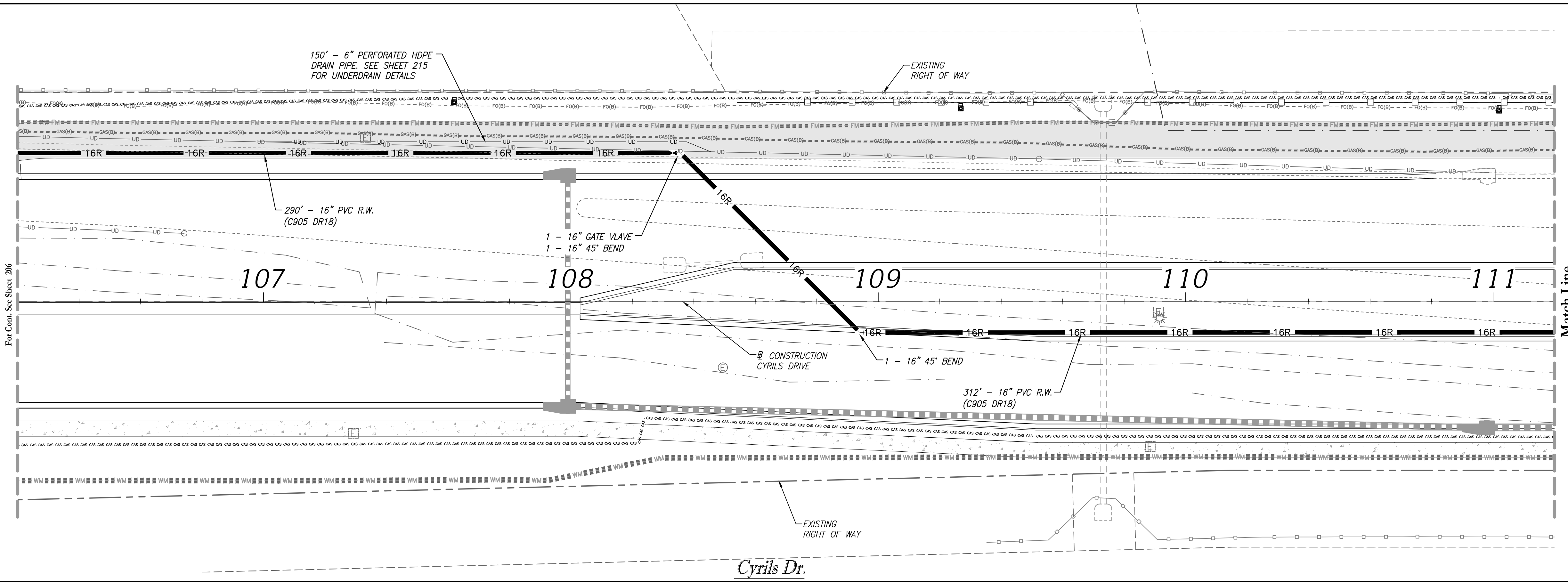
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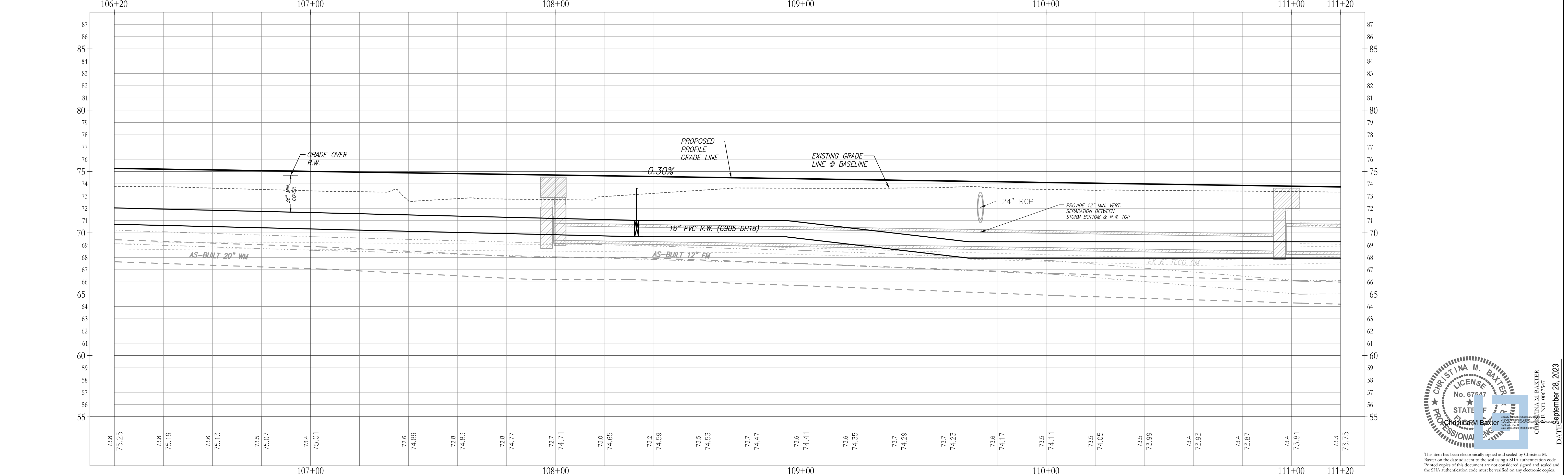


Match Line
For Cont. See Sheet 206

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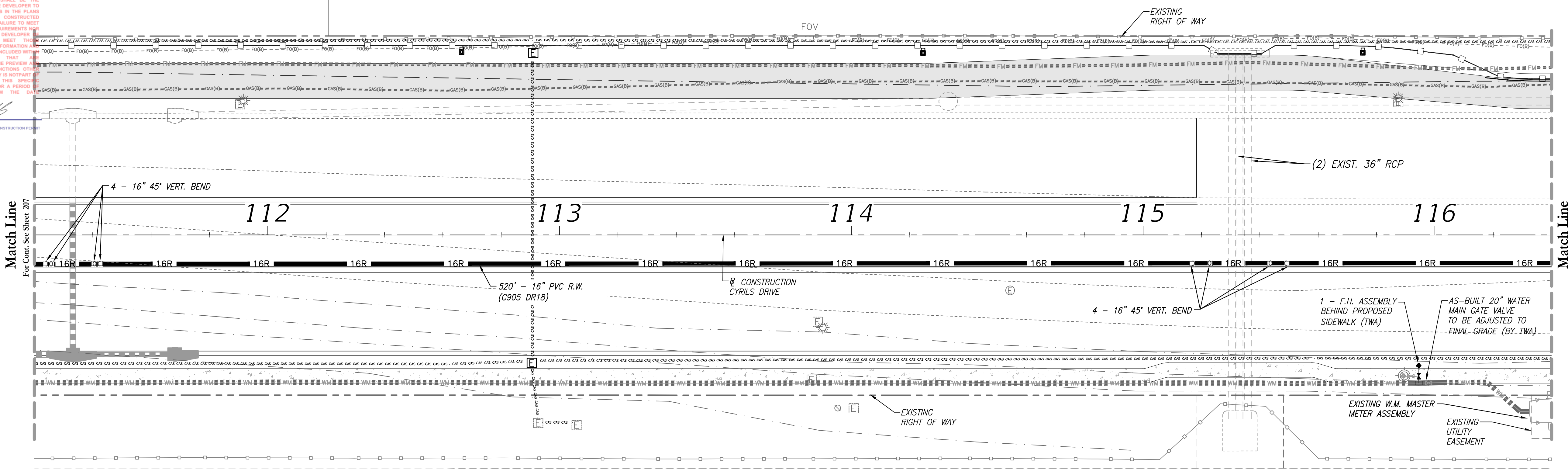
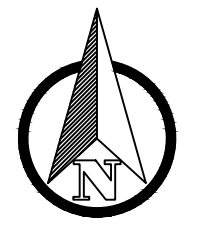
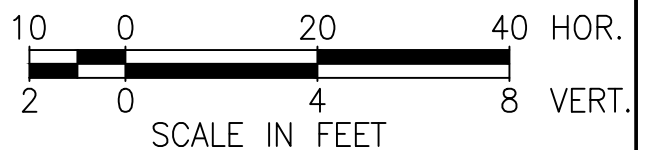
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
RECLAIMED WATER PLAN & PROFILES

SHEET
NO.
207

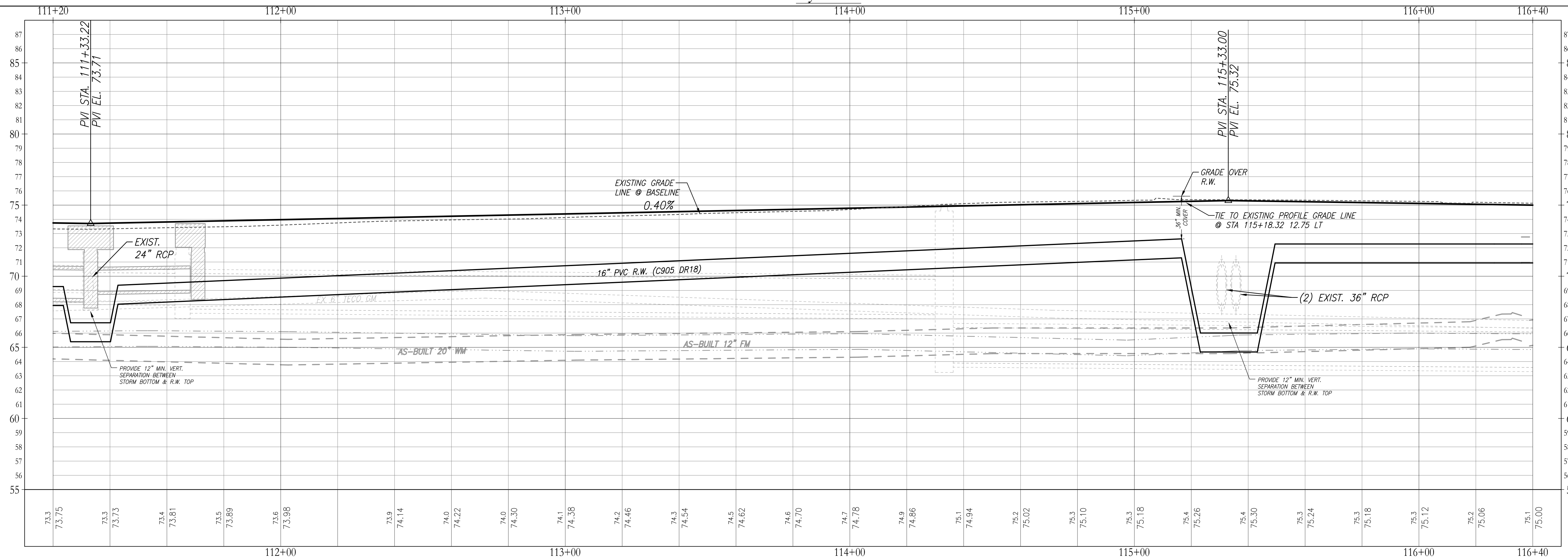
Z:\2017\17-042 TAVISSTOCK - SUNBRIE/CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-04208-CD&M-UPP.RW

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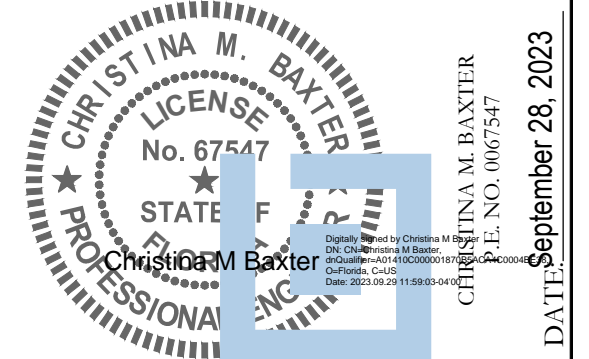
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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
RECLAIMED WATER PLAN & PROFILES

SHEET NO.
208

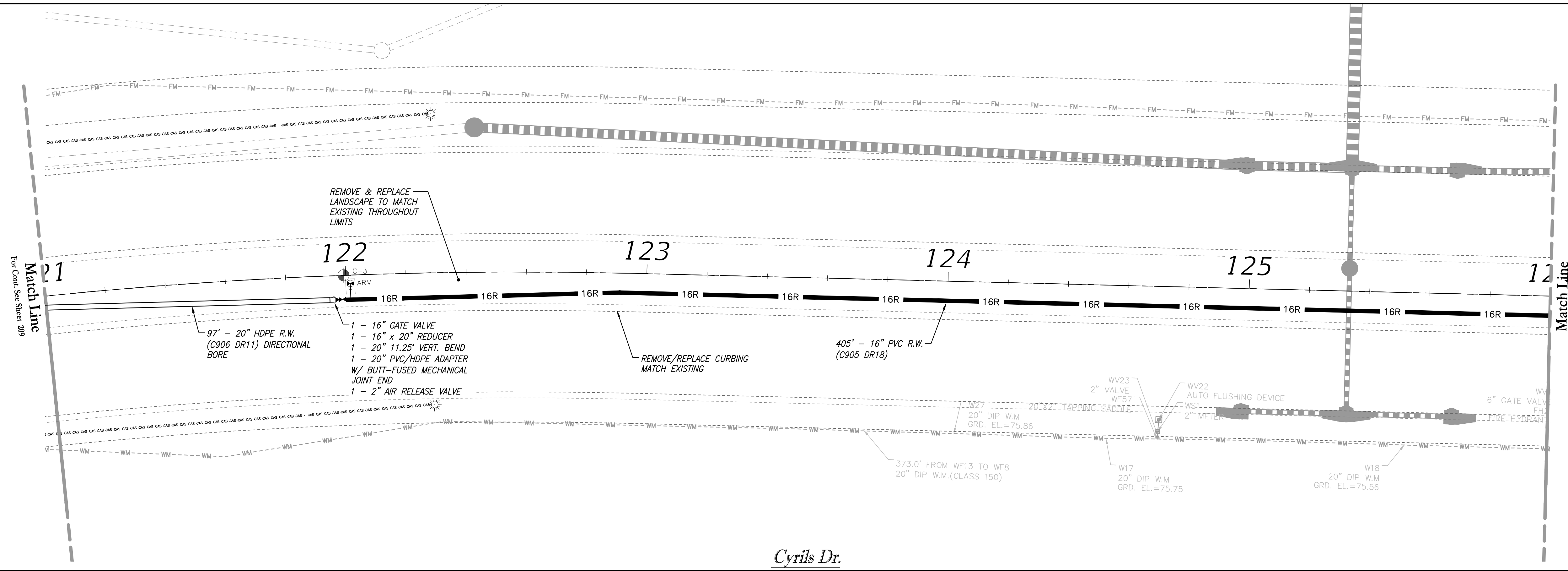
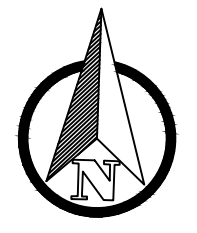
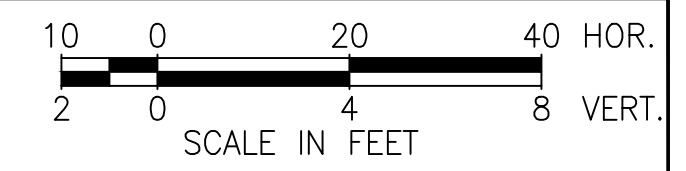


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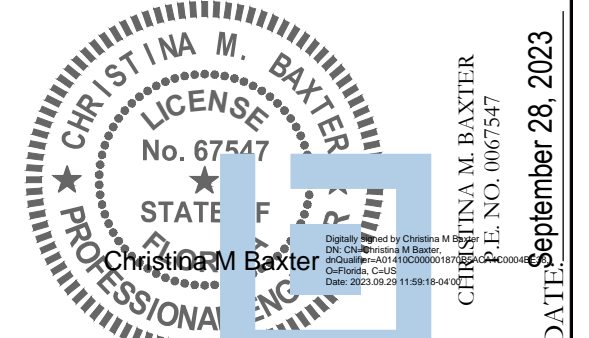
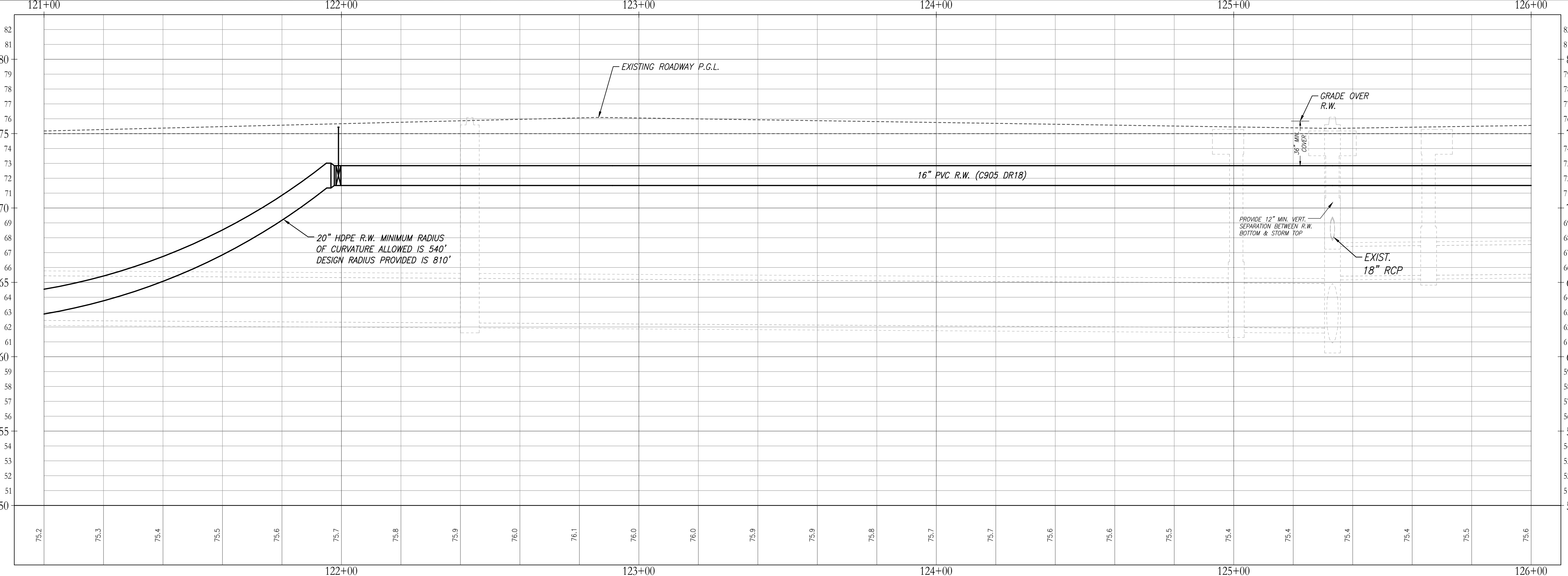
Z:\2017\17-042 TAVIS\STOCK - SUNSHINE\CYRILS DR\WARCOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-16208-CD&M-UPP.dwg

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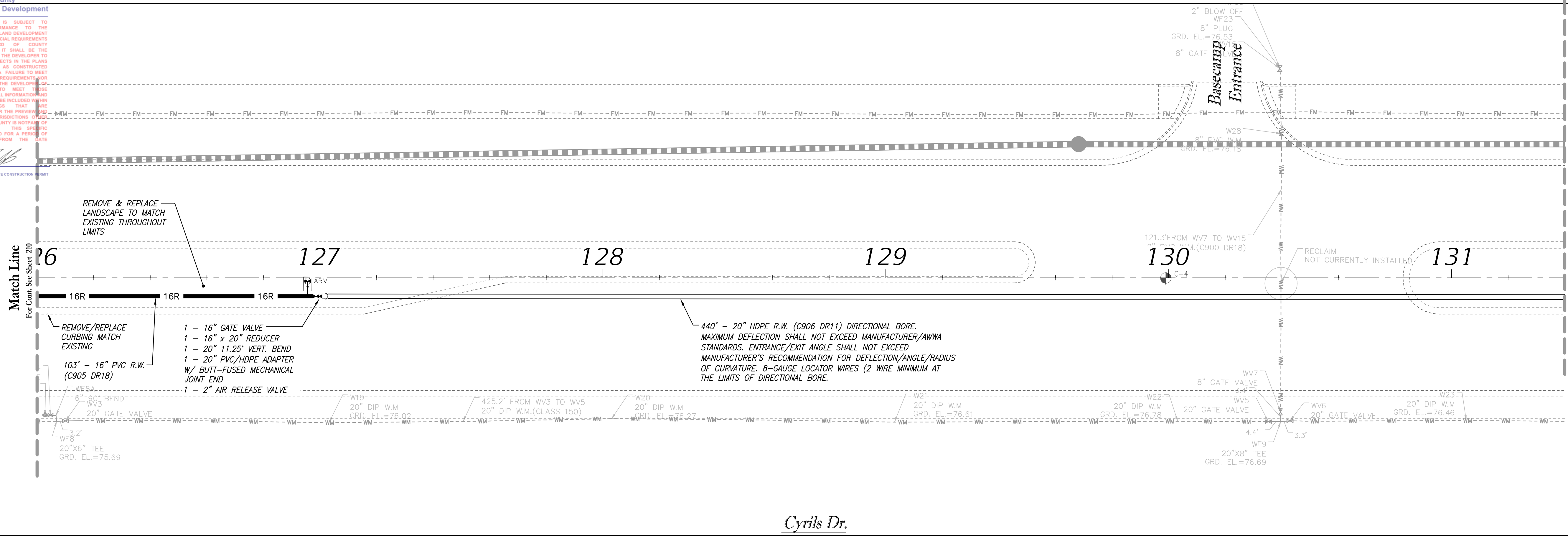
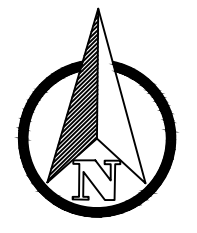
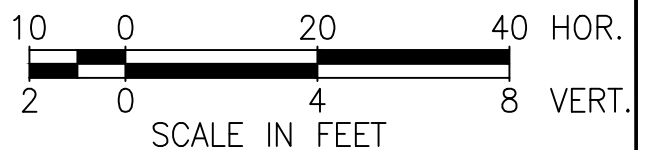
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
RECLAIMED WATER PLAN & PROFILES

SHEET NO.	210
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Z:\2017\17-042 TAVISDOCK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-04203-CD&M-UPP.RW

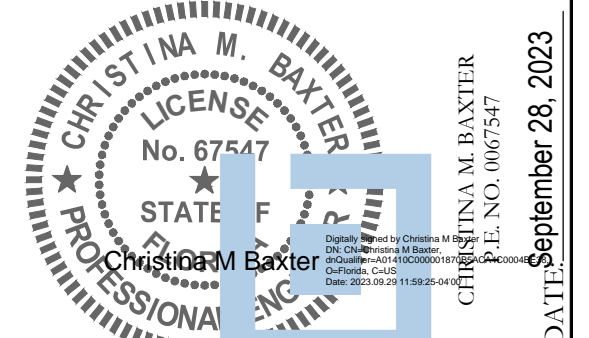
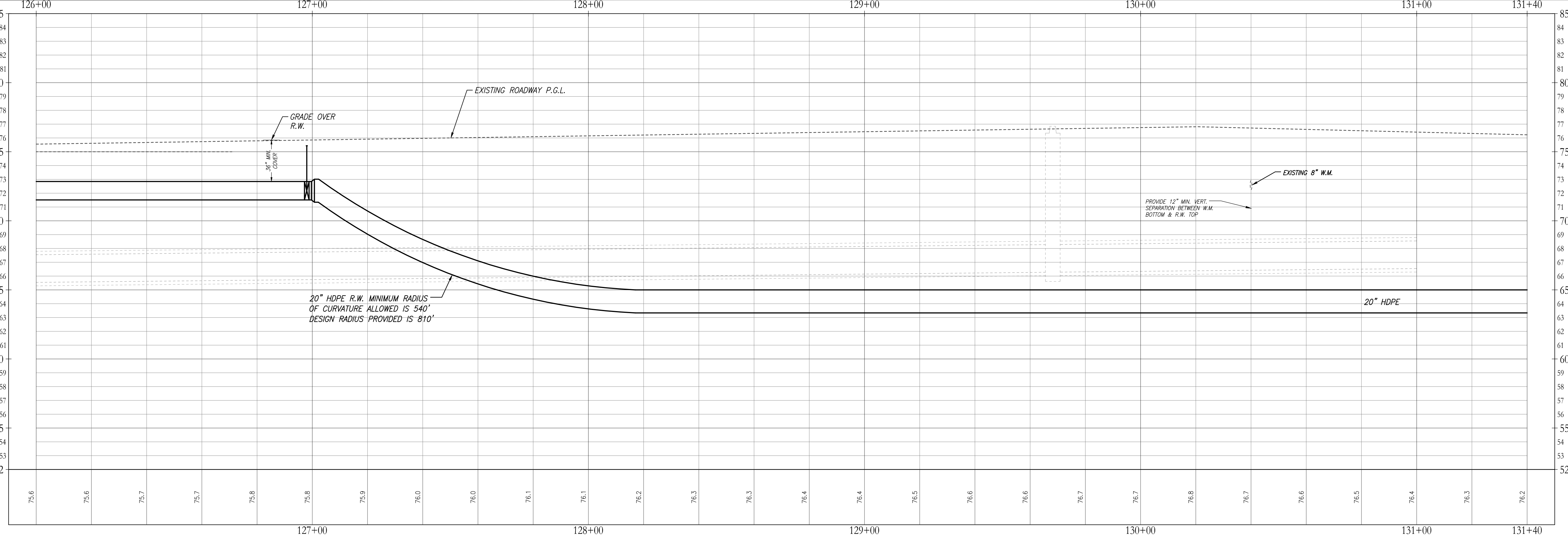
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Match Line
For Cont. See Sheet 212

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Cyrils Dr.



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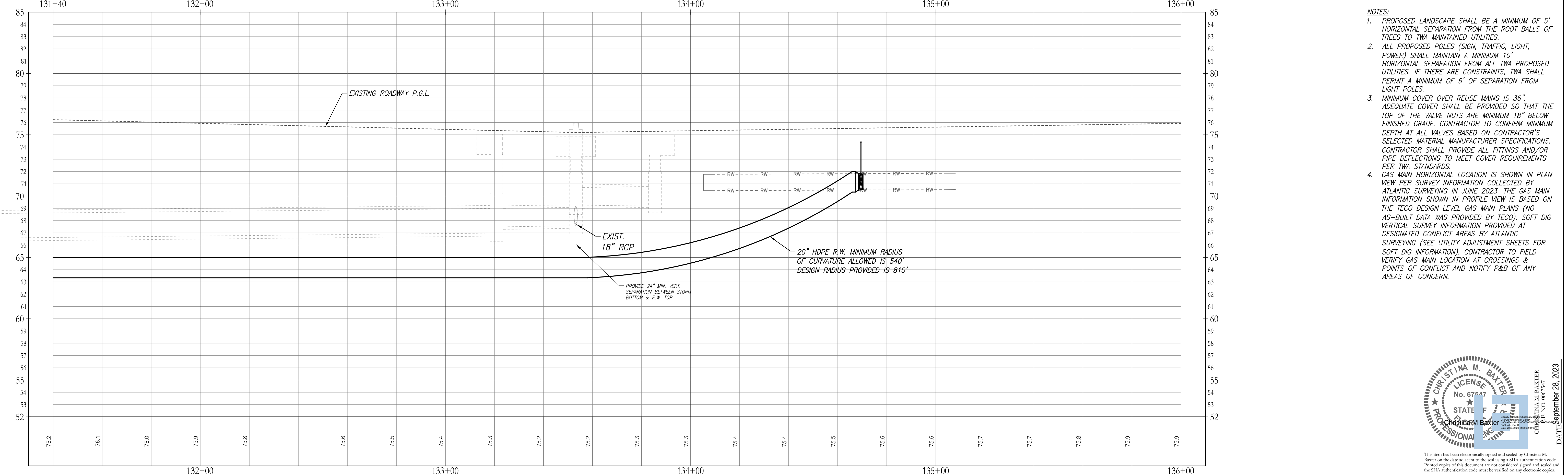
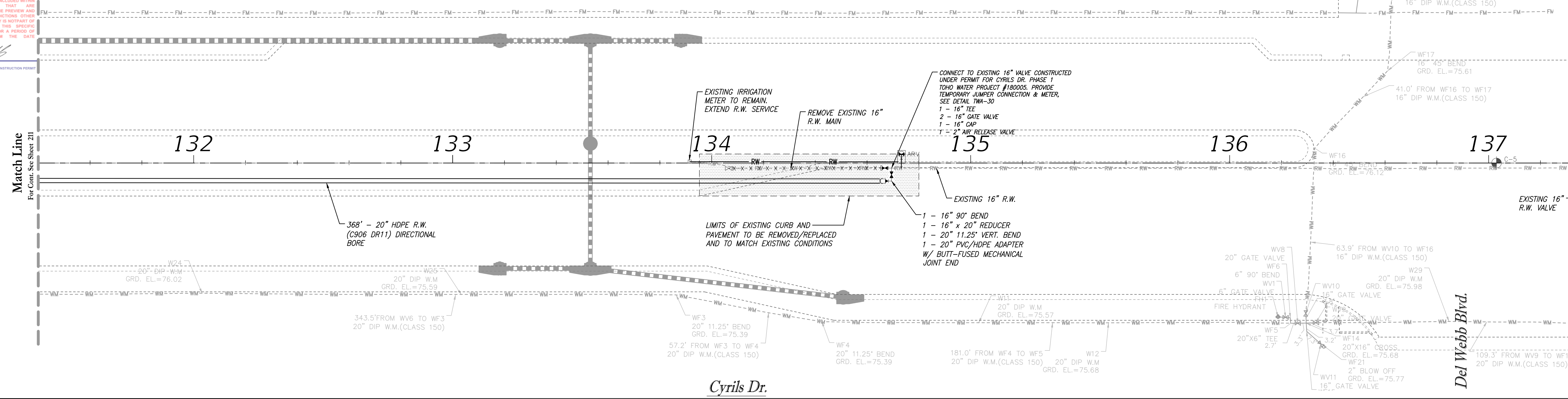
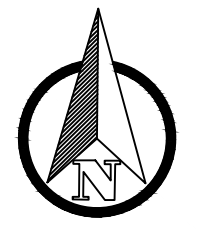
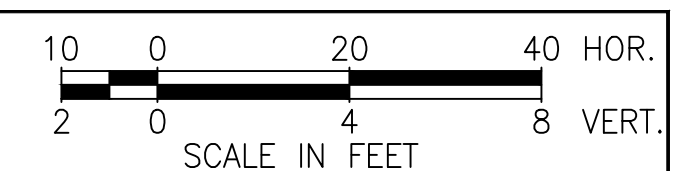
OSCEOLA COUNTY
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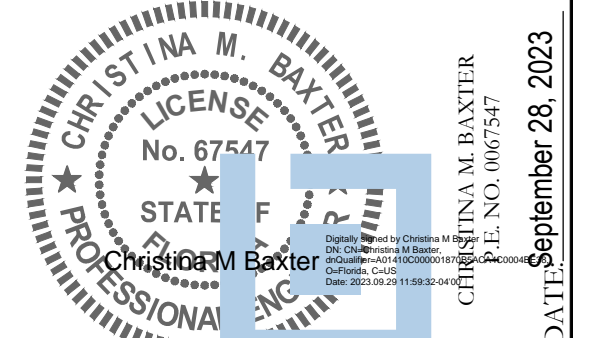
SHEET NO.
211

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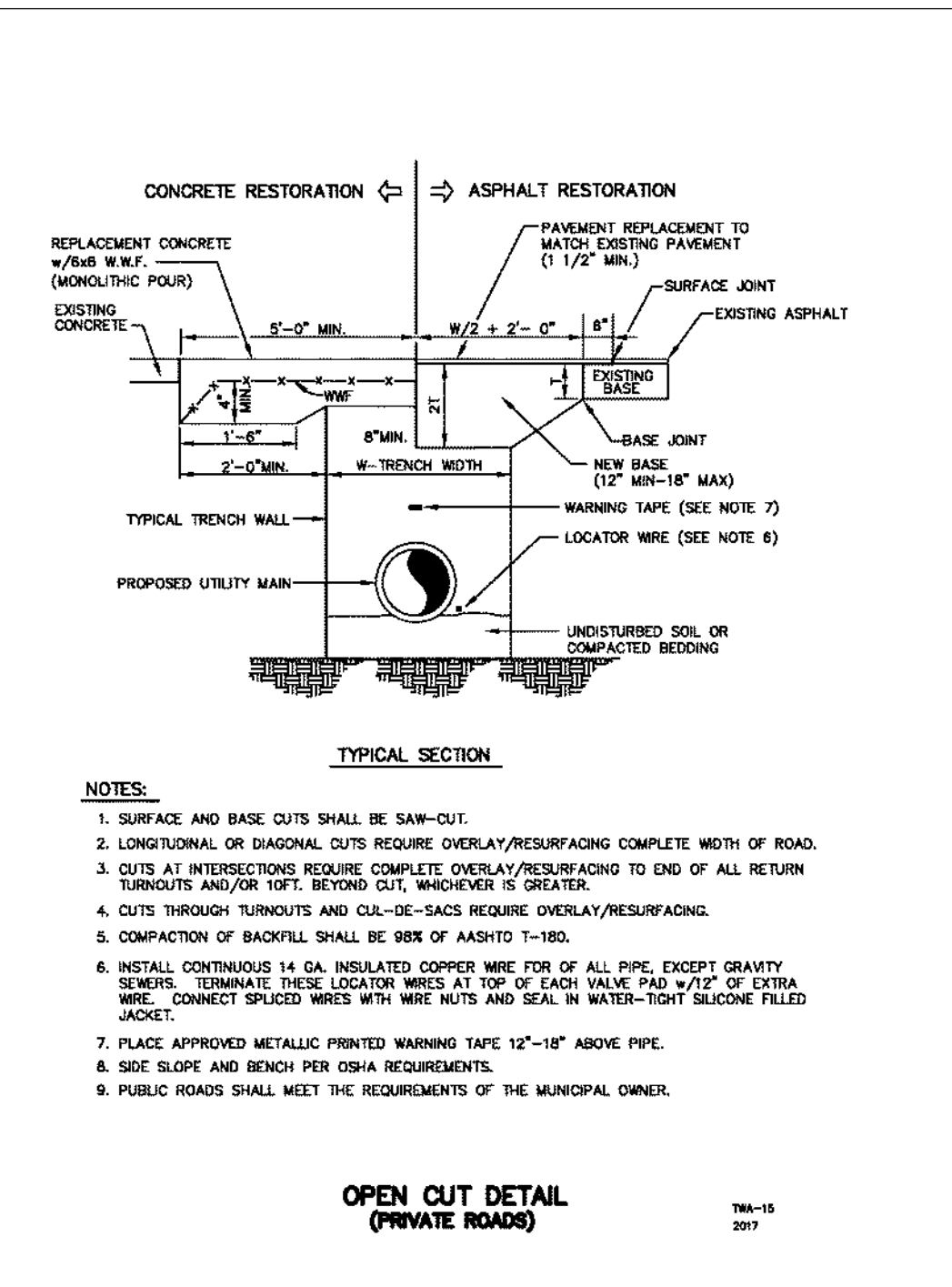
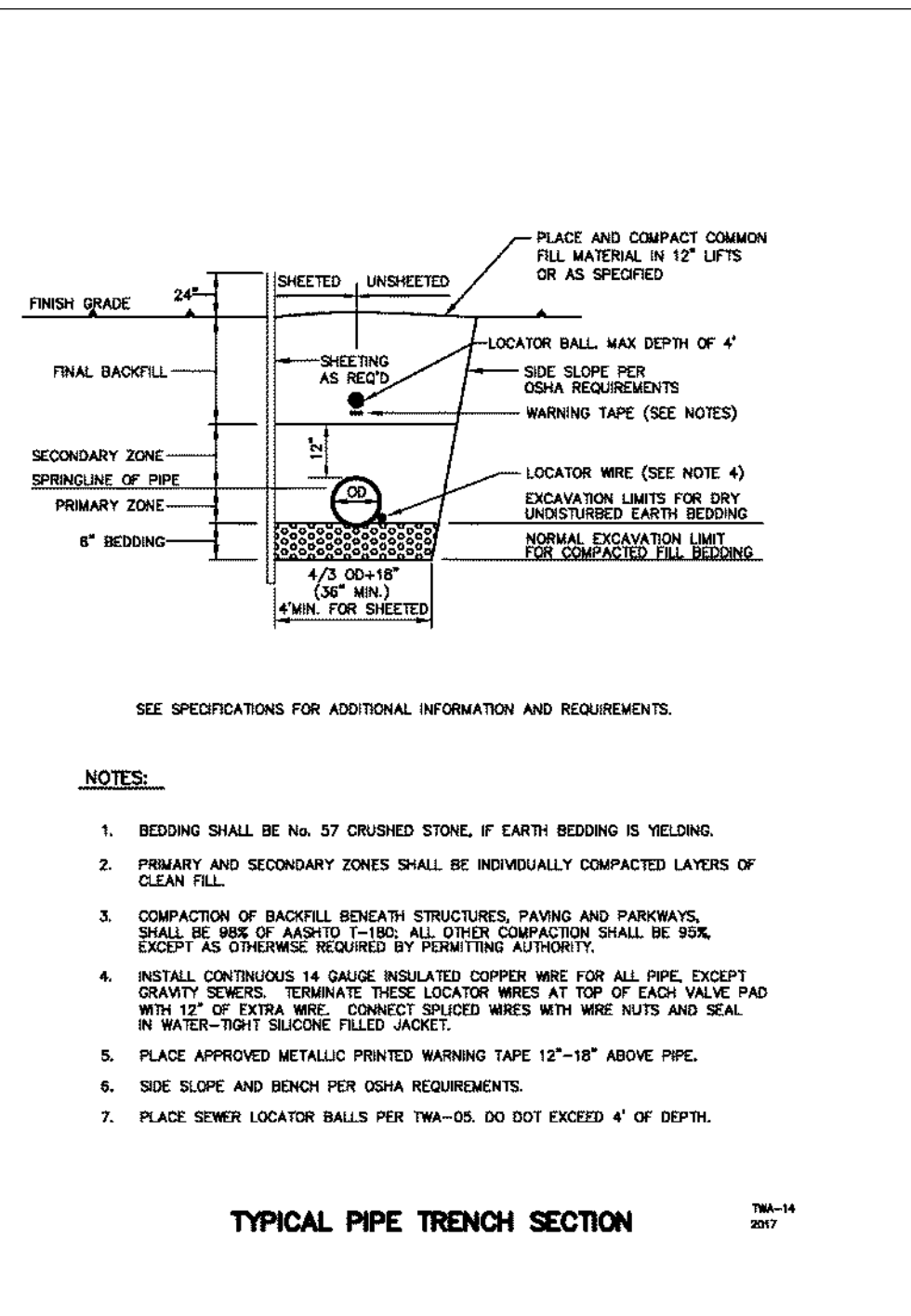
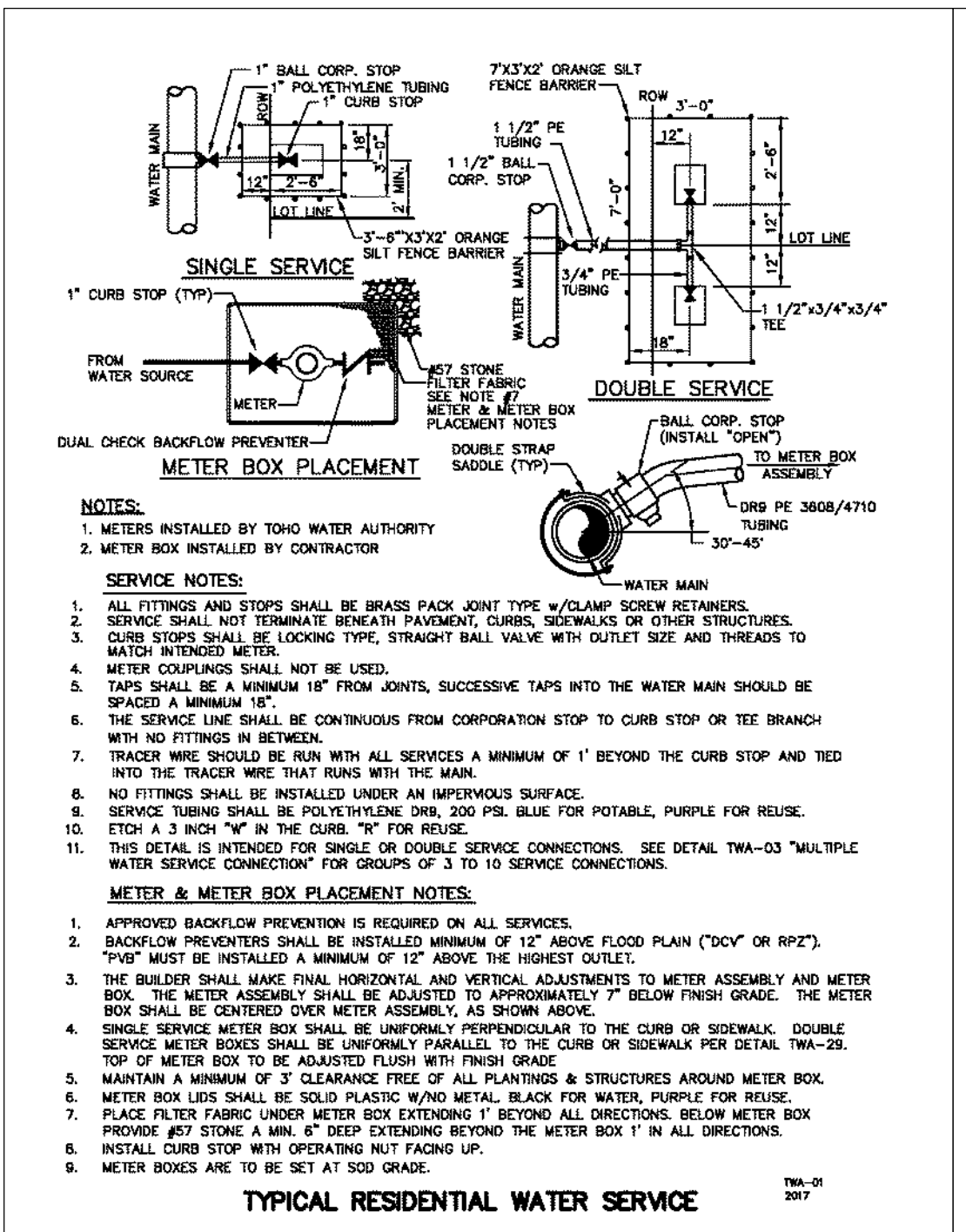
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CYRILS DRIVE / NARCOOSSEE ROAD TO
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USE THIS THRUST RESTRAINT TABLE FOR THESE TRENCH CONDITIONS:
 --- MIN. 50% SOIL RETAINED ON No. 200 SIEVE.
 --- MIN. 85% COMPACTION, AASHTO T-180.
 --- MIN. 3" OF COVER.

NUMBER OF FULL LENGTH RESTRAINED PIPE SECTIONS REQUIRED AT ALL FITTINGS AND VALVE JOINTS

SIZE	BENDS					DEAD END	CROSS OR VALVE	TEE	TEE AND VALVE	PLUGGED END
	90°	45°	22-1/2°	11-1/4°	VERTICAL BENDS					
4	1	1	1	1	1	1	2	1	1	1
6	1	2	1	1	1	1	2	2	3	1
8	1	2	1	1	1	1	2	2	4	1
10	2	2	1	1	1	1	2	2	3	1
12	2	2	1	1	1	1	2	3	5	1
14	2	3	1	1	1	1	2	3	4	1
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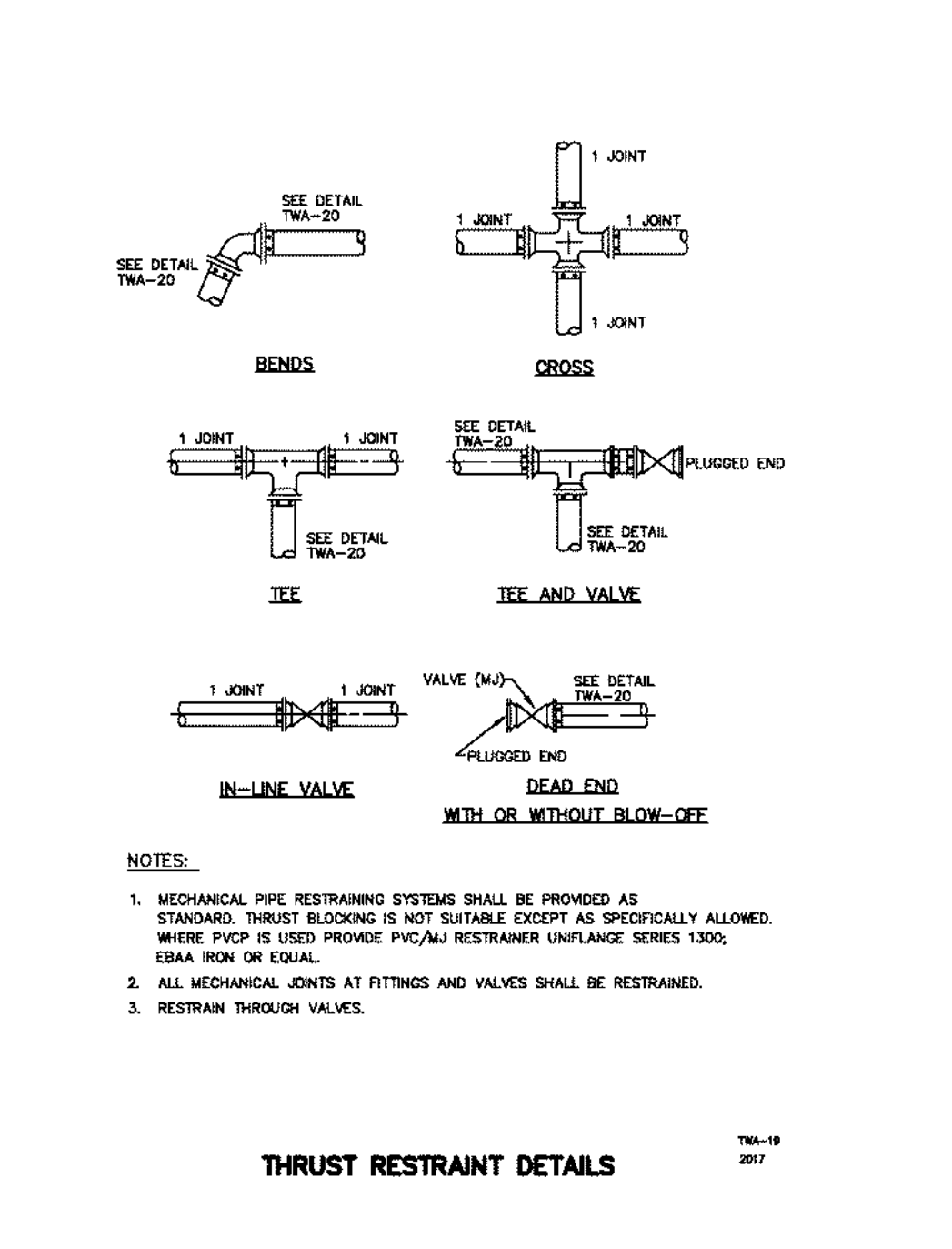
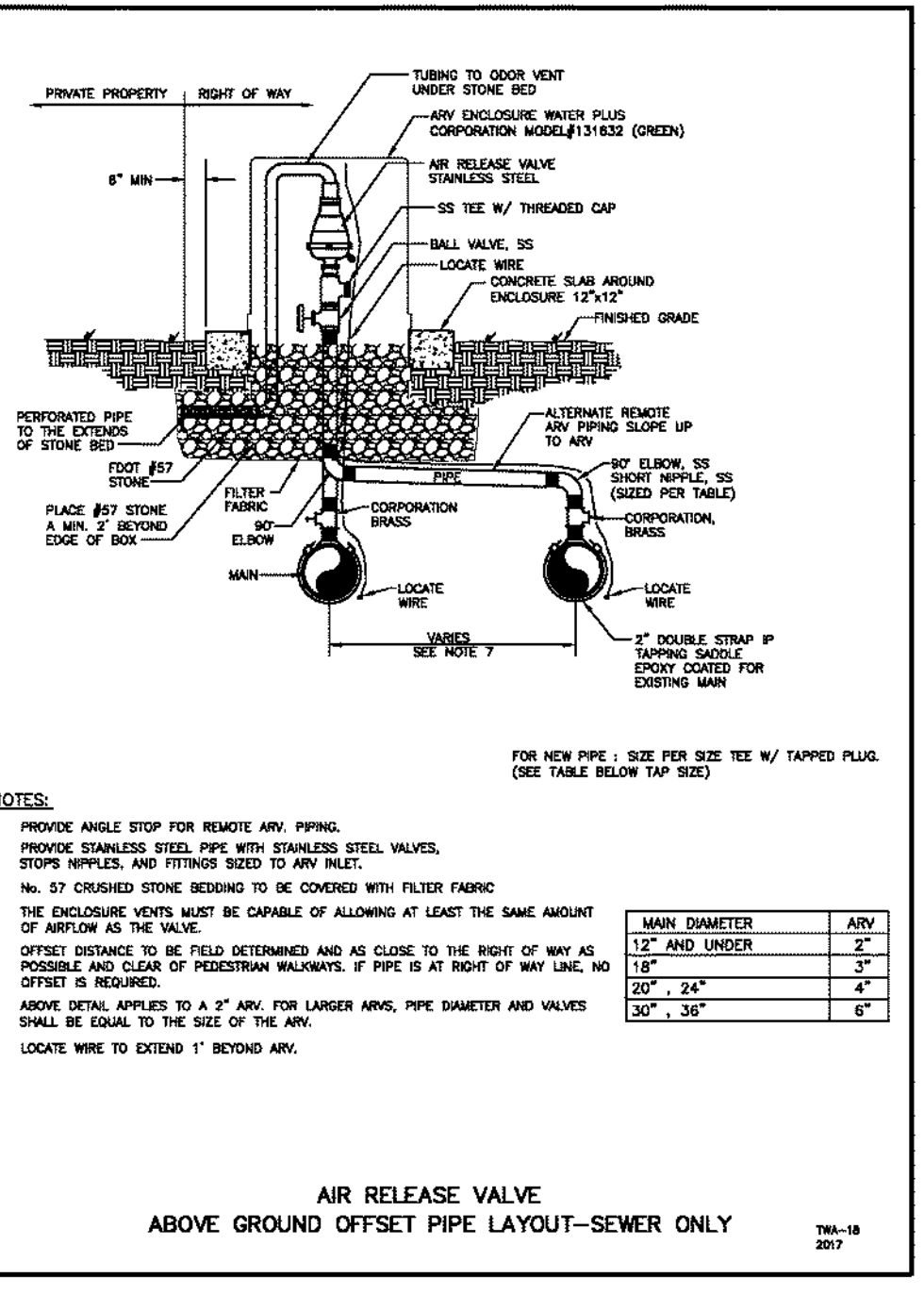
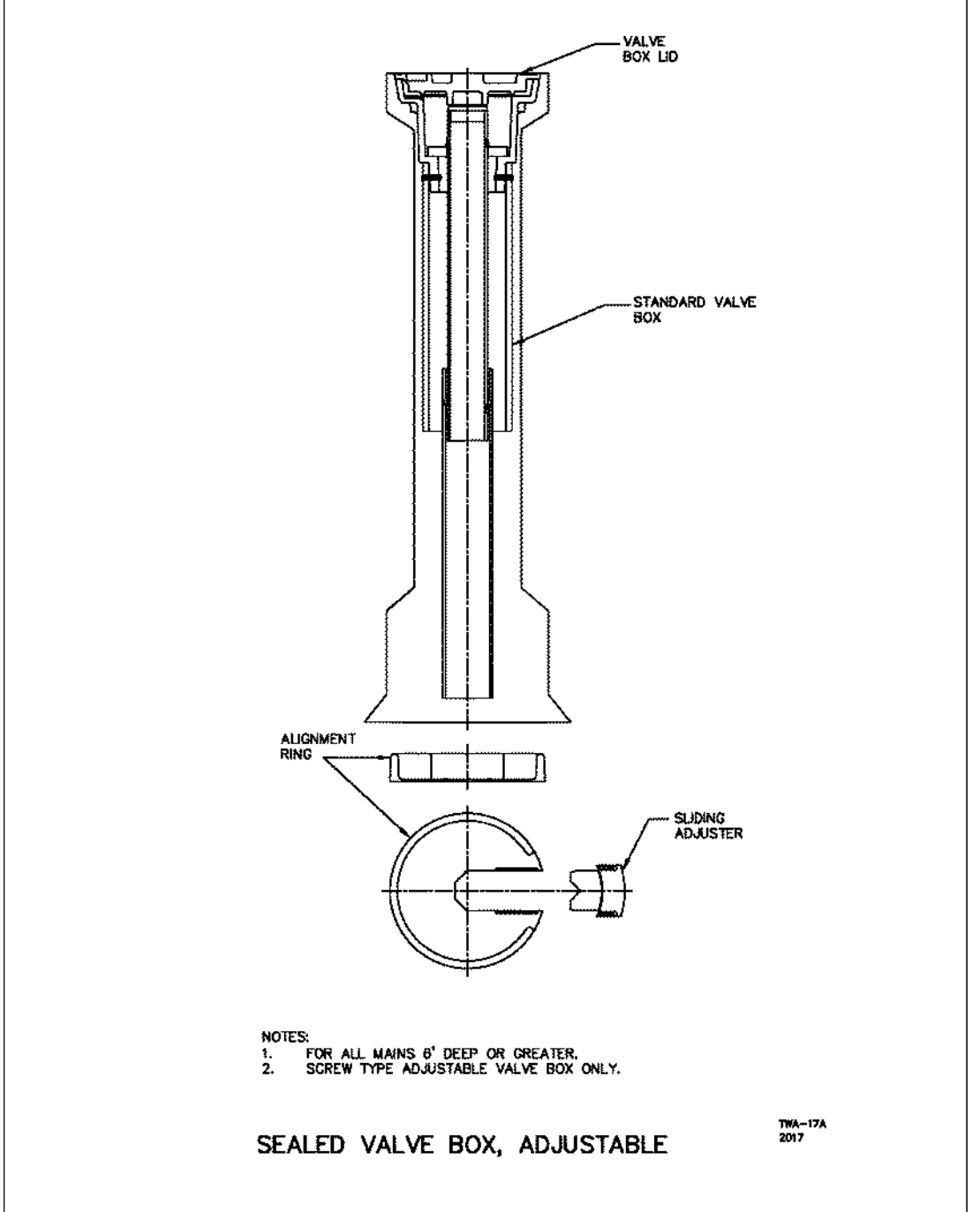
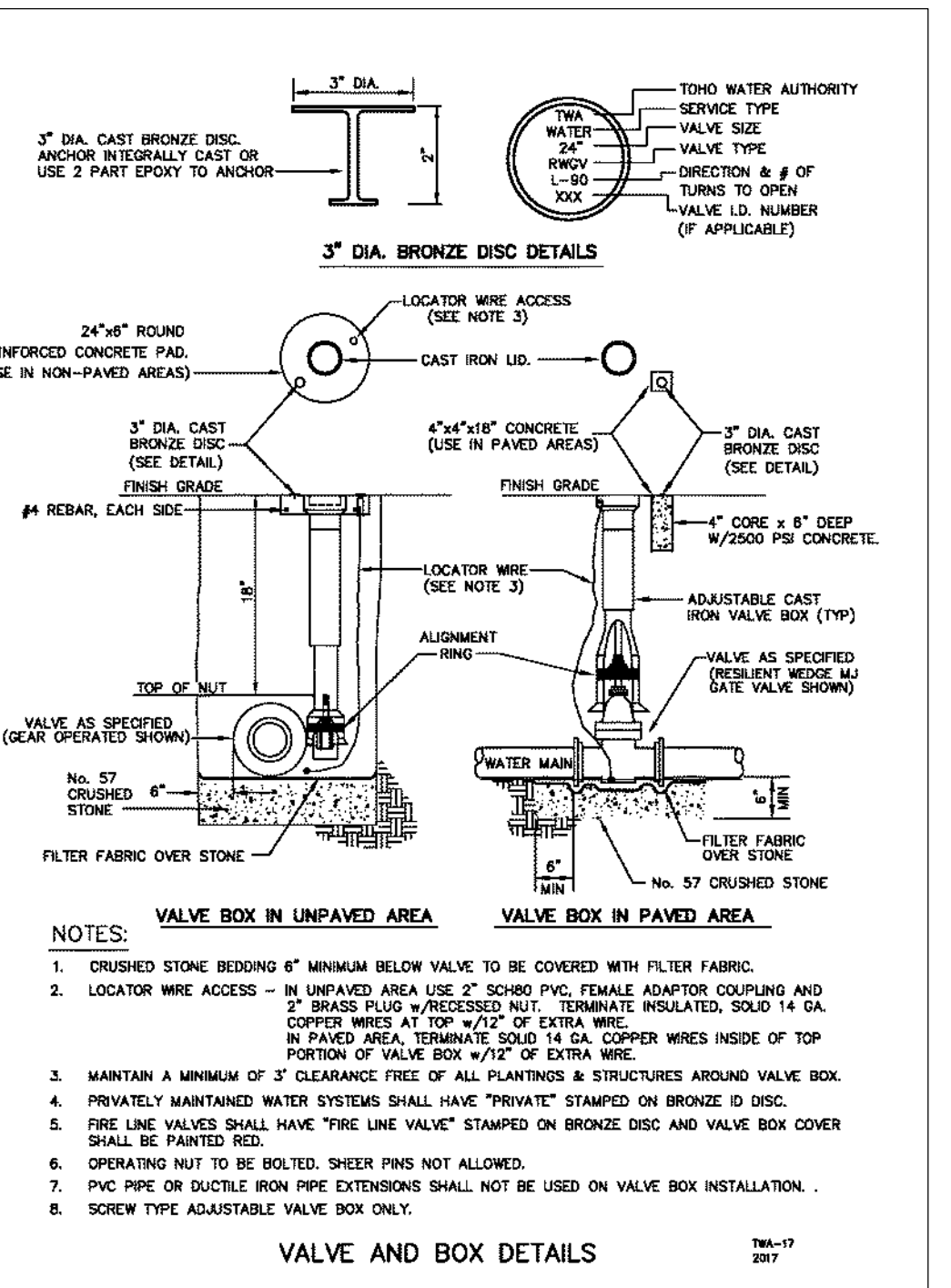
WHERE CONDITIONS VARY FROM THOSE STATED ABOVE, HAVE A FLORIDA REGISTERED PROFESSIONAL ENGINEER DETERMINE THE REQUIRED RESTRAINED LENGTH OF PIPING.

RESTRAINED JOINT TABLE

NOTES:

- WATER MAIN AND REUSE MAIN TEST PRESSURE 150 psi MINIMUM
- SANITARY FORCE MAIN PRESSURE 100 psi MINIMUM
- RESTRAIN THROUGH VALVES.
- ALL FITTINGS AND VALVES SHALL BE RESTRAINED AT LEAST ONE (1) FULL LENGTH OF PIPE IN ALL DIRECTIONS.
- PRESSURE CONNECTIONS SHALL BE TREATED AS A TEE.

NOTE: THIS TABLE INCLUDES A 1.5 SAFETY FACTOR ABOVE THE LISTED TEST PRESSURES.



USE THIS THRUST RESTRAINT TABLE FOR THESE TRENCH CONDITIONS:
 --- MIN. 50% SOIL RETAINED ON No. 200 SIEVE.
 --- MIN. 85% COMPACTION, AASHTO T-180.
 --- MIN. 3" OF COVER.

NUMBER OF FULL LENGTH RESTRAINED PIPE SECTIONS REQUIRED AT ALL FITTINGS AND VALVE JOINTS

SIZE	BENDS					DEAD END	CROSS OR VALVE	TEE	TEE AND VALVE	PLUGGED END
	90°	45°	22-1/2°	11-1/4°	VERTICAL BENDS					
4	1	1	1	1	1	1	2	1	1	1
6	1	2	1	1	1	1	2	2	3	1
8	1	2	1	1	1	1	2	2	4	1
10	2	2	1	1	1	1	2	2	3	1
12	2	2	1	1	1	1	2	3	5	1
14	2	3	1	1	1	1	2	3	4	1
16	2	3	1	1	1	1	2	3	4	1
18	2	3	1	2	1	1	3	4	5	1
20	2	3	1	2	1	1	3	4	5	1
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30	3	4	2	2	1	1	4	5	7	1

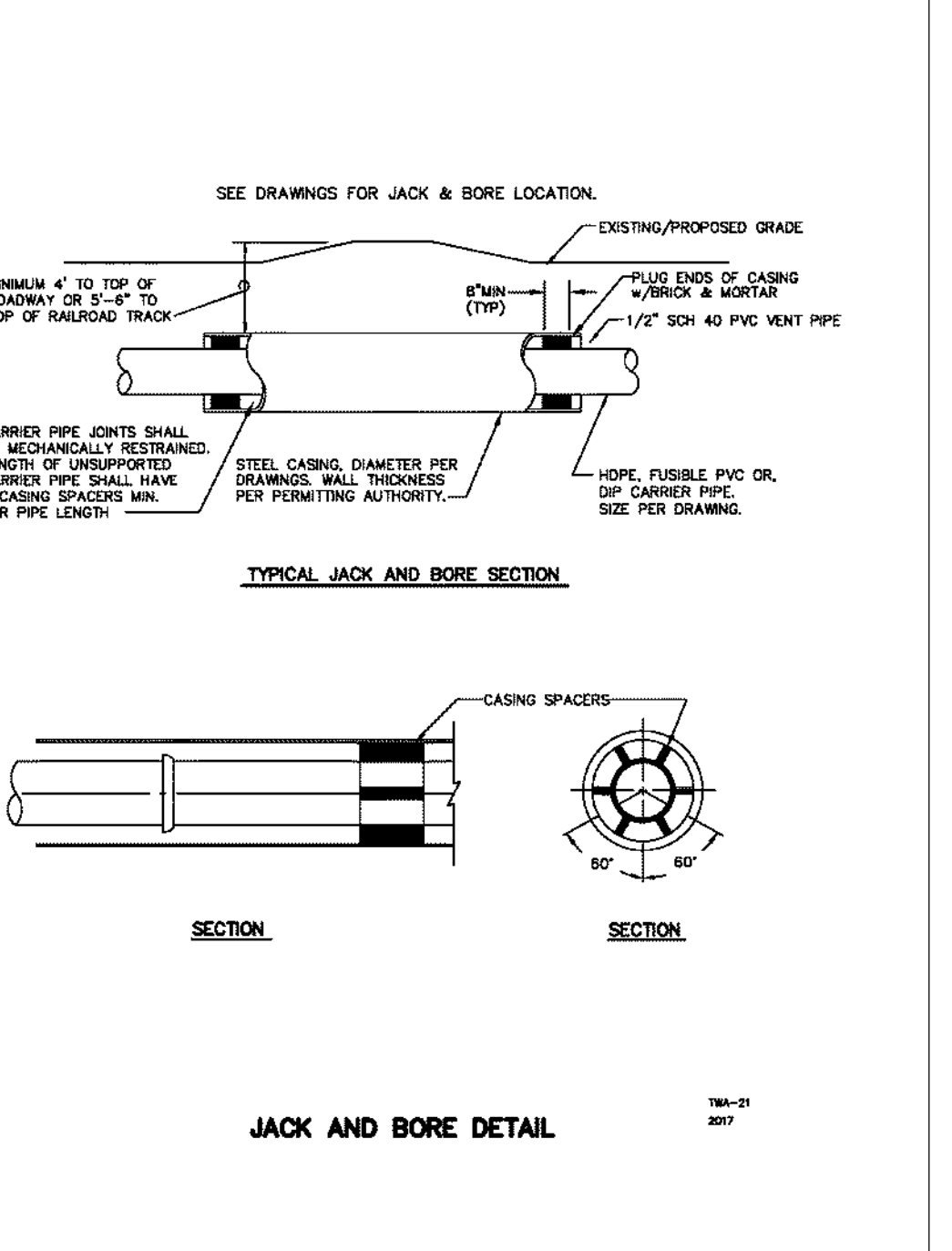
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NOTE: THIS TABLE INCLUDES A 1.5 SAFETY FACTOR ABOVE THE LISTED TEST PRESSURES.



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT
 Poulos & Bennett, LLC
 2602 E. Livingston St., Orlando, FL 32803
 Tel. 407.487.2594 www.poulosandbennett.com
 Eng. Bus. No. 28567

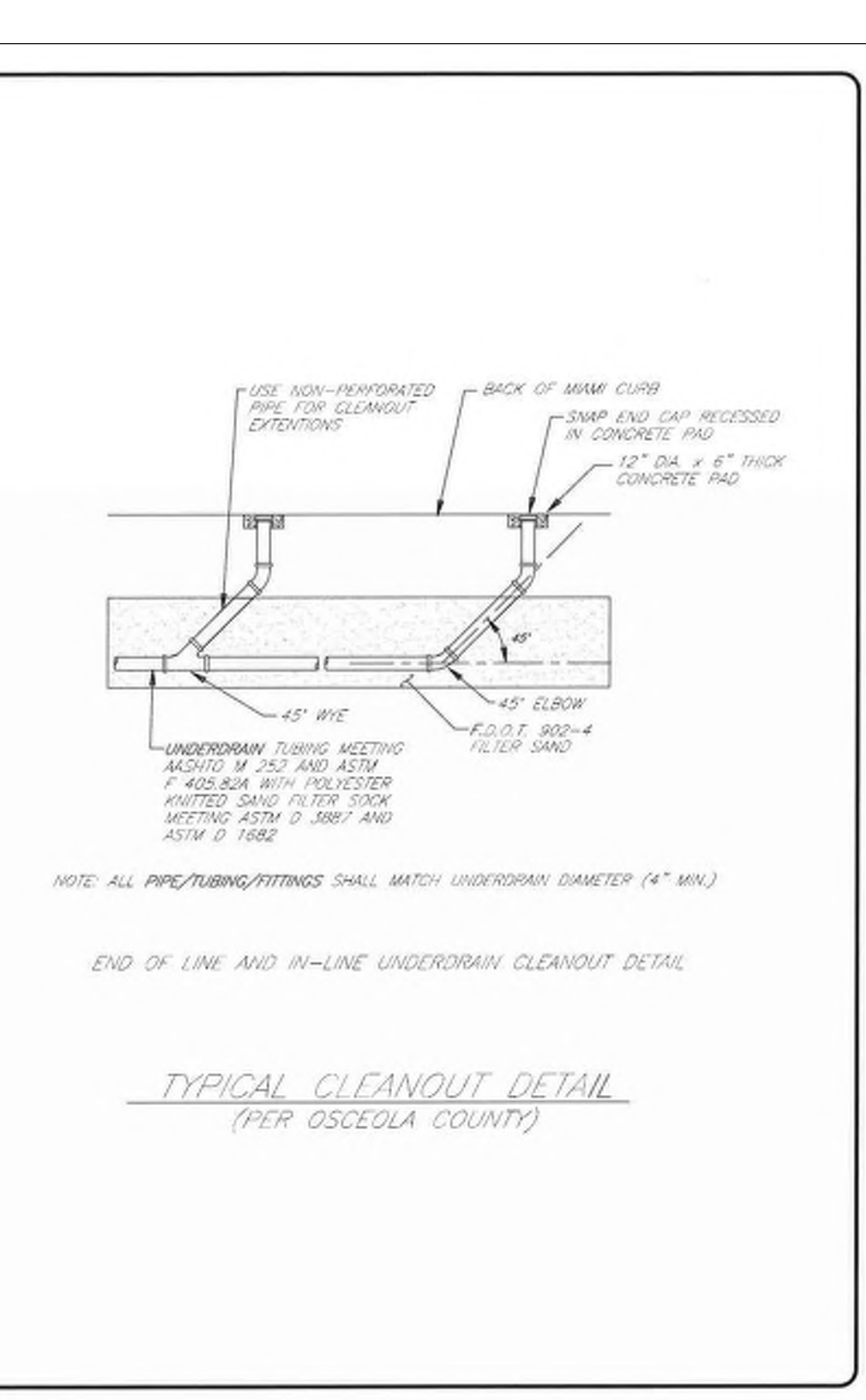
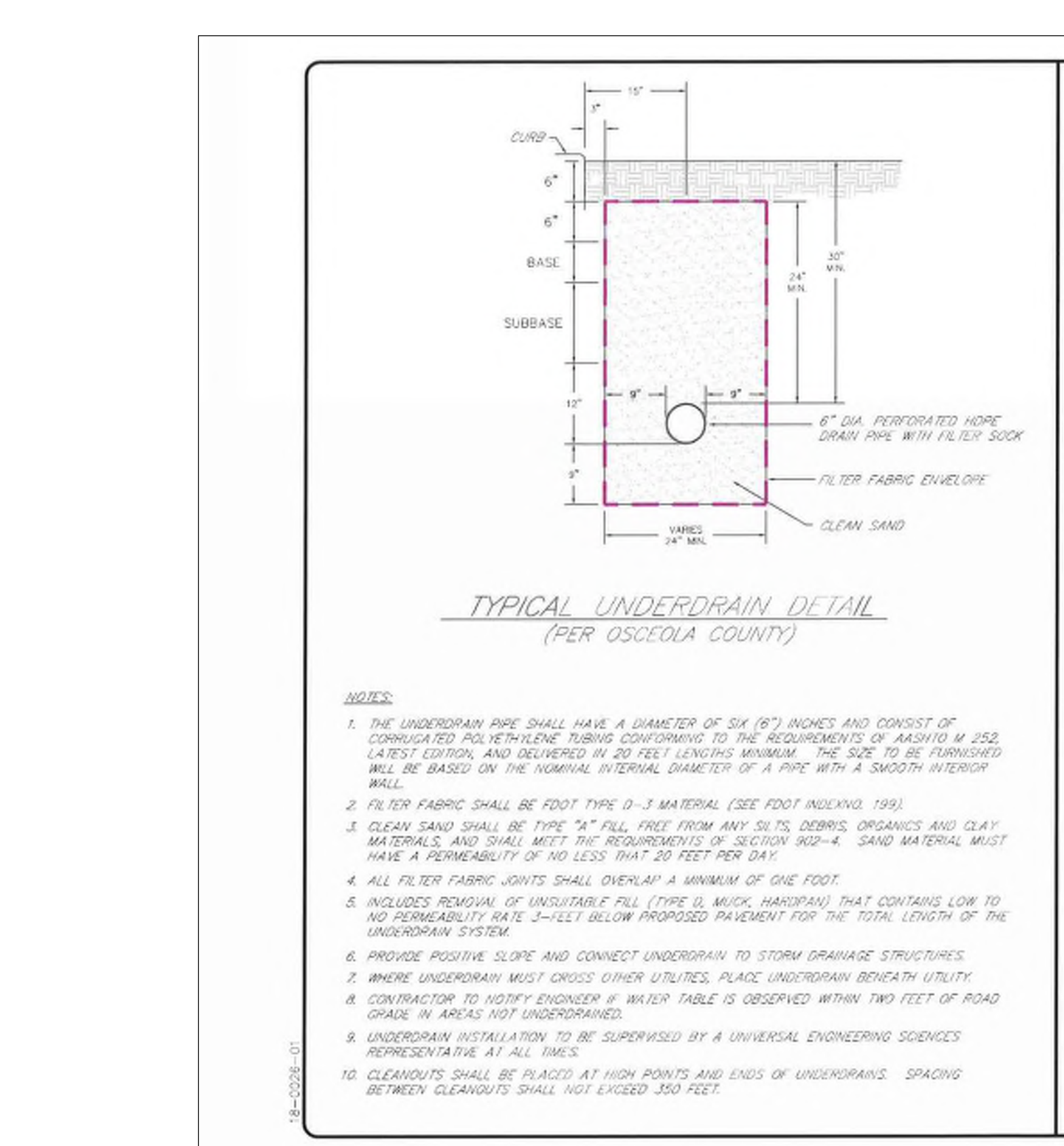
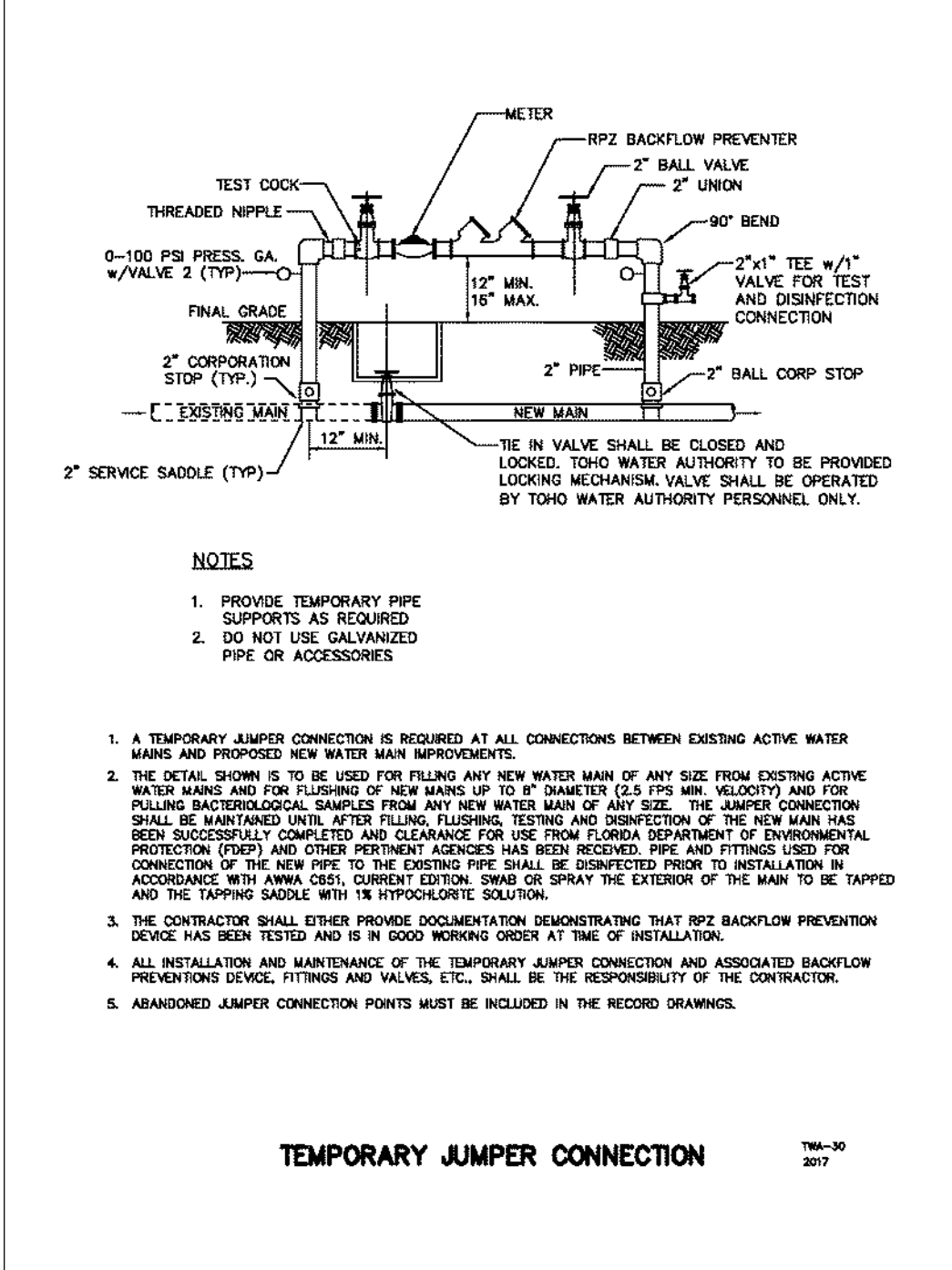
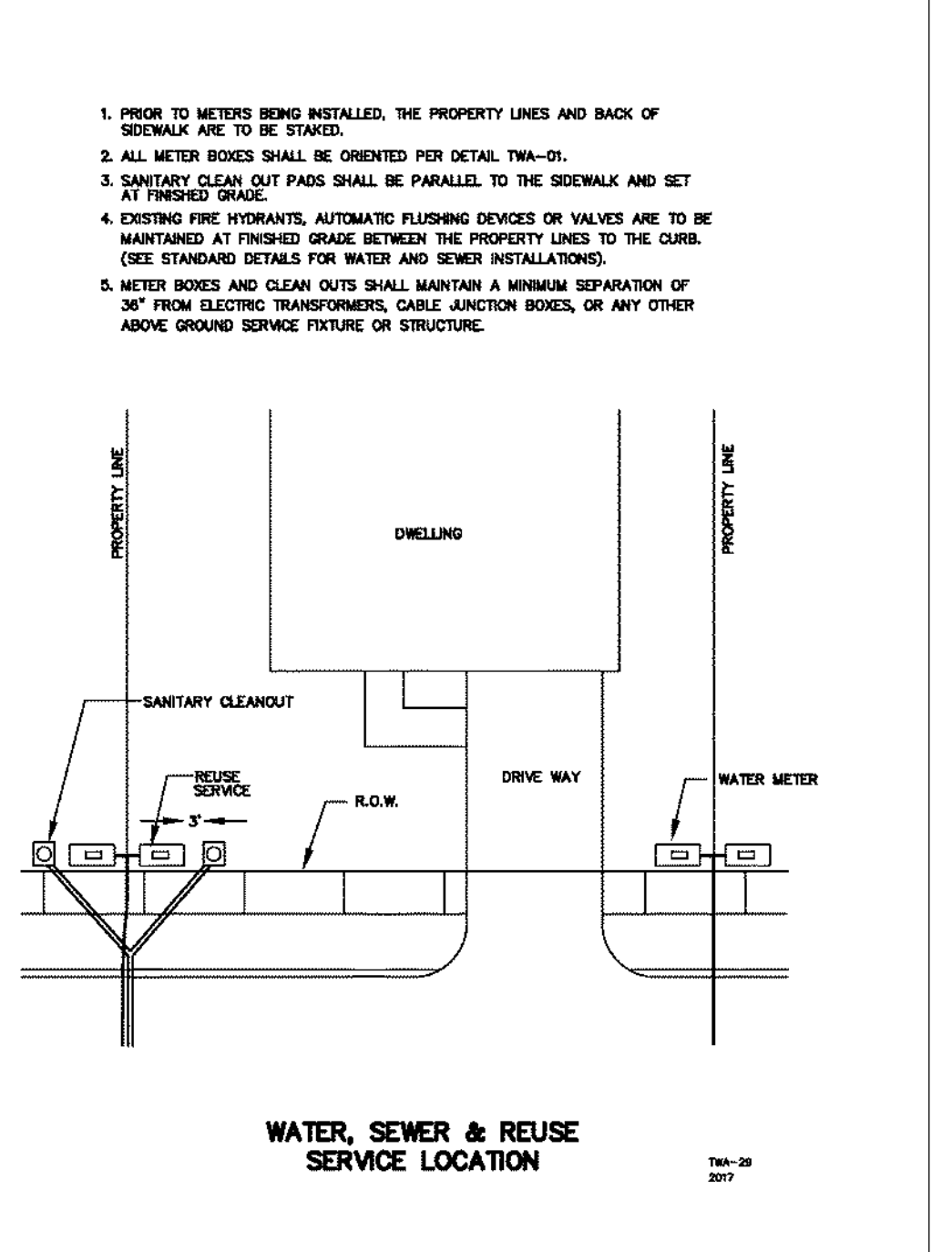
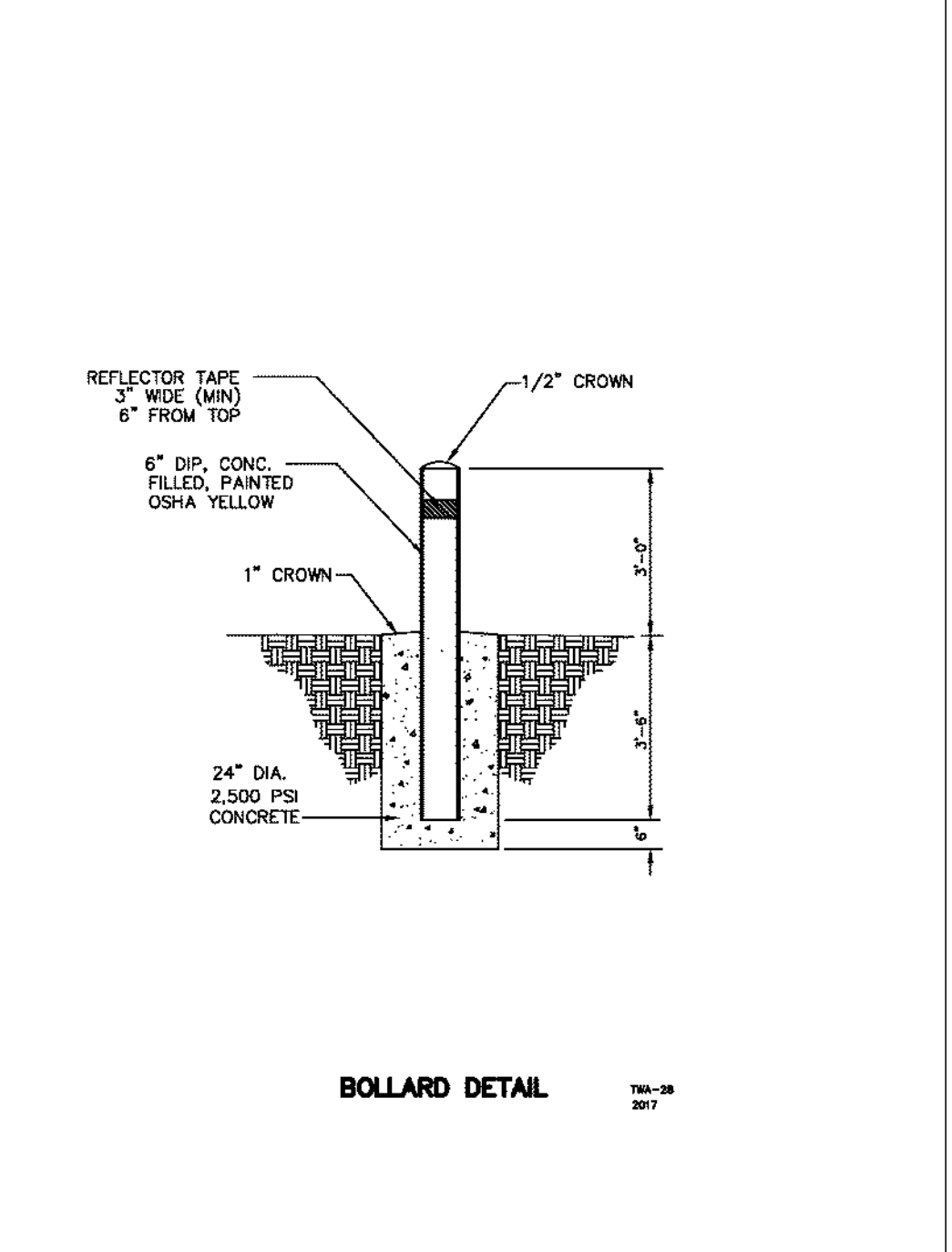
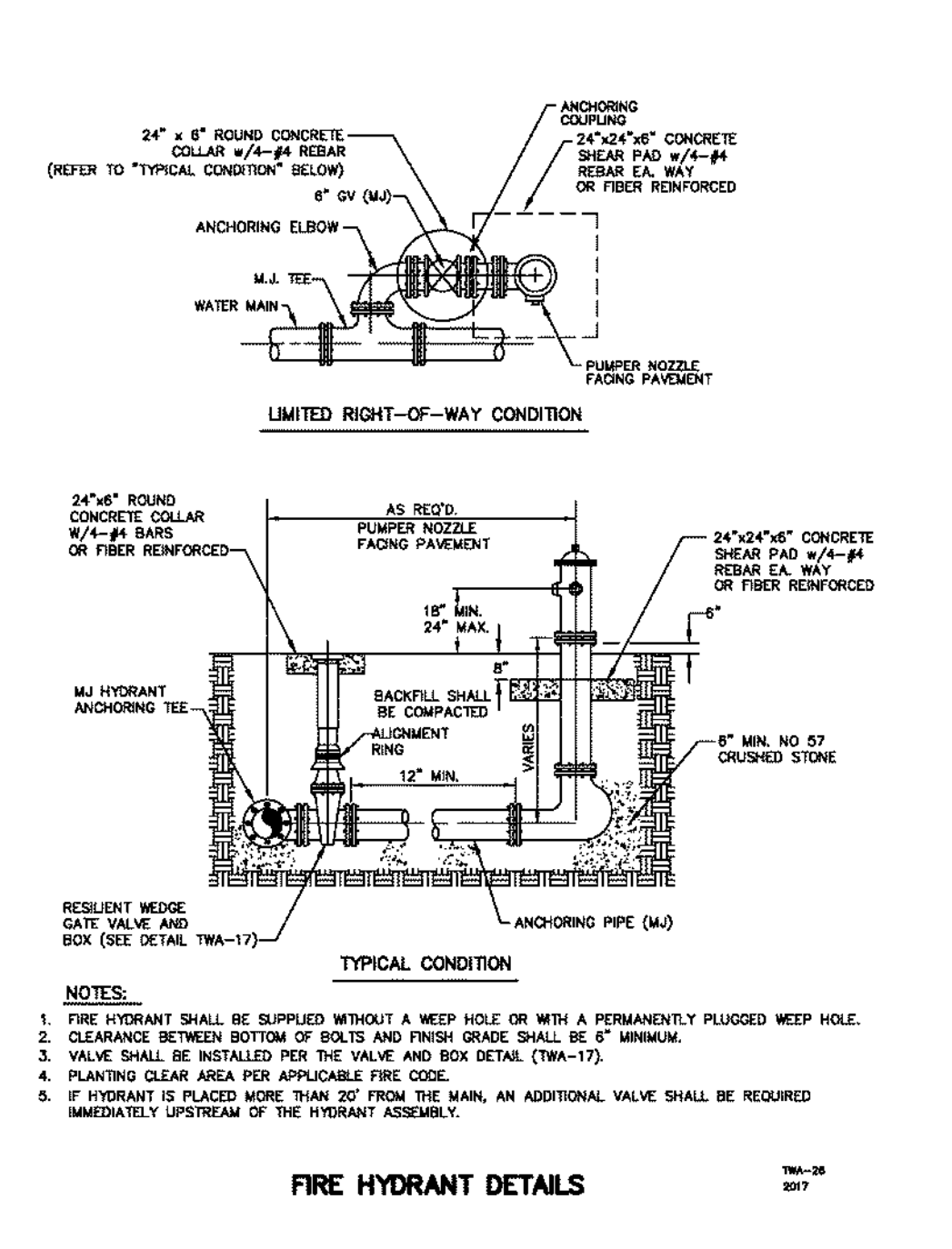
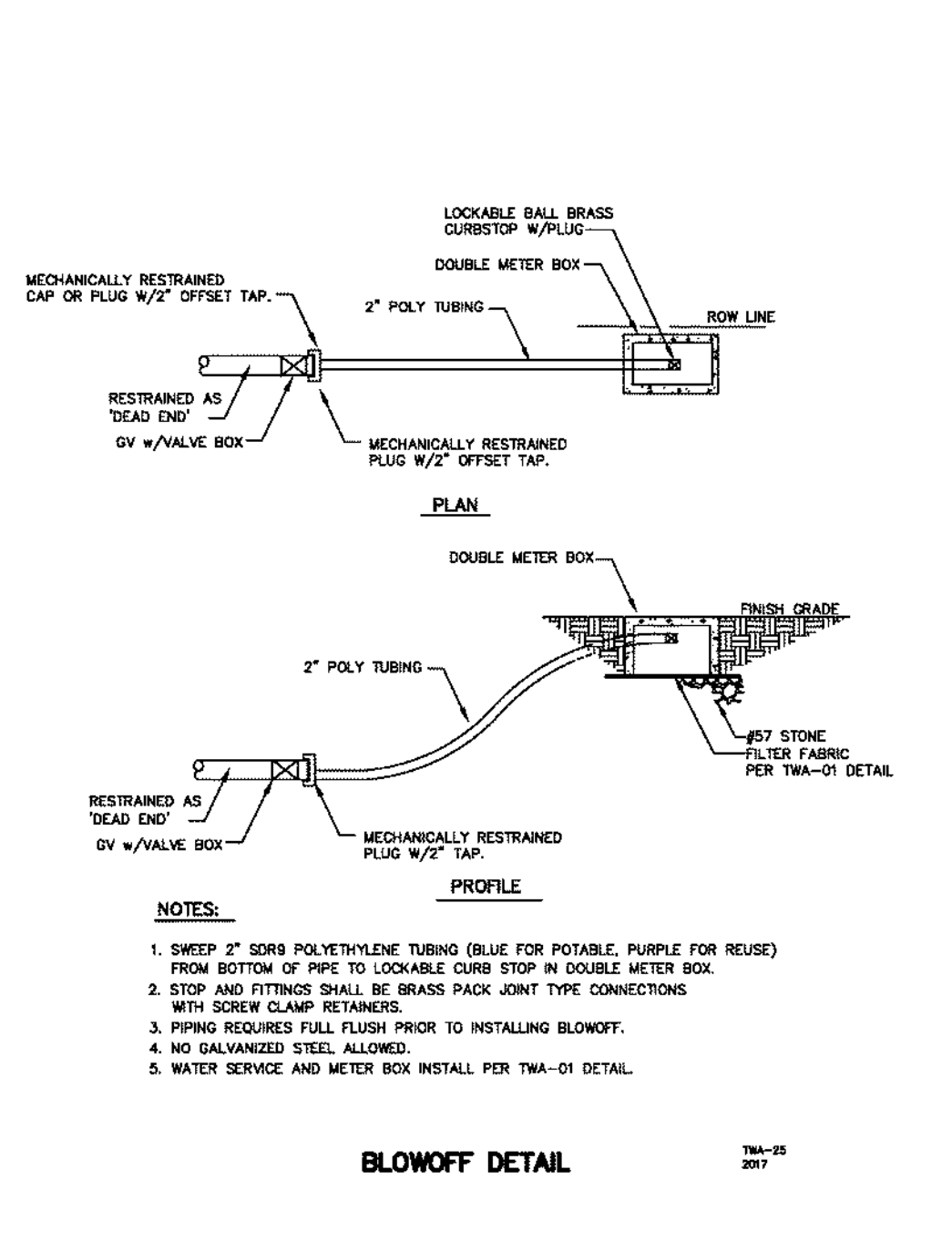
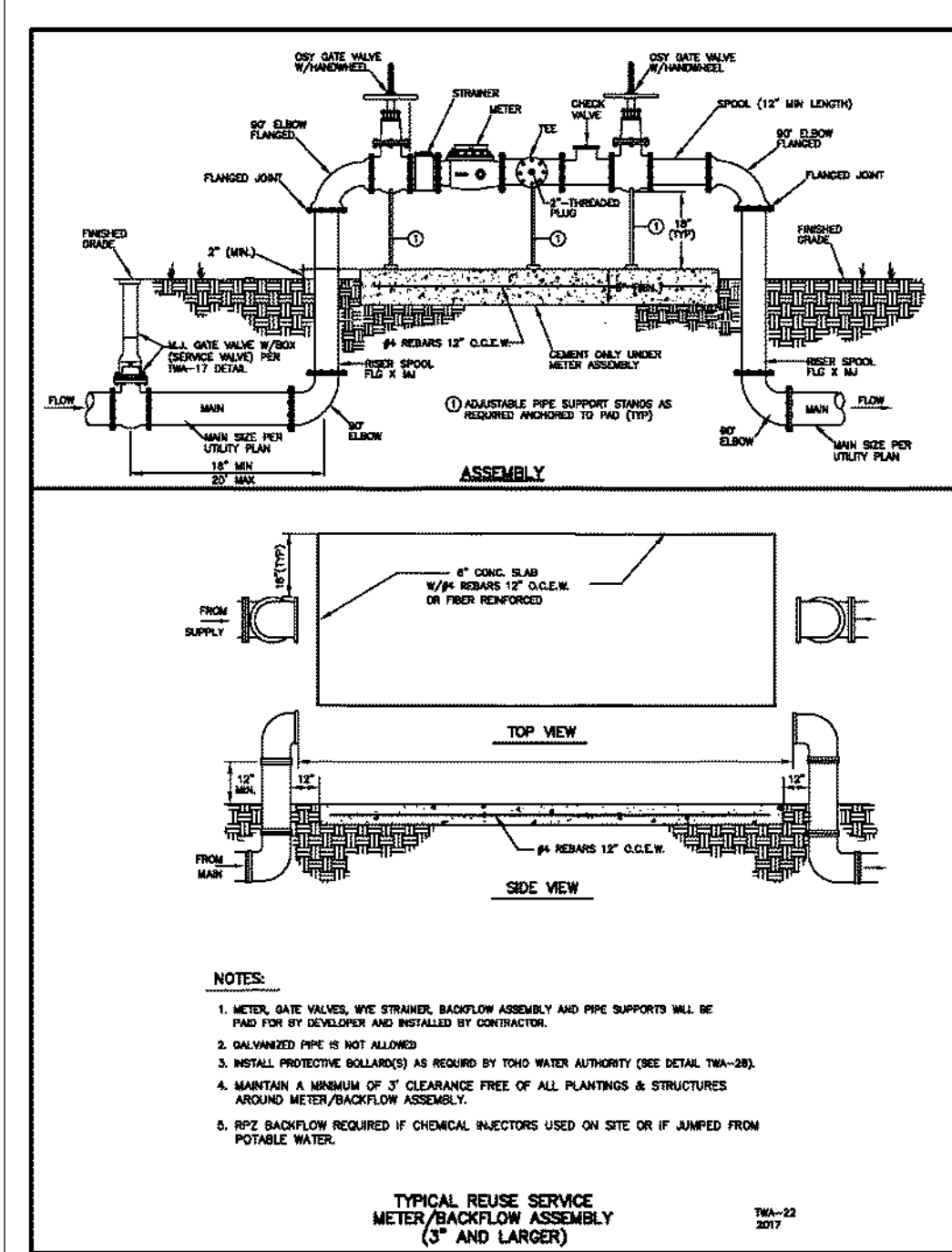
OSCEOLA COUNTY
 PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO ABSHER ROAD - ROAD WIDENING
TWA CONSTRUCTION DETAILS

SHEET NO.
 214

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE FACILITY AS CONSTRUCTED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS. THE DEVELOPER DOES IT REMAINS THE DEVELOPER OF RESPONSIBILITY TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE DRAWINGS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTIONS OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. THIS SPECIFIC APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



POULOS & BENNETT, LLC

ROADWAY UNDERDRAIN EVALUATION & STABILIZED ACCESS ROAD RECOMMENDATIONS CYRILS DRIVE PHASE 1 UTILITY ACCESS ROAD & STABILIZED ACCESS ROAD SUNBRIDGE NED, OSCEOLA COUNTY, FLORIDA

ROADWAY UNDERDRAIN DETAILS

DATE: 1/23/18
DRAWN BY: R.C.A.L.
CHECKED BY: R.C.A.L.
REVISION NO.: 1529470
SCALE: AS SHOWN
PROJECT NO.: 0103-1702292-0020

UNIVERSAL ENGINEERING SCIENCES

FASE NO.: A-1

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REVISIONS			
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POULOS & BENNETT

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2602 E. Livingston St., Orlando, FL 32803
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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO ABSHER ROAD - ROAD WIDENING

TWA CONSTRUCTION DETAILS

SHEET NO.	215
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UTILITY PLAN DISCLAIMER:
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Osceola County
Community Development

THIS APPROVAL IS SPECIFIC TO THE PROJECT AND DOES NOT CONSTITUTE AN ENDORSEMENT OF THE PROJECT OR THE QUALITY OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR COMPLYING WITH ALL APPLICABLE REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR COMPLYING WITH ALL APPLICABLE REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR COMPLYING WITH ALL APPLICABLE REGULATIONS.

TOHO WATER AUTHORITY STANDARD CONSTRUCTION NOTES

General: Construct utilities in accordance with TWA approved plans and shop drawings. Any deviation from the approved plans shall be approved by the DEVELOPER'S ENGINEER and TWA.

1. A preconstruction meeting with the TWA's staff is required prior to initiating construction.

2. All required permits shall be obtained prior to initiating construction.

3. A minimum 12 foot wide access road shall be provided for all TWA owned utilities, which are located outside of roadways. The top 8" of the access road shall be stabilized to a Florida Bearing Value of 75 psi, and compacted to 98% of AASHTO T-180.

- Pipe deflection cannot exceed 50% of the pipe manufacturer's recommendation.
- Reference TWA's Standards, Specifications and Details, latest Edition for issues not specifically addressed below or on the TWA Accepted construction plans.
- Current edition of TWA's Standards, Specifications and Details, at time of TWA plan acceptance shall supersede Accepted Plans. It is the contractor's responsibility to ensure TWA Standards, Specifications and Details are adhered to in construction.

Permits, Plans, Shop Drawings:

- Permits or Letters of Determination from FDEP shall be obtained for the sanitary sewer collection system and water distribution system prior to commencement of construction.
- A stamped approved set of plans by TWA shall be present on the site at all times. Approved plans are valid for 12 months from the date of approval. If construction does not begin within the 12 month period, the DEVELOPER must contact TWA for a project status review and approval extension.
- A minimum of three sets of shop drawings shall be submitted to TWA for review and approval prior to construction.
- Installation of materials and/or structures prior to shop drawing approval is done at the Contractor's own risk.
- Two hard copies and one electronic copy of record drawings shall be submitted to TWA at or before the final inspection. Record drawings shall conform to sections 11.6 of TWA Standards, Specifications and Details.

Water - Testing:

- Water line shall be installed, cleaned, flushed, disinfected and bacteriologically tested and cleared for service in accordance with the latest AWWA standards and FDEP rules and regulations. All water distribution systems shall be flushed clean of all deleterious material prior to any testing. Full diameter flushing is required. Lines 4" and greater shall be pigged.
- Water line shall be pressure tested in accordance with AWWA-C600 (ductile iron pipe) and AWWAC605/M23 (PVC pipe) specifications at 150 psi and witnessed by TWA personnel. No leakage shall be allowed. Schedule test a minimum of 72 hours in advance.
- All water mains shall be disinfected in accordance with the latest version of AWWA C651 and witnessed by TWA personnel.
- All bacteriological samples shall be witnessed by TWA personnel.

Water - Materials:

- PVC pipe: four (4) inches through twelve (12) inches shall be AWWA C-900, latest edition. Fourteen inches through thirty-six (36) inches shall be AWWA C-905, latest edition.

Any fittings required shall be mechanical joint ductile iron conforming to ANSI/AWWA A21.10/C110, 250 psi minimum pressure rating, or ductile iron compact fittings in accordance with ANSI/AWWA A21.53/C153.

Joints for ductile iron pipe shall be push-on or mechanical joints conforming to ANSI/AWWA A21.11/C111. Above ground joints shall be flanged with T5 cadmium plated bolts, nuts and washers. Flanged joints shall conform to ANSI Standard B 16.1-125 LB.

Where ductile iron pipe and fittings are to be below ground or installed in a casing pipe the coating shall be a minimum 1.0 mil thick in accordance with ANSI/AWWA A21.51/C151.

Where ductile iron pipe and fittings are to be installed above ground, pipe, fittings and valves shall be thoroughly cleaned and given one field coat (minimum 1.5 mils dry thickness) of rust inhibitor primer, and two finish coats (minimum 1.5 mils dry thickness each).

All ductile iron pipe and fittings shall have an interior protective lining of cement-mortar with a seal coat of asphaltic material in accordance with ANSI/AWWA A21.4/C104.

The pipe shall be polyethylene encased (8 mil) where shown on the PLANS, in accordance with

ANSI/AWWA A21.51/C105.

3. Polyethylene pipe: four (4) through twelve (12)" shall be AWWA standard C906, PE3408 latest edition. The polyethylene pipe shall have a minimum working pressure rating of 160 psi and shall have a standard dimension ratio (SDR) of 11. Pipe shall be the same ID as ductile iron pipe.

Polyethylene pipe shall have fusion bonded joints.

Fittings used with polyethylene pipe shall be fusion fittings in accordance with AWWA Standard C906.

- Service pipes: All service lines shall be 1", 1-1/2" or 2" blue, PC200, SDR9, polyethylene tubing conforming to specifications in AWWA C901, PE3608. 4" and larger service pipe shall be C-900 PVC or 3" service pipe shall not be permitted.
- Valves shall be resilient wedge gate valves.
- Valves shall be located at not more than 500 foot intervals in commercial, industrial and high density residential areas and at not more than 1000 foot intervals in all other areas. Appropriate valving shall also be provided at the downstream sides of tees and crosses and both sides of a directional bore or jack and bore.. This shall include all sides of tees and crosses within looped systems, where flow is potentially multidirectional.
- All meters shall be installed by TWA after all payment of applicable fees and charges. All meters 2" and less in size shall be installed underground in an approved meter box. Meters larger than 2" shall be installed above ground. In general, meters 2 inch and larger shall be located in a meter easement located adjacent to the public right of way and outside of paved areas.

Reuse - Testing:

- Reuse line shall be installed, cleaned, flushed, disinfected and bacteriologically tested and cleared for service in accordance with the latest AWWA standards and FDEP rules and regulations.

All reuse distribution systems shall be flushed clean of all deleterious material prior to any testing. Full diameter flushing is required. Lines 4" and greater shall be pigged.
- Reuse lines shall be pressure tested in accordance with AWWA-C600 (ductile iron pipe) and AWWAC605/M23 (PVC pipe) specifications at 150 psi and witnessed by TWA personnel. No leakage shall be allowed. Schedule test a minimum of 72 hours in advance.
- All reuse mains shall be disinfected in accordance with the latest version of AWWA C651 and witnessed by TWA personnel.
- All bacteriological samples shall be witnessed by TWA personnel.

Reuse - Materials:

- PVC pipe: four (4) inches through twelve (12) inches shall be AWWA C-900, latest edition. Fourteen inches through thirty-six (36) inches shall be AWWA C-905, latest edition.

Any fittings required shall be mechanical joint ductile iron conforming to ANSI/AWWA A21.10/C110, 250 psi minimum pressure rating, or ductile iron compact fittings in accordance with ANSI/AWWA A21.53/C153.

Joints for ductile iron pipe shall be push-on or mechanical joints conforming to ANSI/AWWA A21.11/C111. Above ground joints shall be flanged with T5 cadmium plated bolts, nuts and washers. Flanged joints shall conform to ANSI Standard B 16.1-125 LB.

Where ductile iron pipe and fittings are to be below ground or installed in a casing pipe the coating shall be a minimum 1.0 mil thick in accordance with ANSI/AWWA A21.51/C151.

Where ductile iron pipe and fittings are to be installed above ground, pipe, fittings and valves shall be thoroughly cleaned and given one field coat (minimum 1.5 mils dry thickness) of rust inhibitor primer, and two finish coats (minimum 1.5 mils dry thickness each).

All ductile iron pipe and fittings shall have an interior protective lining of cement-mortar with a seal coat of asphaltic material in accordance with ANSI/AWWA A21.4/C104.

The pipe shall be polyethylene encased (8 mil) where shown on the PLANS, in accordance with ANSI/AWWA A21.51/C105.
- Polyethylene pipe: four (4) through twelve (12)" shall be AWWA standard C906, PE3408 latest edition. The polyethylene pipe shall have a minimum working pressure rating of 160 psi and shall have a standard dimension ratio (SDR) of 11. Pipe shall be the same ID as ductile iron pipe.

Polyethylene pipe shall have fusion bonded joints.

Fittings used with polyethylene pipe shall be fusion fittings in accordance with AWWA Standard C906.

- Service pipes: All service lines shall be 1", 1-1/2" or 2" purple, PC200, SDR9, polyethylene tubing conforming to specifications in AWWA C901, PE3608. 4" and larger service pipe shall be C-900 PVC or 3" service pipe shall not be permitted.
- Valves shall be resilient wedge gate valves.
- Valves shall be located at not more than 500 foot intervals in commercial, industrial and high density residential areas and at not more than 1000 foot intervals in all other areas. Appropriate valving shall also be provided at the downstream sides of tees and crosses and both sides of a directional bore or jack and bore. This shall include all sides of tees and crosses within looped systems, where flow is potentially multidirectional.
- All meters shall be installed by the TWA after all payment of applicable fees and charges. All meters 2" and less in size shall be installed underground in an approved meter box. Meters larger than 2" shall be installed above ground. In general, meters 2 inch and larger shall be located in a meter easement located adjacent to the public right of way and outside of paved areas.

Sewer - Testing:

Prior to any testing to be witnessed, all passing soil density tests and slope surveys shall be submitted to the TWA Engineer and to the TWA Inspector.

- All sanitary manholes shall be inspected by TWA personnel.
- Sanitary sewers shall be video inspected and witnessed by TWA personnel.
- Sanitary sewers shall be low pressure air tested with no allowable loss and witnessed by TWA personnel. Schedule test a minimum of 72 hours in advance.

Gravity Sewer - Materials:

- PVC pipe: four (4)" through fifteen (15)" shall be ASTM D3034, SDR 35. The joints shall be integral bell elastomeric gasket joints manufactured in accordance with ASTM D3212 and ASTM F477/ Applicable UNI-Bell Plastic Pipe Association standard is UNI B-4.

PVC pipe: eighteen (18)" through twenty-seven (27)" shall be ASTM F679, SDR 35. The joints shall be integral bell elastomeric gasket joints manufactured in accordance with ASTM D3212 and ASTM F477/ Applicable UNI-Bell Plastic Pipe Association standard is UNI B-7.

All PVC pipe shall bear the NSF-DW seal. The minimum standard length of pipe shall be thirteen (13) PVC pipe with less than 15 ft of cover shall be SDR 35; 15 to 20 ft shall be SDR 26; and 20 to 30 ft shall be SDR 18.
- DIP pipe: ANSI/AWWA A21.51/C151, class thickness designed per ANSI/AWWA A21.50/C150, with push on joints. An interior protective lining of "Protecto 401" epoxy, or equal, with a minimum dry film thickness 40 mils.
- Joint Materials:

- PVC sewer pipe joints shall be flexible elastomeric seals per ASTM D3212.

- DIP and fitting joints shall be "push-on" or mechanical joints conforming to ANSI A21.11.

- Joints between pipes of different materials shall be made with a rigid, PVC, adaptor coupling. Fernco adapters are not allowed.

Sewer Force Mains - Testing:

- Force main piping shall be installed and pigged until clean.
- Force main shall be pressure tested in accordance with AWWA-C600 (ductile iron pipe) and AWWAC605/M23 (PVC pipe) specifications at 100 psi or 1.5 times the operating pressure, whichever is greater for a minimum of 2 hours and witnessed by TWA personnel. No leakage shall be allowed. Schedule test a minimum of 72 hours in advance.

Sewer Force Mains - Materials:

- PVC pipe: four (4)" through twelve (12)" shall be AWWA standard C900 and a dimension ratio (DR) of 25.

PVC pipe shall be integral bell, push-on type joints.
- DIP pipe: four (4)" through fifty-four (54)" shall be ANSI/AWWA A21.51/C151 with a minimum of pressure class 150 and lined with Protecto 401 or equal.

All fittings shall be mechanical joint ductile iron conforming to ANSI/AWWA A21.10/C110, 250 psi minimum pressure rating, four (4) through twelve (12)".

Joints for DIP shall be push-on or mechanical joints and joints for fittings shall be mechanical joints conforming to ANSI/AWWA A21.11/C111.

Above ground joints shall be flanged with T5 cadmium plated bolts, nuts, and washers. Flanged joints shall conform to ANSI Standard B16.1-125 LB.

Where ductile iron pipe and fittings are to be below ground or installed in a casing pipe the coating shall

be a minimum 1.0 mil thick in accordance with ANSI/AWWA A21.51/C151.

Where ductile iron pipe and fittings are to be installed above ground, pipe, fittings and valves shall be thoroughly cleaned and given one field coat (minimum 1.5 mils dry thickness) of rust inhibitor primer, and two finish coats (minimum 1.5 mils dry thickness each).

All ductile iron pipe and fittings shall have an interior protective lining of "Protecto 401" epoxy or equal with a minimum dry film thickness of 40 mils.

The pipe shall be polyethylene encased (8 mil) where shown on the PLANS, in accordance with ANSI/AWWA A21.51/C105.

- Polyethylene (PE3408) pipe: four (4)" through twelve (12)" shall be in accordance with AWWA standard C906, latest edition. The polyethylene pipe shall have a minimum working pressure rating of 100 psi and shall have a dimension ratio (DR) of 17.

Polyethylene pipe shall have fusion bonded joints.

Fittings used with polyethylene pipe shall be fusion fittings in accordance with AWWA Standard C906.
- Wastewater force mains shall be equipped with air release valves located at piping high points immediately upstream of dips, or other elevation declines.
- Valves shall be resilient wedge gate valves.
- Valves shall be located at not more than 2,000 foot intervals in all areas.

Separation Requirements:

Per F.D.E.P. requirements and subject to TWA approval.

Miscellaneous:

- All tie-ins to existing manholes shall be core drilled. Connect pipe to manhole using a flexible connector or approved A-lok.
- All mechanical joints shall be restrained. Thrust blocks are not allowed for TWA maintained infrastructures.
- Maintain a minimum of 36" of cover measured from the bottom of the sub-grade over all pipes. If less than 36" of cover, use DIP and notify engineer for evaluation.
- Galvanized pipe is not allowed and if encountered shall be replaced with approved materials.
- Marking tape shall be installed 12" to 18" over all pipe. All PVC pipe shall be green in color (for sewer), blue in color (for water) and purple in color (for reuse). DIP shall have a continuous 2" wide, permanent green/blue/purple stripe (oil based enamel) on the top of the pipe.
- A continuous, insulated 14 gauge copper wire shall be installed under the pipe and be accessible at each valve box. Directional bores shall use 8 gauge steel core copper and 8 gauge copper wire. One each at a minimum.
- Only rigid adapters shall be permitted unless transitioning to clay pipe.
- In general, one compaction test shall be taken for each 12" layer of fill from the springline of the pipe to the finish grade for each 300 feet of pipe and for every 100 square feet of backfill around structures.
- All existing water, reuse and sanitary appurtenances on a project site or affected by project WORK shall be protected during construction and shall be brought to finished grade per the STANDARD CONSTRUCTION DETAILS.
- All tree and shrub root balls shall be placed with a minimum of 5' horizontal separation from Toho maintained utilities.
- If the underground contractor de-mobilizes between phases of a project and the water distribution system has been cleared for use by FDEP, the contractor will be required to install automatic flushing devices on all water main dead-ends whether intended as stub-outs or as incomplete construction. If the site has not been cleared for use by FDEP, the contractor will be required to physically disconnect all un-cleared mains from the points-of-connection to cleared mains.
- When required by another regulatory agency, masonry walls around lift stations shall require barbed wire at the top of the wall. At TWA's discretion, alternative anti-climb measures may also be utilized in place of barbed wire, however, signage will be required on all exterior walls indicating the use of anticlimb measures that may not be visible.
- All permanent structures including, but not limited to: building foundations, walls, and light poles shall be placed with a minimum 10' horizontal separation from all TWA owned infrastructure.

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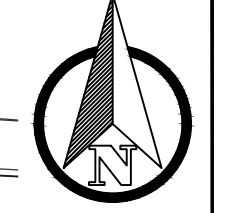
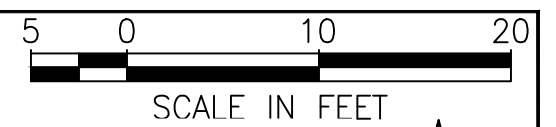
ETHER 2023

R E V I S I O N S				 Poulos & Bennett, LLC 2602 E. Livingston St., Orlando, FL 32803 Tel. 407.487.2394 www.poulosandbennett.com Eng. Bus. No. 28567	OSCEOLA COUNTY PROJECT NO. (SDP23-0132)	CYRILS DRIVE / NARCOOSSEE ROAD TO ABSHER ROAD - ROAD WIDENING TWA CONSTRUCTION NOTES	SHEET NO. 216
DATE	DESCRIPTION	DATE	DESCRIPTION				

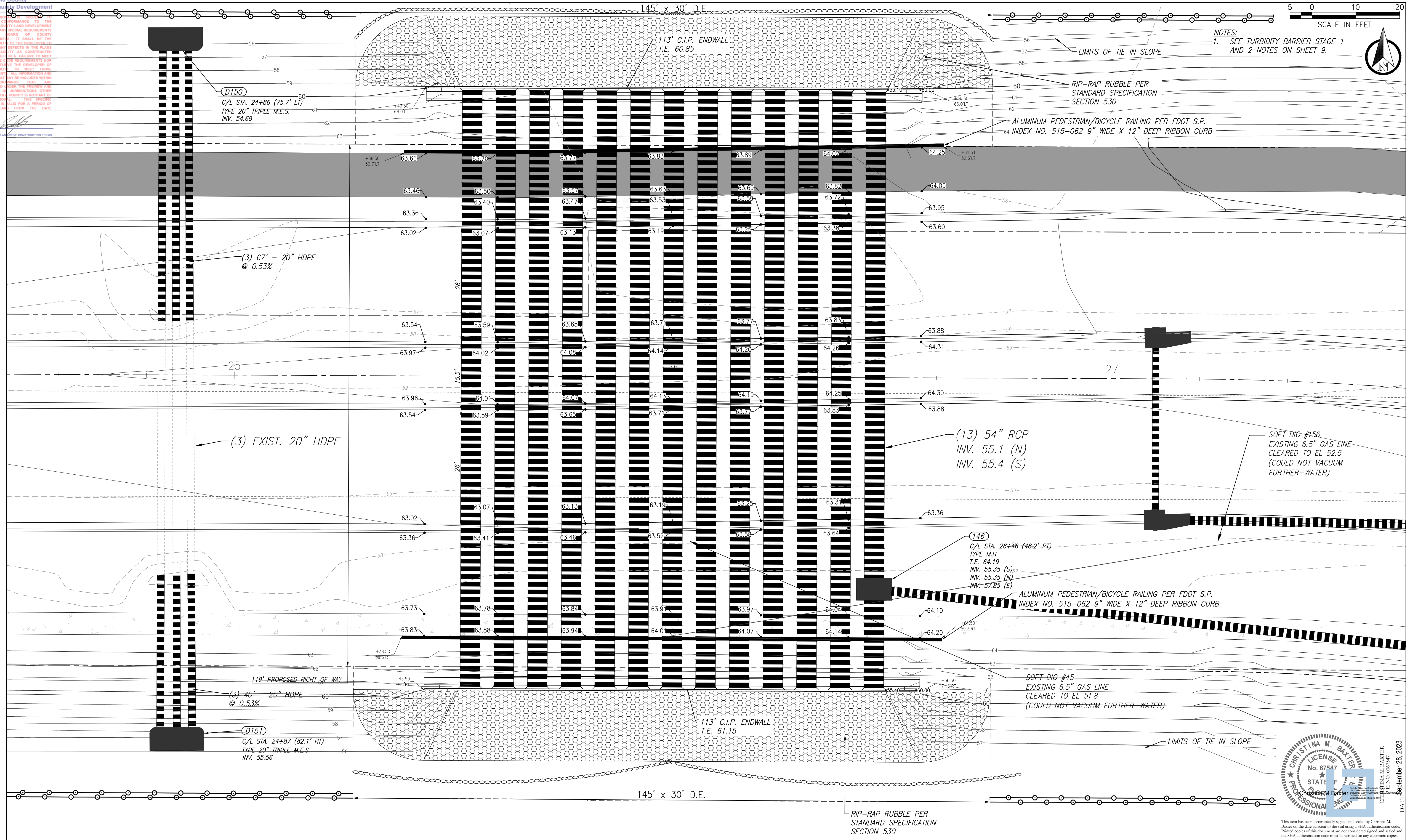
Osceola County
Community Development

THIS APPROVAL IS LIMITED TO THE SPECIFIC INFORMATION ON THIS PLAN. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

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NOTES:
1. SEE TURBIDITY BARRIER STAGE 1 AND 2 NOTES ON SHEET 9.



Z:\2017\17-042 TAVISSTOCK - SUNBRIER\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-10208-CD&M-BP

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT

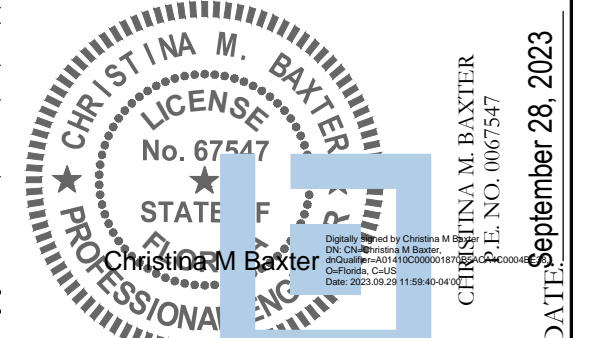
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Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING

CULVERT PLAN

SHEET NO.
217



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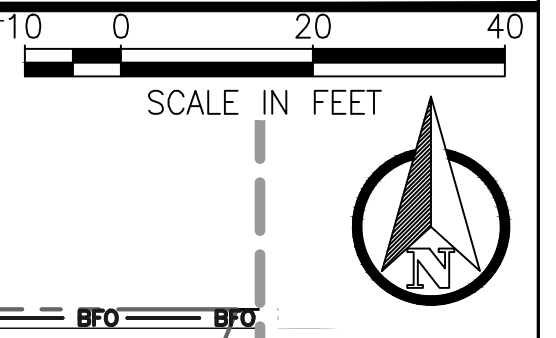
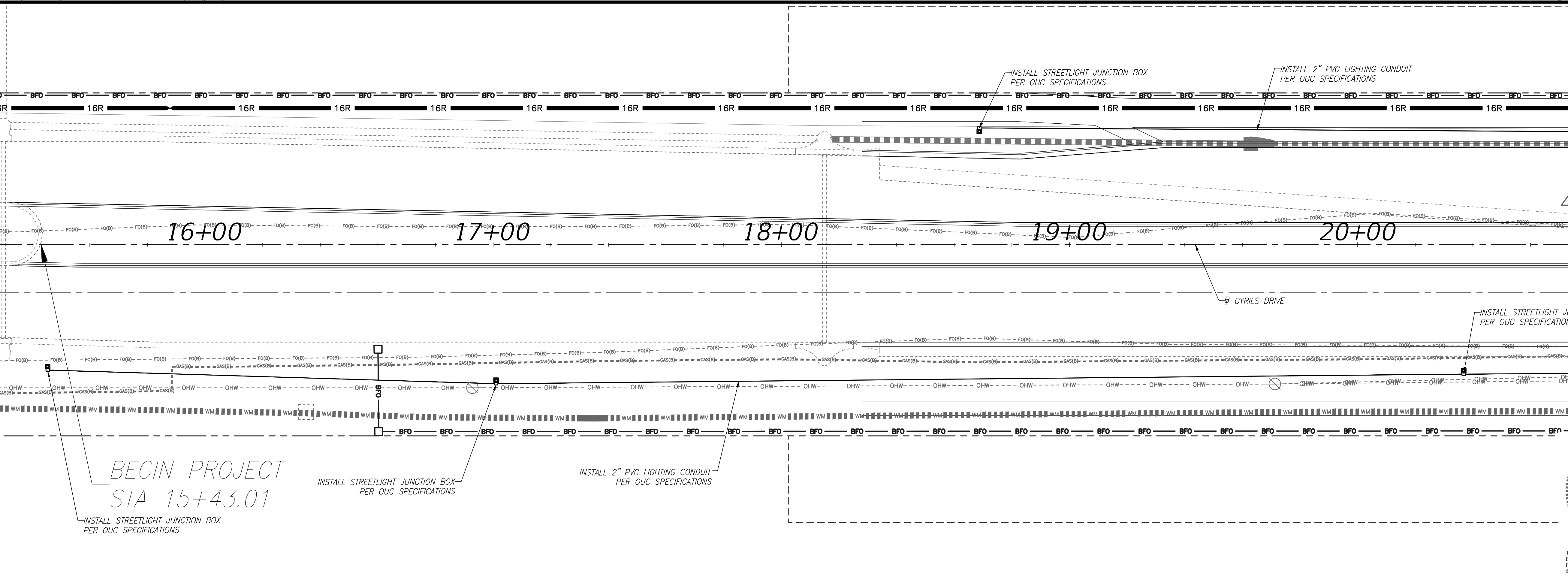
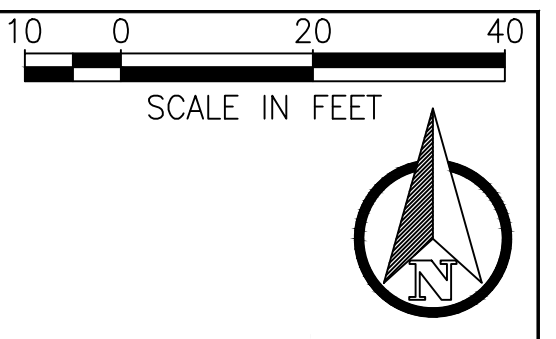
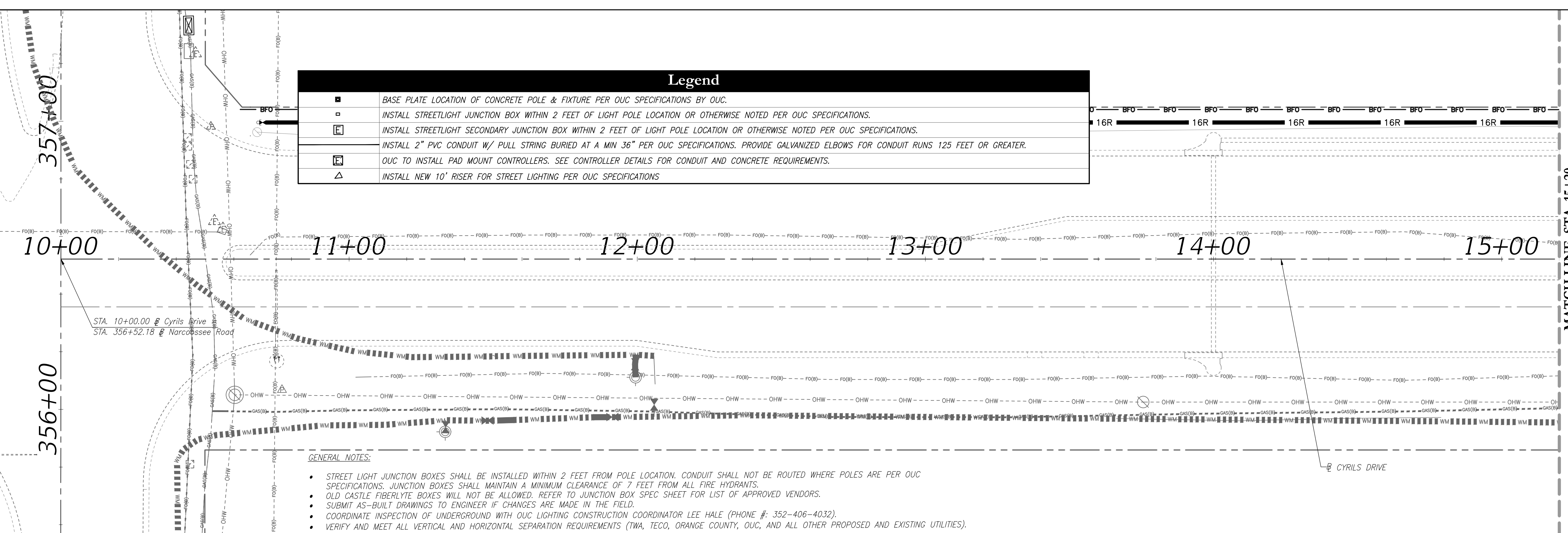
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Legend	
■	BASE PLATE LOCATION OF CONCRETE POLE & FIXTURE PER OUC SPECIFICATIONS BY OUC.
□	INSTALL STREETLIGHT JUNCTION BOX WITHIN 2 FEET OF LIGHT POLE LOCATION OR OTHERWISE NOTED PER OUC SPECIFICATIONS.
⊞	INSTALL STREETLIGHT SECONDARY JUNCTION BOX WITHIN 2 FEET OF LIGHT POLE LOCATION OR OTHERWISE NOTED PER OUC SPECIFICATIONS.
—	INSTALL 2" PVC CONDUIT W/ PULL STRING BURIED AT A MIN 36" PER OUC SPECIFICATIONS. PROVIDE GALVANIZED ELBOWS FOR CONDUIT RUNS 125 FEET OR GREATER.
⊞	OUC TO INSTALL PAD MOUNT CONTROLLERS. SEE CONTROLLER DETAILS FOR CONDUIT AND CONCRETE REQUIREMENTS.
△	INSTALL NEW 10' RISER FOR STREET LIGHTING PER OUC SPECIFICATIONS

GENERAL NOTES:

- STREET LIGHT JUNCTION BOXES SHALL BE INSTALLED WITHIN 2 FEET FROM POLE LOCATION. CONDUIT SHALL NOT BE ROUTED WHERE POLES ARE PER OUC SPECIFICATIONS. JUNCTION BOXES SHALL MAINTAIN A MINIMUM CLEARANCE OF 7 FEET FROM ALL FIRE HYDRANTS.
- OLD CASTLE FIBERLYTE BOXES WILL NOT BE ALLOWED. REFER TO JUNCTION BOX SPEC SHEET FOR LIST OF APPROVED VENDORS.
- SUBMIT AS-BUILT DRAWINGS TO ENGINEER IF CHANGES ARE MADE IN THE FIELD.
- COORDINATE INSPECTION OF UNDERGROUND WITH OUC LIGHTING CONSTRUCTION COORDINATOR LEE HALE (PHONE #: 352-406-4032).
- VERIFY AND MEET ALL VERTICAL AND HORIZONTAL SEPARATION REQUIREMENTS (TWA, TECO, ORANGE COUNTY, OUC, AND ALL OTHER PROPOSED AND EXISTING UTILITIES).



Z:\2017\17-042 TAVIS/STOCK - SUNBRIDE/CYRILS DR WIDENING\CAD\FINAL\COUNTY\17042-10208-CD&M-CONDUIT

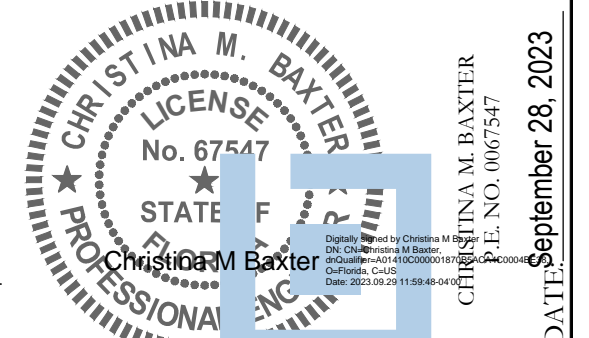
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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CONDUIT PLAN

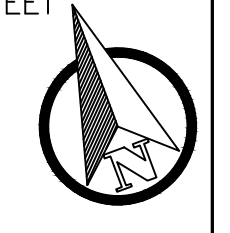
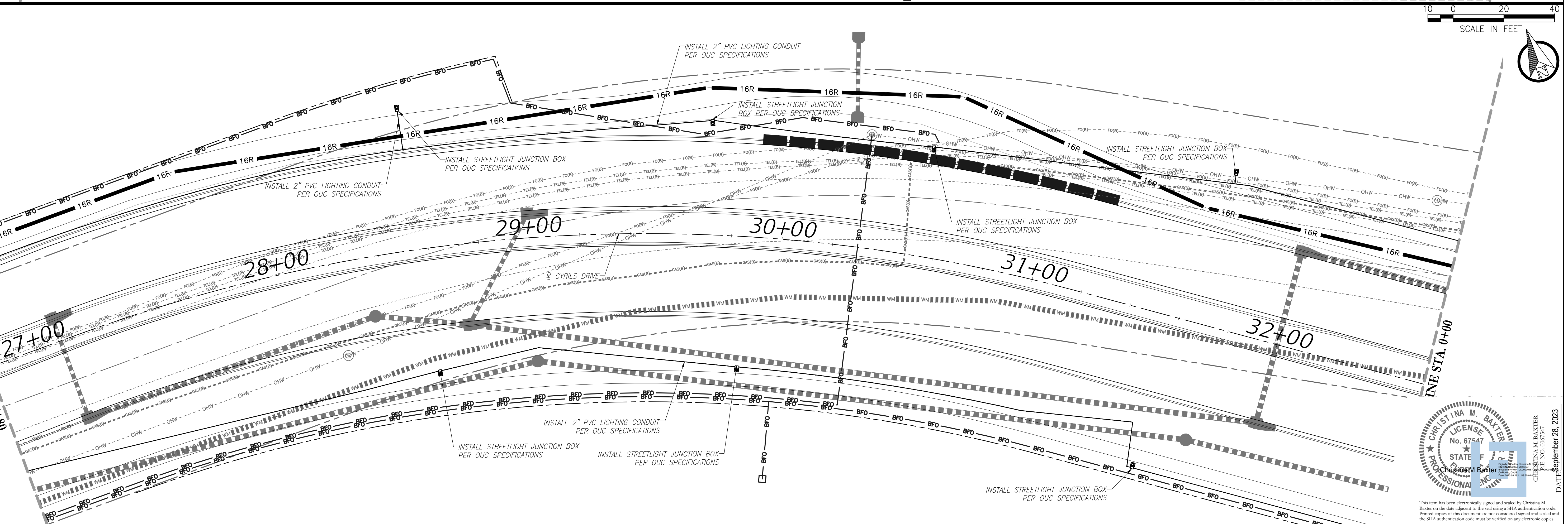
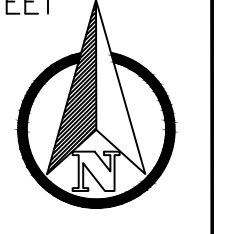
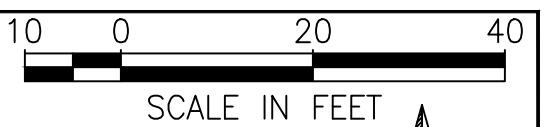
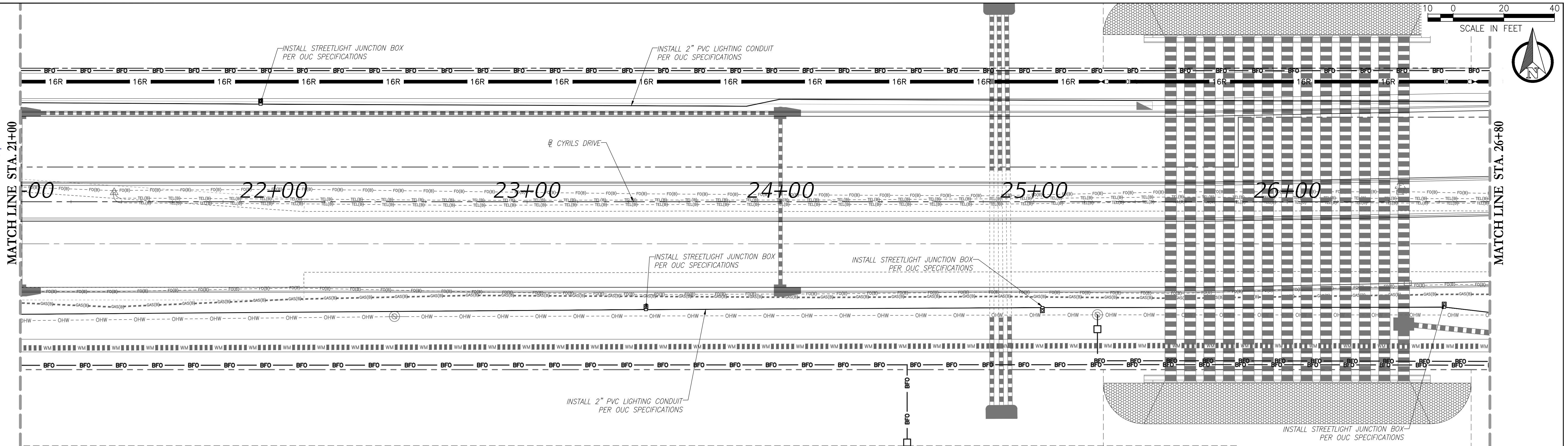
SHEET NO.
252



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REVISIONS			
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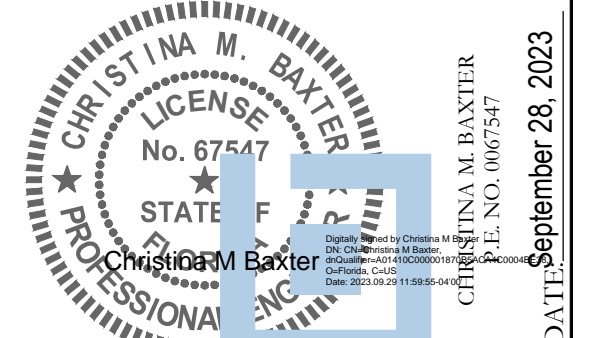


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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CONDUIT PLAN

SHEET NO.
253

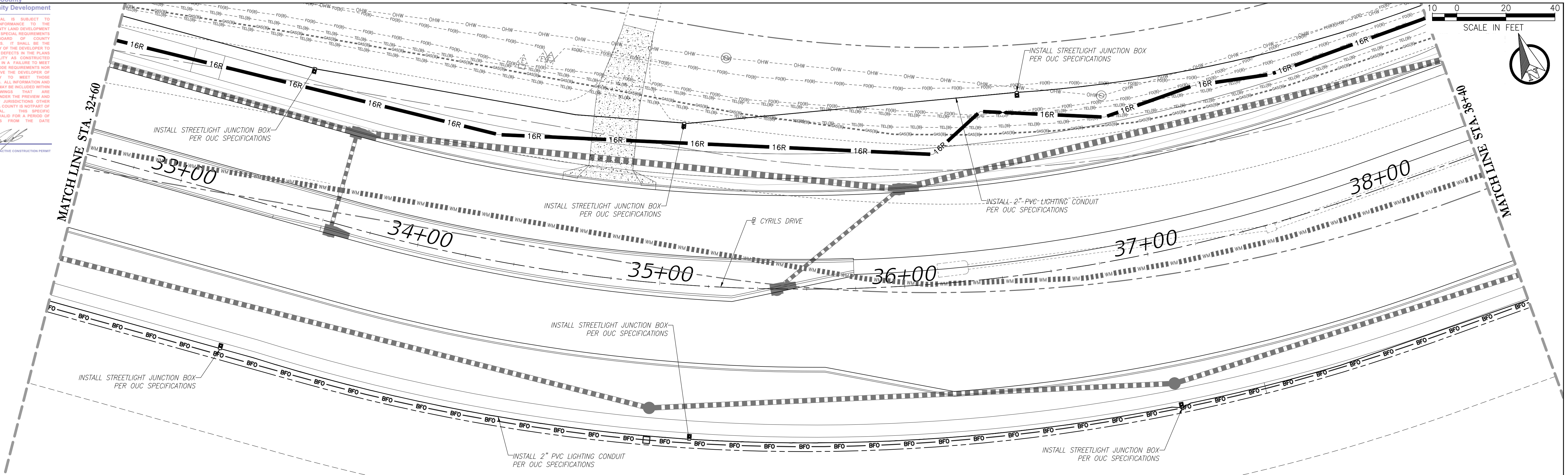


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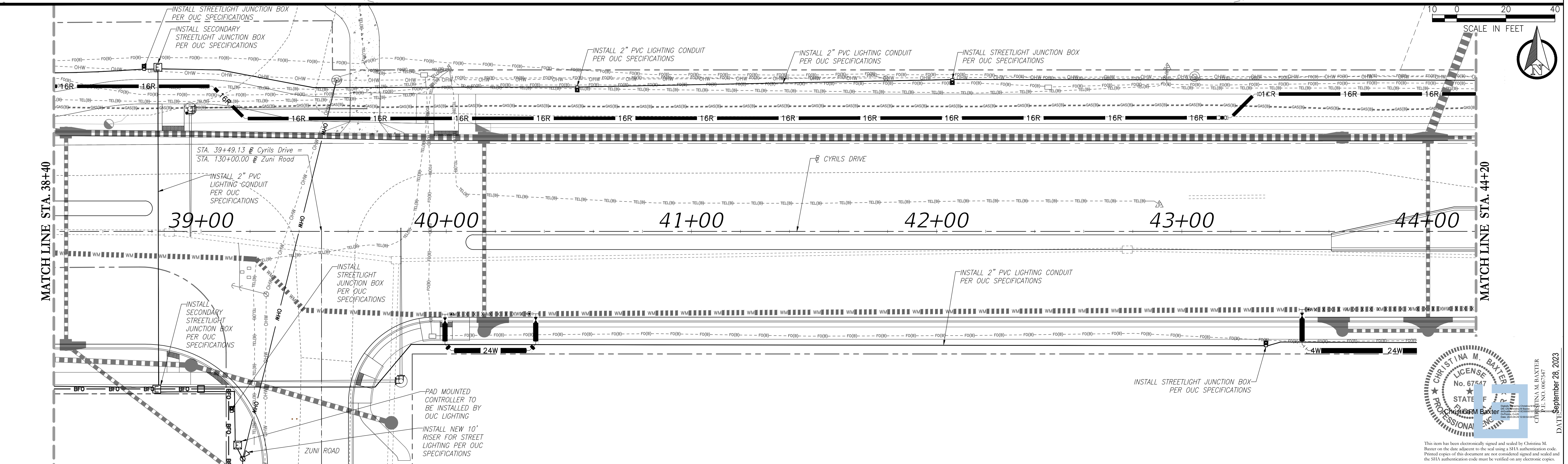
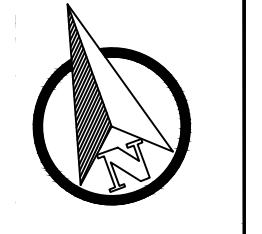
DATE: September 28, 2023

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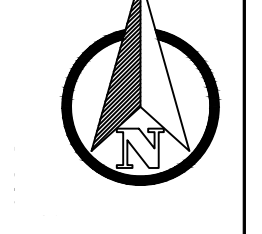
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SCALE IN FEET



REVISIONS

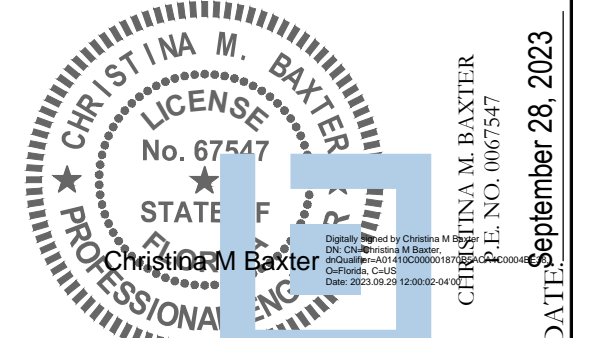
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CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CONDUIT PLAN



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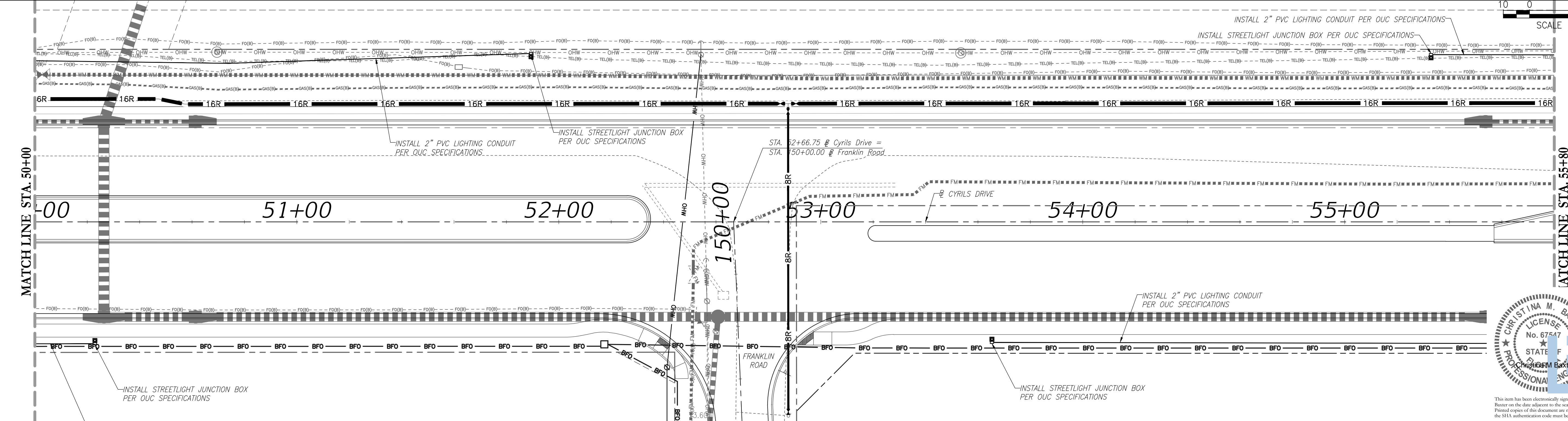
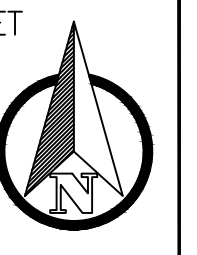
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Z:\2017\17-042 TAMISDCK - SUNBRIE/CYRILS DR WARCOSSEE TO ABSHER/ROAD WIDENING/CONDUIT

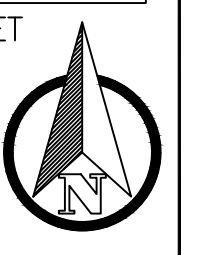
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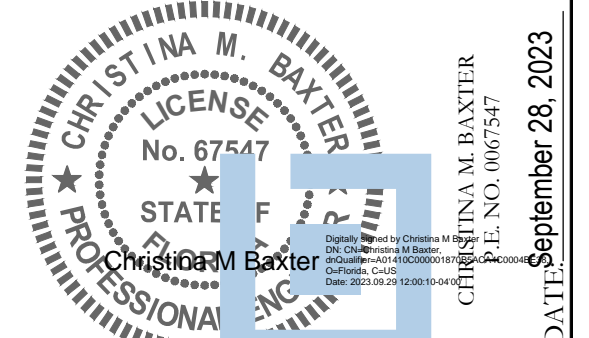
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ABSHER ROAD - ROAD WIDENING
CONDUIT PLAN

SHEET NO.
255

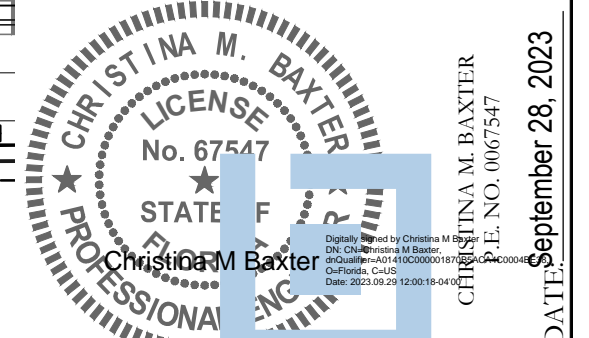
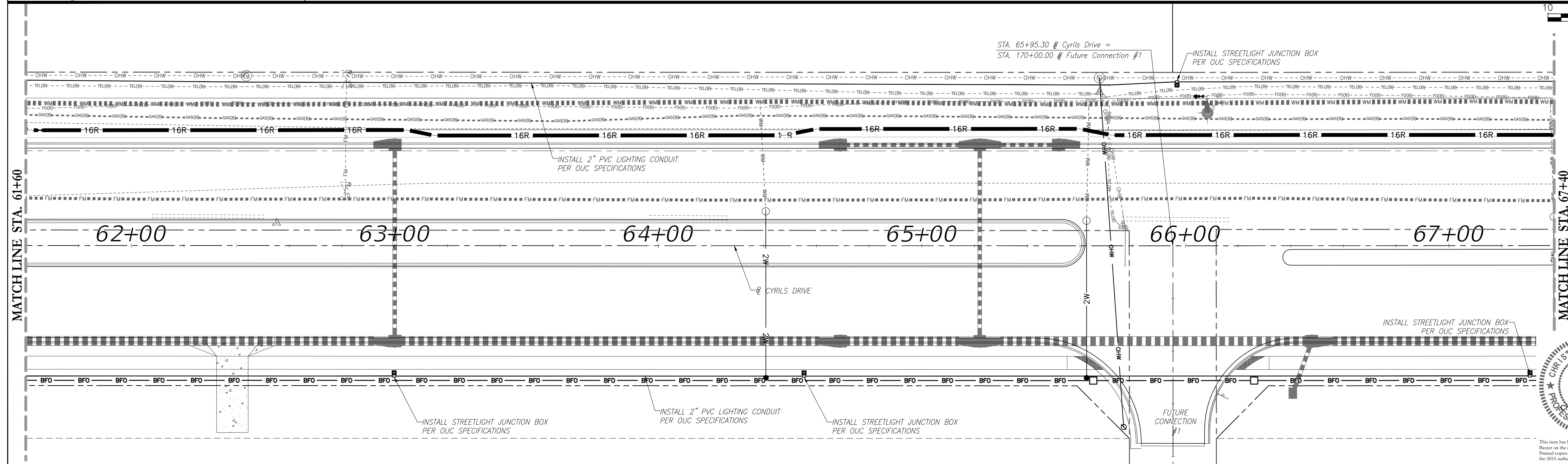
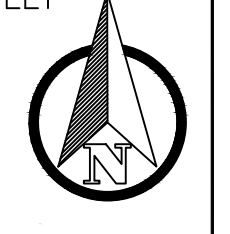
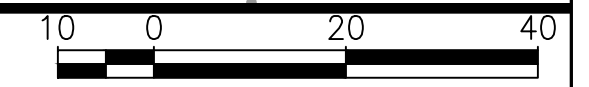
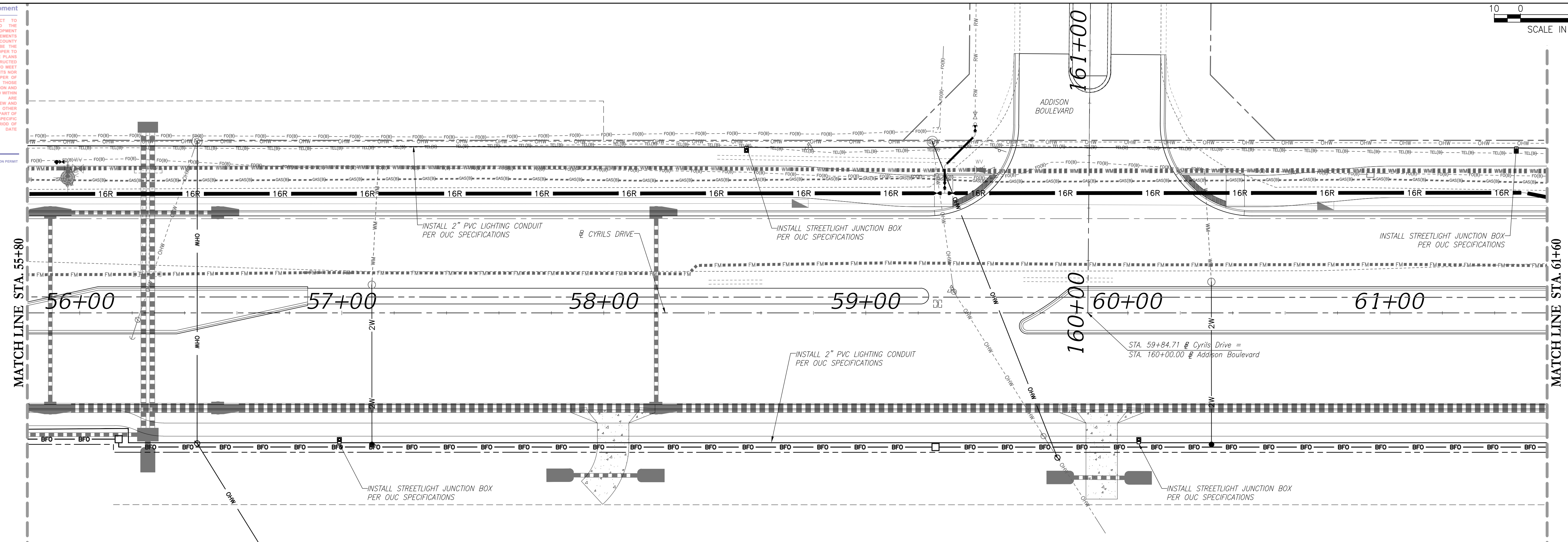
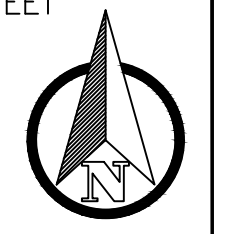
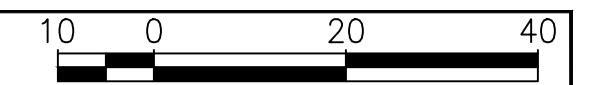


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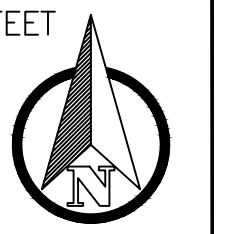
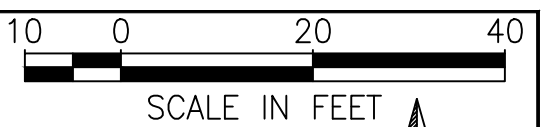
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CONDUIT PLAN

SHEET NO.
256

DATE: September 28, 2023

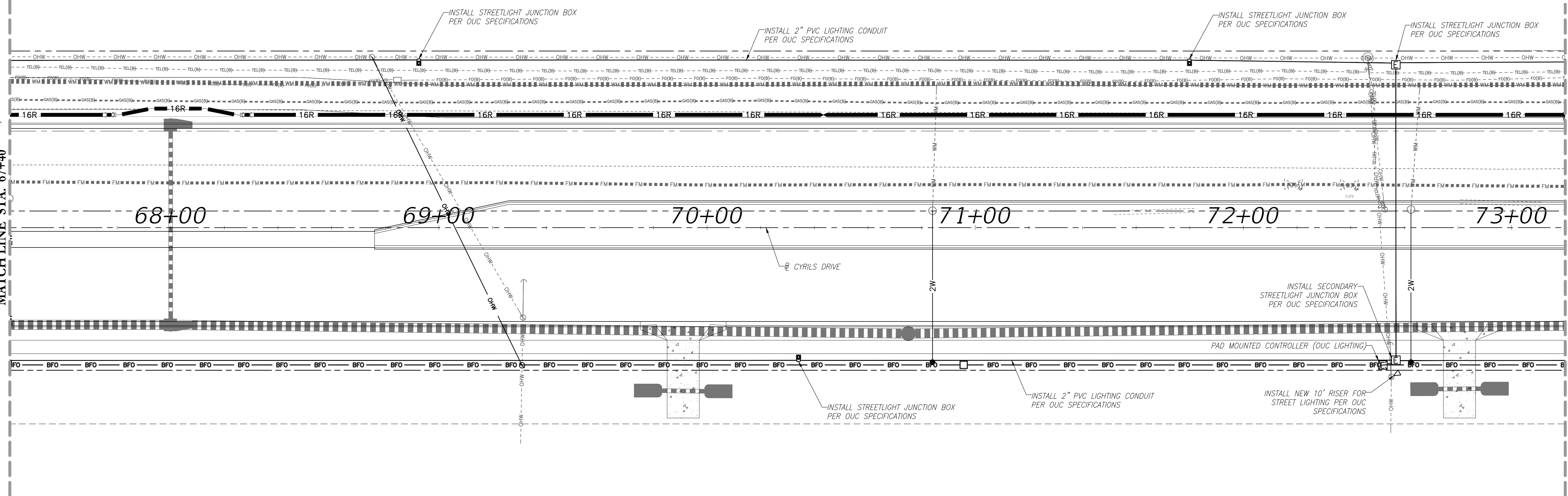
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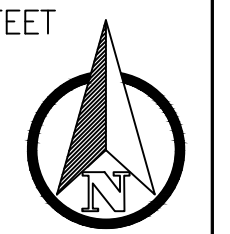
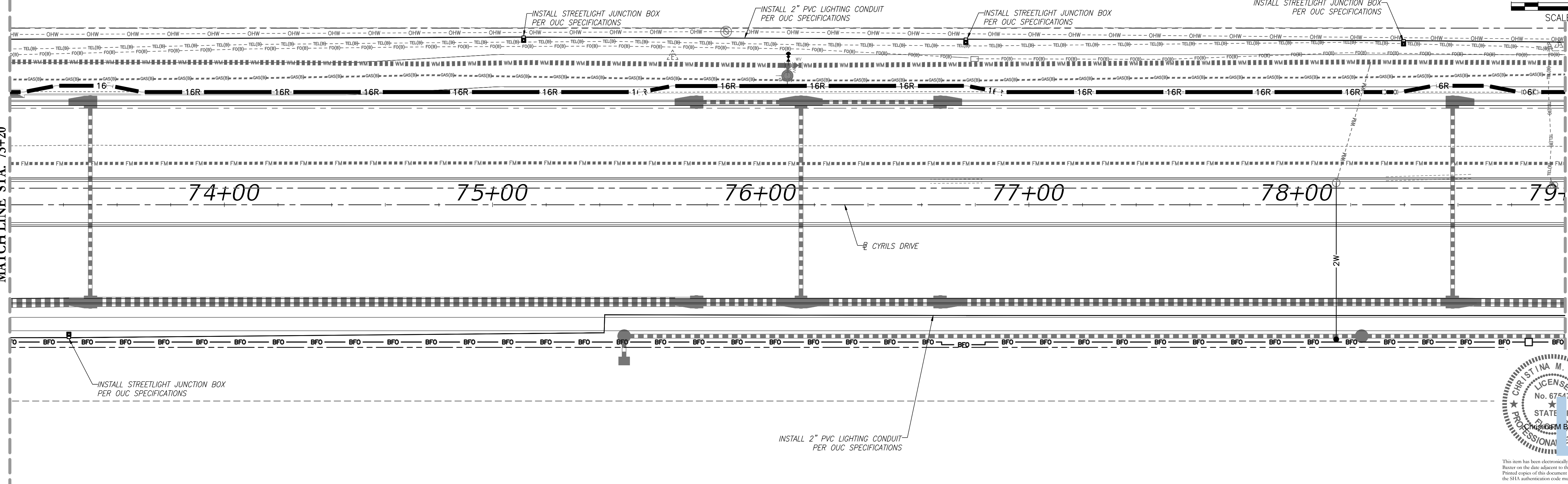
MATCHLINE STA. 67+40

MATCHLINE STA. 73+20



MATCHLINE STA. 73+20

MATCHLINE STA. 79+00



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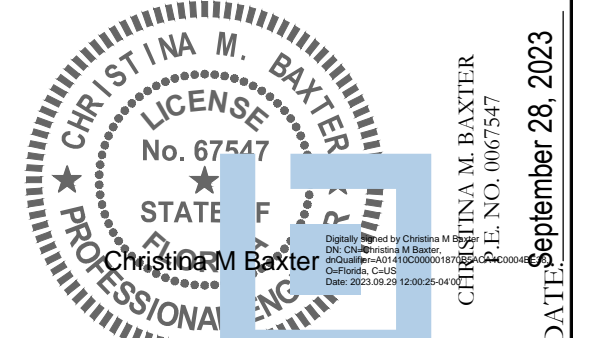
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SHEET NO.
257

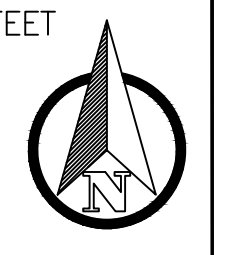


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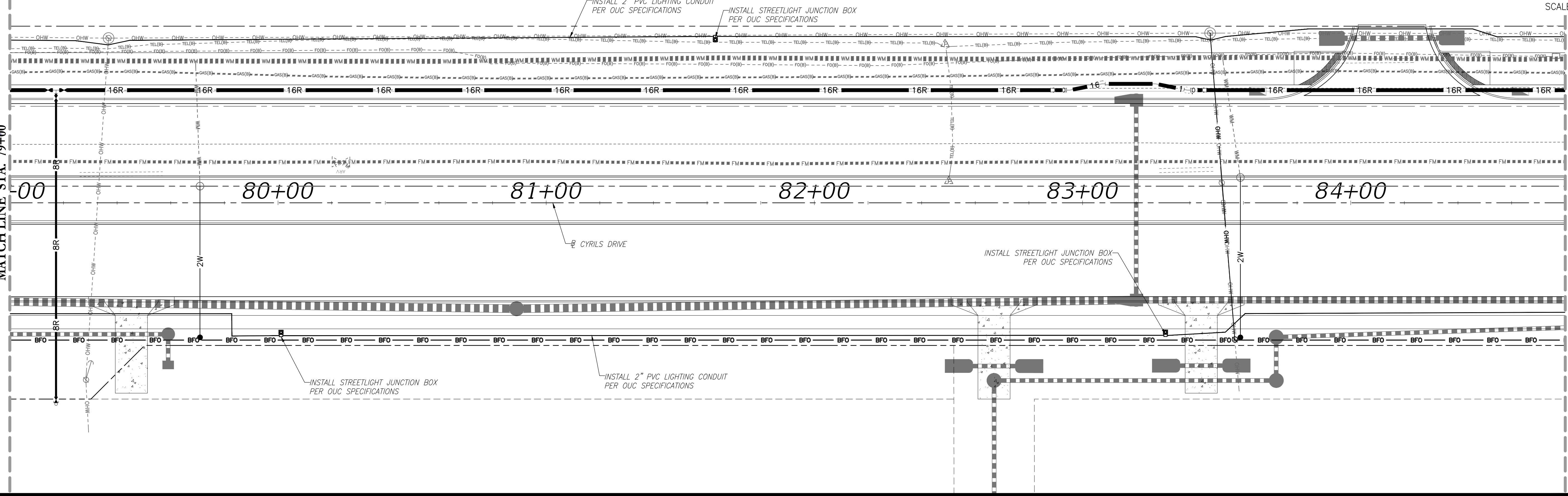
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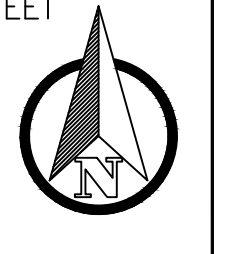


MATCH LINE STA. 79+00

MATCH LINE STA. 84+80

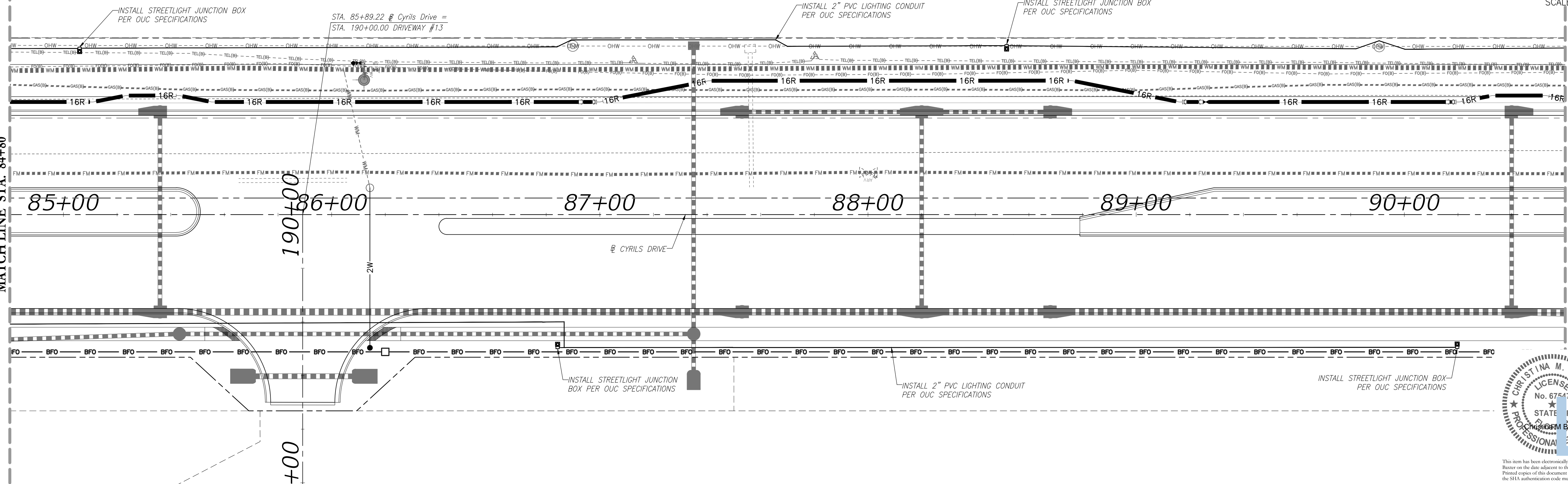


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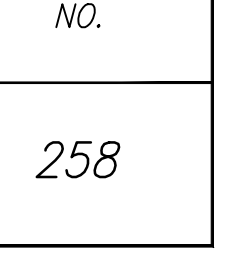


MATCH LINE STA. 84+80

MATCH LINE STA. 90+60



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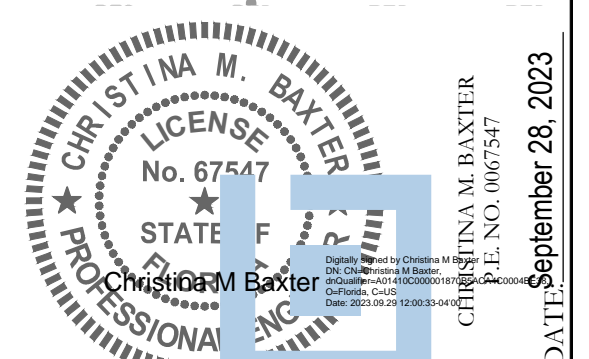
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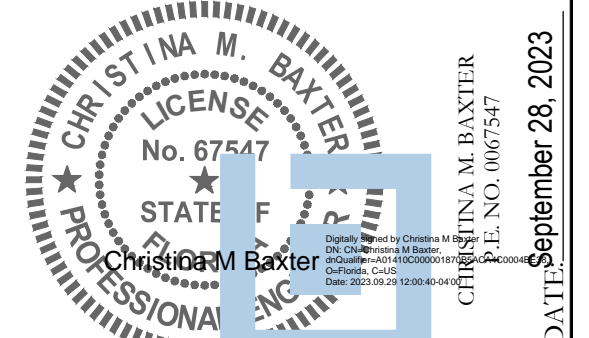
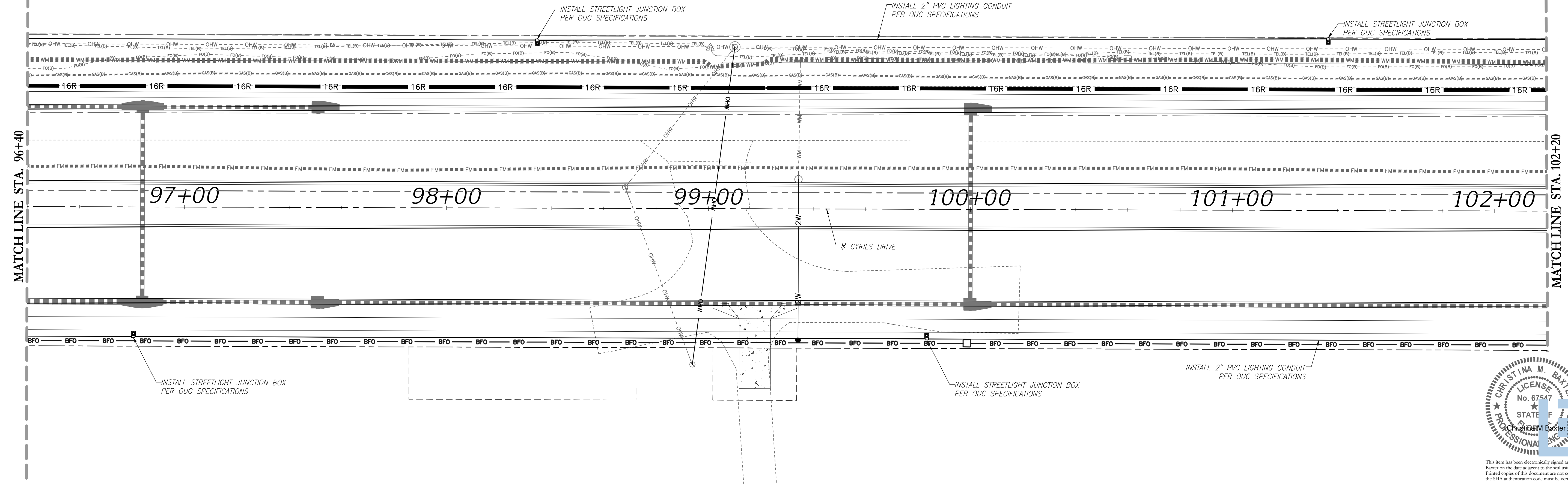
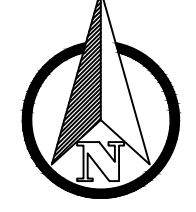
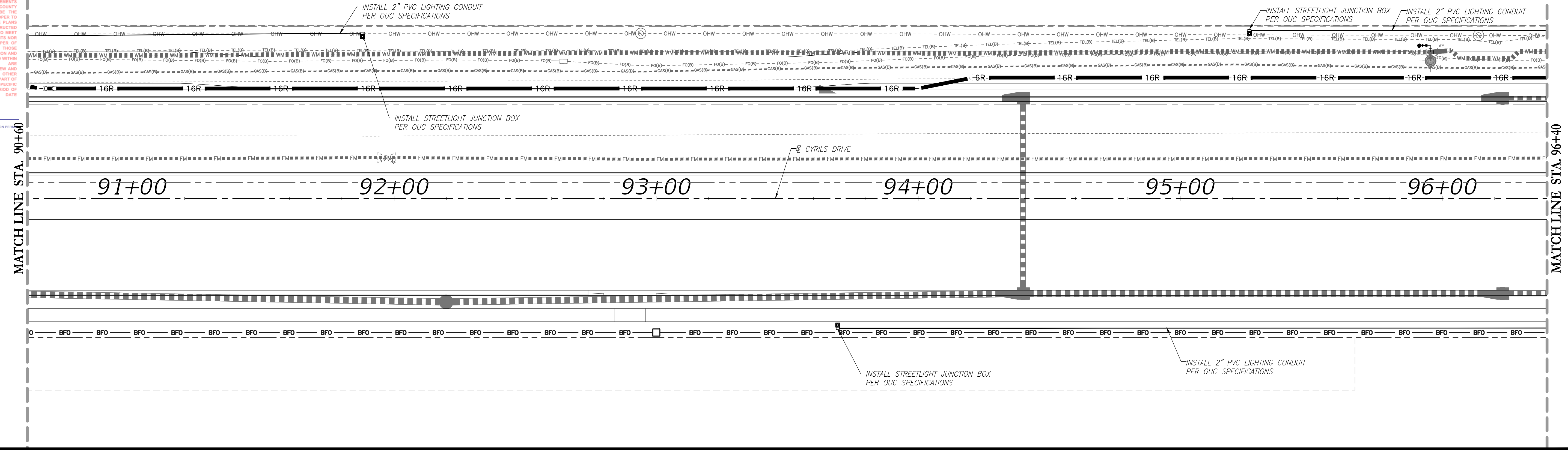
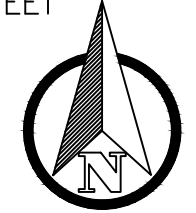


This item has been electronically signed and sealed by Christina M. Baxter on the date adjacent to the seal using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

SHEET NO.
258

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE FACILITY AS CONSTRUCTED WHICH RESULT IN A FAILURE TO MEET APPLICABLE REQUIREMENTS. THE DEVELOPER DOES IT HEREBY WARRANT THAT ALL INFORMATION AND DETAILS THAT ARE INCLUDED WITHIN THESE PLANS ARE TRUE AND CORRECT AND THAT THE DEVELOPER HAS CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTIONS OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT



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Z:\2017\17-042 TAMISOCK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-CONDUIT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT
Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

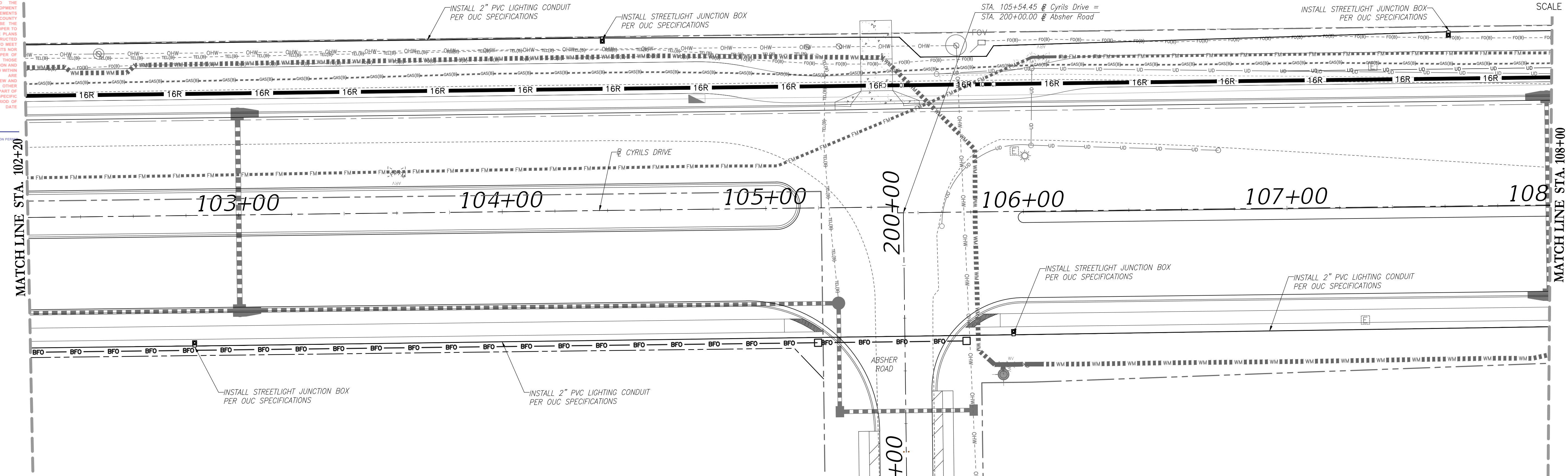
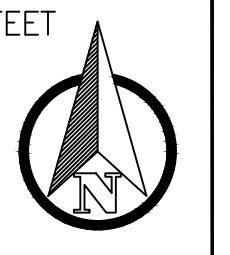
CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CONDUIT PLAN

SHEET NO.
259

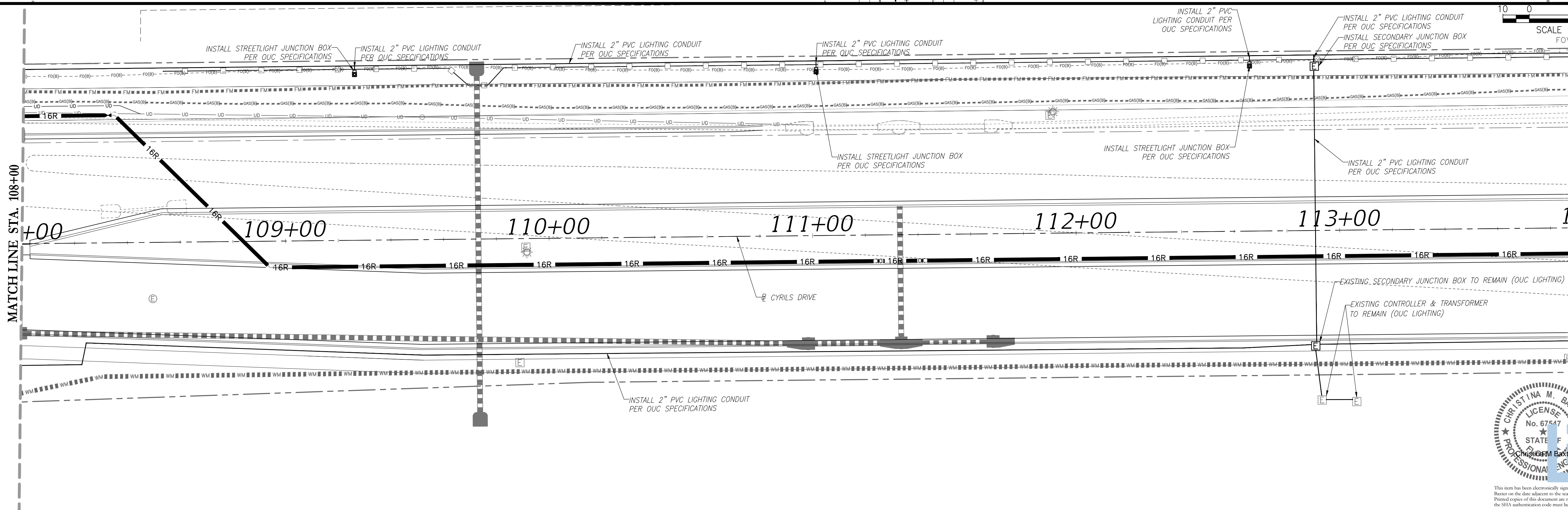
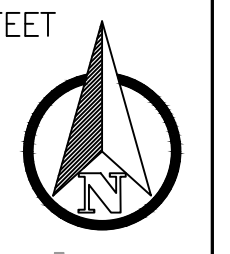
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SCALE IN FEET
0 20 40



SCALE IN FEET
0 20 40



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Z:\2017\17-042 TAVISSTOCK - SUNBRIER\CYRILS DR\WARCOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-10208-CD&M-CONDUIT

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 2602 E. Livingston St., Orlando, FL 32803
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 Eng. Bus. No. 28567

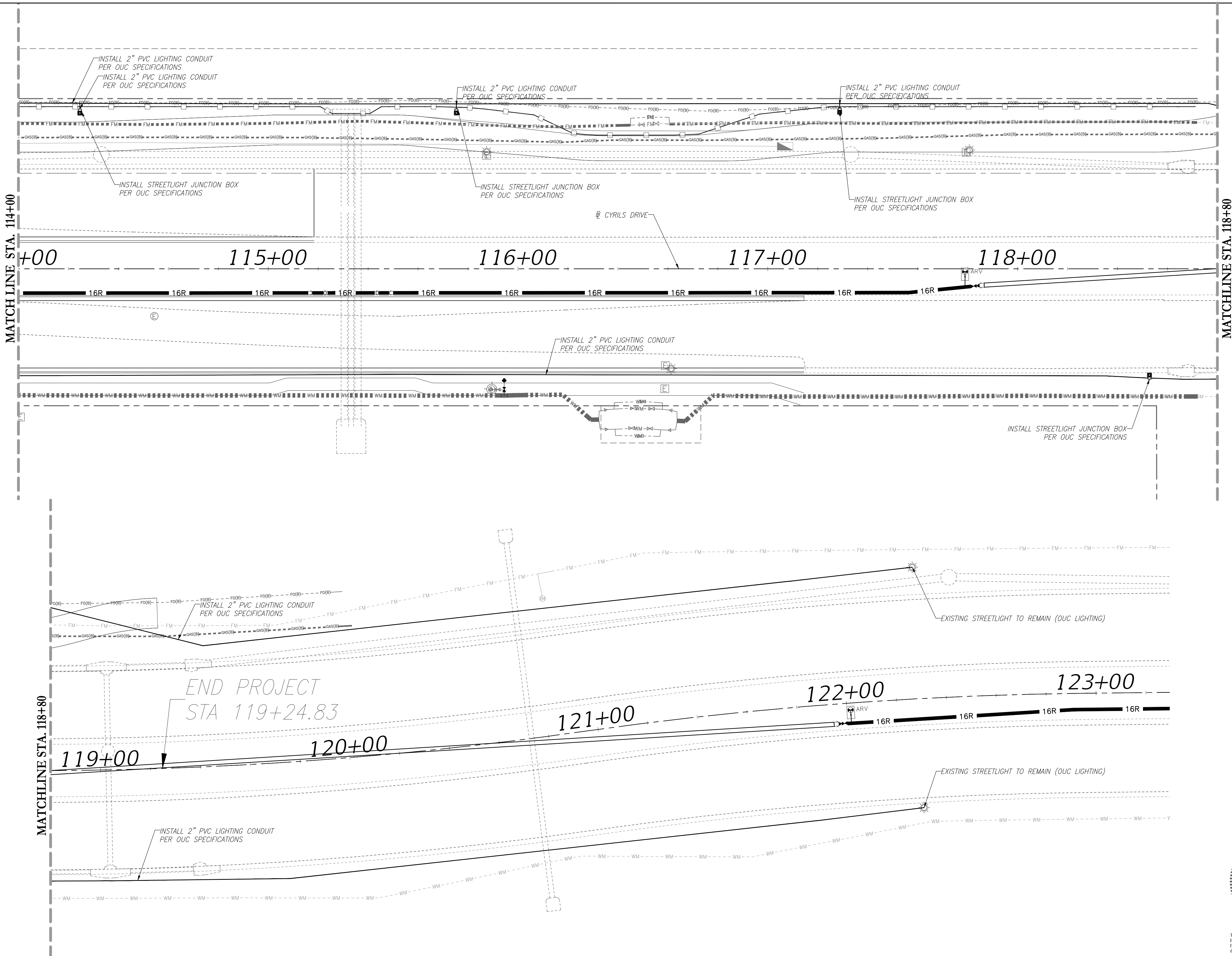
OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CONDUIT PLAN

SHEET NO.
260

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS OF THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLANS OR THE FACILITY AS CONSTRUCTED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS. THE DEVELOPER DOES NOT RELY ON THE BOARD OF COUNTY COMMISSIONERS TO MEET THOSE REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCLUDED WITHIN THESE PLANS THAT ARE CONSIDERED UNDER THE PREVIEW AND AUTHORITY OF JURISDICTIONS OTHER THAN OSCEOLA COUNTY IS NOT PART OF THIS APPROVAL. APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

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Z:\2017\17-042 TAVIS/STOCK - SUNBRIDGE\CYRILS DR\NARCOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-16208-CD&M-CONDUIT

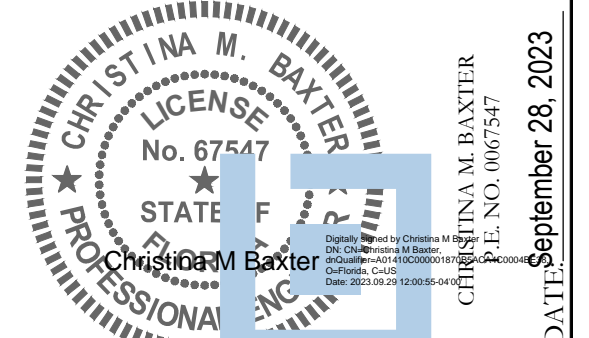
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CONDUIT PLAN

SHEET NO.
261

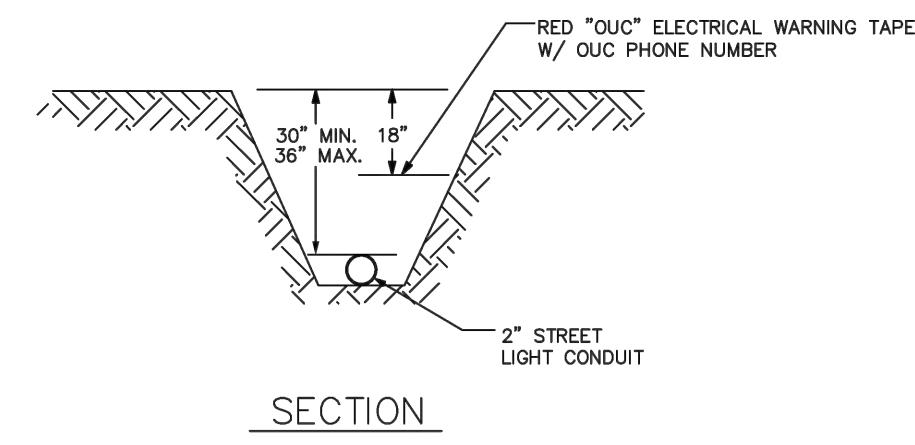
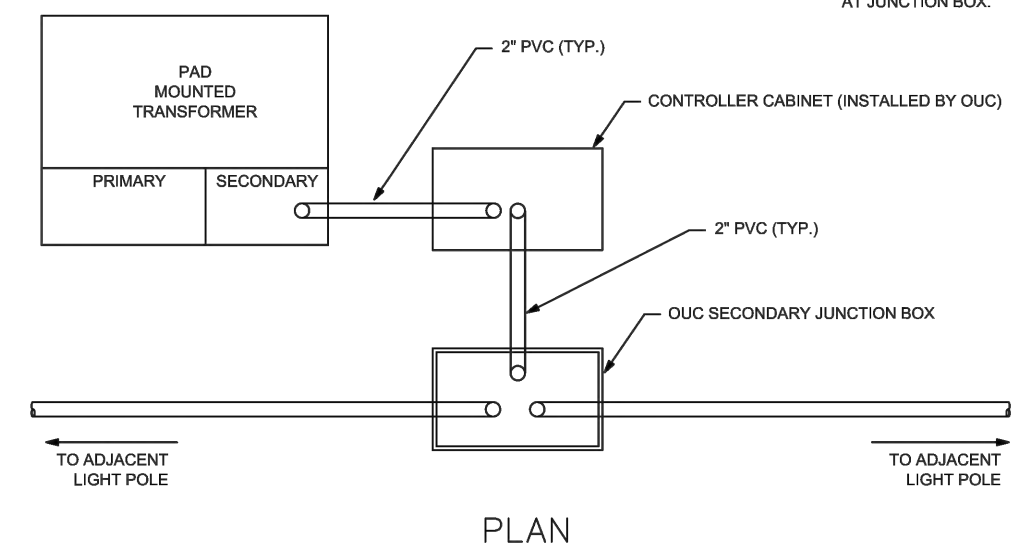


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STREET LIGHTING CONTROLLER INSTALLATION

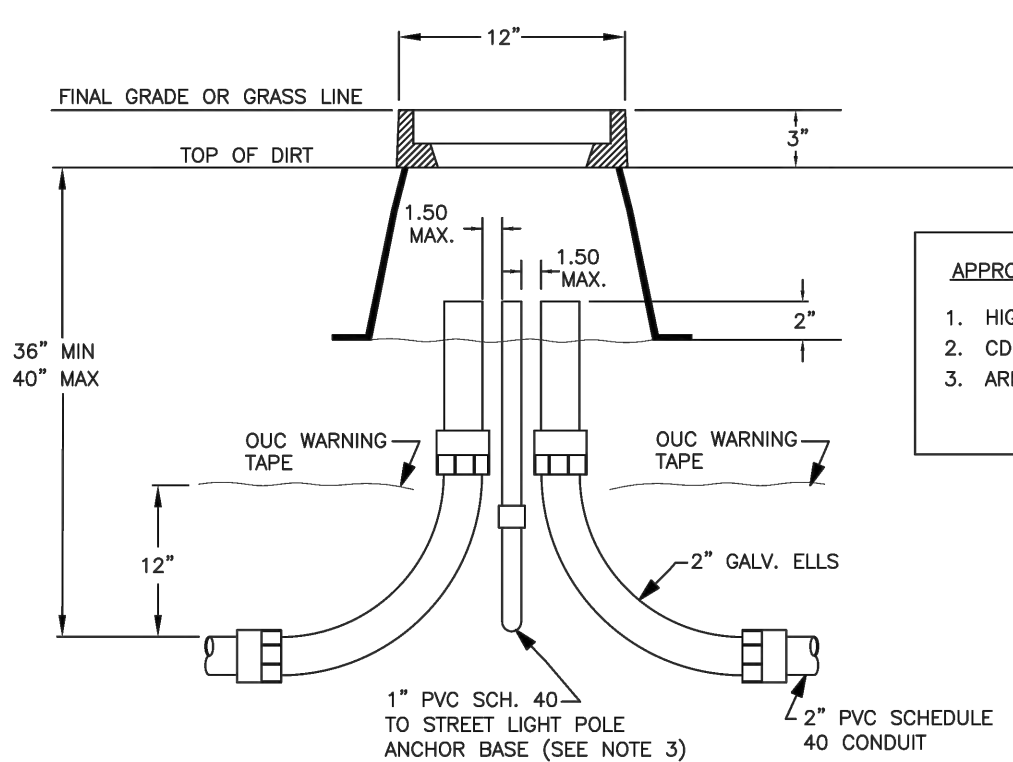
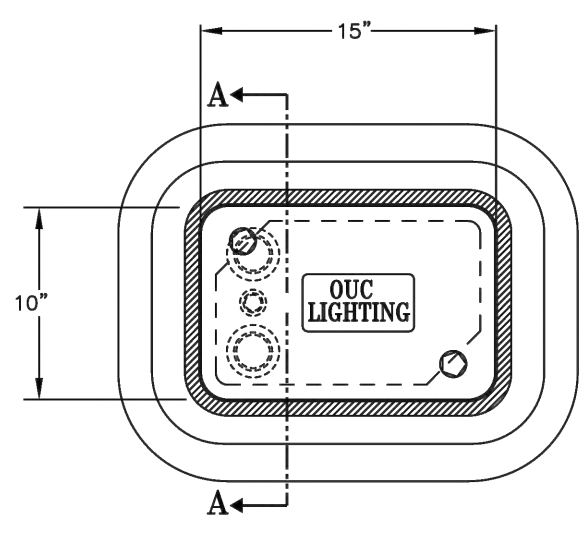


- NOTES:**
- 1) CONTROLLER LOCATION TO BE COORDINATED WITH TRANSFORMER.
 - 2) DISTANCE BETWEEN CONTROLLER POLE AND JUNCTION BOX SHALL BE 3' 0".
 - 3) IF DISTANCE FROM POWER SOURCE TO CONTROLLER IS GREATER THAN 10', A SEPARATE POSITIVE GROUND WILL BE DRIVEN, AND GROUND WILL BEGIN AT JUNCTION BOX.

CONSTRUCTION STANDARDS
OUConvenient Lighting
Orlando Utilities Commission

No.	Date	Revision	Clk.	Drawn by	Checked by	Approved by	Date
				RAD	RAD	VLF	02-16-07

STREET LIGHT JUNCTION BOX



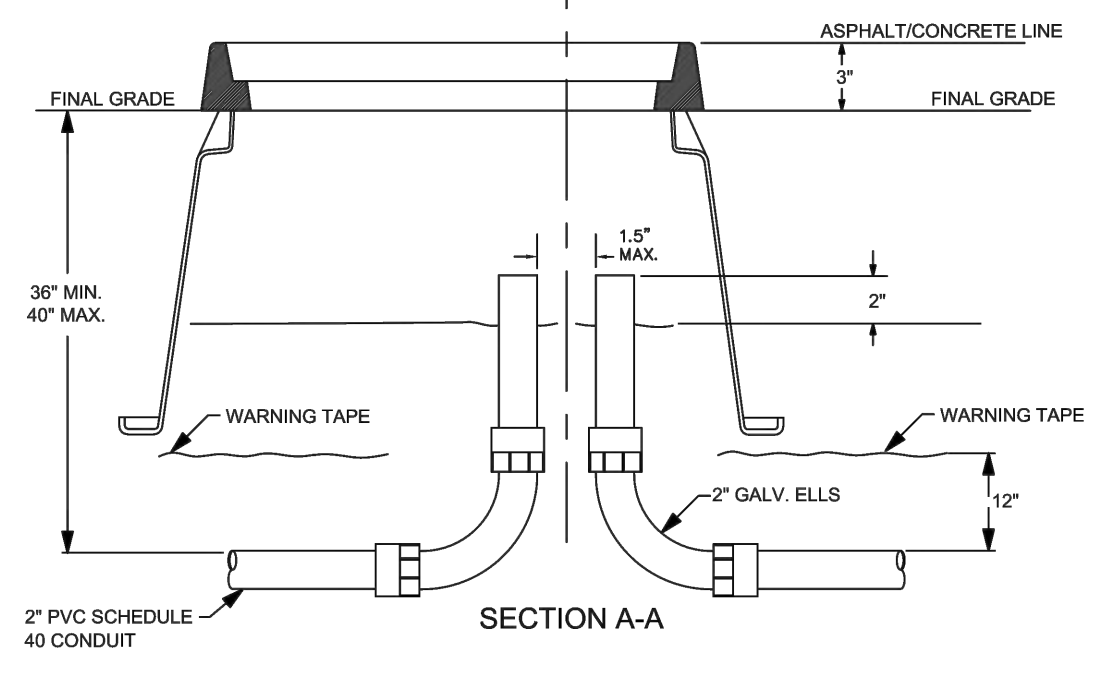
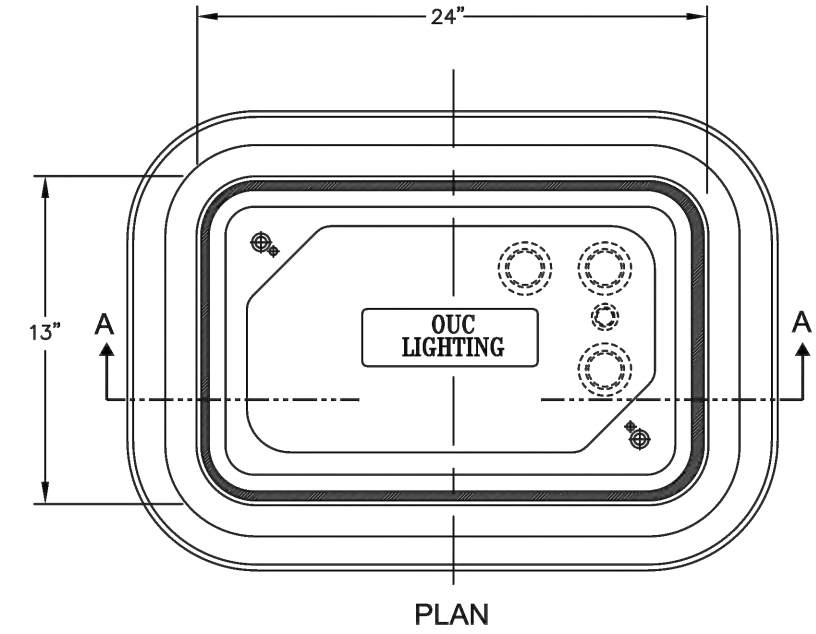
- NOTES:**
1. BOX AND COVER TO BE OUC STOCK NO. 036-26039
 2. IF STREET LIGHT POLE IS 5 OR MORE FEET FROM JUNCTION BOX, THE STREET LIGHT CONDUCTOR MUST BE INSTALLED IN A 1 INCH CONDUIT. IF WIRES UNDER CONCRETE AT ANY POINT BETWEEN BOX & POLE MUST BE IN 1" CONDUIT
 3. ALL CONDUIT SHALL EXTEND 2" VERTICALLY ABOVE GROUND
 4. TOP SURFACE OF JUNCTION BOX TO BE 3" ABOVE FINAL GRADE.

- APPROVED MANUFACTURERS**
1. HIGHLINE #CHA101512S0731
 2. CDR #PA10-1015-12
 3. ARMORCAST #A6001923AX12

CONSTRUCTION STANDARDS
OUConvenient Lighting
Orlando Utilities Commission

No.	Date	Revision	Clk.	Drawn by	Checked by	Approved by	Date
				JJORDAN	RAD	RAD	06-19-17

LIGHTING SECONDARY JUNCTION BOX



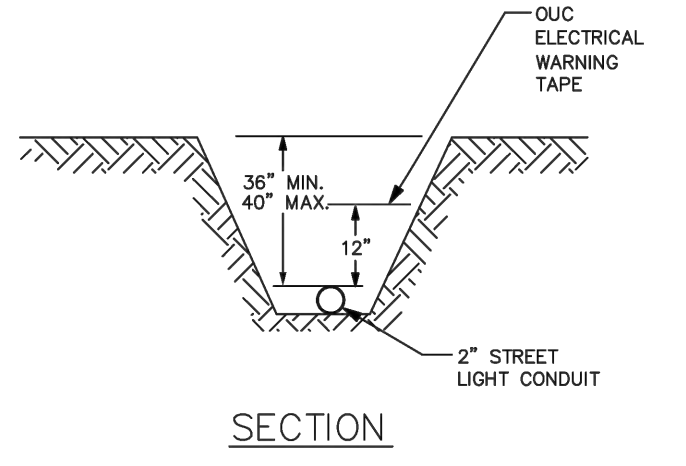
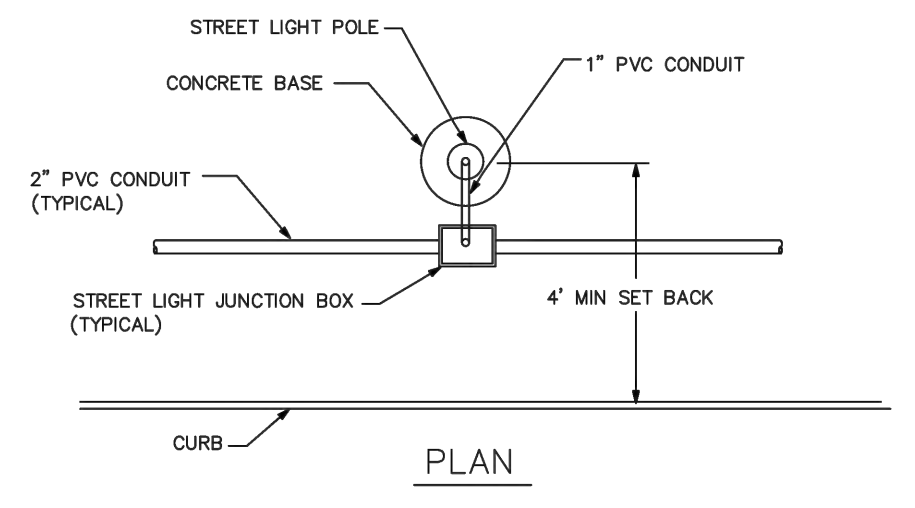
- NOTES:**
1. BOX AND COVER TO BE OUC STOCK NO. 046-07009
 2. SECONDARY JUNCTION BOX SHALL BE USED FOR 3 OR MORE 2" CONDUITS.
 3. TOP SURFACE OF JUNCTION BOX TO BE 3" ABOVE FINAL GRADE.
 4. ALL CONDUIT SHALL EXTEND 2" VERTICALLY ABOVE GROUND

- APPROVED MANUFACTURERS**
1. HIGHLINE #CHA132418S0731
 2. ARMORCAST #A6001946AX18 LTG

CONSTRUCTION STANDARDS
OUConvenient Lighting
Orlando Utilities Commission

No.	Date	Revision	Clk.	Drawn by	Checked by	Approved by	Date
				JJORDAN	RAD	RAD	02-10-18

TYP. JUNCTION BOX, STREET LIGHT W/ BASE & ELECTRICAL CONDUIT LOCATION PLACEMENT



- NOTES:**
1. THE CENTER LINES OF STREET LIGHT POLE AND JUNCTION BOX WILL BE ALIGNED WITHIN 2" UNLESS SPECIFIED BY ENGINEER.
 2. JUNCTION BOXES SHALL BE INSTALLED WITHIN 2' FROM LIGHT POLE

CONSTRUCTION STANDARDS
OUConvenient Lighting
Orlando Utilities Commission

No.	Date	Revision	Clk.	Drawn by	Checked by	Approved by	Date
				JJORDAN	RAD	RAD	06-19-18

Z:\2017\17-042 TAVISOCK - SUNBRIDGE\CD\15 DR\WACOOSSEE TO ABSHER\CAD\FINAL\COUNTY\17042-16208-CD&M-CONDUIT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

POULOS & BENNETT
Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

OSCEOLA COUNTY
PROJECT NO. (SDP23-0132)

CYRILS DRIVE / NARCOOSSEE ROAD TO
ABSHER ROAD - ROAD WIDENING
CONDUIT PLAN



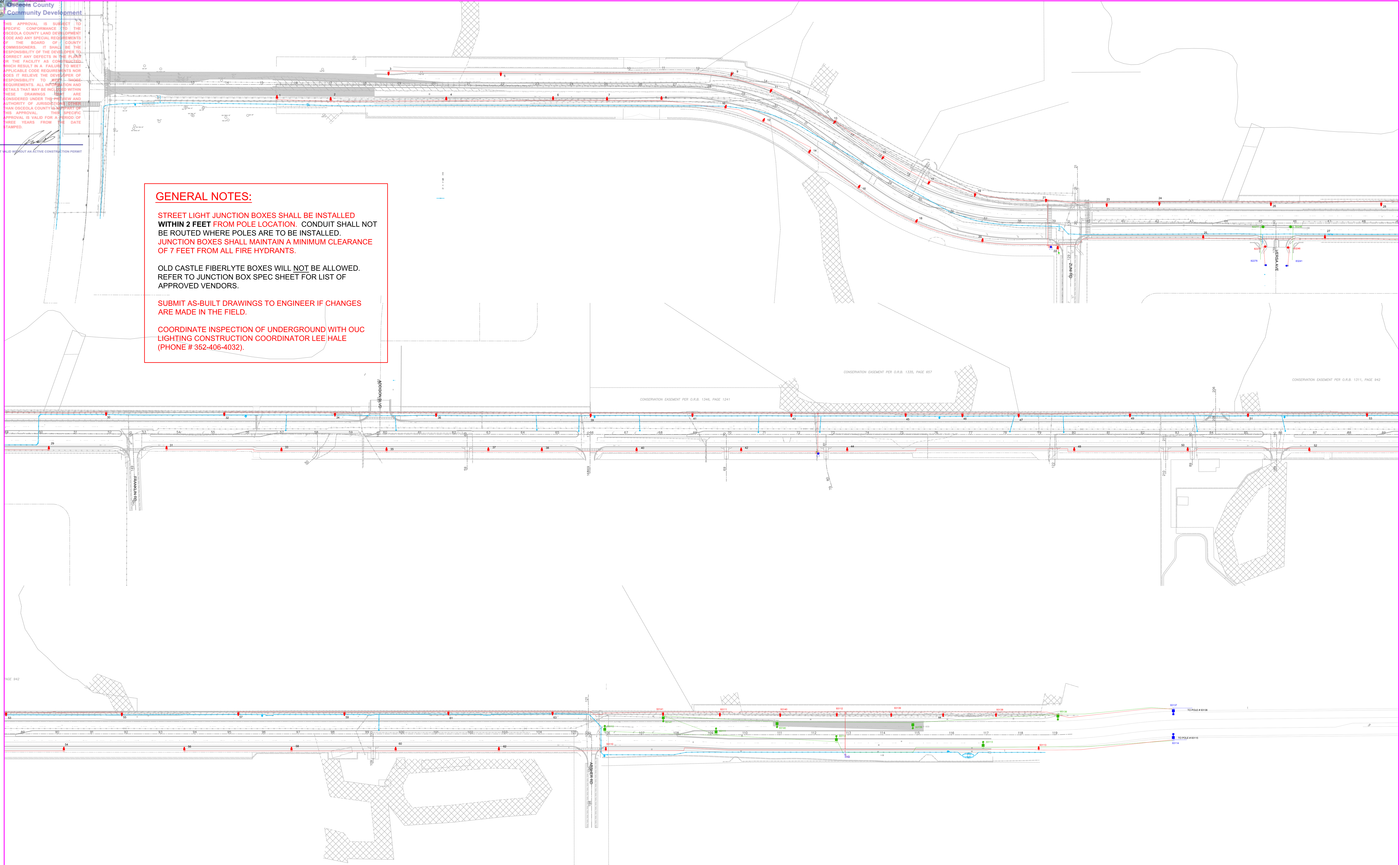
SHEET NO.
262

DATE: September 28, 2023

THIS APPROVAL IS SUBJECT TO SPECIFIC CONFORMANCE TO THE OSCEOLA COUNTY LAND DEVELOPMENT CODE AND ANY SPECIAL REQUIREMENTS BY THE BOARD OF COUNTY COMMISSIONERS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CORRECT ANY DEFECTS IN THE PLAN OR THE FACILITY AS CONSTRUCTED WHICH RESULT IN A FAILURE TO MEET APPLICABLE CODE REQUIREMENTS NOR DOES IT RELIEVE THE DEVELOPER OF RESPONSIBILITY TO ACCEPT HOME REQUIREMENTS. ALL INFORMATION AND DETAILS THAT MAY BE INCORPORATED WITHIN THESE DRAWINGS ARE CONSIDERED UNDER THE JURISDICTION AND AUTHORITY OF JURISDICTION. THIS APPROVAL IS VALID FOR A PERIOD OF THREE YEARS FROM THE DATE STAMPED.

NOT VALID WITHOUT AN ACTIVE CONSTRUCTION PERMIT

GENERAL NOTES:
STREET LIGHT JUNCTION BOXES SHALL BE INSTALLED **WITHIN 2 FEET FROM POLE LOCATION**. CONDUIT SHALL NOT BE ROUTED WHERE POLES ARE TO BE INSTALLED.
JUNCTION BOXES SHALL MAINTAIN A MINIMUM CLEARANCE OF 7 FEET FROM ALL FIRE HYDRANTS.
OLD CASTLE FIBERLYTE BOXES WILL NOT BE ALLOWED. REFER TO JUNCTION BOX SPEC SHEET FOR LIST OF APPROVED VENDORS.
SUBMIT AS-BUILT DRAWINGS TO ENGINEER IF CHANGES ARE MADE IN THE FIELD.
COORDINATE INSPECTION OF UNDERGROUND WITH OUC LIGHTING CONSTRUCTION COORDINATOR LEE HALE (PHONE # 352-406-4032).



LIGHTING CONDUIT PLAN

NOTES:

- REMOVE SECONDARY JUNCTION BOX TO BE RELOCATED
- REMOVE JUNCTION BOX TO BE RELOCATED
- REMOVE 2" PVC CONDUIT. OUC TO DISCONNECT CABLE
- CONCRETE POLE AND FIXTURE TO BE REMOVED BY OUC
- CONCRETE POLE AND FIXTURE TO BE REMOVED BY OUC
- INSTALL STREETLIGHT SECONDARY JUNCTION BOX WITHIN 2 FEET FROM LIGHT POLE LOCATION OR OTHERWISE NOTED PER OUC SPECIFICATIONS
- INSTALL STREETLIGHT JUNCTION BOX WITHIN 2 FEET FROM LIGHT POLE LOCATION OR OTHERWISE NOTED PER OUC SPECIFICATIONS
- INSTALL 2" PVC CONDUIT W/ PULL STRING BURIED AT A MIN 36" PER OUC SPECIFICATIONS. PROVIDE GALVANIZED ELBOWS FOR CONDUIT RUNS 125 FEET OR GREATER
- CONCRETE POLE AND FIXTURE TO BE INSTALLED BY OUC
- CONCRETE POLE AND FIXTURE TO BE INSTALLED BY OUC
- INSTALL NEW 10' RISER FOR STREET LIGHTING PER OUC SPECIFICATIONS
- OUC TO INSTALL PAD MOUNT CONTROLLERS. SEE CONTROLLER DETAILS FOR CONDUIT AND CONCRETE REQUIREMENTS
- DISTRIBUTION POLE AND TRANSFORMER
- EXISTING LIGHTING CONTROLLER
- EXISTING TRANSFORMER

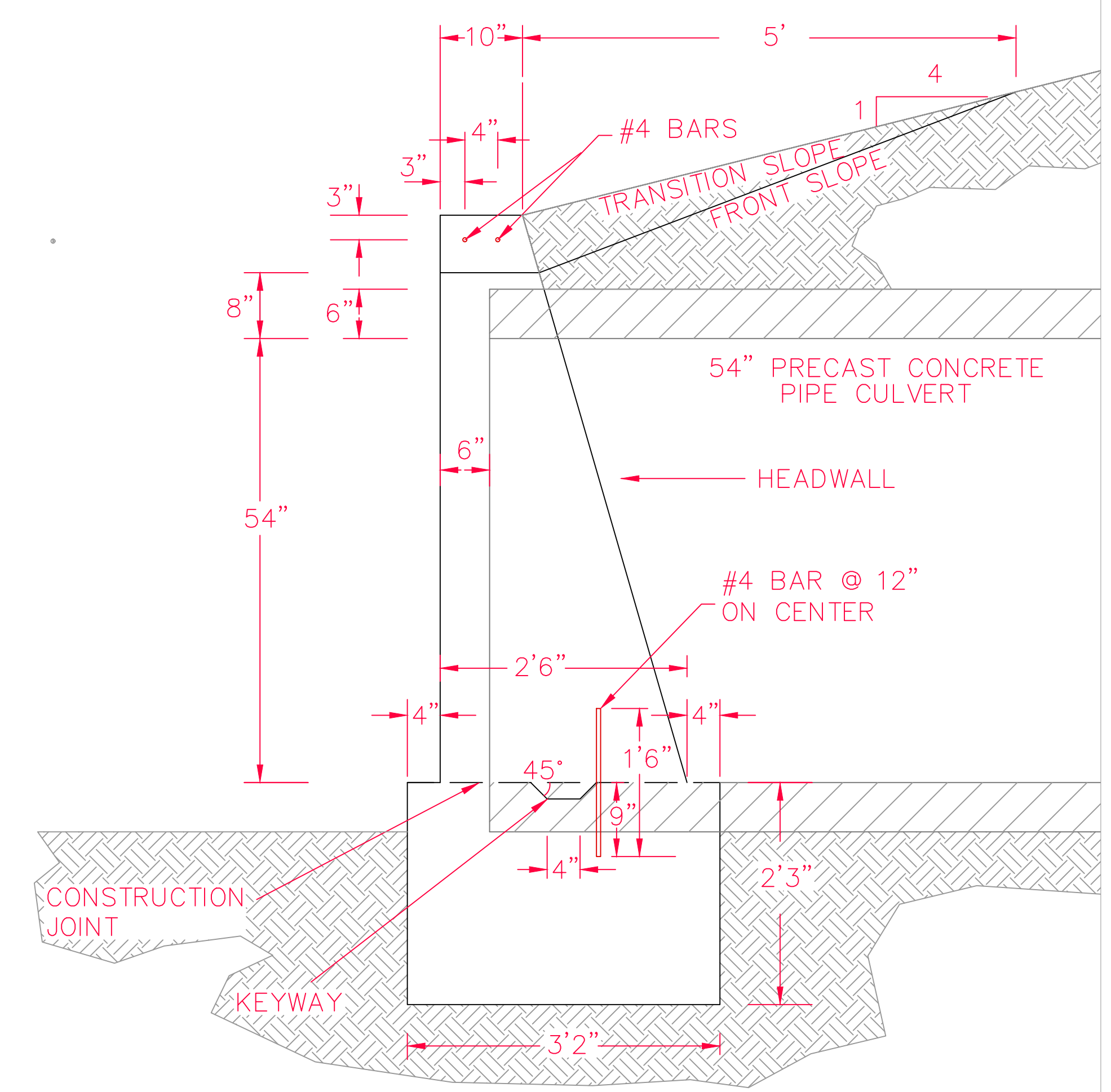
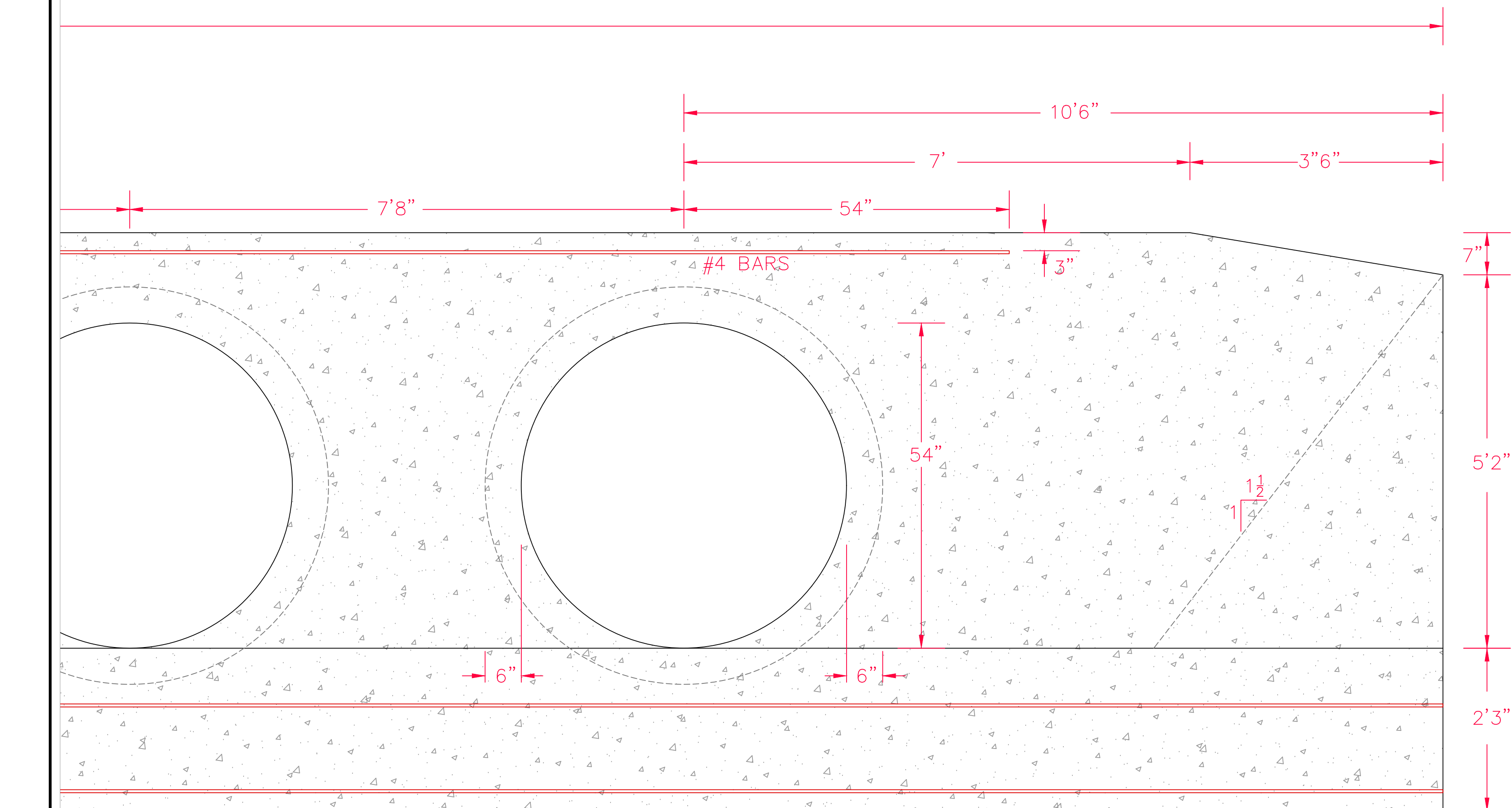
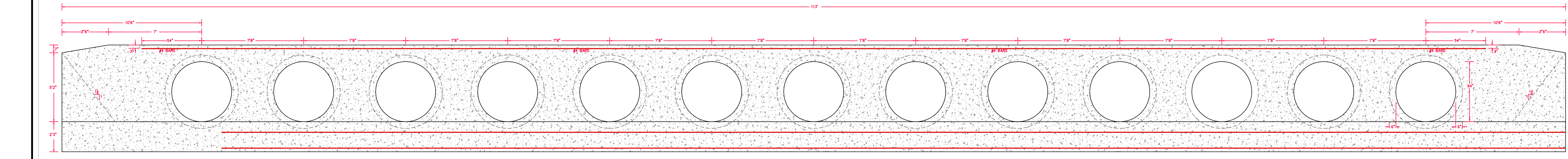
O.U.C.
Lighting
6003 Pershing Ave.
Orlando, FL 32822
(407) 737-4234

WORK ORDER # 796841			
JOB NAME: CYRILS DR WIDENING			
LOCATION: CYRILS DR			
GLOBEOPTICS:U:	SEE LEGEND	JOB TYPE:	LOSCTYRDWY
BRACKETCU:	SEE LEGEND	ENGINEER:	SARAH RISEDEN
CUCODE:	SEE LEGEND	SCALE:	1" = 100'
FIXTURESTYLE:	LED COBRA	DATE:	07-21-23
JURISDICTION:	OSCEOLA		
COVERAGE:	CONTRACT	DATE REV.	BY
CONTROLLER:	Y	00-00-00	X
		00-00-00	X
			4
			PAGE: 1 OF 1

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This item has been digitally signed and sealed by Ricardo C. Kiriakidis L. on the date adjacent to the seal.
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ENGINEER'S SEAL
 Digitally signed by Ricardo C. Kiriakidis L. DN: cn=US, o=UNIVERSAL ENGINEERING SCIENCES INC., ou=Qualifier=A01410C00, email=234948000F@81A.cn=Ricardo C. Kiriakidis L., Date: 2023.09.08 11:21:07 -0400
 RICARDO C. KIRIAKIDIS L., PH.D., P.E.
 FL. REG. NO. 70602
 UNIVERSAL ENGINEERING SCIENCES
 CERTIFICATE OF AUTHORIZATION NO. 545



NOTES

1. THIS DESIGN COMPLIES WITH FLORIDA BUILDING CODE 2015 (5TH EDITION) REQUIREMENTS.
2. THIS DESIGN COMPLIES WITH FDOT INDEX 250 REQUIREMENTS.
3. CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF AT LEAST 3,400 PSI (FDOT CLASS II).
4. A SET OF FIVE 4" X 8" CONCRETE TEST CYLINDERS (A SET OF THREE PLUS TWO HOLD) SHALL BE CAST DURING PLACEMENT FOR EVERY 50 CUBIC YARDS OF CONCRETE OR ONE DAYS PRODUCTION, WHICHEVER IS LESS. COMPRESSIVE STRENGTH TESTS SHALL BE PERFORMED AT 28 DAYS AFTER CASTING WITH TWO ON HOLD FOR 56 DAYS.
5. FOR 3 DAY AND 7 DAY BREAKS, AN ADDITIONAL SET OF FOUR 4" X 8" CONCRETE TEST CYLINDERS SHALL BE CAST FOR EVERY 50 CUBIC YARDS OF CONCRETE OR ONE DAYS PRODUCTION, WHICHEVER IS LESS (TWO FOR EACH BREAK DATE).
6. CONCRETE SURFACES SHALL RECEIVE A GENERAL SURFACE FINISH. IN ADDITION, ALL EXPOSED EDGES AND CORNERS SHALL BE CHAMFERED 3/4".
7. REINFORCING STEEL SHALL BE ASTM GRADE 60 (Fy = 60 KSI).
8. PLACEMENT OF REINFORCING STEEL SHALL MAINTAIN THE MINIMUM CLEARANCES AS SHOWN IN THESE PLANS, AND IN NO CASE SHALL BE LESS THAN 2 INCHES.
9. MINIMUM BAR SPLICE LENGTH FOR REINFORCEMENT STEEL SHALL BE 16 INCHES (AASHTO CLASS B TENSION LAP SPLICE).
10. SUBGRADE SOIL BENEATH HEADWALL FOUNDATIONS AND PRECAST PIPE CULVERTS SHALL CONSIST OF 2 FEET OF COMPACTED STONE BENEATH STRUCTURES TO AT LEAST 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557). IN-PLACE DENSITY TESTS SHALL BE PERFORMED AT A FREQUENCY OF ONE TEST FOR EACH TOE SLAB AND ONE TEST FOR EACH WING WALL FOUNDATION (TOTAL OF SIX TESTS FOR STRUCTURES ON BOTH SIDES OF ROADWAY).
11. CONSTRUCT FRONT SLOPE AND DITCH TRANSITIONS IN ACCORDANCE WITH INDEX 430-001

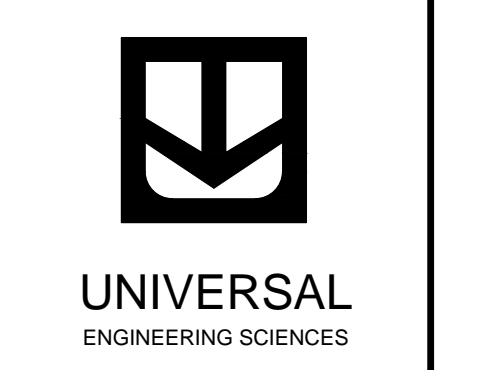
STRUCTURAL LOADS

FBC 7th EDITION 1603.1.1 THROUGH 1603.1.3 - NOT APPLICABLE
 WIND LOAD SUMMARY (FBC 6th EDITION, SECTION 1603.1.4)
 ULTIMATE DESIGN WIND SPEED: 133 mph (3 sec. gust)
 NORMAL DESIGN WIND SPEED: 103 mph
 RISK CATEGORY: I
 WIND EXPOSURE: C
 COMPONENTS & CLADDING DESIGN PRESSURE: 28 psf
 GEOTECHNICAL INFORMATION (FBC 7th EDITION, SECTION 1603.1.6)
 ALLOWABLE BEARING CAPACITY OF SOIL: 3,500 PSF
 FBC 6th EDITION 1603.1.7 THROUGH 1603.1.9 - NOT APPLICABLE

FOR:	NO.	DATE	BY	DATE

POULOS & BENNETT, LLC
 STRUCTURAL DESIGN SERVICES
 13 PIPE CULVERT HEADWALL (FDOT INDEX 250)
 CYRIL'S DRIVEWIDENING
 ST. CLOUD, OSCEOLA COUNTY, FLORIDA
 OVERALL STRUCTURAL DIMENSIONS

DRAWN BY:	R.K.
DATE:	5/2/2023
CHECKED BY:	R.K.
DATE:	5/22/2023
PROJ. MGR:	R.K.
SCALE:	AS SHOWN
PROJ. NO.:	0130.2300163.0001
REPORT NO.:	1931243



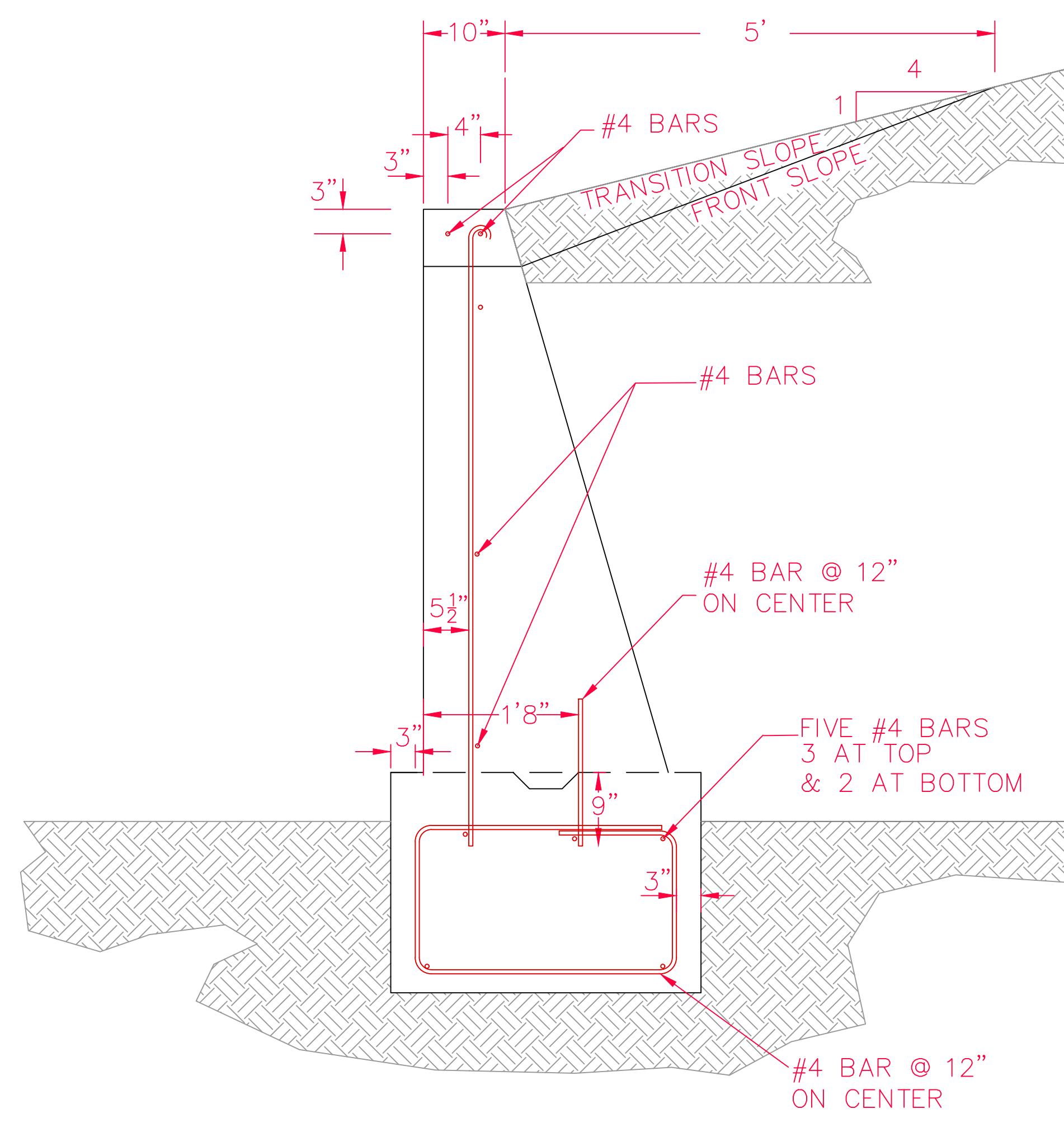
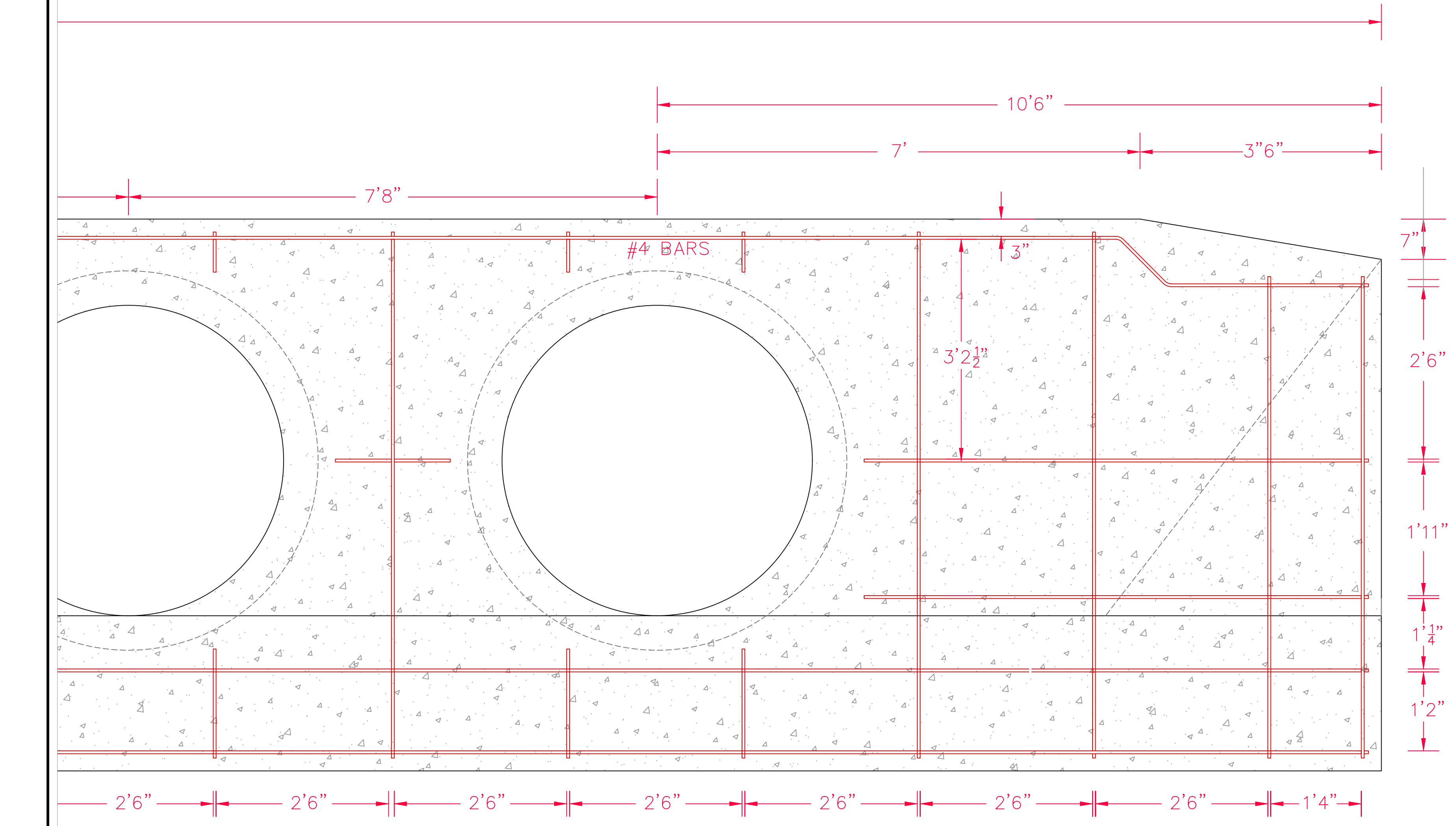
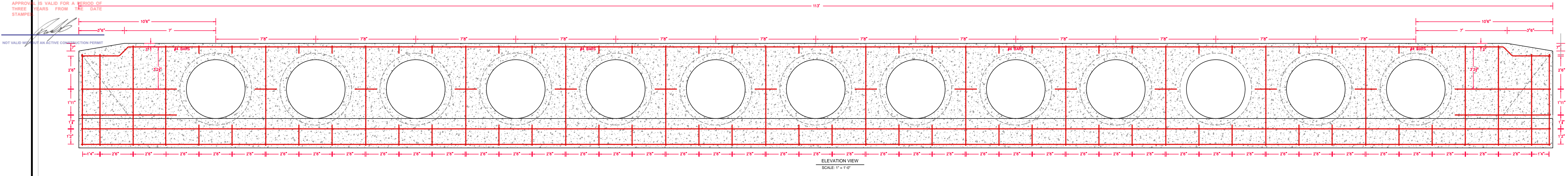
SHEET NO.
S01

OVERALL DIMENSIONS BASED ON DRAWING PROVIDED BY POULOS & BENNETT, LLC

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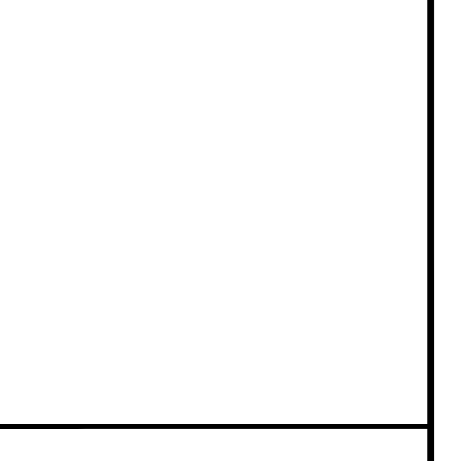
ENGINEER'S SEAL
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 RICARDO C. KIRIAKIDIS L., PH.D., P.E.
 FL REG. NO. 70602
 UNIVERSAL ENGINEERING SCIENCES
 CERTIFICATE OF AUTHORIZATION NO. 545



FOR: POULOS & BENNETT, LLC	NO.	DATE	BY
REVISION	NO.	DATE	BY

STRUCTURAL DESIGN SERVICES
 13 PIPE CULVERT HEADWALL (FDOT INDEX 250)
 CYRIL'S DRIVEWIDENING
 ST. CLOUD, OSCEOLA COUNTY, FLORIDA
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PROJ. MGR:	R.K.
SCALE:	AS SHOWN
PROJ. NO.:	0130.2300163.0001
REPORT NO.:	1931243



UNIVERSAL
 ENGINEERING SCIENCES

SHEET NO.
S02