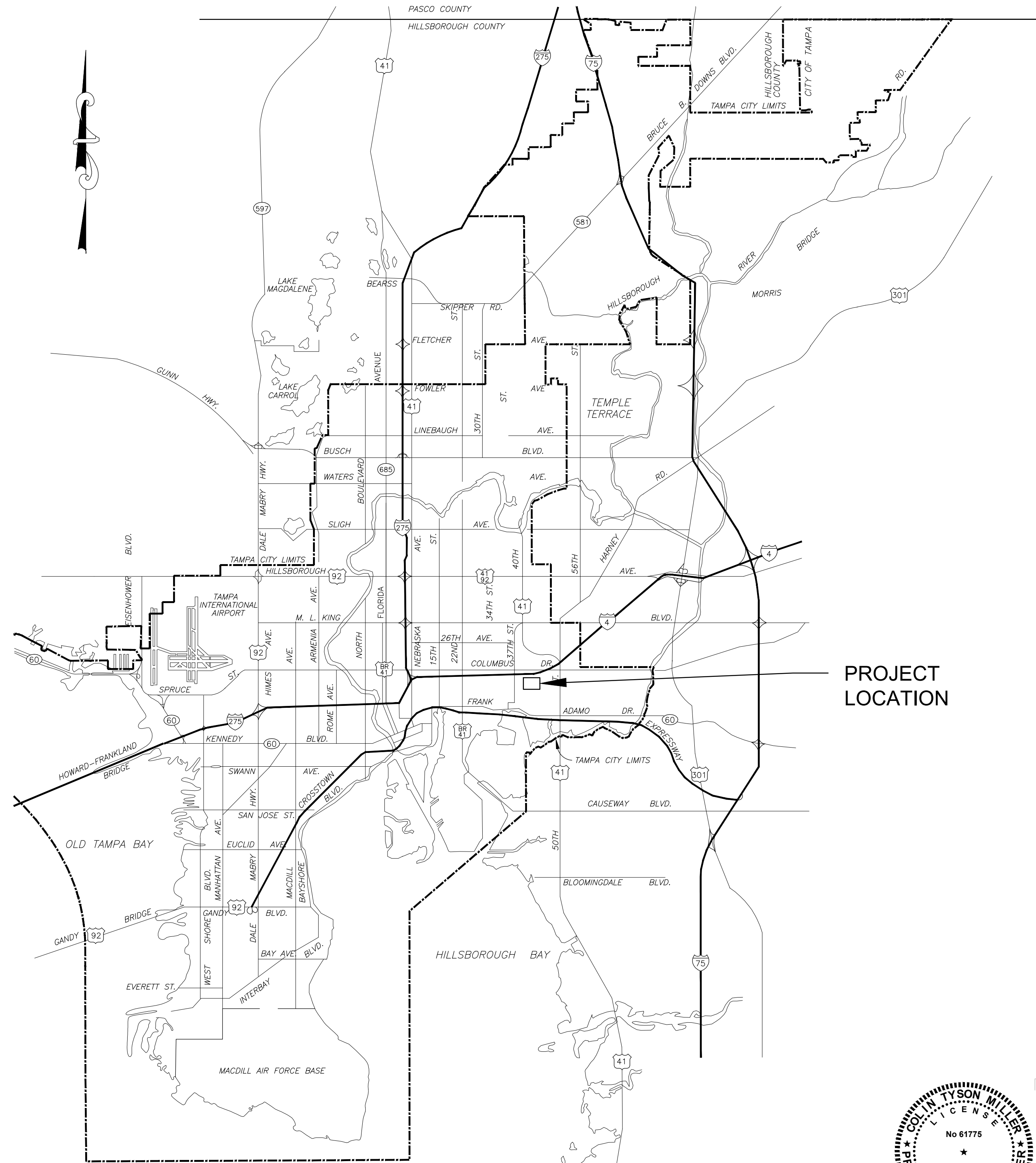


CITY of TAMPA

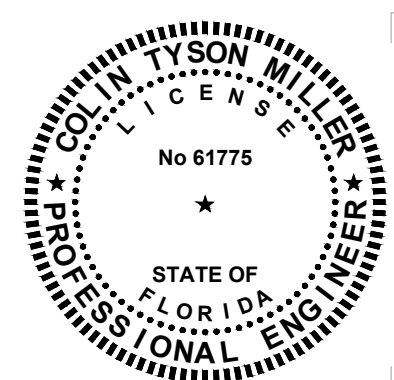


MOBILITY DEPARTMENT STORMWATER ENGINEERING DIVISION

PLANS FOR 43RD STREET DRAINAGE IMPROVEMENTS

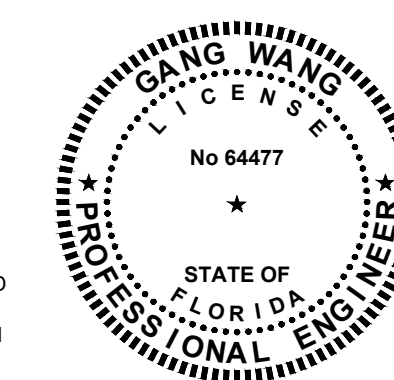


PROJECT
LOCATION



COLIN TYSON MILLER
STATE OF FLORIDA,
PROFESSIONAL ENGINEER,
LICENSE NO. 61775

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GANG WANG
STATE OF FLORIDA,
PROFESSIONAL ENGINEER,
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RICHARD F. PETERIKA
ASLA, AICP, RCA #641,
ISA-FL #5893B
DARK MOSS LLC

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AUGUST 2, 2024

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CIVIL	
SHEET NUMBER	SHEET TITLE
1	COVER
2	LEGEND, INDEX & LOCATION MAP
3	GENERAL NOTES
4-5	EXISTING CONDITIONS
6-7	DEMOLITION
8	TYPICAL SECTION
9-11	PLAN & PROFILES
12-13	CROSS SECTIONS
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STRUCTURAL	
SHEET NUMBER	SHEET TITLE
15	STRUCTURAL GENERAL NOTES
16	STRUCTURAL ABBREVIATIONS, DESIGN LOADS, DESIGN CRITERIA & LEGEND
17	STRUCTURAL TYPICAL CHANNEL PLAN
18	STRUCTURAL SECTIONS
19-20	STRUCTURAL SECTIONS & DETAILS

STRUCTURAL	
SHEET NUMBER	SHEET TITLE
21	TREE INVENTORY AND DISPOSITION PLAN
22	TREE PROTECTION DETAILS

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CITY of TAMPA
Mobility Department
Stormwater Engineering Division

43RD STREET DRAINAGE IMPROVEMENTS
COVER

SHEET 1 OF 22

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INDEX

LEGEND

EX STORMWATER	UP to 18" & SMALLER	24" & LARGER
FORCE MAIN		
PIPES & MANHOLES		
CATCH BASIN, GRATE		
DITCHES, SWALES		
PROP STORMWATER		
FORCE MAIN		
PIPES & MANHOLES		
OTHER UTILITIES		
SAN SEWER & MANHOLES		
WATER LINE		
GAS LINE		
ELECTRICAL CABLE or DUCT		
TELEPHONE CABLE or DUCT		
TV CABLE		
VALVE		
HYDRANT		
CLEAN OUT		
EXISTING WYE		
POWER POLE		
TELEPHONE POLE		
GUY POLE		
GUY WIRE		
VALVE VAULT		
WATER METER		
ELECTRICAL MANHOLE or VAULT		
TELEPHONE MANHOLE or VAULT		
TRAFFIC BOX or VAULT		
OTHER FEATURES		
RIGHT of WAY LINE		
EDGE of PAVEMENT		
BUILDING LIMIT		
PROPERTY OWNERSHIP		
BORING LOCATIONS		
MONITORING WELL		
POWER LINE		

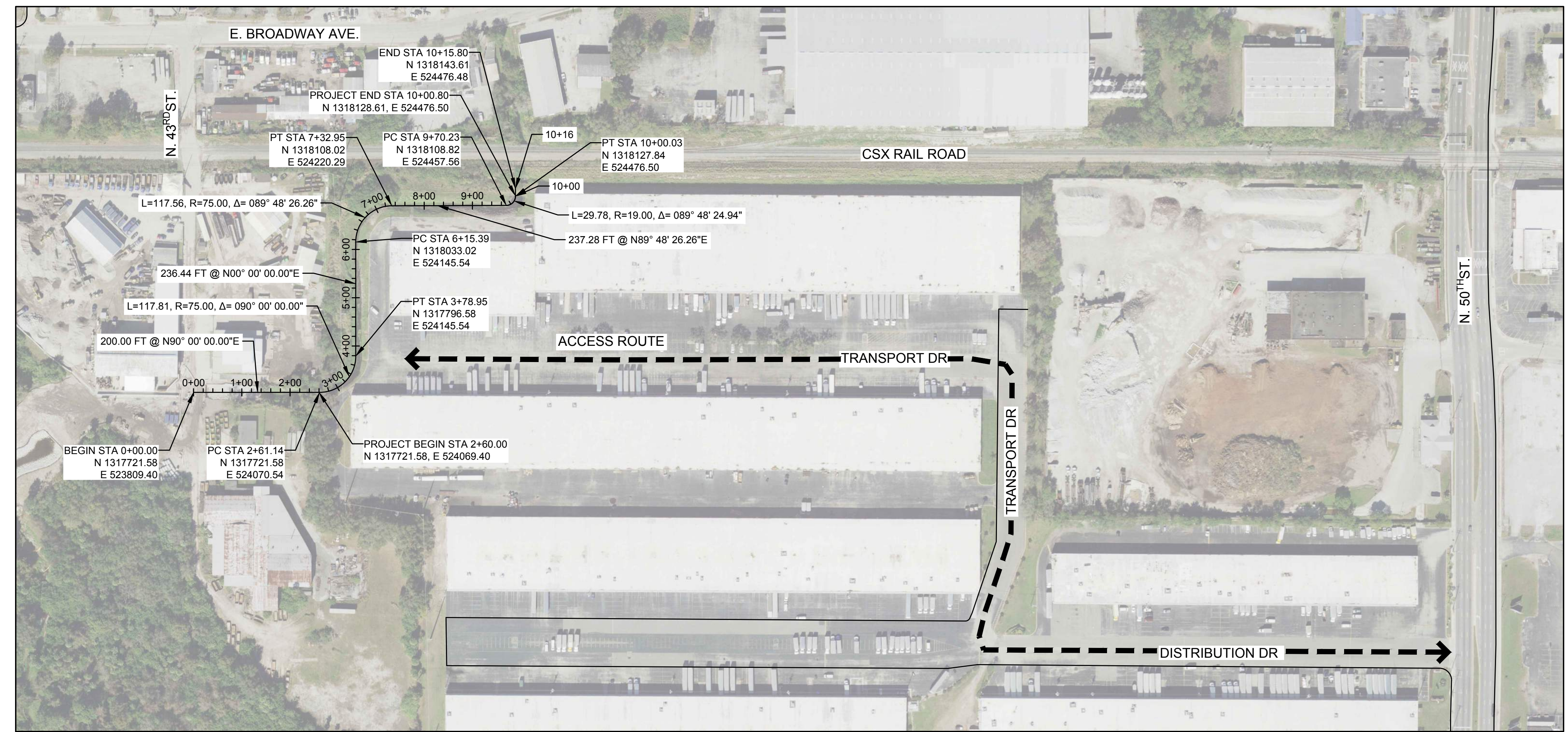
LEGEND

FENCE	
CONIFER	
PALM	
OAK	
OTHER	
SHRUB	
HEDGE	
RAILROAD TRACKS	
IRON PIPE	
CONCRETE MONUMENT	
TOP-OF-BANK EXISTING	
TOP-OF-BANK PROPOSED	
TOE-OF-SLOPE EXISTING/PROPOSED	

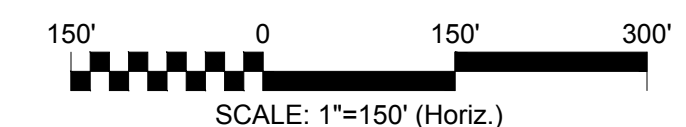
ABBREVIATIONS

TOP of PIPE	TP
INVERT ELEVATION	IE or INV EL
RIGHT of WAY	R/W
MANHOLE	MH
POLYVINYL CHLORIDE PIPE	PVCP
VITRIFIED CLAY PIPE	VCP
ADVANCED DRAINAGE SYSTEM	ADS
DUCTILE IRON PIPE	DIP
REINFORCED CONCRETE PIPE	RCP
CONCRETE PIPE	CP
APPROXIMATE LOCATION	AL
BENCH MARK	BM
POINT of INTERSECTION	PI
DRAINAGE EASEMENT	DE
TOP OF BANK	TOB
TOE OF SLOPE	TOE

No.	DESCRIPTION
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LOCATION MAP



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No.	DATE	REVISIONS	No.	DATE	REVISIONS

DES: RTV
 DRN: RTV
 CKD: TLW
 DATE: 01/18/23

CITY of TAMPA
 Mobility Department
 Stormwater Engineering Division

43RD STREET DRAINAGE IMPROVEMENTS
 LEGEND, INDEX, & LOCATION MAP

GENERAL NOTES

1. ELEVATIONS BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1988.
2. LOCATIONS, ELEVATIONS AND DIMENSIONS OF THE EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS, OF ALL EXISTING UTILITIES, STRUCTURE, AND OTHER FEATURES AFFECTING HIS WORK PRIOR TO CONSTRUCTION. GAS, VERIZON, WATER MAIN, WATER SERVICES, SEWER LATERALS AND OTHER SUBSURFACE PIPING HAS NOT BEEN LOCATED. ENGINEER OF RECORD SHOWS LOCATIONS AS APPROXIMATE AS PROVIDED BY OTHERS.
3. EXISTING UTILITIES AND TOPOGRAPHIC INFORMATION DENOTED BY UPPER AND LOWER CASE. PROPOSED WORK DENOTED BY ALL UPPER CASE.
4. THE CONTRACTOR SHALL CALL SUNSHINE (1-800-432-4770) AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES.
5. WHEN IN CONFLICT, UTILITY POLES, GAS LINES, UNDERGROUND ELECTRIC, TELEPHONE AND OTHER COMMUNICATION CABLES AND CONDUIT WILL BE RELOCATED BY THE RESPECTIVE UTILITY OWNERS AT THEIR OWN EXPENSE.
6. PRIOR TO ANY CONSTRUCTION, CONTACT TAMPA ELECTRIC COMPANY (PH: 813-228-4111 OR 813-275-3037) FOR EXACT LOCATION OF UNDERGROUND LINES. TECO TO RELOCATE ANY CONFLICTING LINES.
7. PRIOR TO ANY CONSTRUCTION, CONTACT TECO GAS (813-275-3743) FOR EXACT LOCATION OF UNDERGROUND LINES. TECO GAS TO RELOCATE ANY CONFLICTING LINES.
8. PRIOR TO ANY CONSTRUCTION, CONTACT VERIZON (813-978-2164) FOR EXACT LOCATION OF UNDERGROUND LINES. VERIZON TO RELOCATE ANY CONFLICTING LINES.
9. STATIONS AND OFFSETS GIVEN ARE TO THE CENTER LINE OF THE INLETS AND MANHOLES, AND REFER TO THE CONSTRUCTION CENTER LINE (CONST CL).
10. THE SOLID WASTE DEPARTMENT (813-348-1146) IS TO BE NOTIFIED PRIOR TO ANY STREET CLOSURES IN THE PROJECT AREA.
11. TREE REMOVAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING SITE CLEARING PERMIT PRIOR TO START OF ANY CONSTRUCTION.
12. NECESSARY ROOT PRUNING AND TRIMMING OF BRANCHES SHALL BE DONE BY A CERTIFIED ARBORIST.
13. THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF THE LATEST "TREE ORDINANCE" OF THE CITY OF TAMPA. THE CONTRACTOR IS REQUIRED TO RELOCATE THE TREES REMOVED AS A PART OF THE NECESSARY CONSTRUCTION INDICATED ON PLANS.
14. SOD ALL THE DISTURBED AREAS WITHIN APPROVED TRENCH LIMITS.
15. WHERE CONNECTIONS TO EXISTING DRIVES AND WALKS ARE NOT INDICATED ON THE PLANS, PROPER CONNECTIONS SHALL BE MADE AT THE DIRECTION OF THE ENGINEER.
16. STREET SIGNS, STREET MARKERS AND R-O-W MARKERS SHALL BE REMOVED AND RELOCATED AS DIRECTED BY THE ENGINEER.
17. MAILBOXES SHALL BE REMOVED AND REPLACED IN-KIND.
18. DRIVEWAYS SHALL BE RECONSTRUCTED IN ACCORDANCE WITH CHAPTER 25 OF THE CITY CODE AND THE TRANSPORTATION TECHNICAL MANUAL. DEVIATION FROM ESTABLISHED STANDARDS SHALL BE APPROVED BY THE CITY TRAFFIC ENGINEER.
19. THE CONTRACTOR SHALL PROTECT ALL TREES, NOT DESIGNATED FOR REMOVAL, IN THE VICINITY OF THE PROPOSED CONSTRUCTION IN ACCORDANCE WITH CHAPTER 13 OF THE CITY OF TAMPA CODE. NO TREES SHALL BE PRUNED WITHOUT PRIOR APPROVAL FROM THE CITY OF TAMPA PARKS & RECREATION DEPARTMENT, NATURAL RESOURCES DIVISION, AND SHALL BE COMPLETED BY A CERTIFIED ARBORIST. ROOT PRUNING MAY BE REQUIRED AT CERTAIN LOCATIONS AND SHALL BE COMPLETED IN ACCORDANCE WITH CHAPTER 13 TECHNICAL MANUAL SPECIFICATIONS.
20. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE CITY OF TAMPA DEPARTMENT ORDINANCES AND REGULATIONS.
21. THE CONTRACTOR SHALL MAINTAIN COPIES OF ALL APPLICABLE PERMITS ON-SITE AND SHALL BE RESPONSIBLE TO ADHERE TO ALL PERMIT CONDITIONS DURING CONSTRUCTION.
22. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO THE ENGINEER FOR APPROVAL. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE.
23. COMPACTION FOR PIPE BACKFILL SHALL COMPLY WITH AASHTO T-99 (100%).

SITE NOTES

1. ALL DESIGN AND CONSTRUCTION MUST CONFORM TO THE MINIMUM STANDARDS SET DOWN IN CITY OF TAMPA STORMWATER TECHNICAL MANUAL, LATEST VERSION.
2. ALL RIGHT-OF-WAY INSTALLATIONS MUST COMPLY WITH THE CITY OF TAMPA STANDARDS AND TECHNICAL MANUALS.
3. IN AREAS WHERE FILL MATERIAL IS REQUIRED, BUT THERE IS NO PROPOSED STRUCTURE, THE EXISTING VEGETATION AND ROOTS SHALL BE REMOVED PRIOR TO PLACING ANY FILL MATERIAL. THE FILL SHALL BE PLACED IN LIFTS NO GREATER THAN 12 INCHES AS MEASURED LOOSE, AND COMPACTED TO A UNIFORM DENSITY ASTM D698 (80%). THE MATERIAL SHALL BE COMPACTED AT A MOISTURE CONTENT PERMITTING THE SPECIFIED COMPACTION. THE FILL SHALL BE TESTED BY THE CITY OF TAMPA THROUGH THE CITY INSPECTOR AND THE RESULTS SUPPLIED TO THE ENGINEER.
4. THE CONTRACTOR SHALL CONTACT THE ENGINEER'S OFFICE IMMEDIATELY ON ANY CONFLICTS ARISING DURING CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONSULT WITH THE ENGINEER FOR MAKING ANY AND ALL REQUIRED INTERPRETATIONS OF THE PLANS. HOWEVER, THIS IN NO WAY RELIEVES THE CONTRACTOR OF HIS RESPONSIBILITY FOR CONSTRUCTING THE PROJECT TO ACCOMPLISH THE INTENT OF THE PLANS.
5. REPAIR AND REPLACEMENT OF ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING BEFORE COMPLETING CONSTRUCTION UNLESS SPECIFICALLY EXEMPTED BY THE PLANS.

6. EROSION/SEDIMENTATION CONTROL: THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (HAY BALES OR SILTATION CURTAIN), IF REQUIRED TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION, THE CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON THE GROUND, AS REQUIRED, IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT THE SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE, EITHER BY NATURAL DRAINAGE OR BY VEHICLE TRAFFIC, THE CONTRACTOR IS TO REMOVE AND CLEAN SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR LOCAL AUTHORITIES AT NO ADDITIONAL COST.
7. CONTRACTOR SHALL SPRINKLE OR OTHERWISE APPLY WATER TO AFFECTED CONSTRUCTION AREA TO CONTROL BOTH SIGNIFICANT WIND EROSION OR FUGITIVE DUST.
8. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. PORTLAND CEMENT SHALL CONFORM TO ASTM C150. AGGREGATE SHALL CONFORM TO ASTM C33. READY MIXED CONCRETE SHALL CONFORM TO ASTM C-04. SUBSURFACE SHALL BE FREE FROM TROWEL OR MACHINE MARKS. SURFACE VARIATIONS SHALL NOT EXCEED 1/4 INCH UNDER TEN-FOOT (10') STRAIGHT EDGE.
9. ALL GRADING OF SIDEWALKS AND PEDESTRIAN WALKWAYS SHALL MEET MINIMUM "ADA" STANDARDS. SIDEWALK CROSS SLOPES AND DRIVEWAY CROSSINGS FOR SIDEWALKS TO BE 2.0% MAX. SLOPE. ALL SIDEWALK RUNNING SLOPES SHALL NOT EXCEED 5% WITHOUT USE OF PROPER RAMPS FOR FDOT OR FLORIDA BUILDING CODE. CONTRACTOR SHALL FIELD-VERIFY SIDEWALK FORM BOARDS PRIOR TO CONSTRUCTING WALKWAYS.
10. ALL INLET GRATE SEATS SHALL BE GALVANIZED GRATE SEATS.

CONSTRUCTION NOTES

1. PRICE FOR ALL REMOVAL, AS SHOWN ON THE PLANS OUTSIDE OF CONSTRUCTION EXCAVATION AREA, SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE STORMWATER UNIT PRICES.
2. CONTRACTOR TO SOD DISTURBED AREA WITHIN THE PROJECT LIMITS WITH BAHIA SOD AND/OR LIKE KIND OF EXISTING SOD.
3. CONTRACTOR TO RESTORE DISTURBED RESIDENTIAL YARDS WITHIN CONSTRUCTION LIMITS WITH BAHIA, ST. AUGUSTINE, AND/OR LIKE KIND OF SOD.
4. CONTRACTOR SHALL RESTORE ALL NEIGHBORING RESIDENTIAL YARDS WITH LIKE KIND OF LANDSCAPING, MAILBOXES, WALK WAYS, DRIVEWAYS, ETC. EACH YARD SHALL BE RESTORED TO EXISTING CONDITIONS UP TO AND INCLUDING FROM BACK OF CURB TO RIGHT OF WAY LINE.
5. CONTRACTOR TO PROTECT EXISTING IRRIGATION SYSTEMS AND ANY OTHER UTILITIES IN RESIDENTIAL YARDS WITHIN CONSTRUCTION LIMITS AND/OR RESTORE ANY DAMAGED SYSTEMS DURING CONSTRUCTION BACK TO EXISTING CONDITIONS.
6. CONTRACTOR TO PROTECT EXISTING PRIVATE FENCES DURING CONSTRUCTION OR REPLACE IN LIKE KIND.
7. CONTRACTOR TO PROTECT THE EXISTING CONDUIT THAT IS TO REMAIN.
8. ALL REMOVAL WITHIN PROPOSED EXCAVATION AREAS IS PART OF PIPE & DITCH CONSTRUCTION.
9. CONTRACTOR TO PROTECT ALL POWER POLES & SUBSURFACE UTILITIES. IN THE EVENT OF A CONFLICT THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY PROVIDER RESPONSIBLE FOR THE RELOCATION.
10. ALL RCP PIPES SHALL BE CLASS III WITH MINIMUM COVER OF 18". ALL RCP PIPES WITH LESS THAN 18" OF COVER ON RESIDENTIAL ROADS SHALL BE CLASS IV.
11. CONCRETE STRUCTURES AND JUNCTION BOXES MAY BE PRECAST OR CAST IN PLACE.
12. CONTRACTOR TO PROVIDE DEWATERING PLANS TO CITY PRIOR TO IMPLEMENTATION. THE DEWATERING PLAN SHOULD INCLUDE: 1. METHOD OF DEWATERING; 2. DISCHARGE POINT FOR GROUNDWATER; 3. TURBIDITY CONTROL METHODS; 4. PUMPING RATES/DURATION.
13. CONTRACTOR TO LIMIT STAGING AND WORK TO DRAINAGE EASEMENT & CONSTRUCTION ACCESS AREA.
14. CONTRACTOR TO RESTORE CONSTRUCTION ACCESS AREA DAMAGED DURING CONSTRUCTION BY MILLING AND RESURFACING ASPHALT PAVEMENT (1" DEEP), RESTORING ALL STRIPING, AND REPLACING ALL SIGNAGE.

I:\2024\04\ENGINEERING\DRAWINGS\CIVIL\BTE_1C23_0 NOTES\024-09 SW 2024-09.dwg 7/30/2024 8:04 AM 10/23/2023 8:10 AM COLIN MILLER

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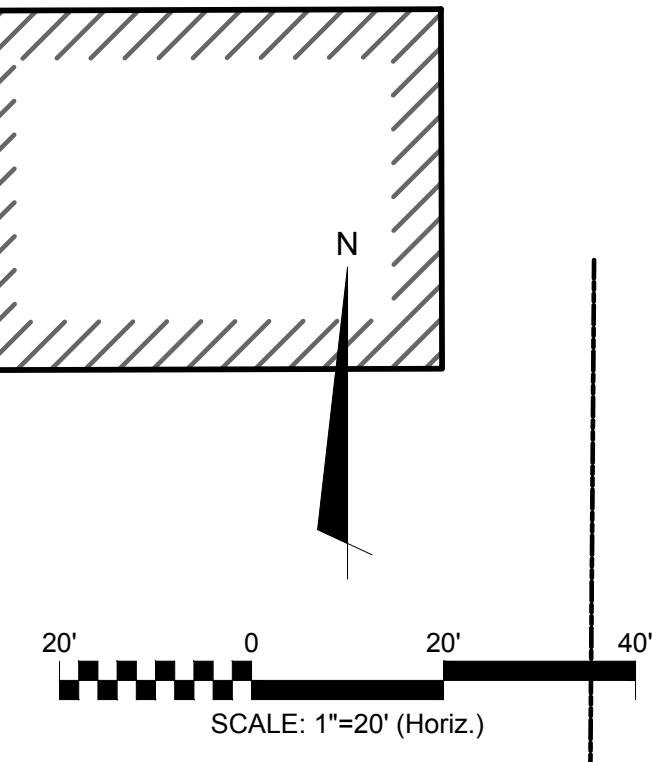
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DATE: 01/18/23

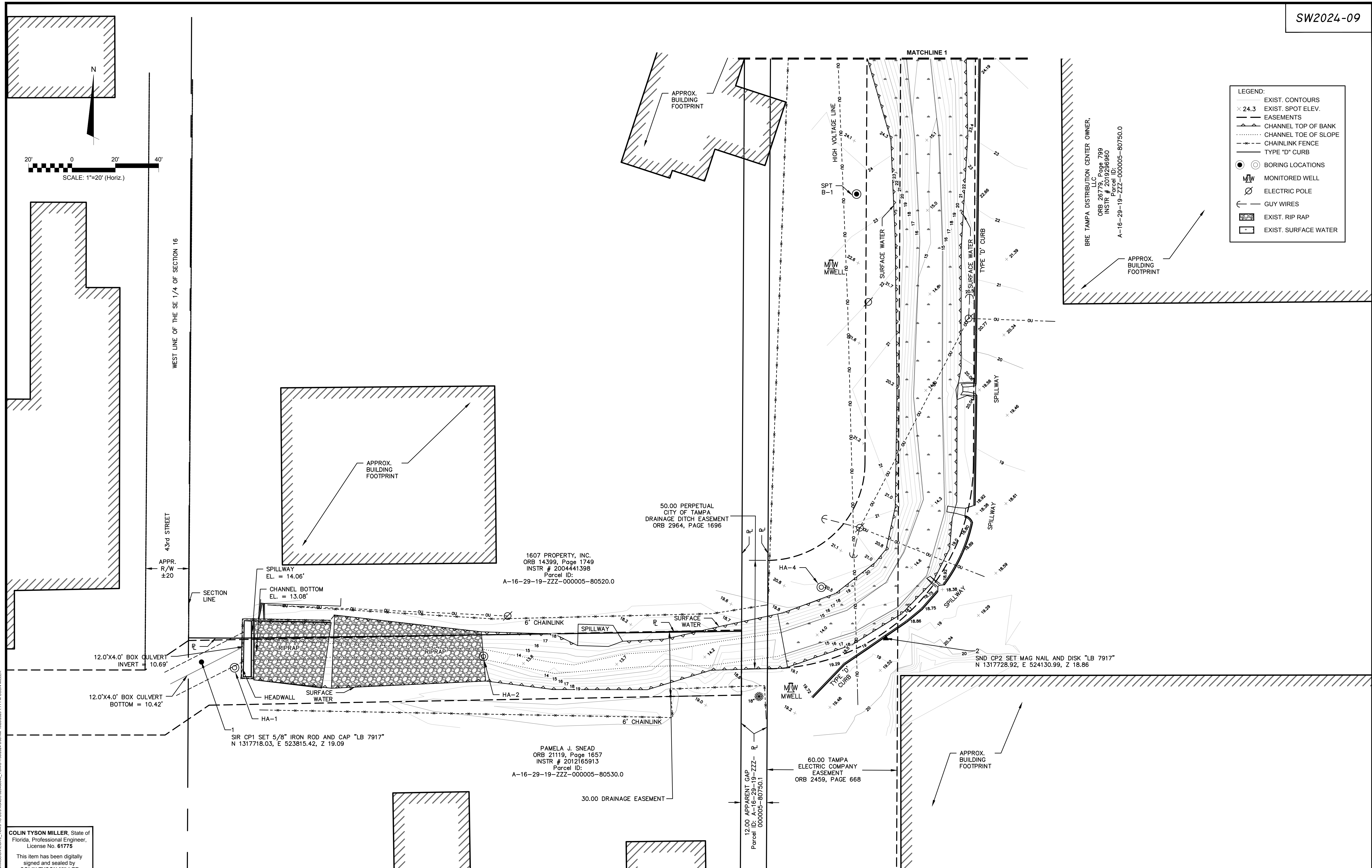
CITY of TAMPA
Mobility Department
Stormwater Engineering Division

43RD STREET DRAINAGE IMPROVEMENTS
GENERAL NOTES

SHEET
3
OF 22



- LEGEND:**
- EXIST. CONTOURS
 - × 24.3 EXIST. SPOT ELEV.
 - - - EASEMENTS
 - ▲ CHANNEL TOP OF BANK
 - CHANNEL TOE OF SLOPE
 - - - CHAINLINK FENCE
 - TYPE "D" CURB
 - BORING LOCATIONS
 - ⊙ MONITORED WELL
 - ⊘ ELECTRIC POLE
 - GUY WIRES
 - ▨ EXIST. RIP RAP
 - EXIST. SURFACE WATER



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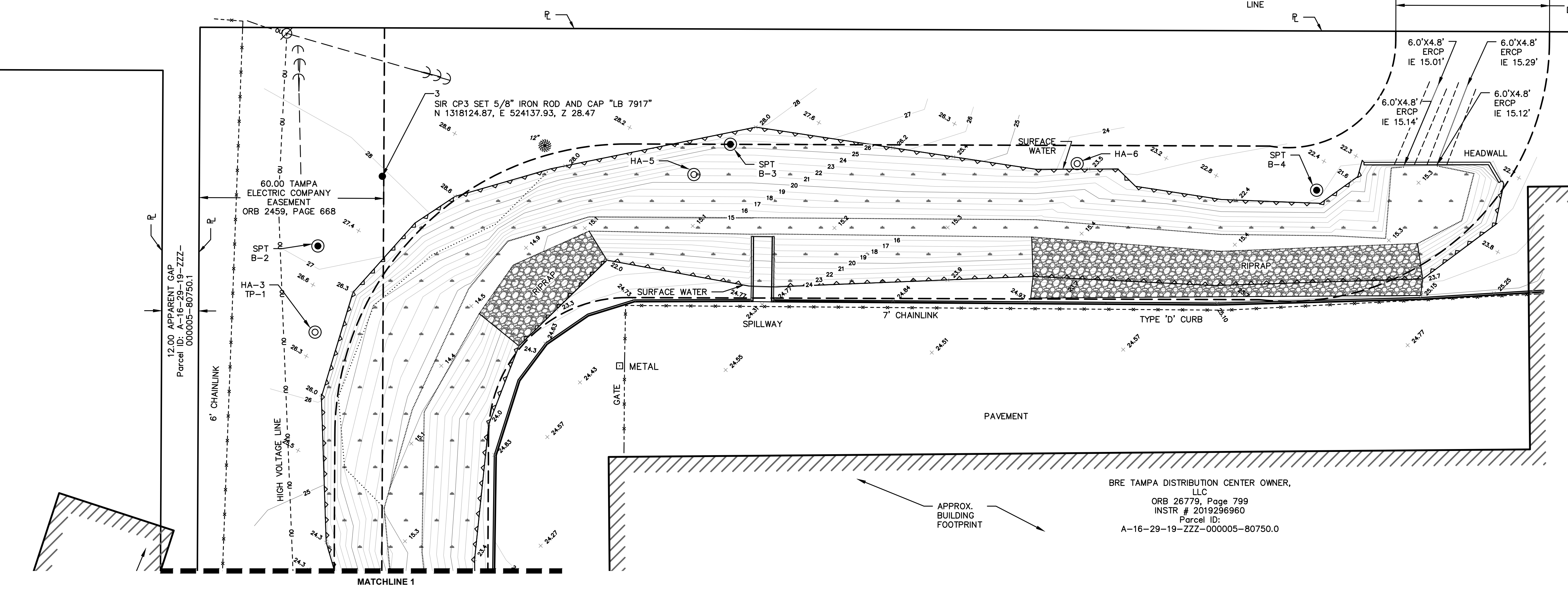
CITY of TAMPA
 Mobility Department
 Stormwater Engineering Division

43RD STREET DRAINAGE IMPROVEMENTS
 EXISTING CONDITIONS

NORTH LINE OF THE SE 1/4 OF SECTION 16

SECTION LINE

50.00 PERPETUAL
CITY OF TAMPA
DRAINAGE DITCH EASEMENT
ORB 2964, PAGE 1696

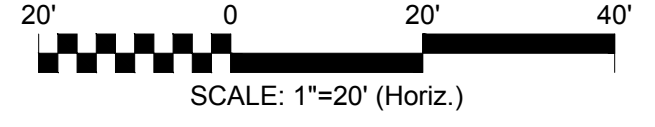


60.00 TAMPA
ELECTRIC COMPANY
EASEMENT
ORB 2459, PAGE 668

12.00 APPARENT GAP
Parcel ID: A-16-29-19-ZZZ-
000005-80750.1

SIR CP3 SET 5/8" IRON ROD AND CAP "LB 7917"
N 1318124.87, E 524137.93, Z 28.47

BRE TAMPA DISTRIBUTION CENTER OWNER,
LLC
ORB 26779, Page 799
INSTR # 2019296960
Parcel ID:
A-16-29-19-ZZZ-000005-80750.0



LEGEND:	
—	EXIST. CONTOURS
x 24.3	EXIST. SPOT ELEV.
---	EASEMENTS
---	CHANNEL TOP OF BANK
---	CHANNEL TOE OF SLOPE
- - -	CHAINLINK FENCE
- - -	TYPE "D" CURB
○	BORING LOCATIONS
MW	MONITORED WELL
⊘	ELECTRIC POLE
---	GUY WIRES
▨	EXIST. RIP RAP
—	EXIST. SURFACE WATER

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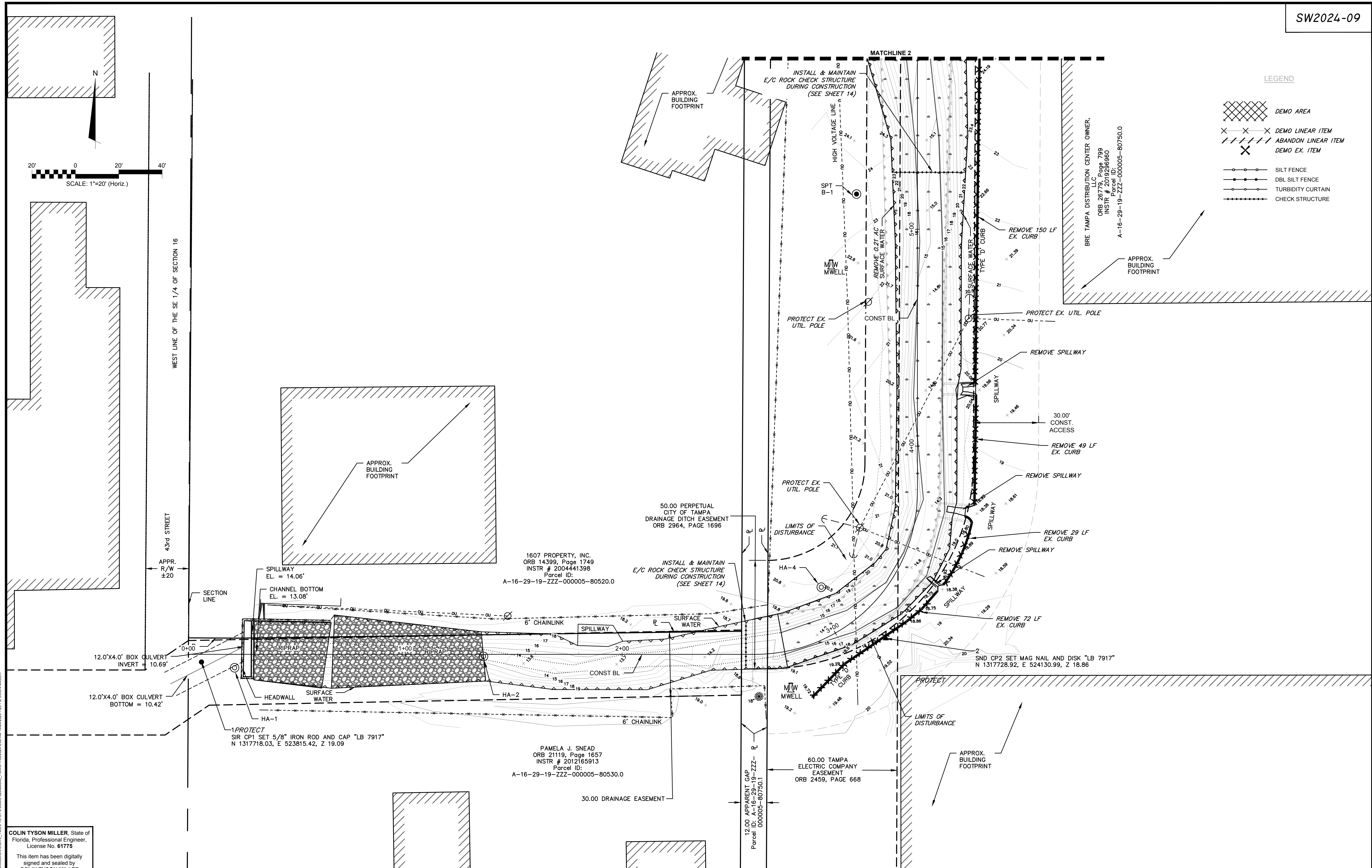
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CITY of TAMPA
Mobility Department
Stormwater Engineering Division

43RD STREET DRAINAGE IMPROVEMENTS
EXISTING CONDITIONS



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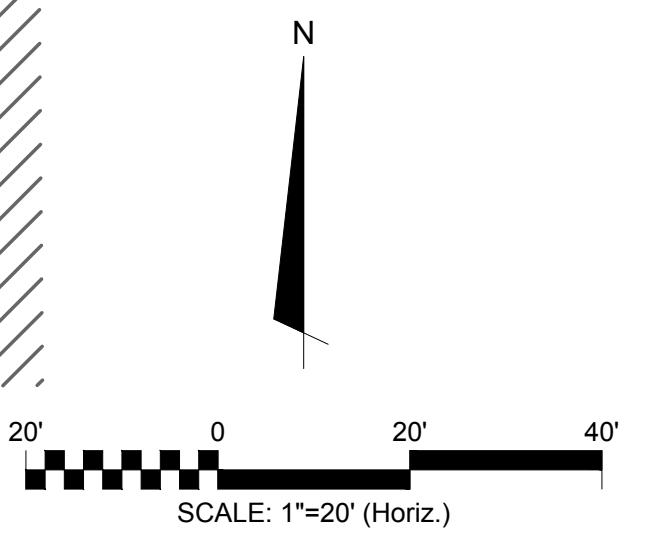
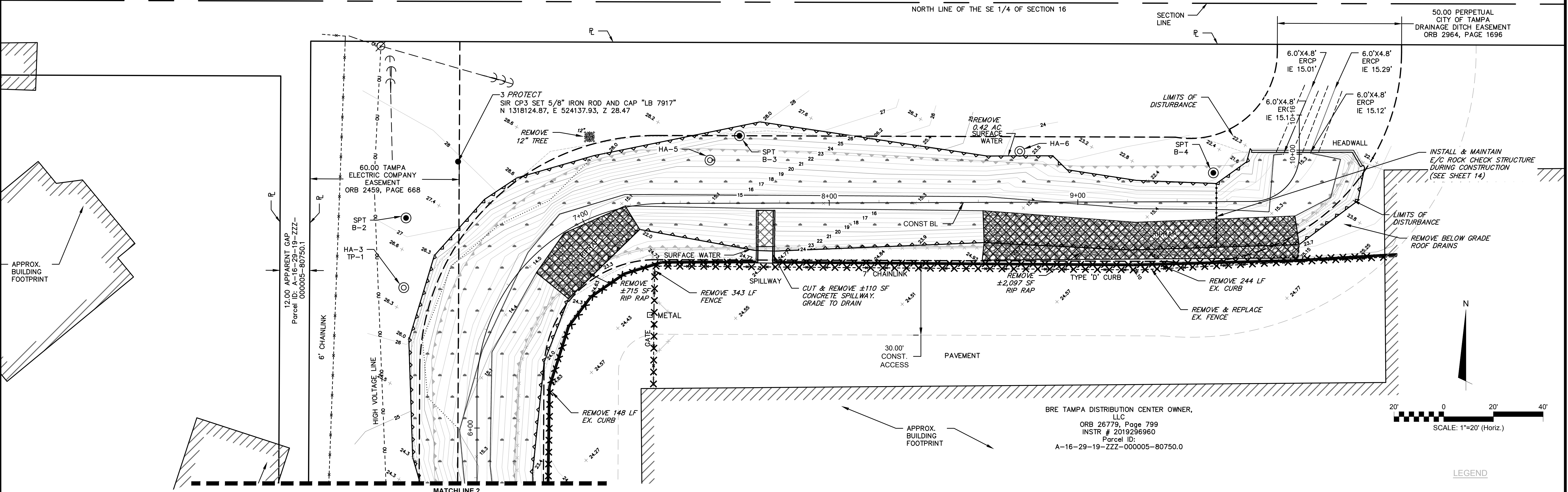


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CITY of TAMPA
 Mobility Department
 Stormwater Engineering Division

43RD STREET DRAINAGE IMPROVEMENTS
 DEMOLITION & SWPPP



BRE TAMPA DISTRIBUTION CENTER OWNER, LLC
 ORB 26779, Page 799
 INSTR # 2019256960
 Parcel ID:
 A-16-29-19-ZZZ-000005-80750.0

LEGEND

- DEMO AREA
- DEMO LINEAR ITEM
- ABANDON LINEAR ITEM
- DEMO EX. ITEM
- SILT FENCE
- DBL SILT FENCE
- TURBIDITY CURTAIN
- CHECK STRUCTURE

I:\2024\04\04\ENGR\DRAWINGS\CIVIL\SITE_1\CS03 TO CT 0 DEMO\240404_1.DWG 7:00:02 AM 10/26/2023 1:23 PM COLIN MILLER

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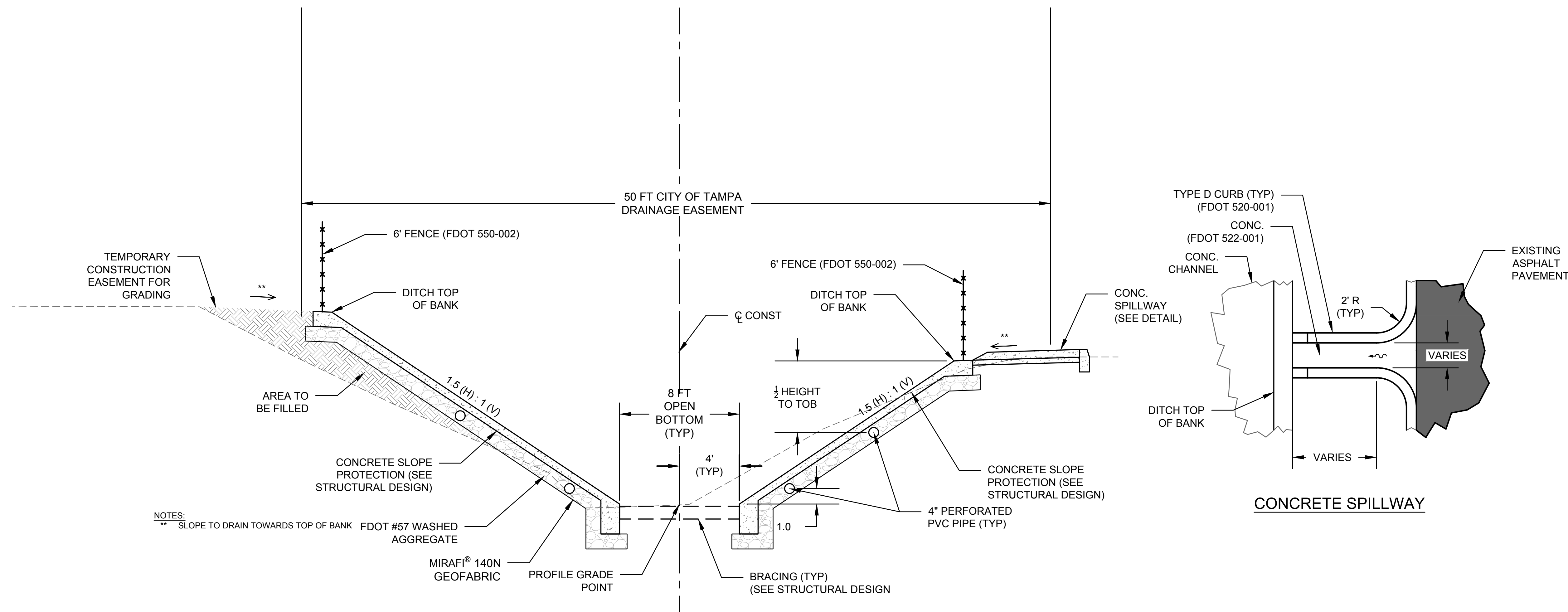
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CITY of TAMPA
 Mobility Department
 Stormwater Engineering Division

43RD STREET DRAINAGE IMPROVEMENTS
 DEMOLITION & SWPPP

SHEET
7
 OF 22



**(A) CONCRETE CHANNEL
TYPICAL SECTION**

SCALE: NTS

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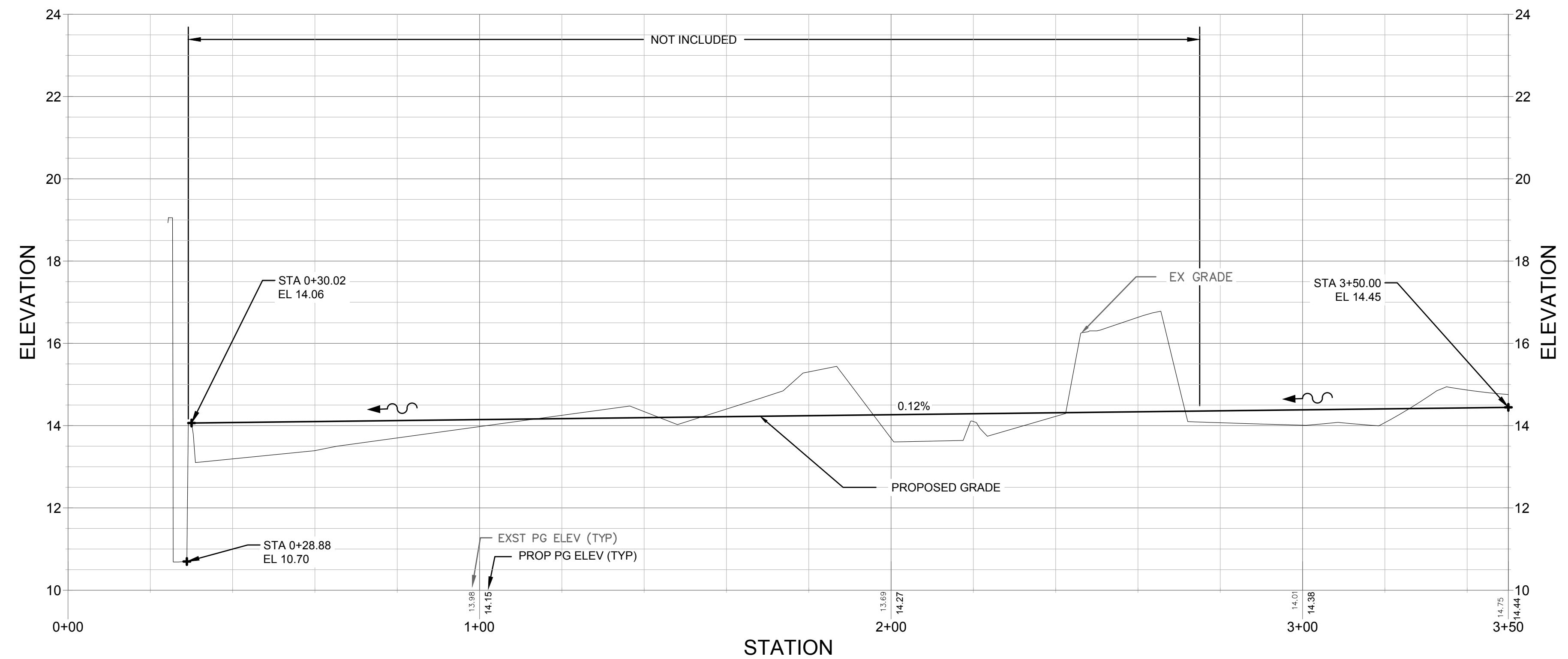
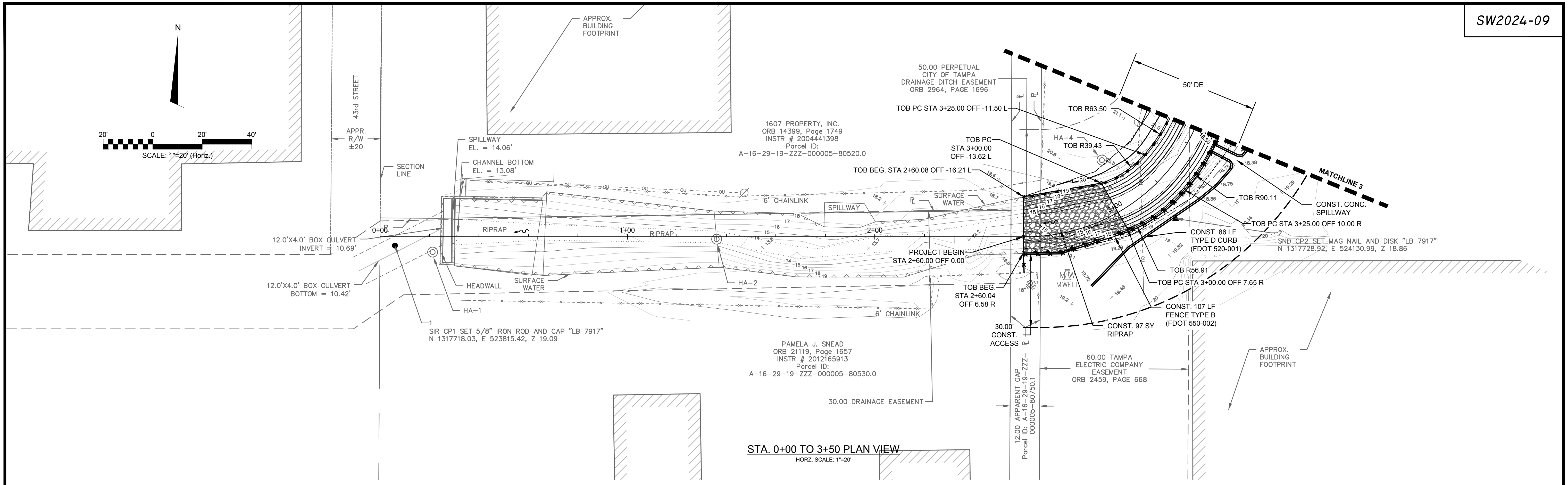


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CITY of TAMPA
Mobility Department
Stormwater Engineering Division

43RD STREET DRAINAGE IMPROVEMENTS
TYPICAL SECTION



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NOTES:
 CONTRACTOR TO INSTALL STABILIZED CONSTRUCTION ENTRANCE WHERE NECESSARY (SEE DETAIL SHEET 17).

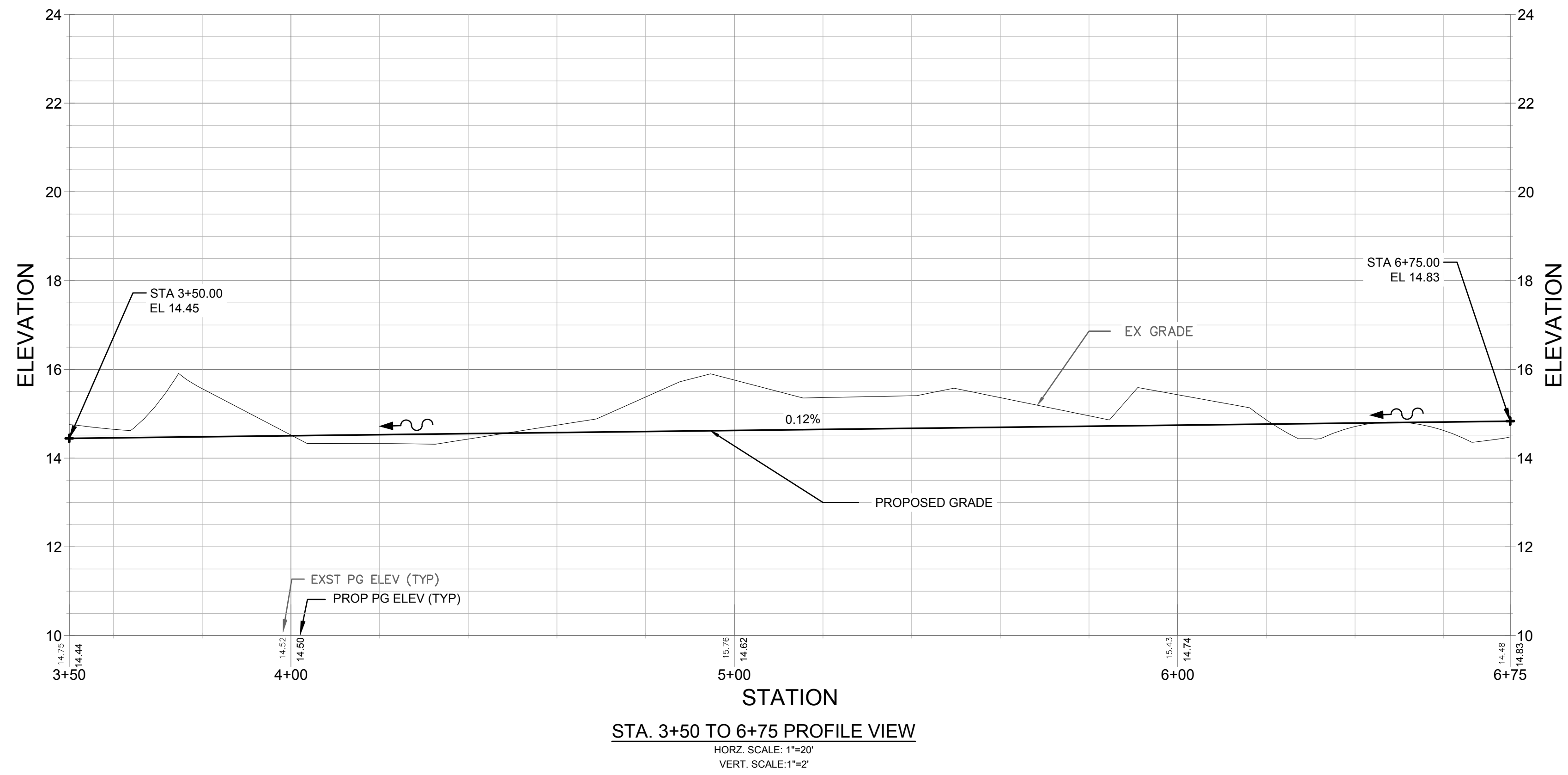
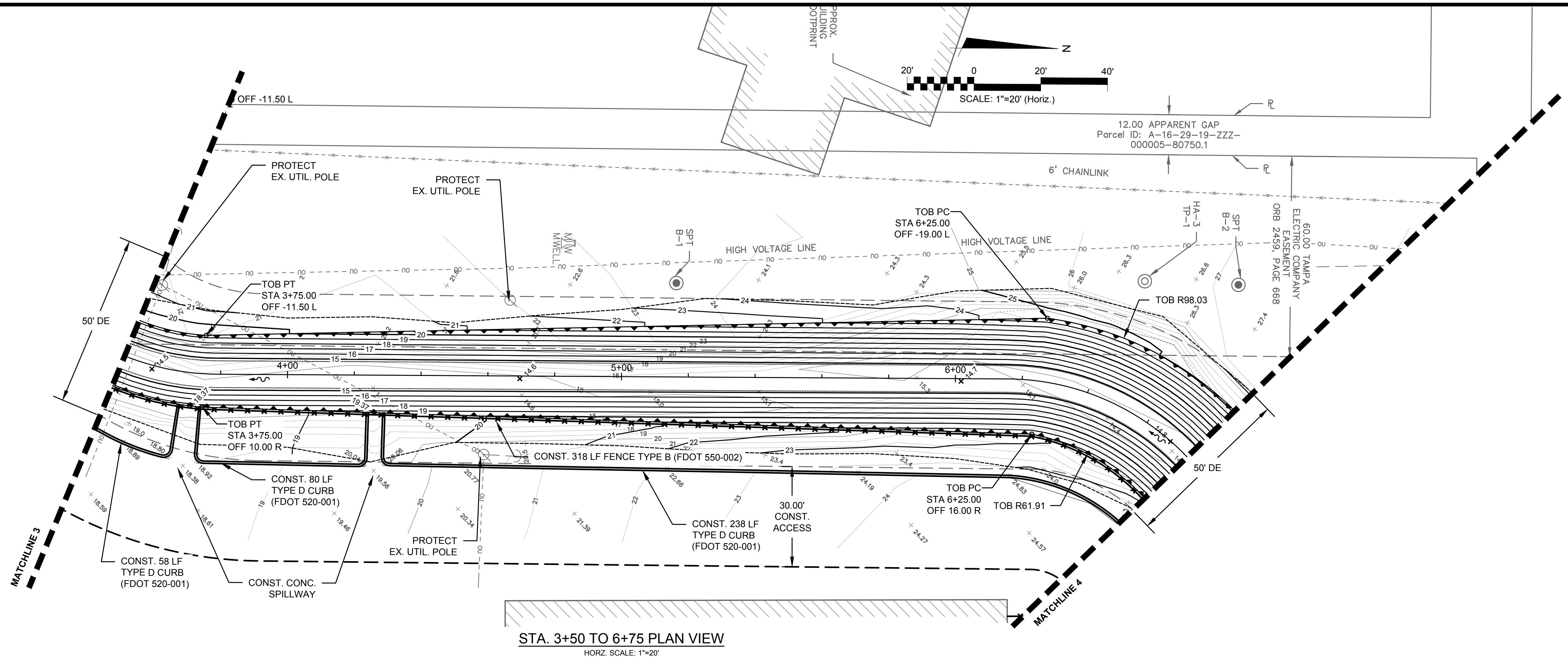
MCKIM & CREED
 3903 Northside Blvd., Ste. 115E,
 Tampa, Florida 33624
 Phone: (813) 549-3740, Fax: (813) 549-3744
 EB 0029588 www.mckimcreed.com

No.	DATE	REVISIONS	No.	DATE	REVISIONS

DES: RTV
 DRN: RTV
 CKD: TLW
 DATE: 01/18/23

CITY of TAMPA
 Mobility Department
 Stormwater Engineering Division

43RD STREET DRAINAGE IMPROVEMENTS
 PLAN & PROFILE



COLIN TYSON MILLER, State of Florida, Professional Engineer, License No. 61775
 This item has been digitally signed and sealed by COLIN TYSON MILLER on the date indicated here.

NOTES:
 CONTRACTOR TO INSTALL STABILIZED CONSTRUCTION ENTRANCE WHERE NECESSARY (SEE DETAIL SHEET 17).



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CITY of TAMPA
 Mobility Department
 Stormwater Engineering Division

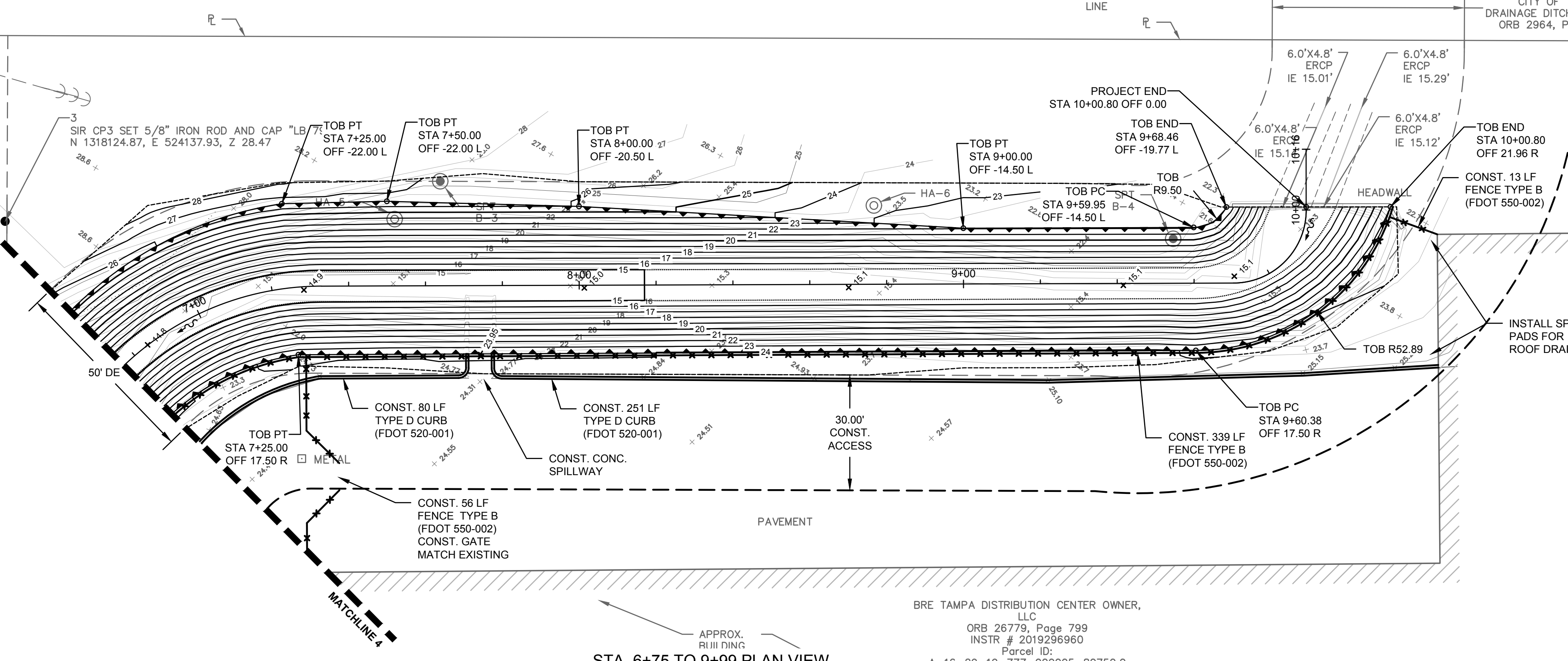
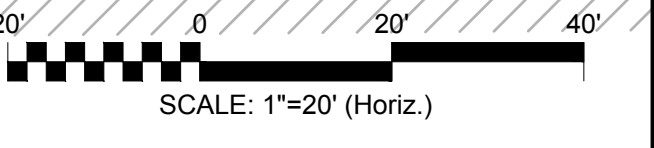
43RD STREET DRAINAGE IMPROVEMENTS
 PLAN & PROFILE

NORTH LINE OF THE SE 1/4 OF SECTION 16

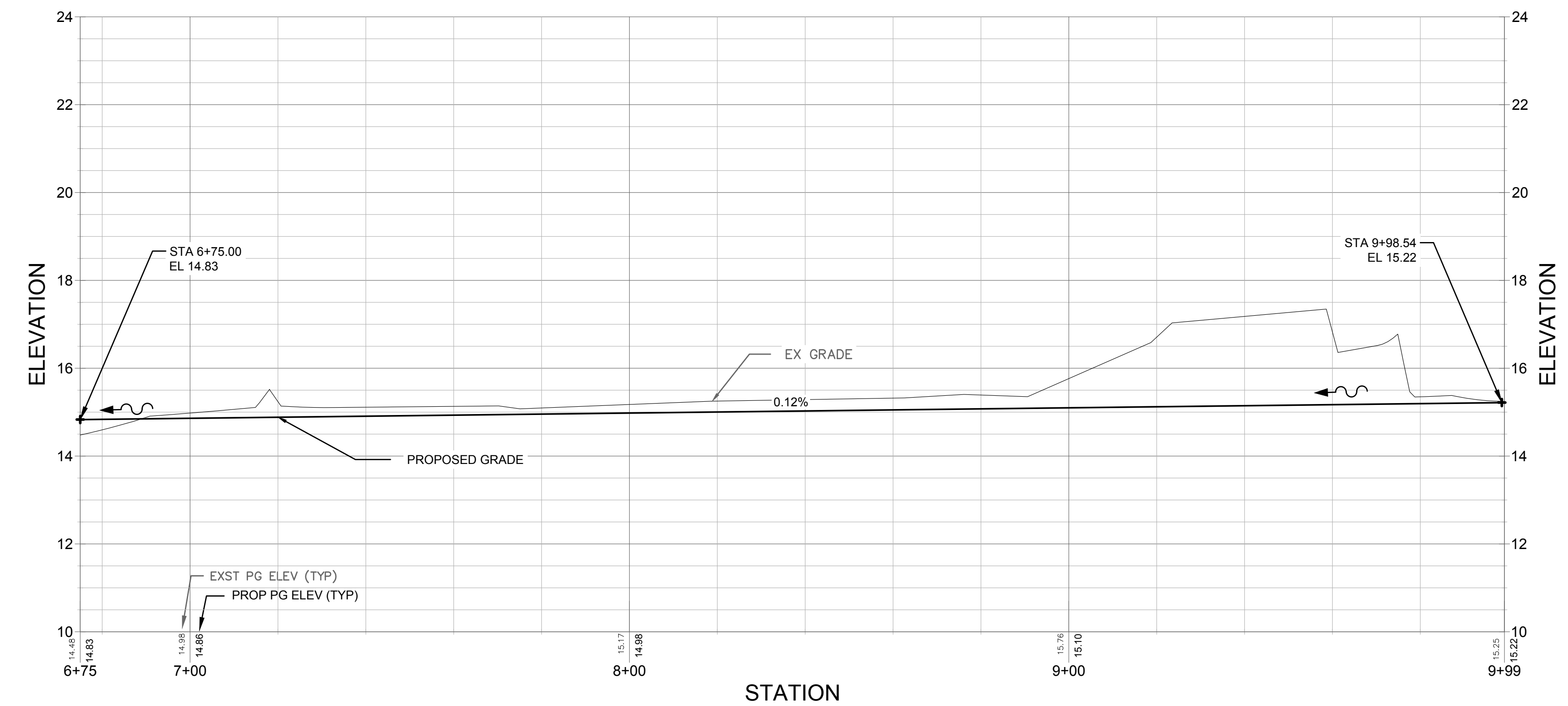
SECTION LINE

50.00 PERPETUAL CITY OF TAMPA DRAINAGE DITCH EASEMENT ORB 2964, PAGE 1696

N



STA. 6+75 TO 9+99 PLAN VIEW
HORZ. SCALE: 1"=20'



STA. 6+75 TO 9+99 PROFILE VIEW
HORZ. SCALE: 1"=20'
VERT. SCALE: 1"=2'

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Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

NOTES:
CONTRACTOR TO INSTALL STABILIZED CONSTRUCTION ENTRANCE WHERE NECESSARY (SEE DETAIL SHEET 17).

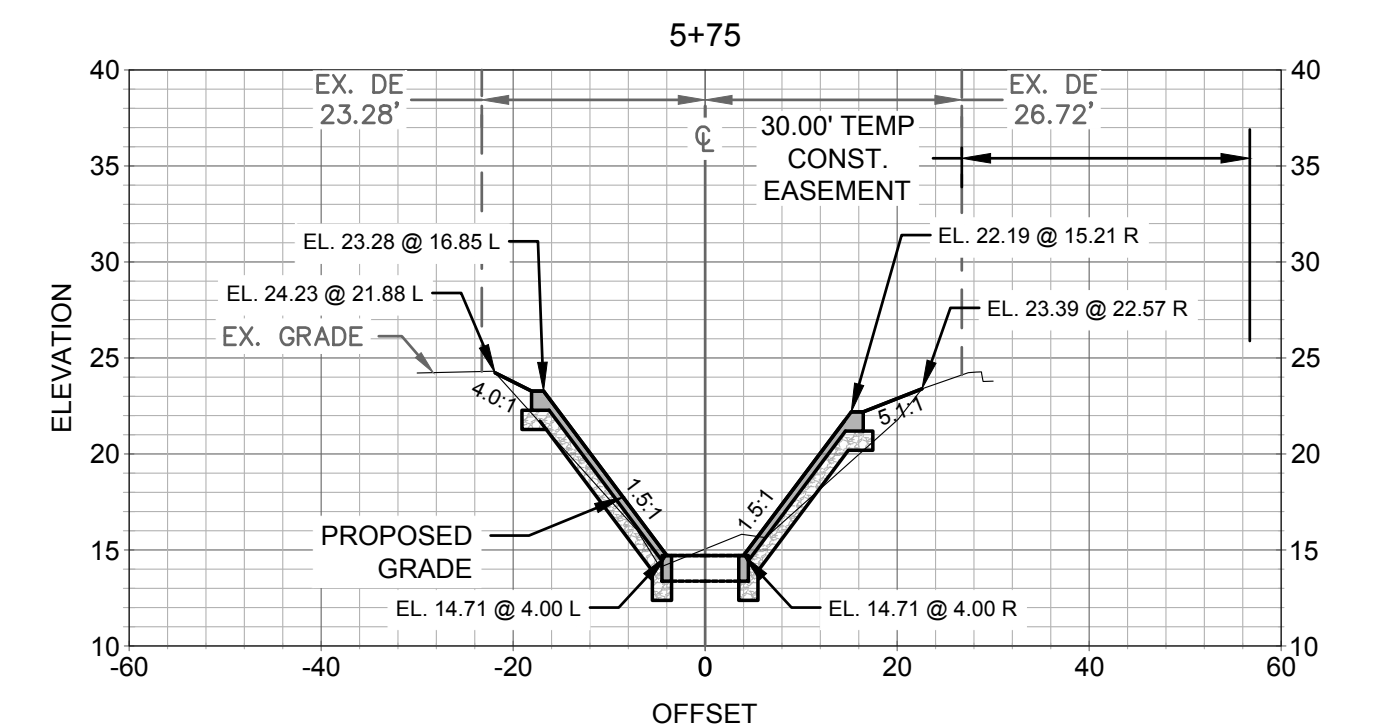
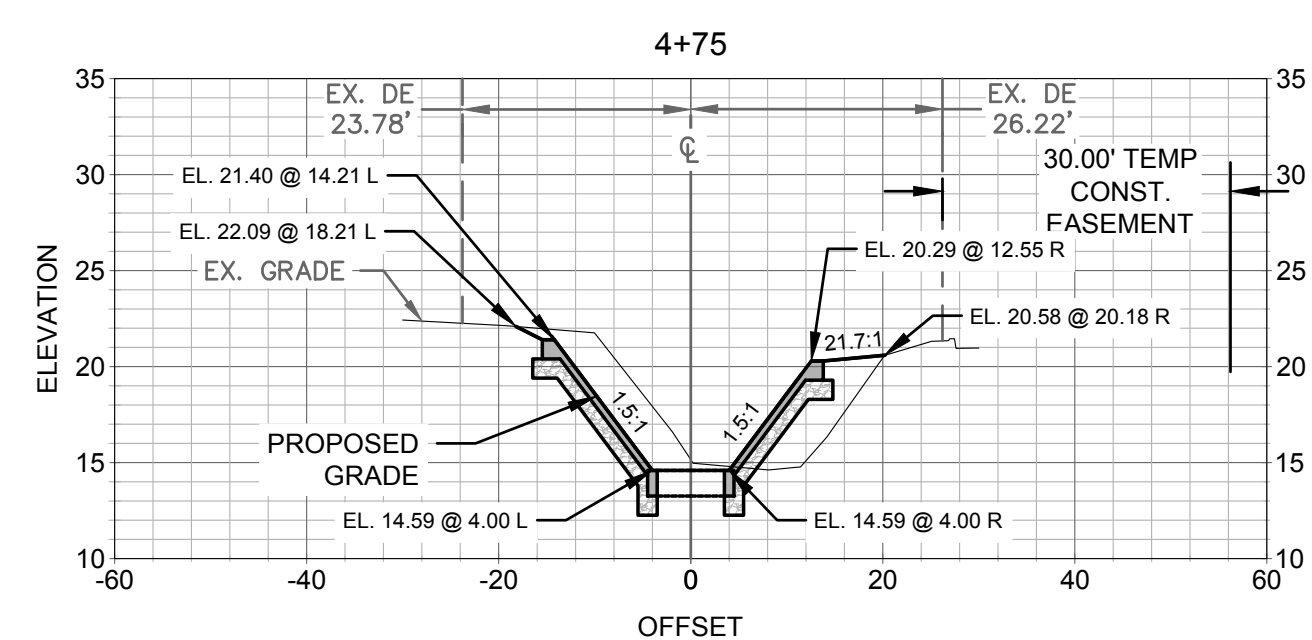
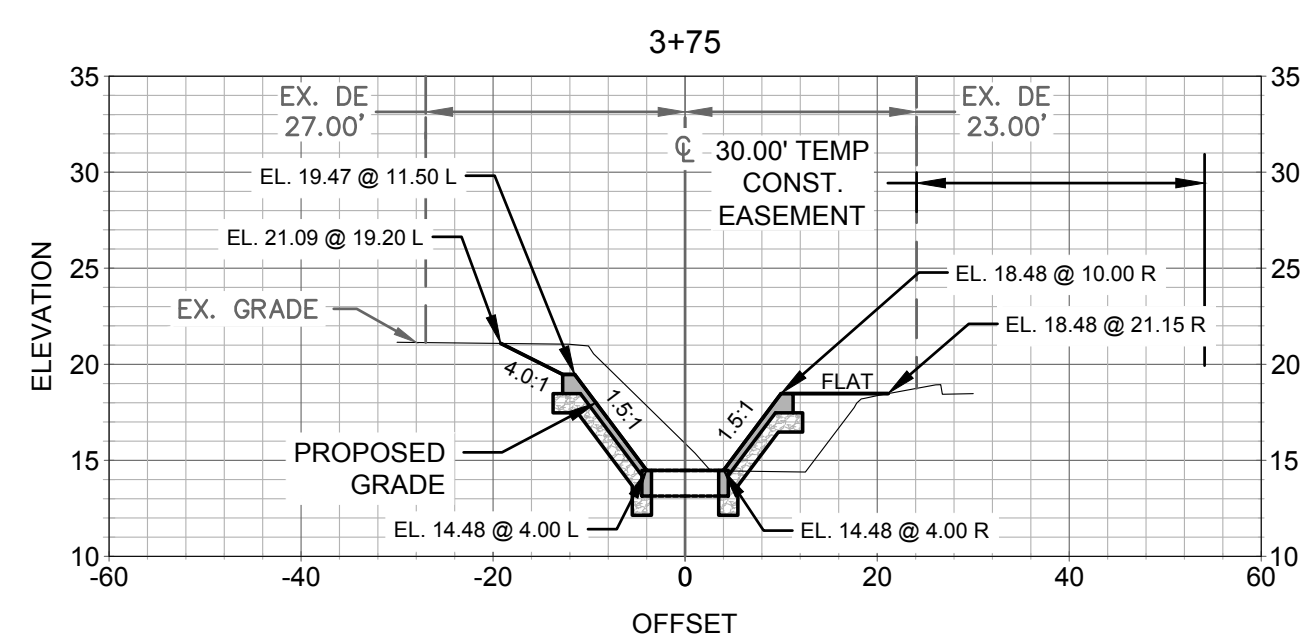
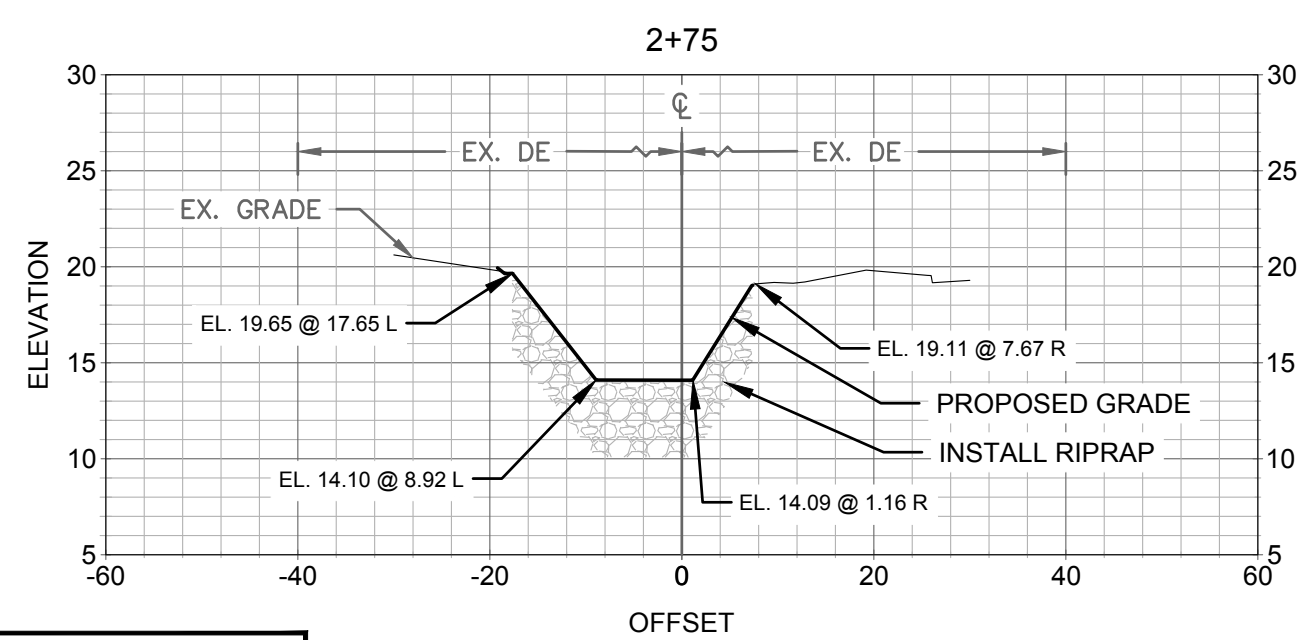
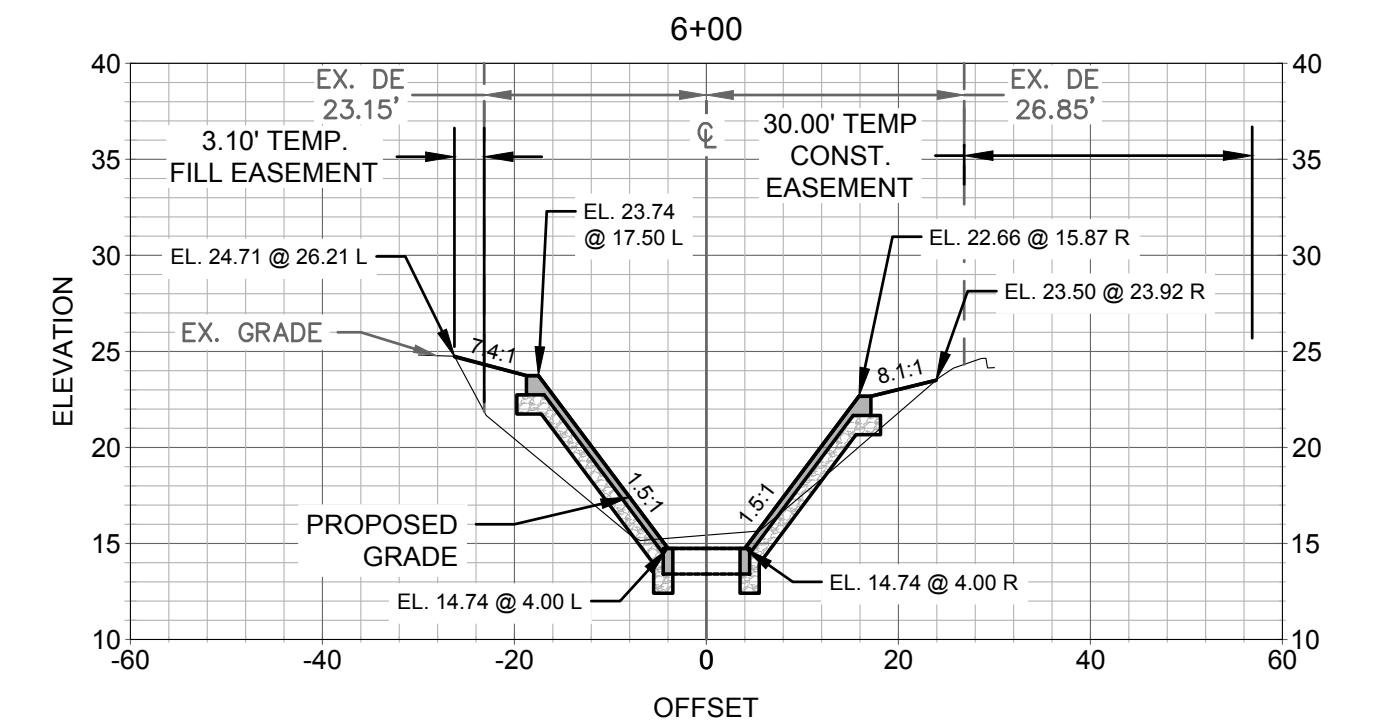
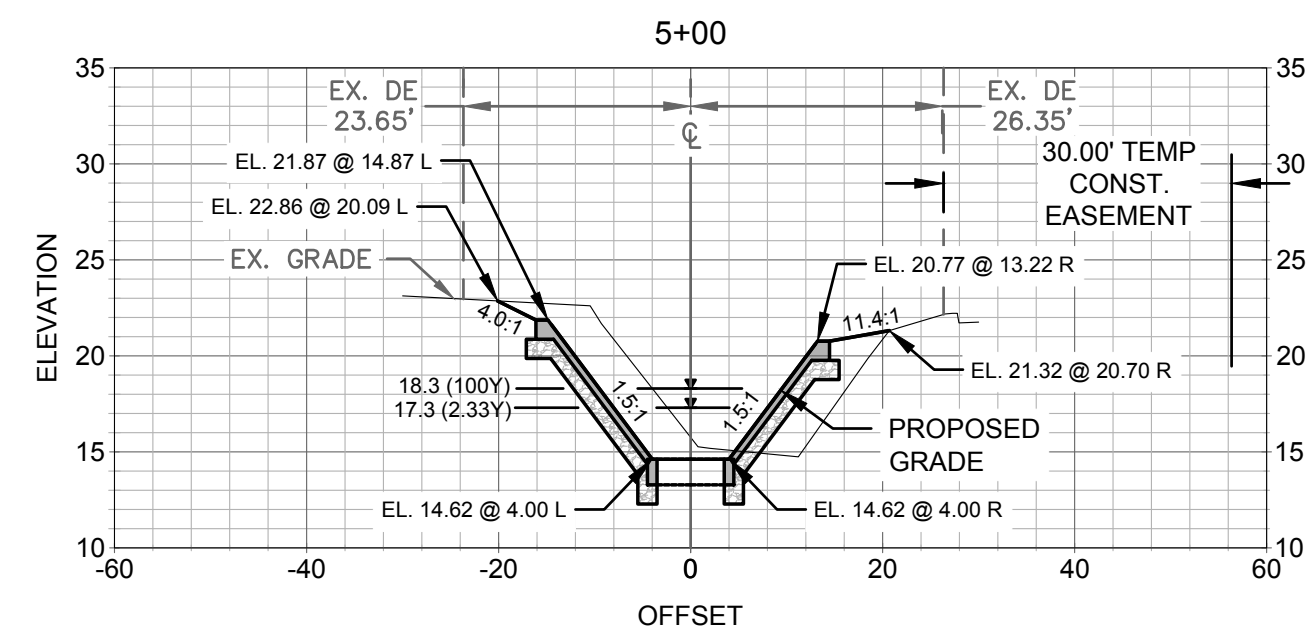
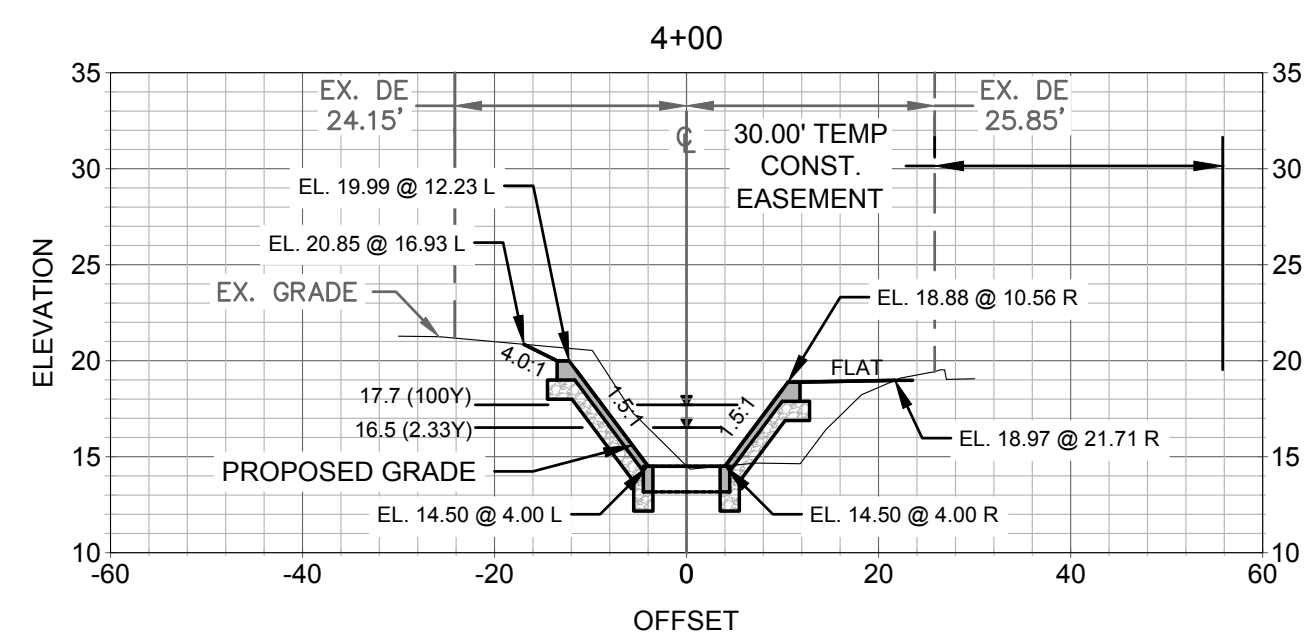
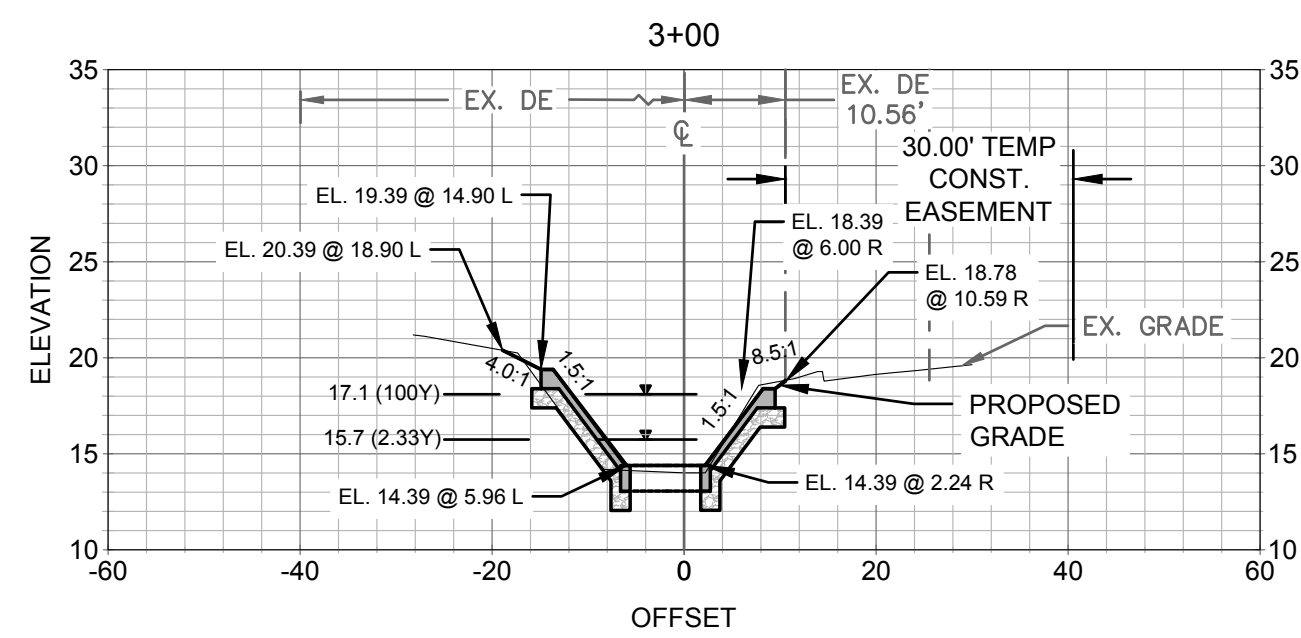
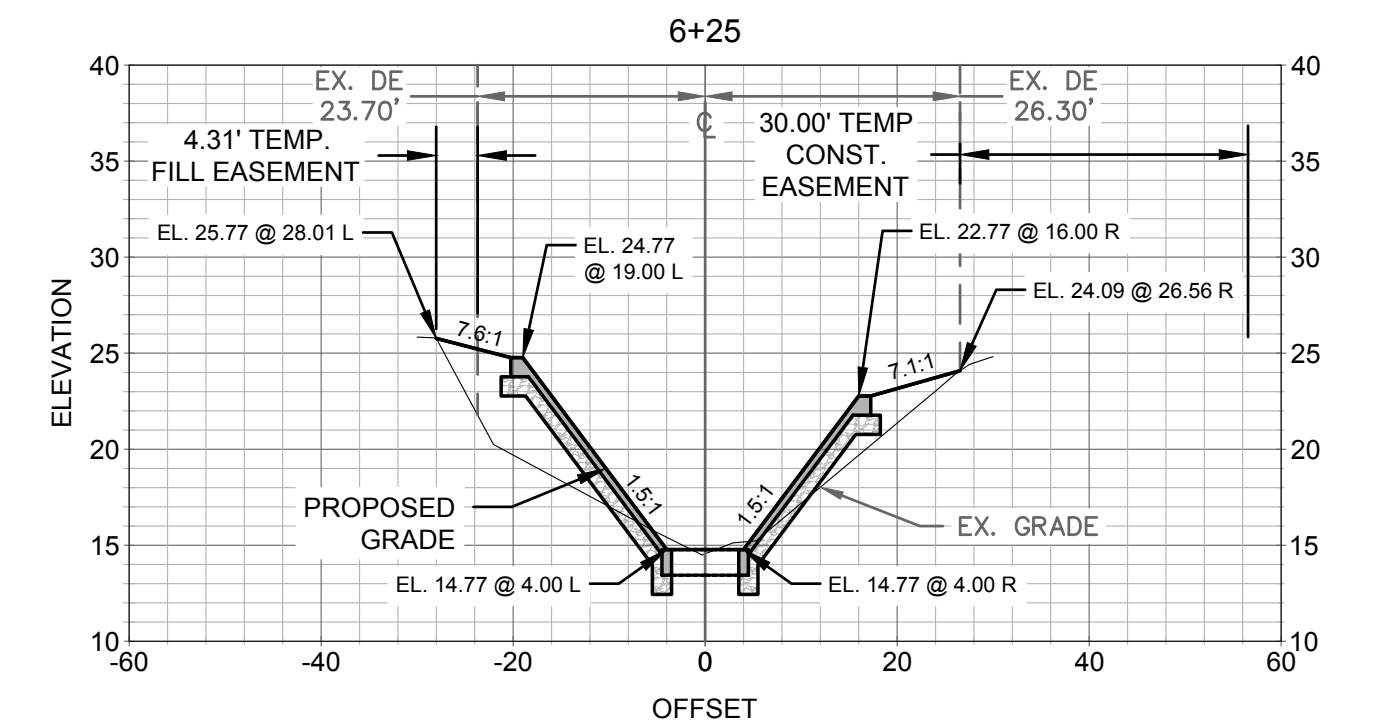
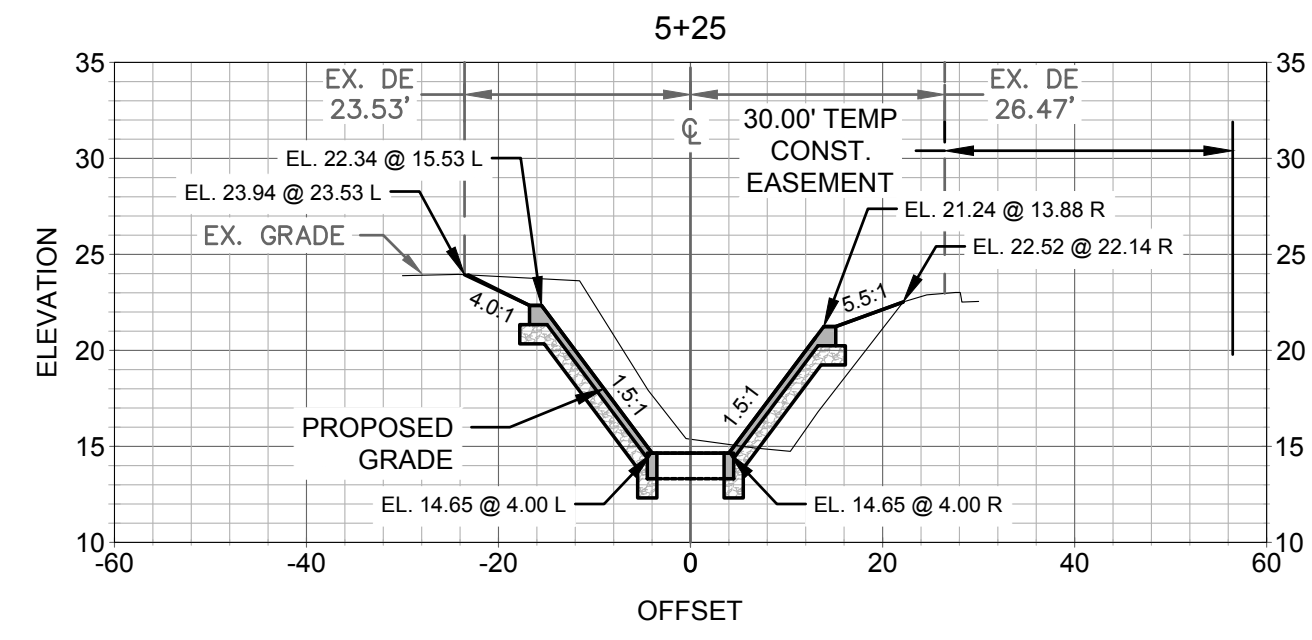
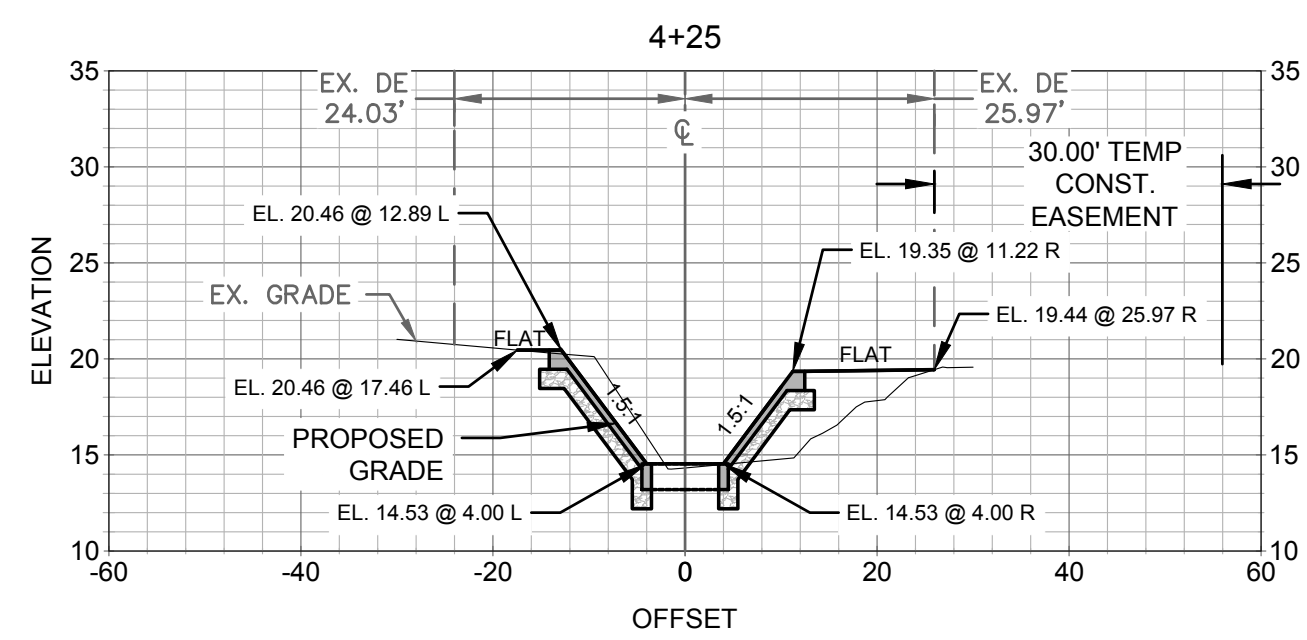
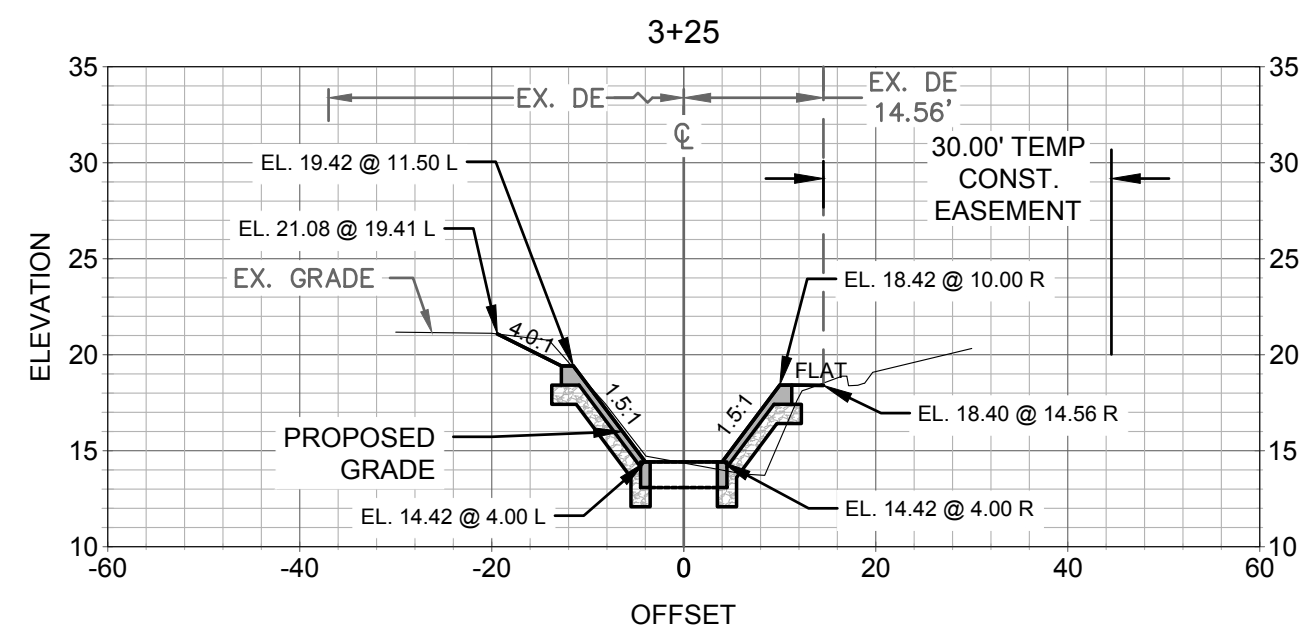
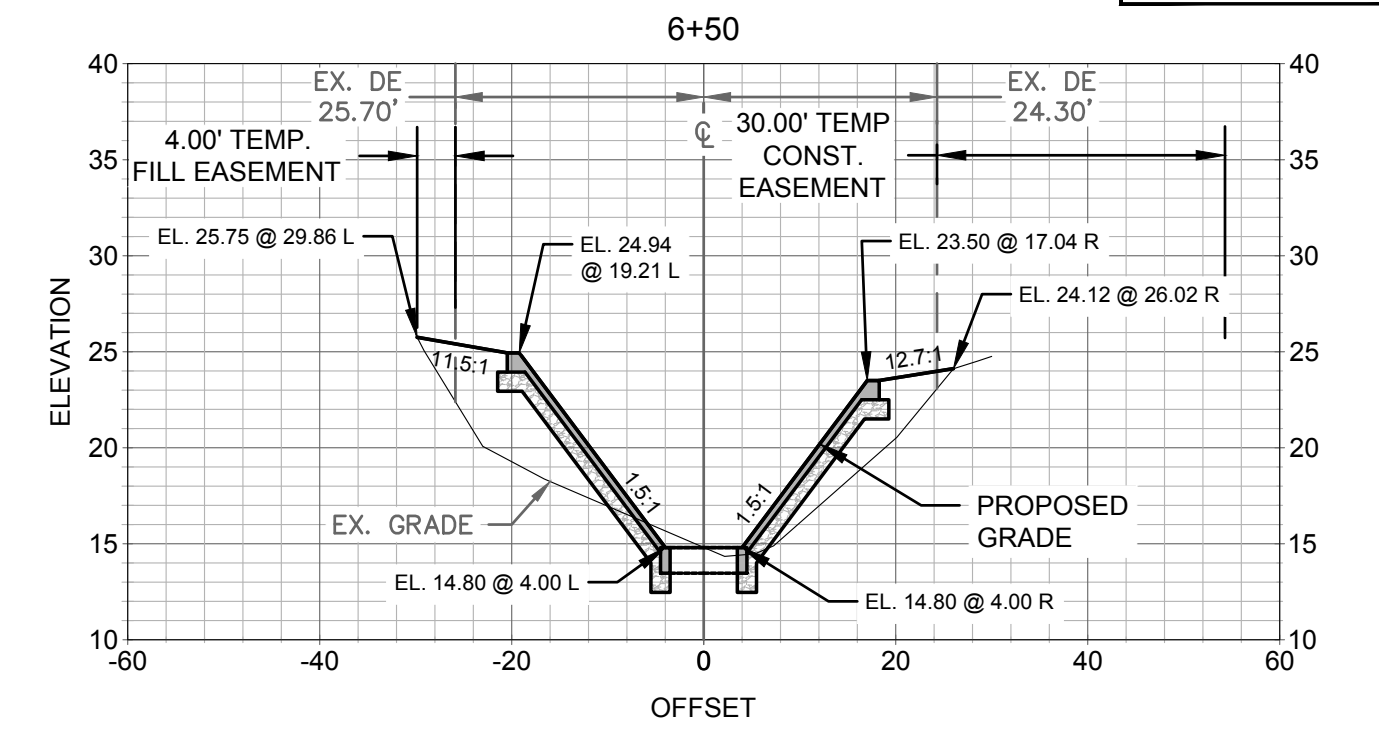
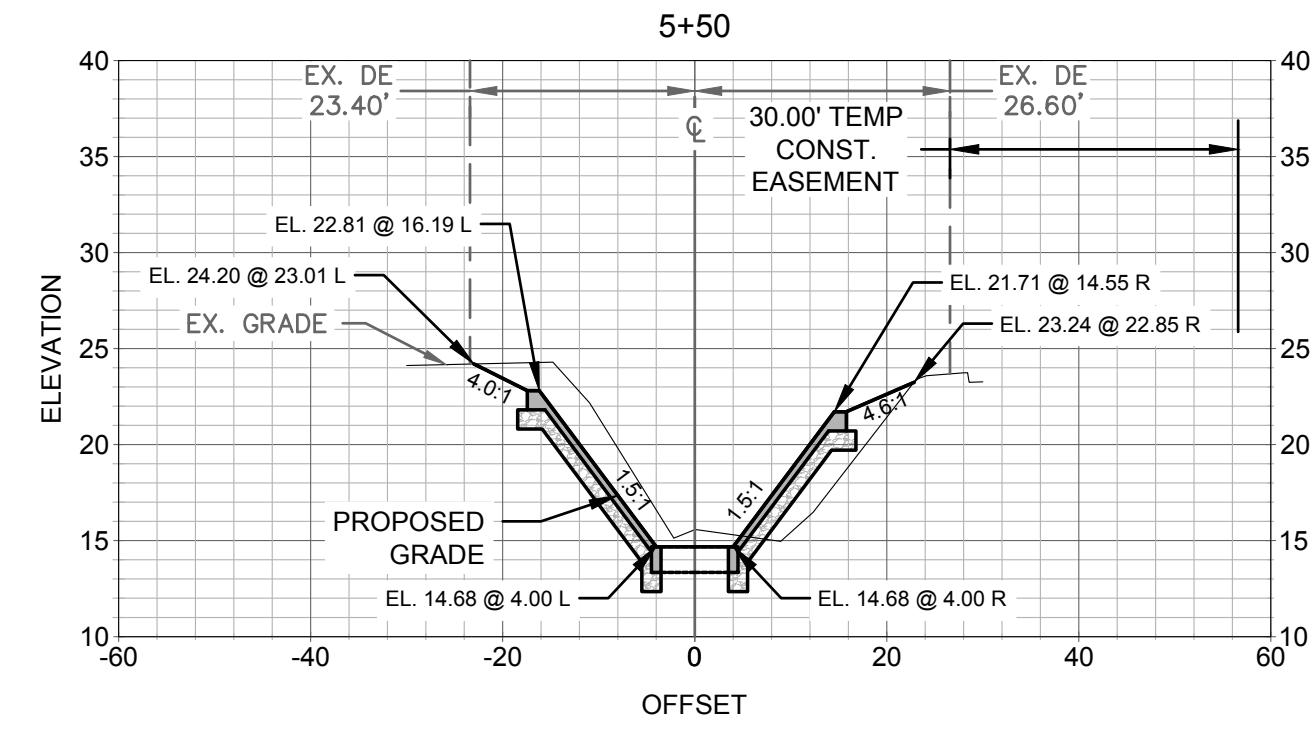
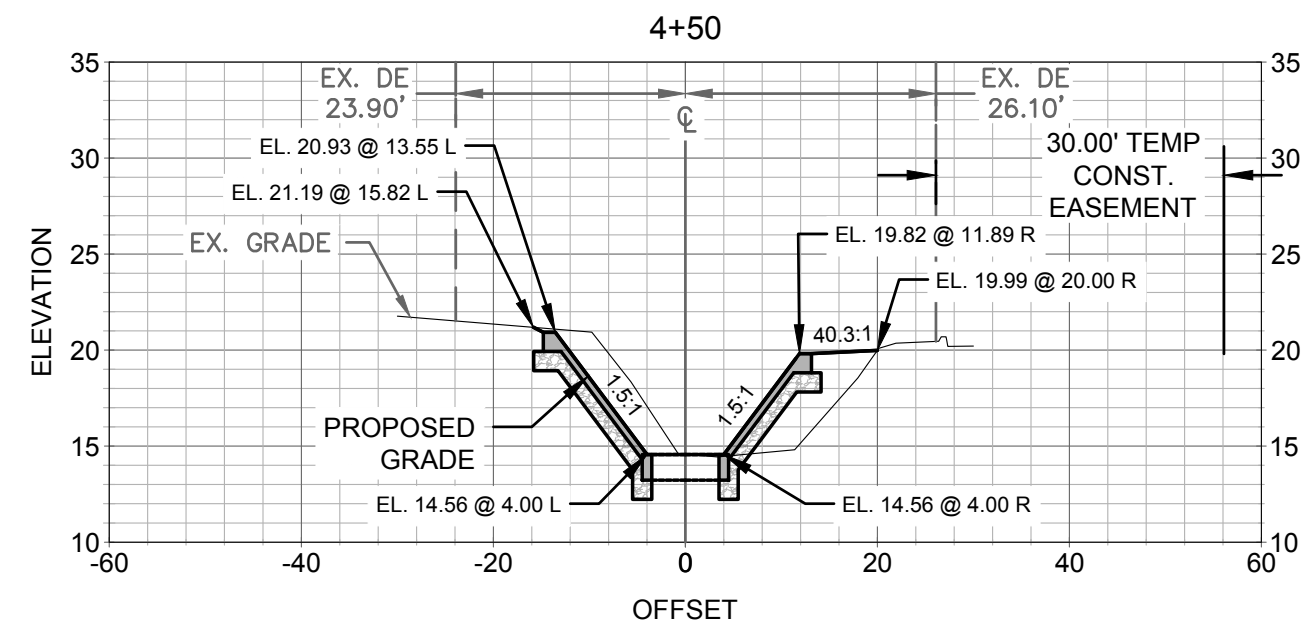
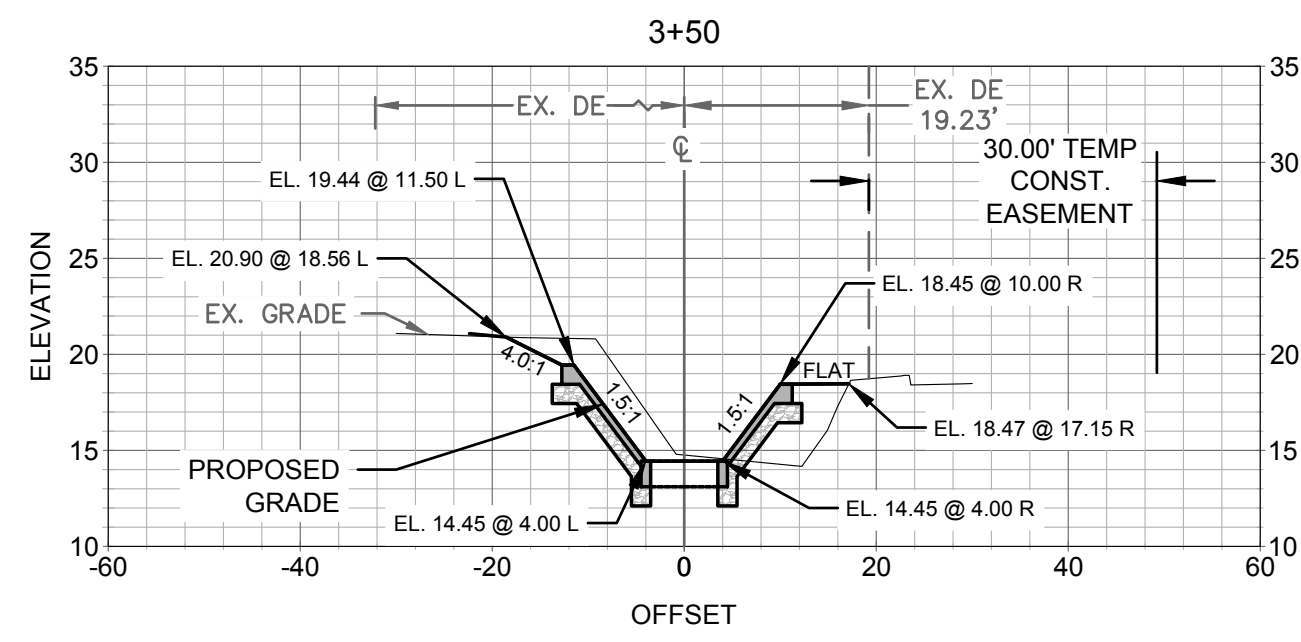
MCKIM & CREED
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Phone: (813) 549-3740, Fax: (813) 549-3744
EB 0029588 www.mckimcreed.com

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CITY of TAMPA
Mobility Department
Stormwater Engineering Division

43RD STREET DRAINAGE IMPROVEMENTS
PLAN & PROFILE



1:028490(ENGINEERING)DRAWINGS\CIVIL\BTL_1C1210 TO C1310 CROSS SECTIONS\2024\SW2024-09\SW2024-09.dwg 7/30/2024 8:09 AM 2/20/2024 8:47 AM COLIN MILLER

COLIN TYSON MILLER, State of Florida, Professional Engineer, License No. 61775
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 EB 0029598 www.mckimcreed.com

HORZ. SCALE: 1"=20'
 VERT. SCALE: 1"=10'

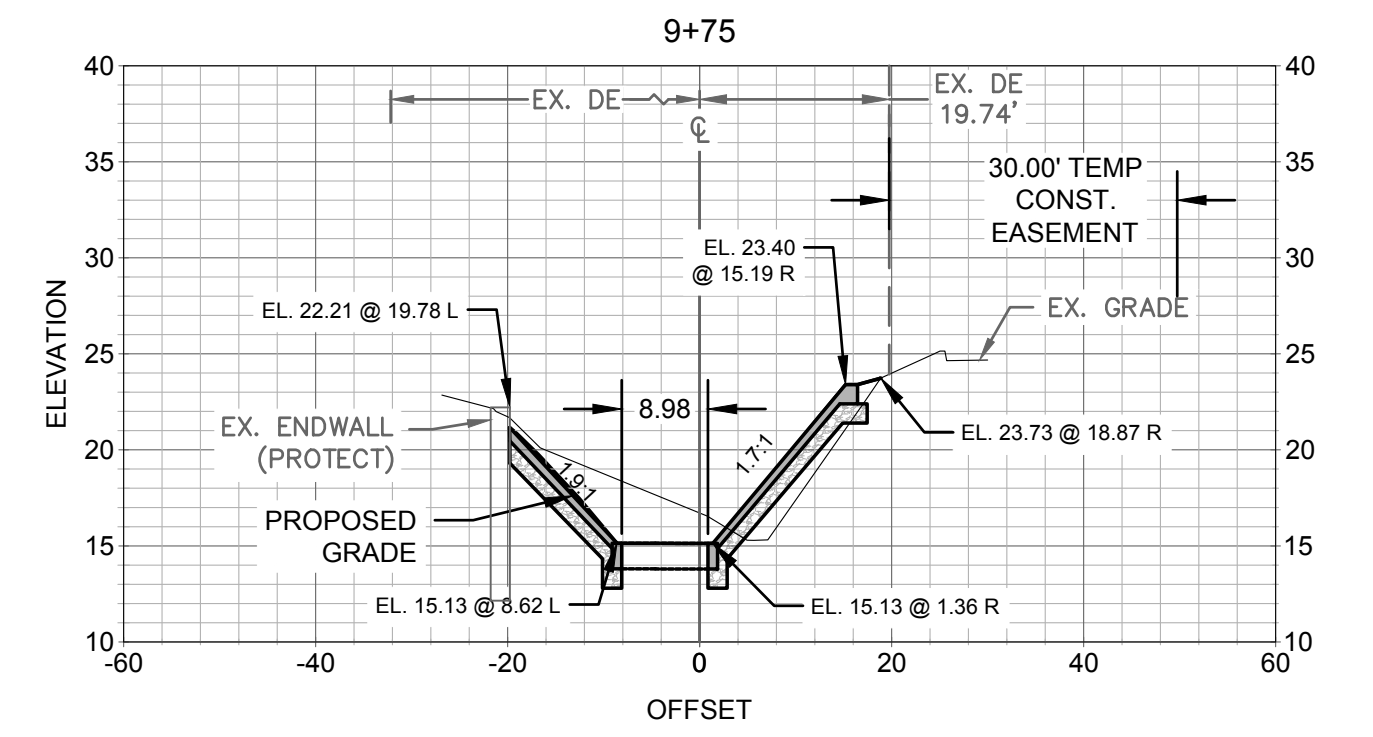
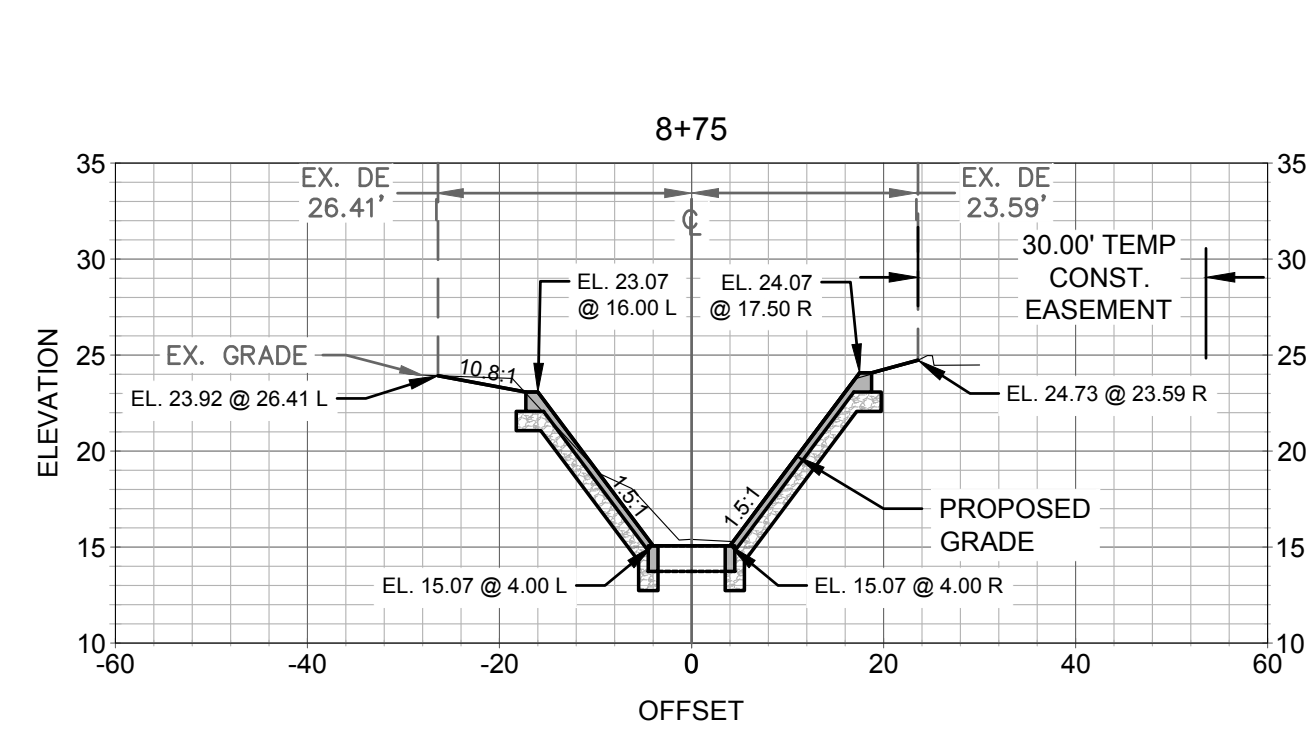
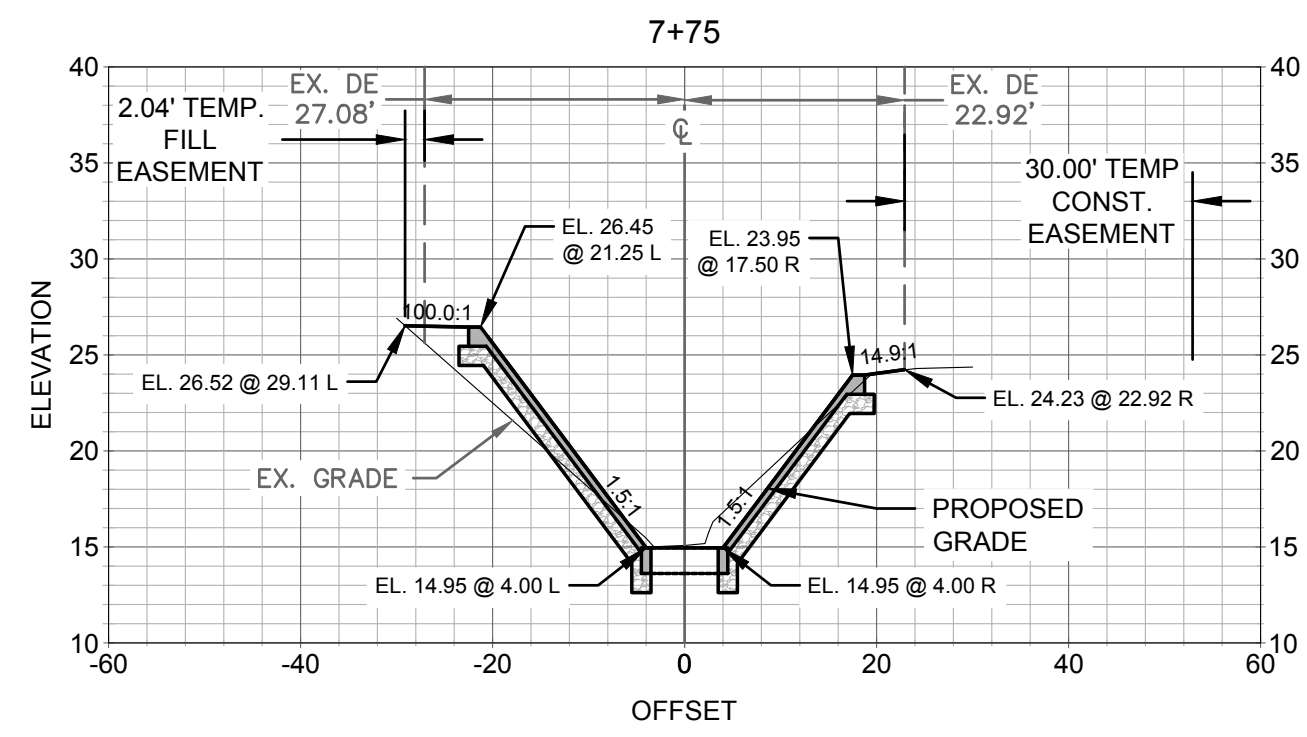
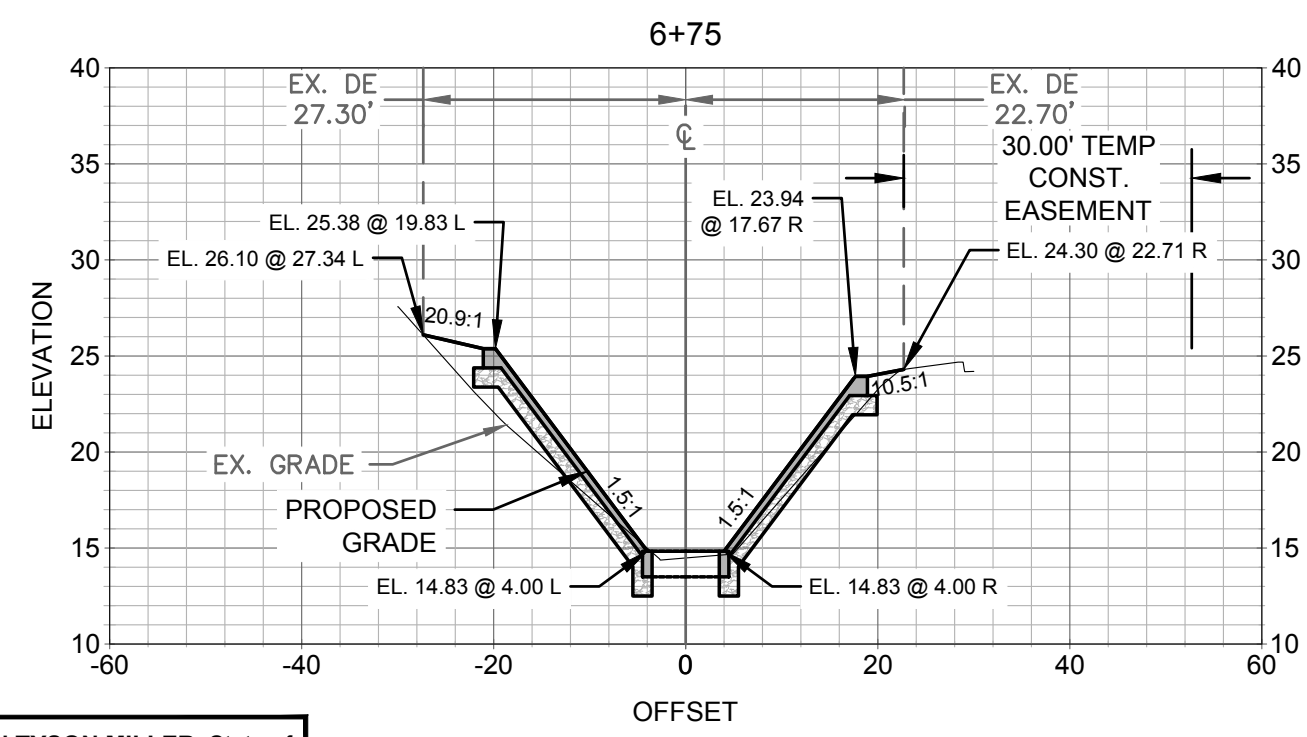
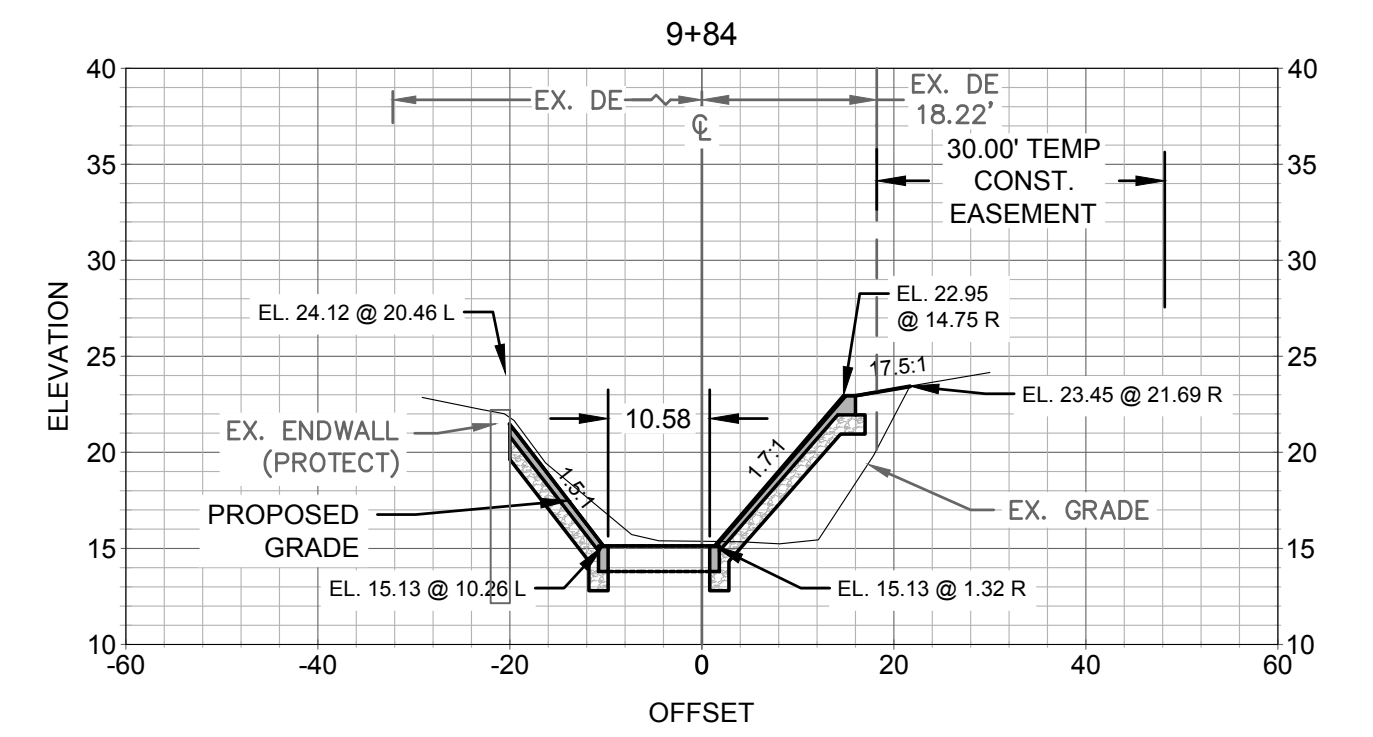
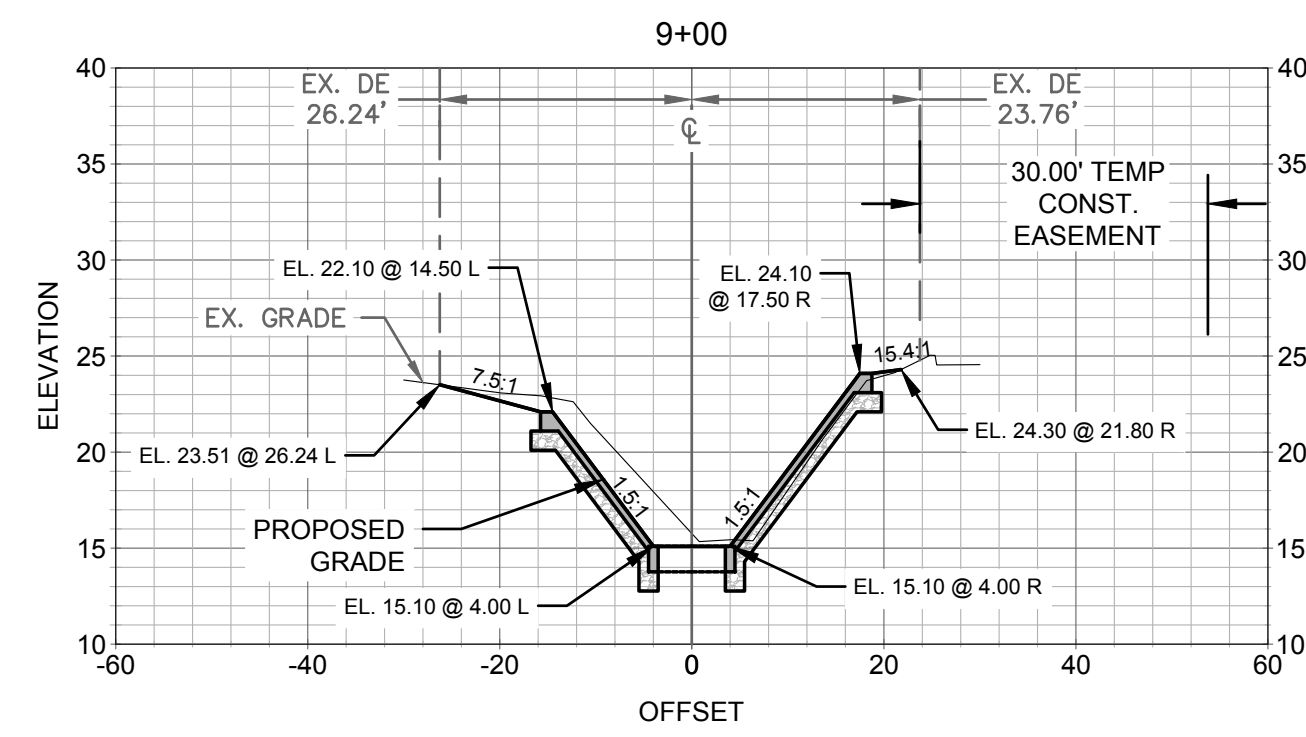
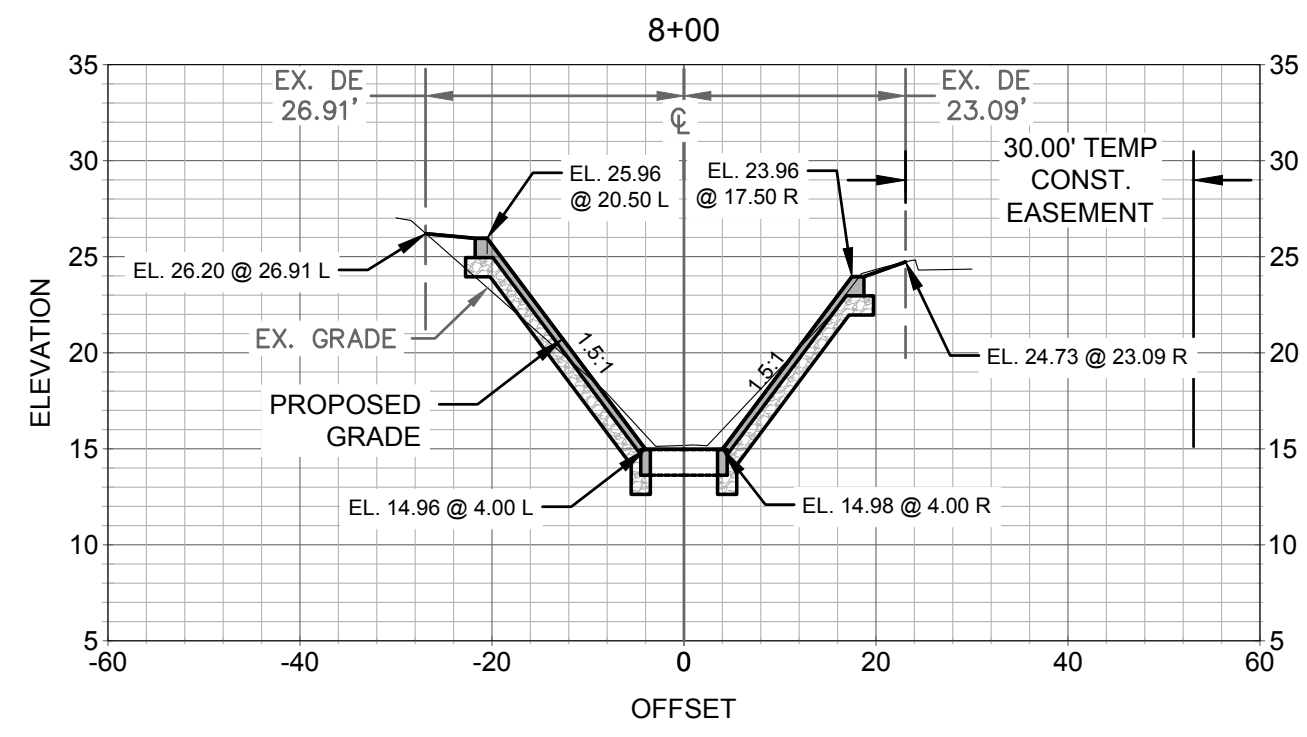
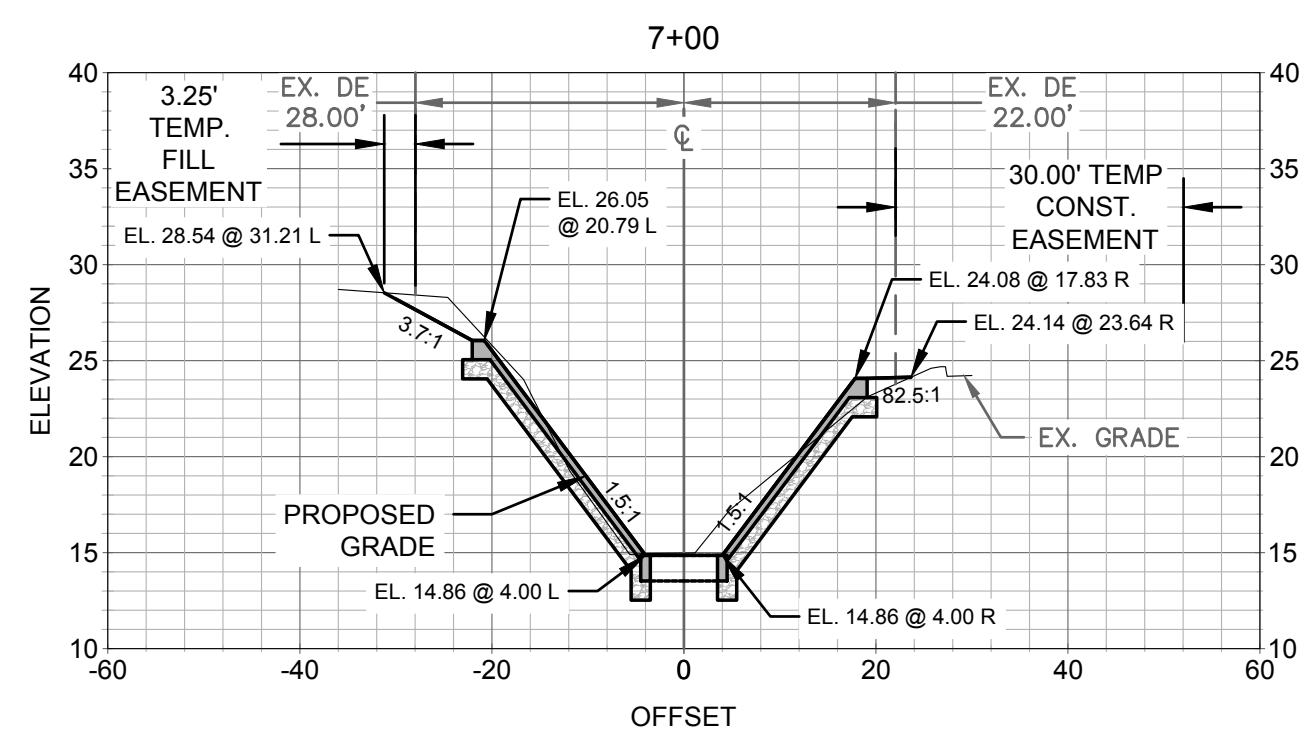
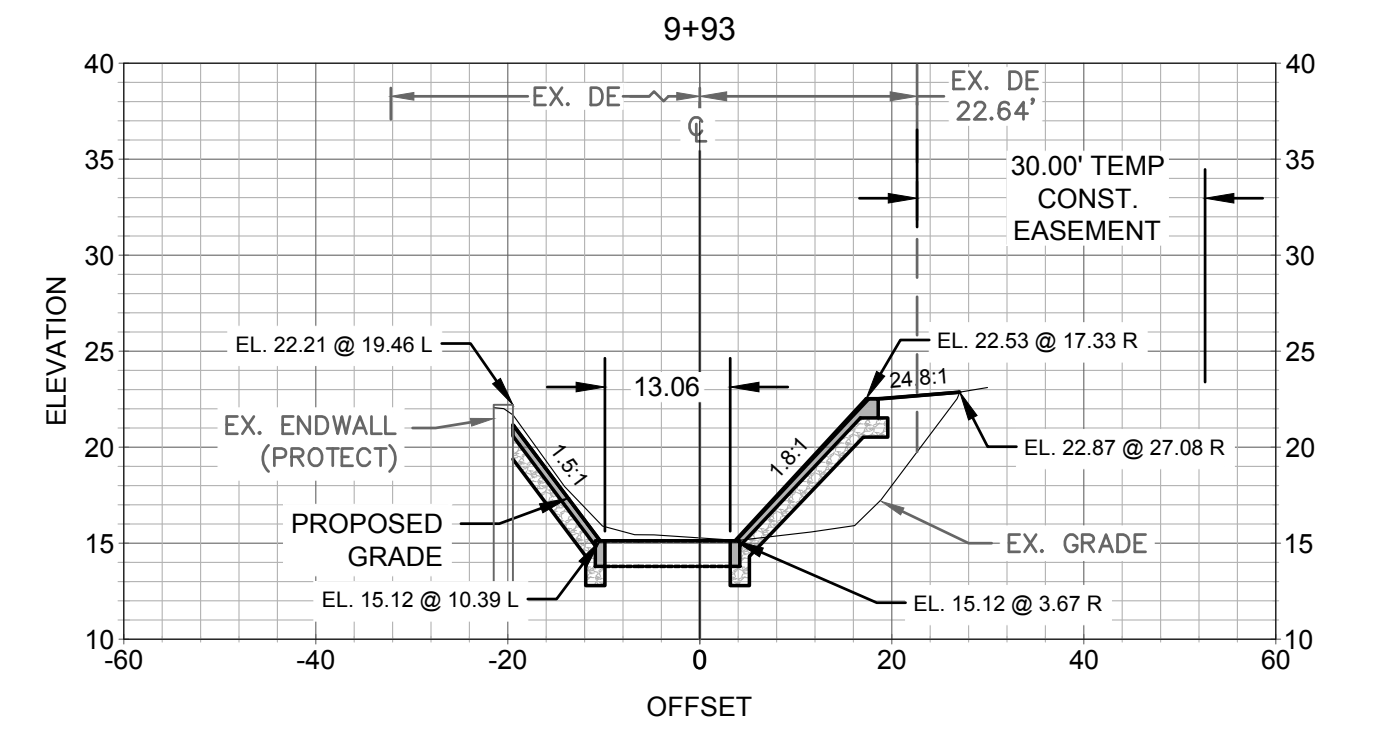
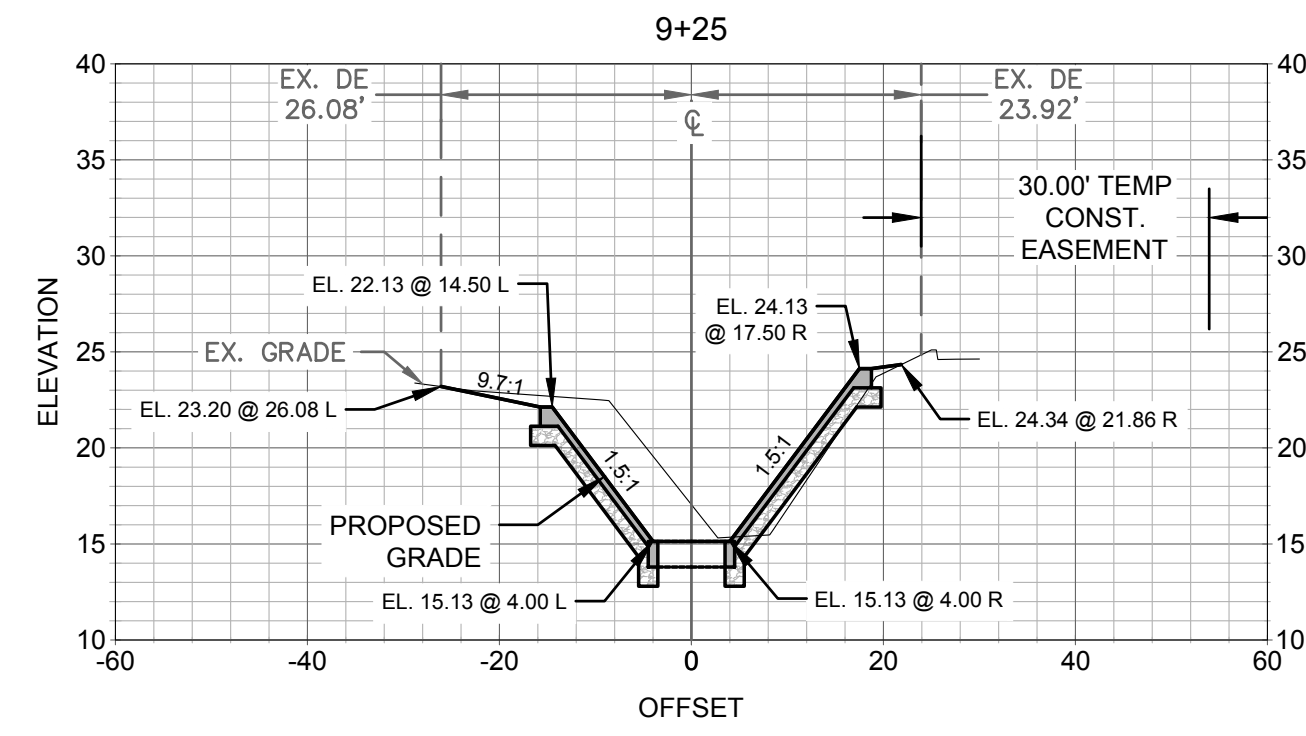
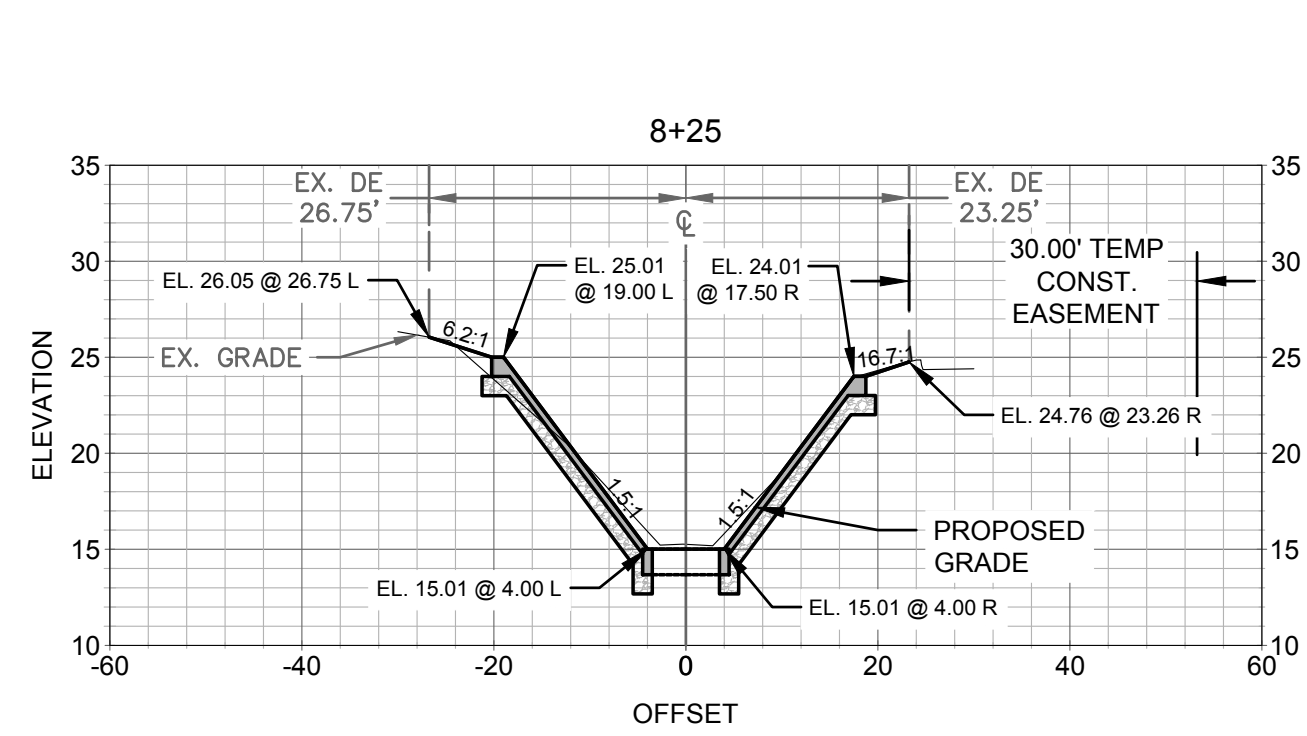
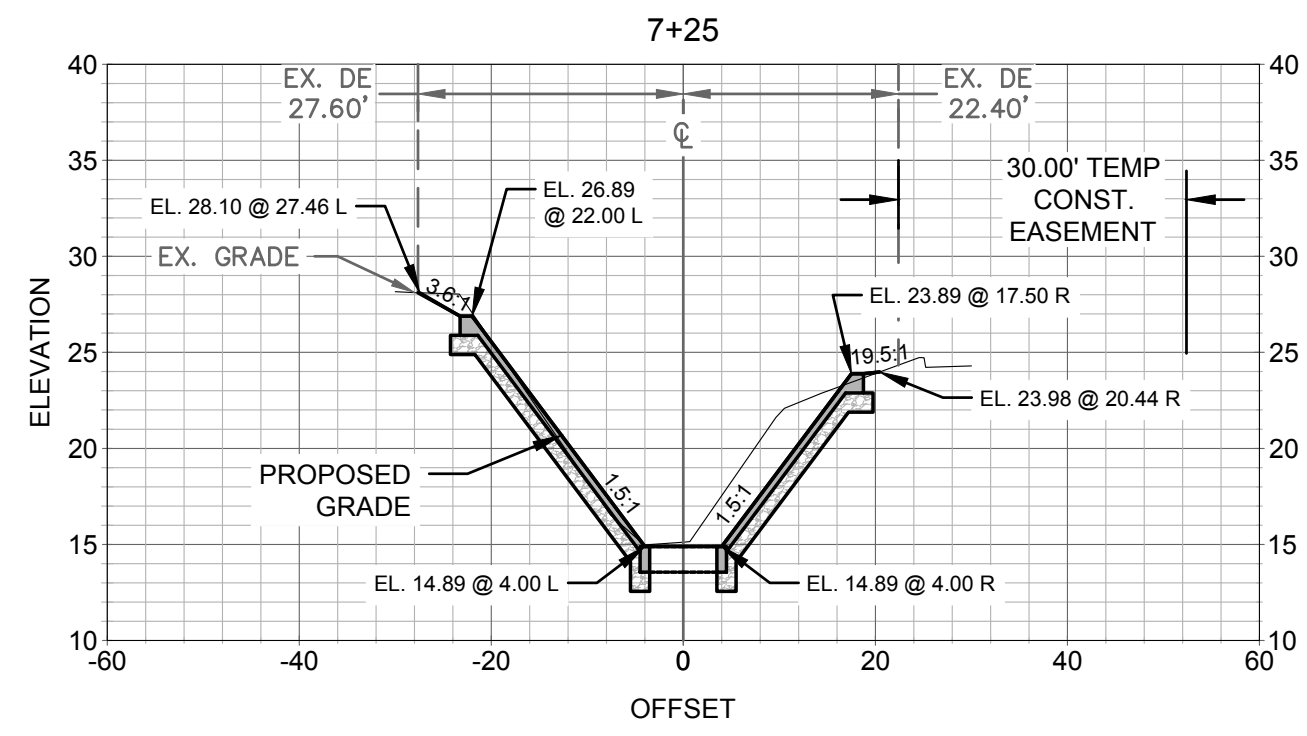
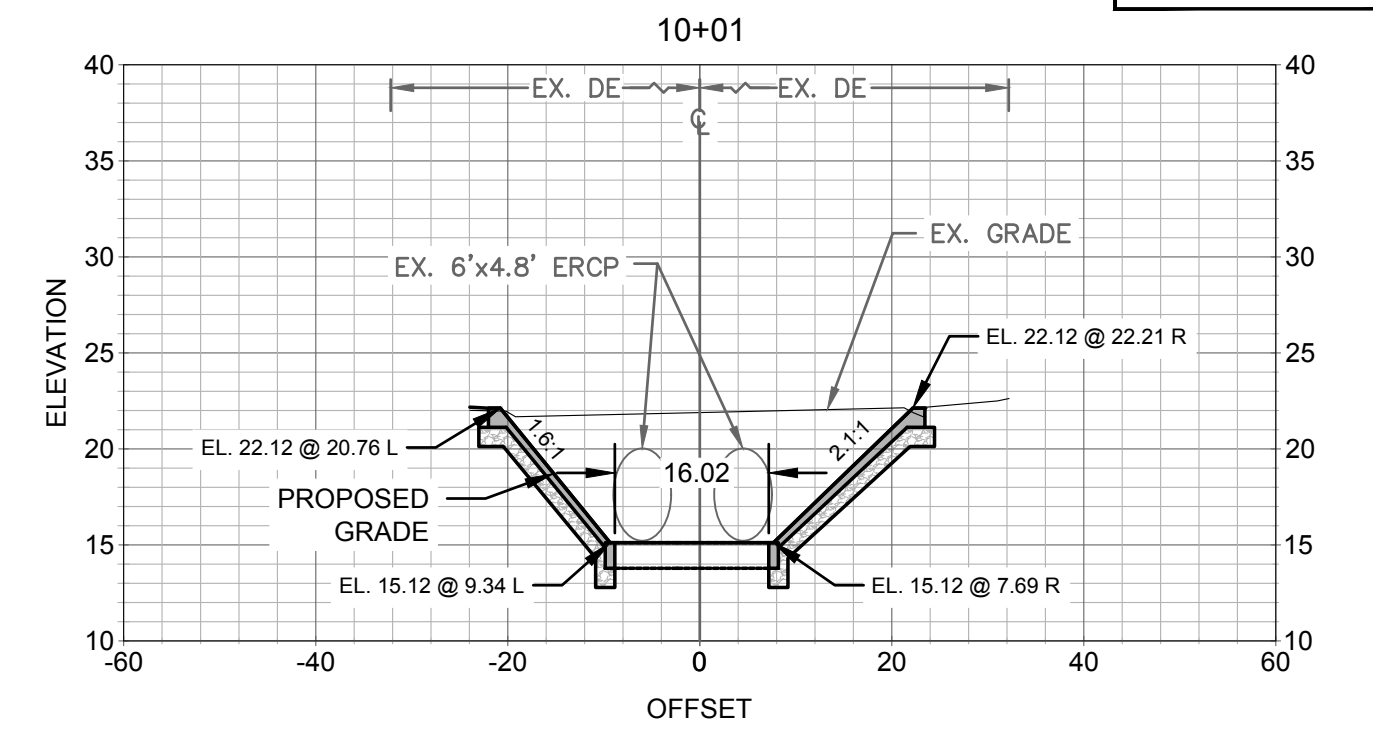
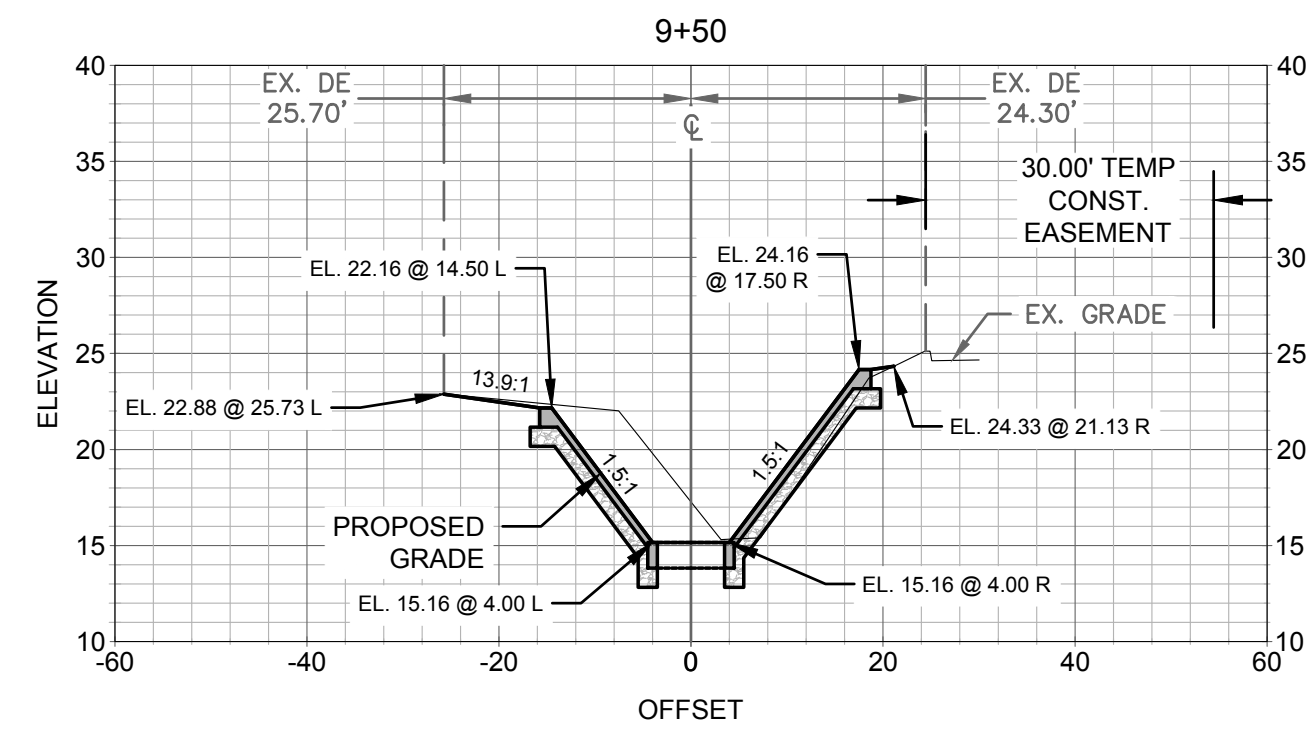
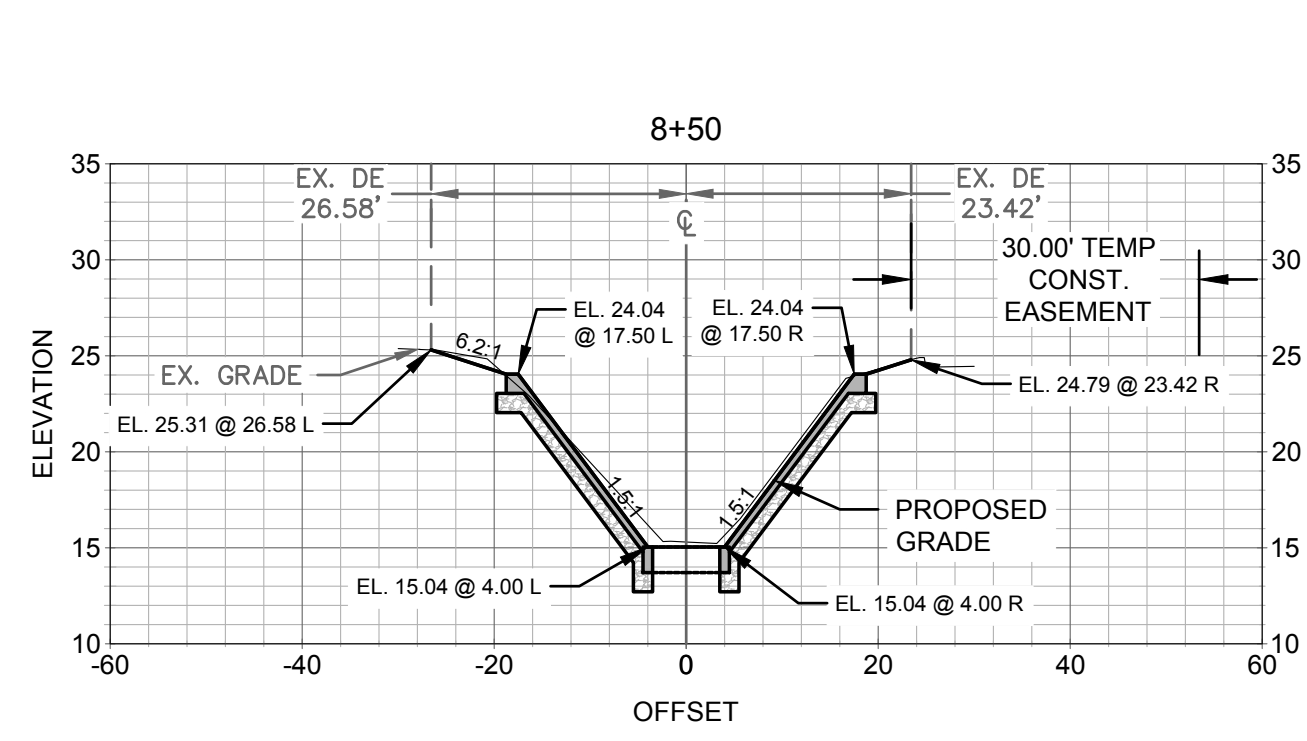
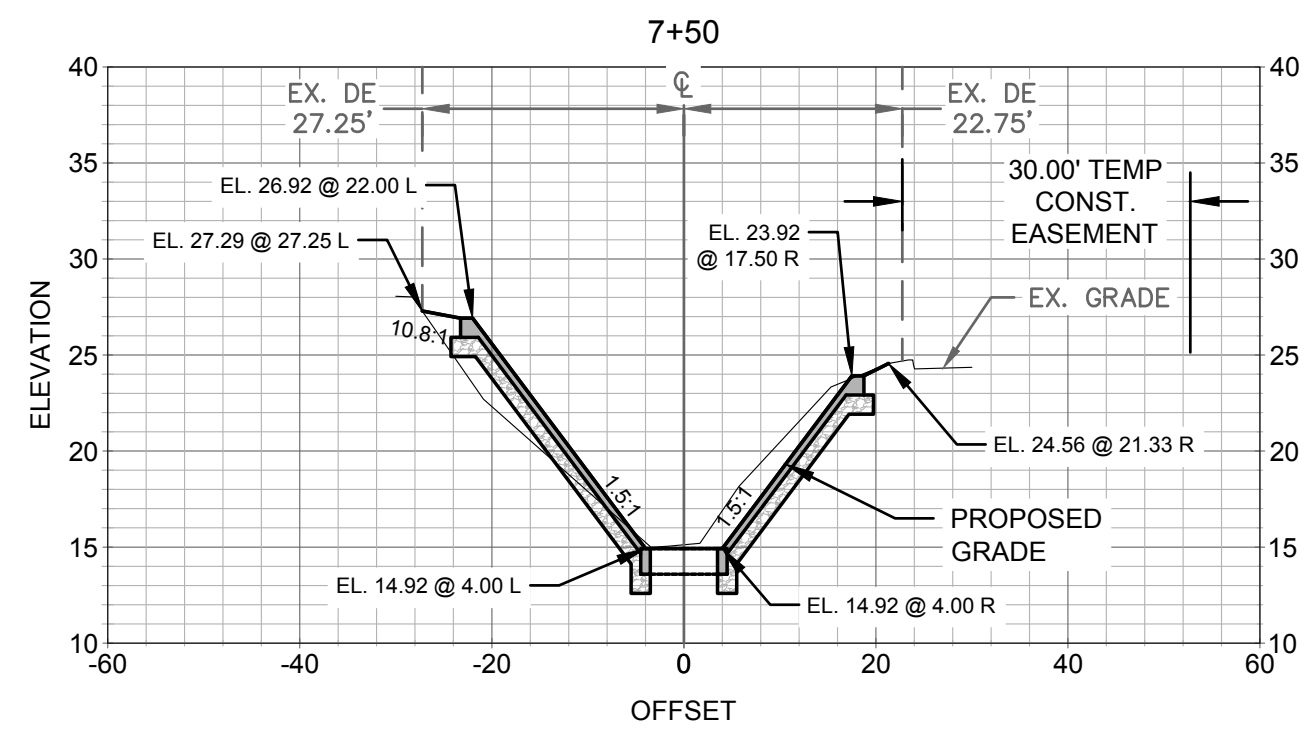
No.	DATE	REVISIONS	No.	DATE	REVISIONS

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 DRN: RTV
 CKD: TLW
 DATE: 01/18/23

CITY of TAMPA
 Mobility Department
 Stormwater Engineering Division

43RD STREET DRAINAGE IMPROVEMENTS
 CROSS SECTIONS

SHEET
12
 OF 22



1:02848040-ENG-00-DRAWINGS-CIVIL-SCALE: 1"=10' TO 1"=20' CROSS SECTIONS 02/24/2024 8:09 AM 2/20/2024 8:47 AM COLIN MILLER

COLIN TYSON MILLER, State of Florida, Professional Engineer, License No. 61775
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HORZ. SCALE: 1"=20'
 VERT. SCALE: 1"=10'



No.	DATE	REVISIONS	No.	DATE	REVISIONS

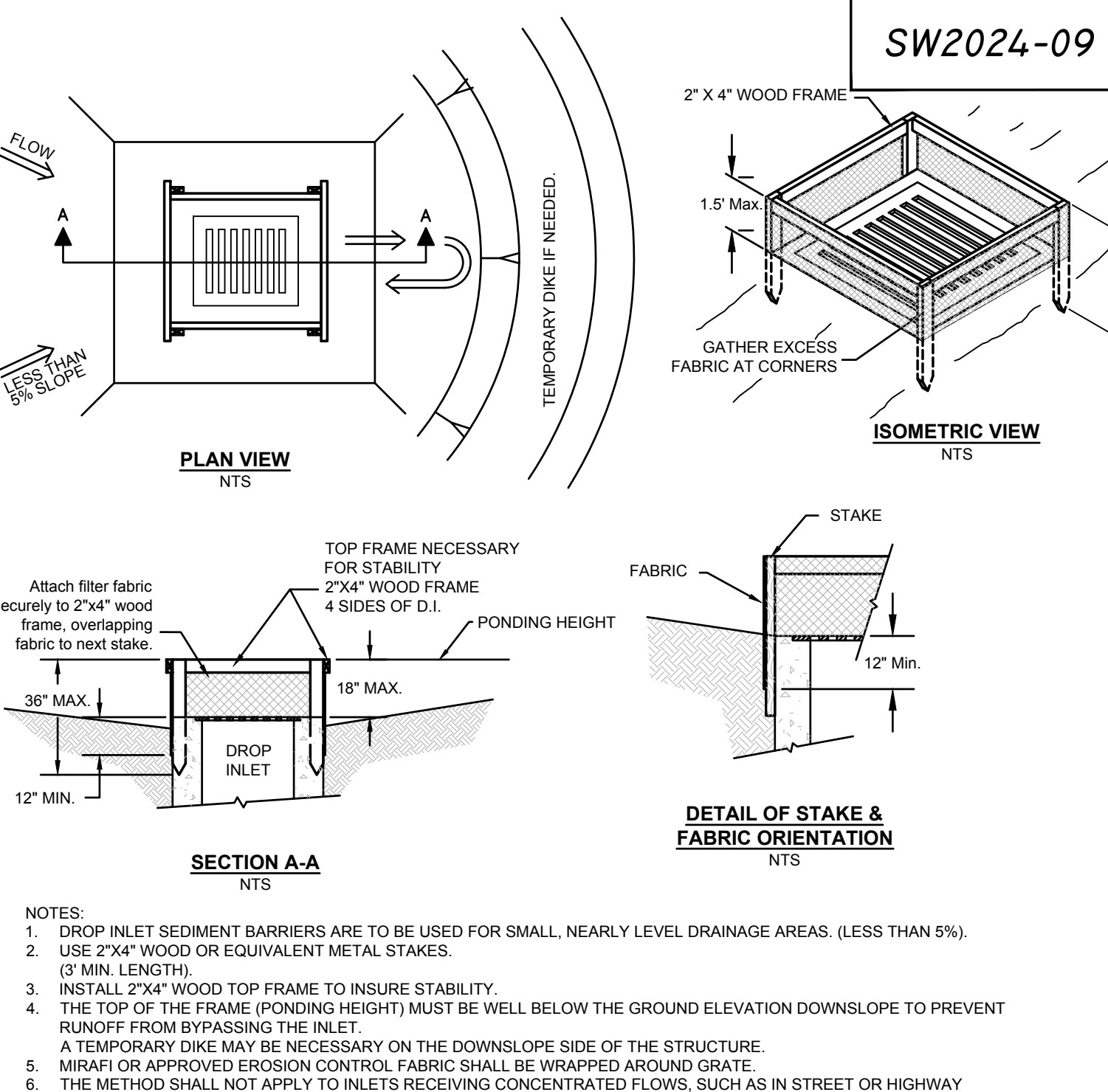
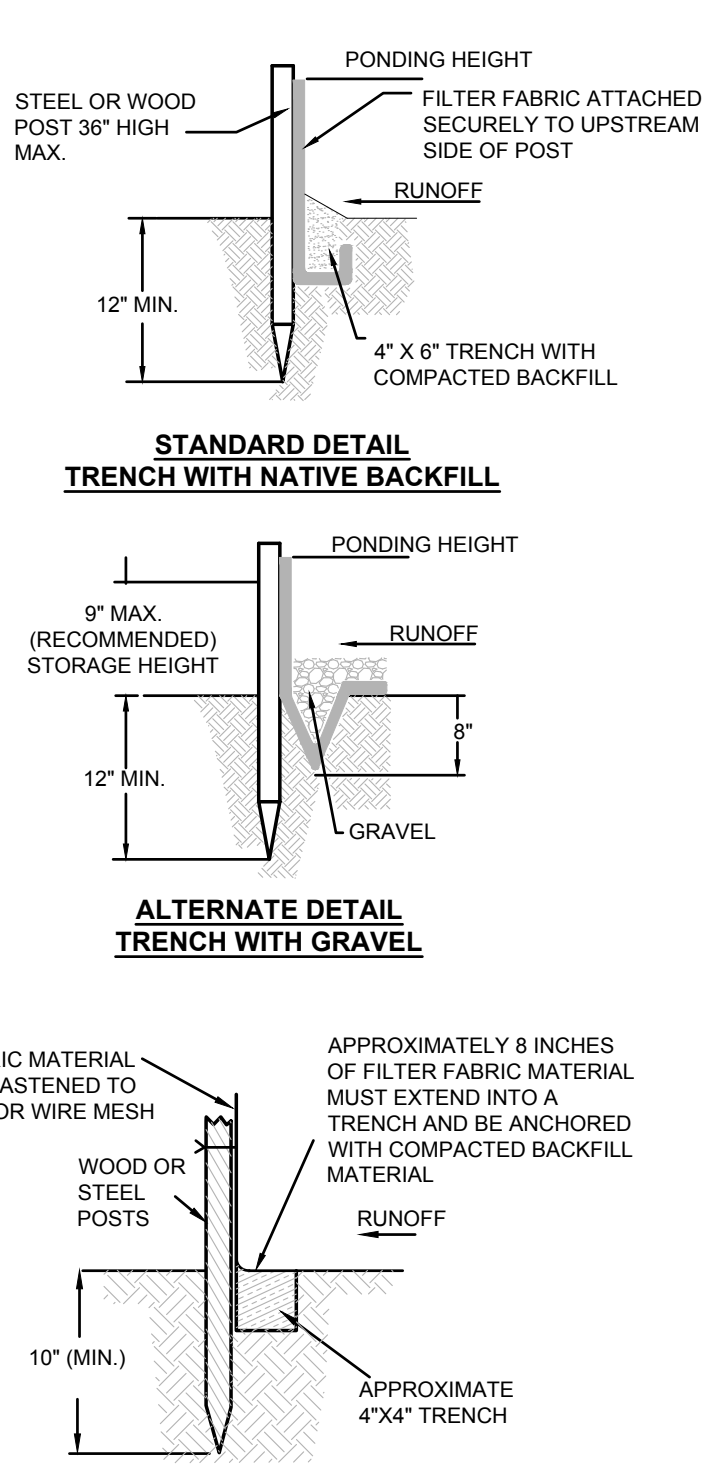
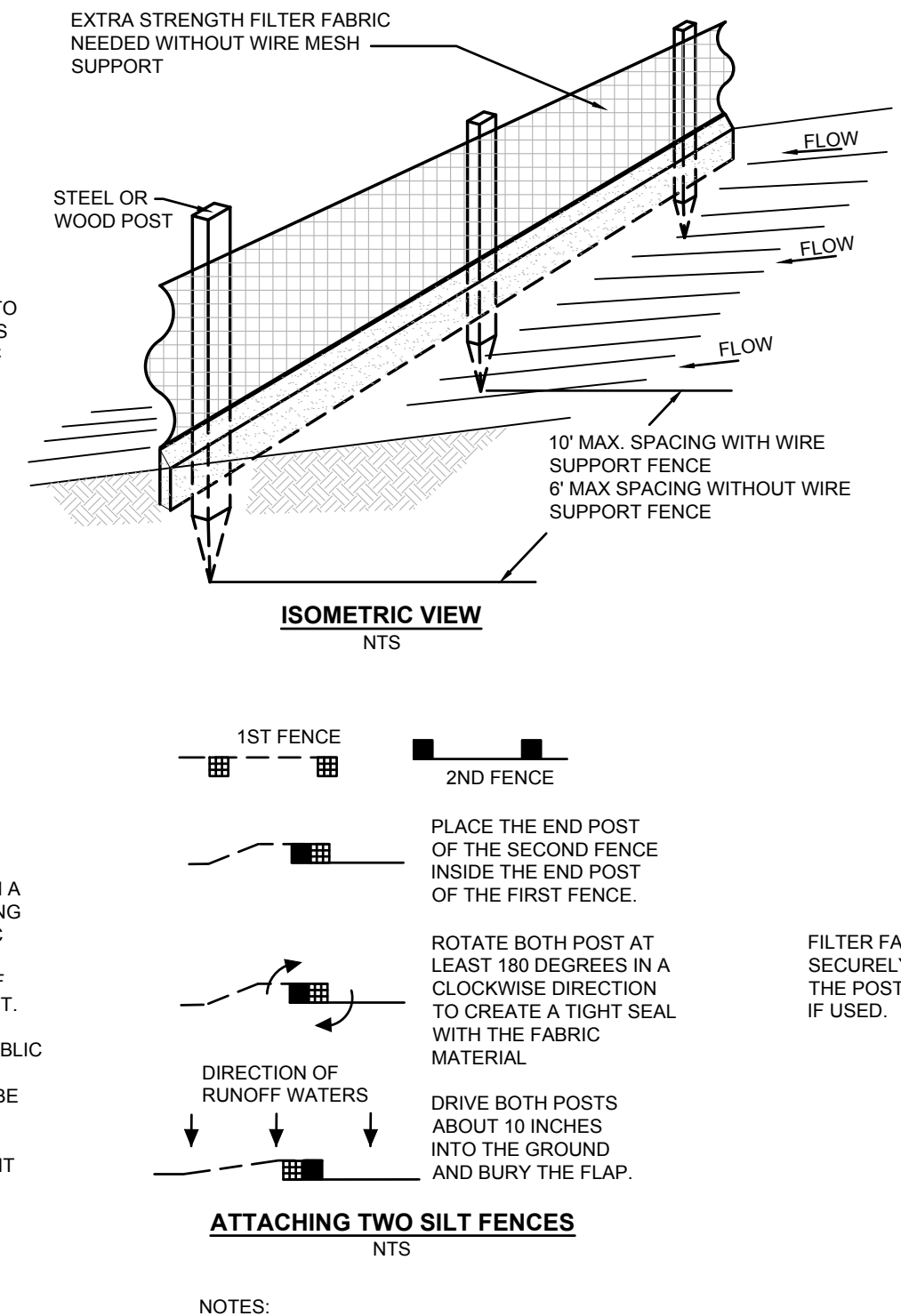
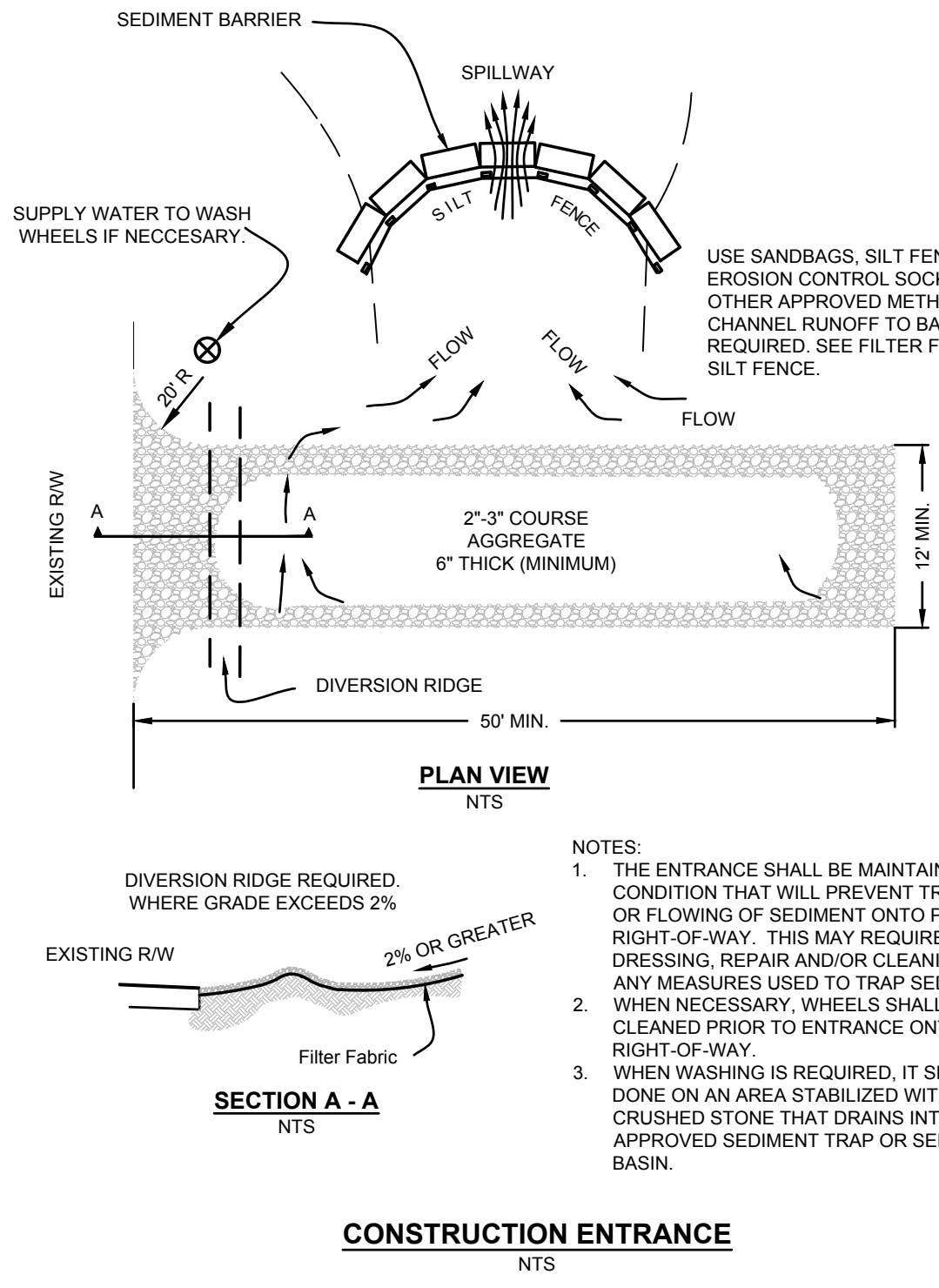
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CITY of TAMPA
 Mobility Department
 Stormwater Engineering Division

43RD STREET DRAINAGE IMPROVEMENTS
 CROSS SECTIONS

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

- THE FOLLOWING IS PROVIDED FOR PERMIT REVIEW AND WILL NEED TO BE ADJUSTED BY THE CONTRACTOR FOR PROPOSED CONSTRUCTION METHODS AND PHASING. THIS SWPPP IS FOR GENERAL INFORMATION ONLY.
- CONSTRUCTION ACTIVITIES WHICH DISTURB EXISTING GROUND COVER WILL REQUIRE APPROPRIATE EROSION AND SEDIMENTATION CONTROL (E&SC) MEASURES. CONSTRUCTION ACTIVITIES WHICH MAY CAUSE SURFACE AND AIRBORNE DISCHARGES OF SEDIMENT ARE, BUT NOT LIMITED TO: CLEARING, CRUBBING, EXCAVATION, BACKFILLING, GRADING, AND INSTALLATION OF INFRASTRUCTURE. THE CONTRACTOR SHOULD ONLY EXPOSE (DENUDE) THE SMALLEST AREA NECESSARY TO COMPLETE A CONSTRUCTION ACTIVITY. THE CONTRACTOR MUST STABILIZE EXPOSED SOIL AS SOON AS POSSIBLE OR NO LATER THAN 14 DAYS AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.
- ALL E&SC MEASURES AND DEVICES SHOULD BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, JULY 2013, FLORIDA DEPARTMENTS OF TRANSPORTATION AND ENVIRONMENTAL PROTECTION.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL IMPACTS OF EROSION AND SEDIMENTS DURING CONSTRUCTION. THIS INCLUDES BUT IS NOT LIMITED TO: FINES, COST OF REPAIR, MITIGATION, LEGAL COSTS, AND LEGAL SETTLEMENTS.
- CONTRACTOR SHALL MAINTAIN CURRENT E&SC PLANS, BASED ON CONSTRUCTION METHODS, PHASE, AND OPERATIONS. THE CONTRACTOR SHALL MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD THE WEEKLY RAINFALL. THE CONTRACTOR SHALL INSPECT AND MAINTAIN ALL ACTIVE E&SC DEVICES WEEKLY OR WITHIN 24 HOURS OF A STORM EVENT THAT IS 0.5-INCHES OR GREATER. THE CONTRACTOR SHALL PREPARE REPORTS OF ALL INSPECTIONS, REPAIRS, AND MODIFICATIONS. THESE REPORTS WILL BE PROVIDED TO THE PROJECT OWNER AND ALL AUTHORITIES HAVING JURISDICTION AS REQUIRED.
- ADDITIONAL PERMITTING COORDINATION MAY BE REQUIRED FOR CERTAIN ACTIVITIES. DEWATERING ACTIVITIES MAY REQUIRE ADDITIONAL E&SC DEVICES. THE CONTRACTOR SHALL REVIEW THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS FROM AUTHORITIES HAVING JURISDICTION (AHJs), WHICH MAY INCLUDE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND OTHER LOCAL AUTHORITIES.
- THE CONTRACTOR SHALL PROVIDE DETAILED CONSTRUCTION SCHEDULE AND UPDATED E&SC PLAN TO THE OWNER PRIOR TO BEGINNING CONSTRUCTION AND RECONFIGURING E&SC DEVICES, WHICH INDICATES MAJOR ACTIVITIES WHICH MAY EXPOSE SOIL AND WHERE TEMPORARY AND PERMANENT E&SC MEASURES AND DEVICES WILL BE INSTALLED.
- CONSTRUCTION ENTRANCE SHALL BE MAINTAINED TO PREVENT TRACKING SEDIMENT OFFSITE. VEHICLES LEAVING THE PROJECT AREA WITH SOIL MUST HAVE SOIL COVERED WITH TARPULIN. EXCESS SEDIMENT WILL BE REMOVED FROM PUBLIC RIGHT-OF-WAY DAILY.



PROJECT SUMMARY

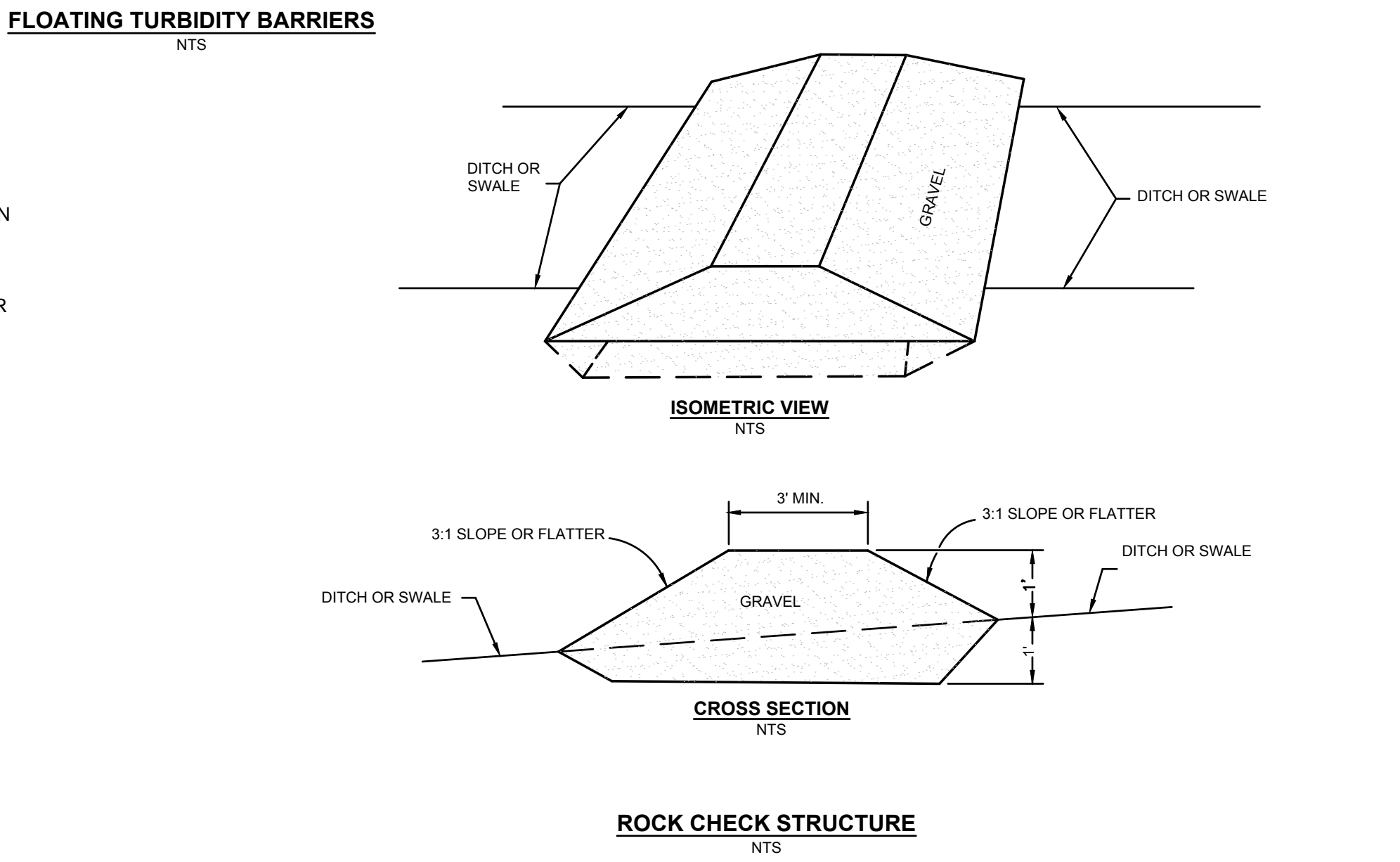
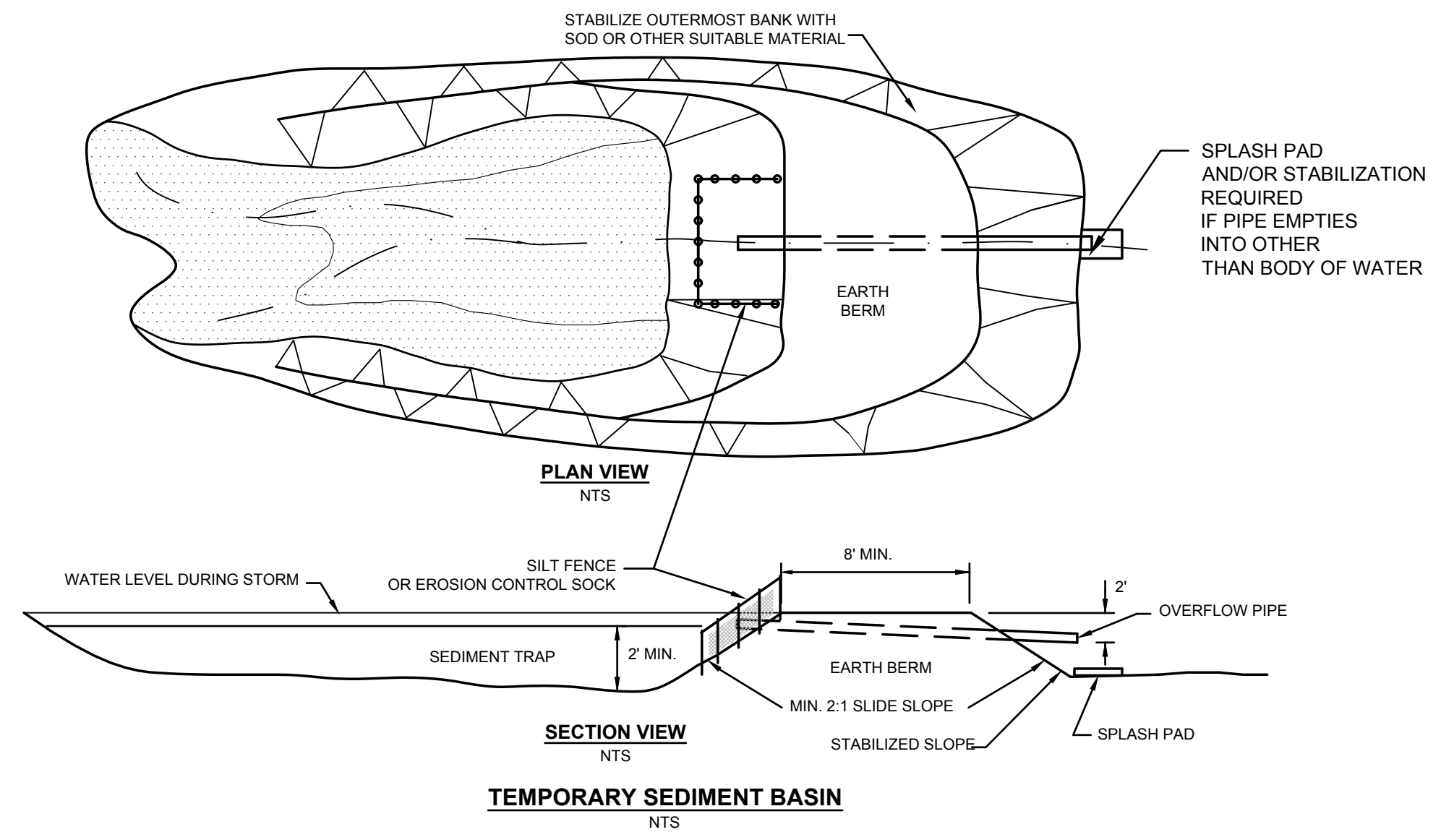
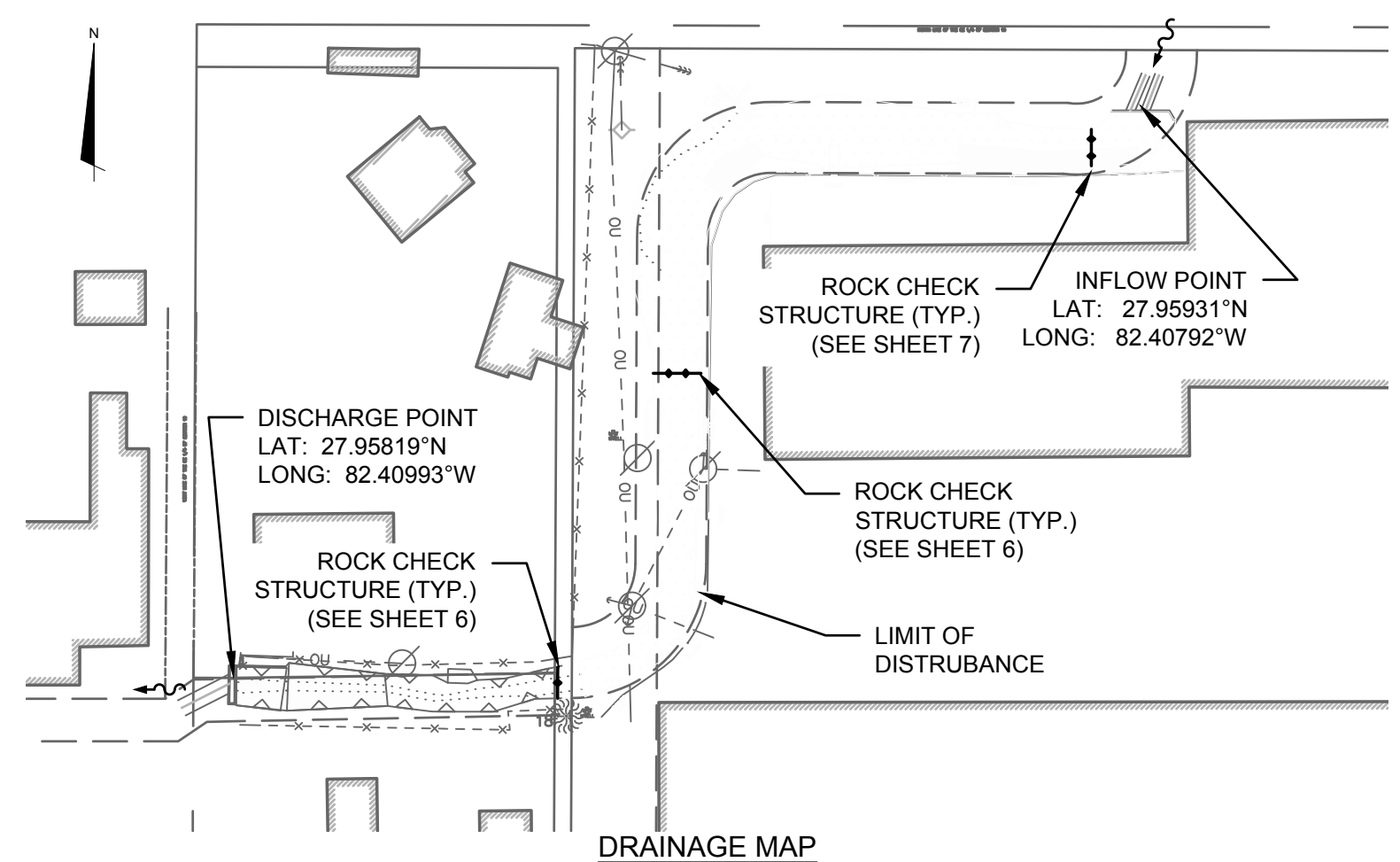
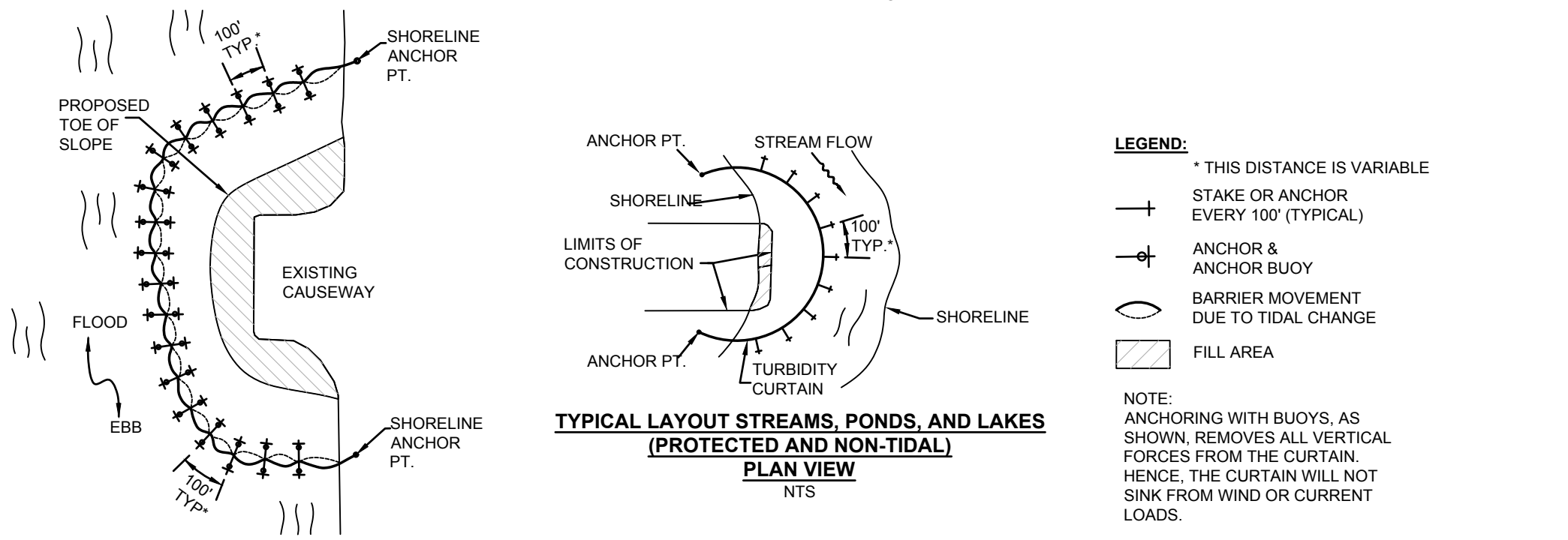
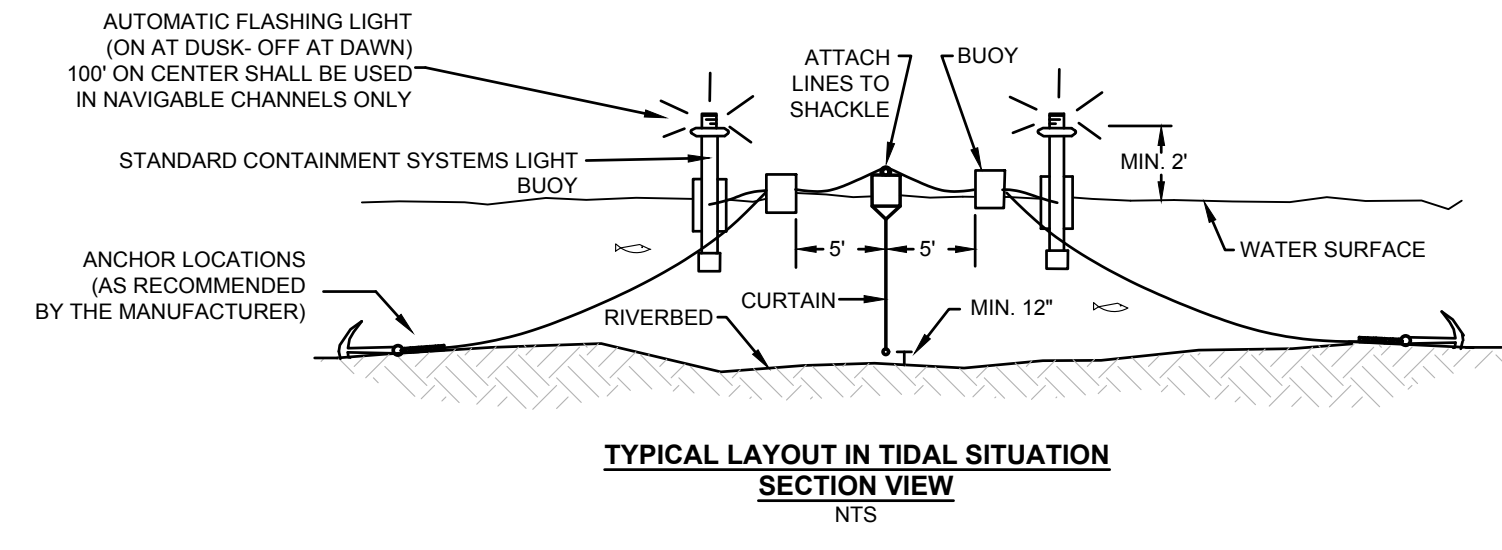
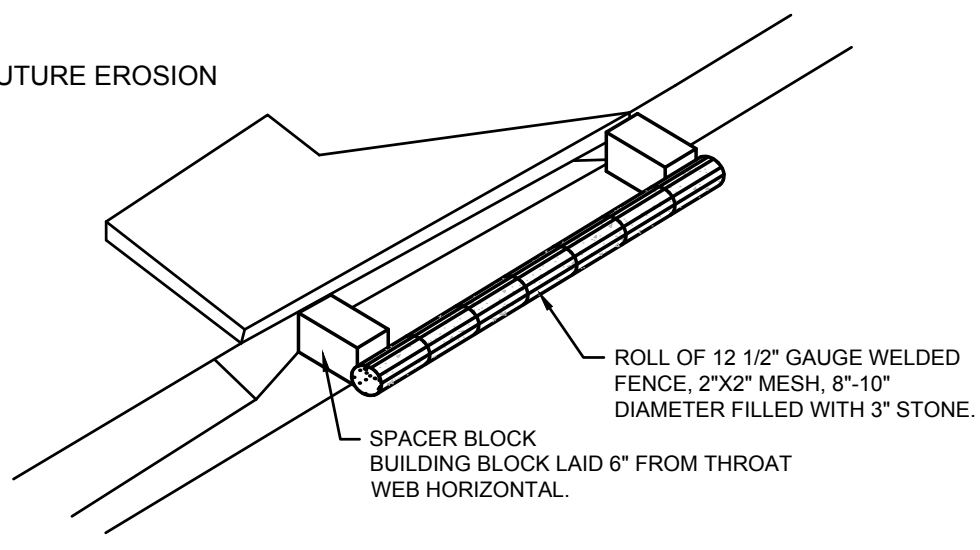
TYPE = CAPITAL IMPROVEMENT (DRAINAGE)
 AREA = ± 0.75 AC
 DISTURBED AREA = ± 0.75 AC
 PHASED PROJECT = NO

PROJECT DESCRIPTION

REHABILITATION OF 43RD STREET DITCH IN ORDER TO STABILIZE DITCH AND MINIMIZE FUTURE EROSION

DRAINAGE SUMMARY

DRAINAGE AREA: N/A
 LOCATION OF DRAINAGE POINTS: INFLOW AND OUTFLOW POINTS DISPLAYED BELOW
 RECEIVING WATER BODIES: DOWNSTREAM UNNAMED WATER BODY
 SOILS
 SEE GEOTECHNICAL REPORT
 SOIL 56, URBAN LAND



COLIN TYSON MILLER, State of Florida, Professional Engineer, License No. 61775

This item has been digitally signed and sealed by COLIN TYSON MILLER on the date indicated here.



No.	DATE	REVISIONS	No.	DATE	REVISIONS	DES:

CITY of TAMPA
 Mobility Department
 Stormwater Engineering Division

43RD STREET DRAINAGE IMPROVEMENTS
 SWPPP DETAILS & NOTES
 SHEET 14 OF 22

1.0 GENERAL

1.1 ALL WORK IS TO BE PERFORMED IN A GOOD, WORKMANLIKE AND PROFESSIONAL MANNER.

1.2 ALL CONSTRUCTION SHALL BE IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE FLORIDA BUILDING CODE, 2020 EDITION, OR LOCAL BUILDING CODE REQUIREMENTS IF MORE STRINGENT.

1.3 THESE DRAWINGS DO NOT SHOW PROVISIONS FOR SAFETY DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE THE REQUIRED BRACING, SHORING, AND SAFETY DEVICES THROUGHOUT THE CONSTRUCTION OF THIS PROJECT.

2.0 COORDINATION

2.1 STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH AND COORDINATED WITH ARCHITECTURAL, CIVIL, ELECTRICAL, HVAC, MECHANICAL & PLUMBING DRAWINGS, INCLUDING VENDOR SUBMITTAL DRAWINGS AND OTHER CONTRACT DOCUMENTS.

2.2 COORDINATE THE EXACT SIZE AND LOCATION OF ALL SLEEVES AND OPENINGS THROUGH WALLS OR CONCRETE SLABS WITH ARCHITECTURAL, CIVIL, ELECTRICAL, HVAC, MECHANICAL & PLUMBING DRAWINGS, INCLUDING VENDOR SUBMITTAL DRAWINGS AND OTHER CONTRACT DOCUMENTS.

2.3 ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE SHOWN ON THESE DRAWINGS ARE TO BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE WORK PROCEEDS, INCLUDING ORDERING AND FABRICATING MATERIALS.

2.4 INDEPENDENT TESTING OF MATERIALS SHALL BE PROVIDED AS DEFINED IN PROJECT SPECIFICATIONS. IN GENERAL PROJECT INVOLVES THE FOLLOWING:

- A. SOIL/FILL COMPACTION & BEARING.
- B. C.I.P. CONCRETE.

2.5 IF COORDINATION OF INFORMATION PRESENTED CONFLICTS w/ THE PROJECT SPECIFICATIONS, THE SPECIFICATIONS WILL TAKE PRECEDENCE.

2.6 IN GENERAL CALL-OUTS ARE FOR NEW CONSTRUCTION U.N.O.. EXISTING CONSTRUCTION CALL-OUTS AND DIMENSIONS OF EXISTING STRUCTURES ARE BASED ON EXISTING RECORD DRAWINGS PROVIDED TO MCKIM & CREED. EXISTING ELEVATIONS ARE BASED ON SURVEY DATA AND EXISTING RECORD DRAWINGS PROVIDED TO MCKIM & CREED. THE (*) SYMBOL ON INDIVIDUAL FACILITY "STRUCTURAL" DRAWINGS INDICATES EXISTING CONSTRUCTION CALL-OUTS, CONDITIONS, ELEVATIONS AND DIMENSIONS TO BE FIELD VERIFIED BY THE GENERAL CONTRACTOR U.N.O. PRIOR TO CONSTRUCTION, INCLUDING ORDERING AND FABRICATING MATERIALS. RECORD DRAWINGS PROVIDED BY CITY OF TAMPA UTILIZED INCLUDES:

- A. NONE.

2.7 SPECIAL INSPECTIONS (IF APPLICABLE); ALL FOUNDATION SOILS, REINF. STEEL, C.I.P. CONCRETE & STRUCTURAL STEEL WORK SHALL BE REVIEWED AS STATED IN CONJUNCTION w/ THEIR RESPECTIVE NOTES BELOW.

3.0 FOUNDATIONS

3.1 SHALLOW FOUNDATION CRITERIA: DESIGN ALLOWABLE SOIL BEARING PRESSURE - IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT AS PREPARED BY MADRID CPWG (PROJECT NO. 12883.8, DTD. JUNE 16, 2023). SHALLOW FOUNDATIONS HAVE BEEN PROPORTIONED FOR A MINIMUM ALLOWABLE BEARING CAPACITY OF 2,000 PSF. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THIS VALUE PRIOR TO FOUNDATION CONSTRUCTION. IN AREAS WHERE THE SOIL DOES NOT YIELD THIS BEARING STRESS VALUE, ADJUSTMENT IN THE FOOTING DEPTHS AND FOUNDATION DIMENSION MAY BE MADE BY THE ENGINEER BEFORE WORK PROCEEDS. CONTRACTOR IS RESPONSIBLE FOR PERFORMING ANY SUCH ADJUSTMENTS.

3.2 PREPARE THE EXISTING SUBGRADE IN ACCORDANCE w/ THE PROJECT GEOTECHNICAL REPORT AS PREPARED BY MADRID CPWG (PROJECT NO. 12883.8, DTD. JUNE 16, 2023). IN THE EVENT UNUSUAL SOIL CONDITIONS ARE UNCOVERED, INCLUDING CONDITIONS THAT DEVIATE FROM THOSE DESCRIBED IN THE PROJECT GEOTECHNICAL REPORT, NOTIFY THE OWNER AND ENGINEER PRIOR TO FOUNDATION CONSTRUCTION FOR INSTRUCTIONS HOW TO PROCEED. ADJUSTMENT IN THE FOOTING DEPTHS AND GENERAL FOUNDATION CONSTRUCTION MAY BE MADE BY THE ENGINEER BEFORE WORK PROCEEDS. CONTRACTOR IS RESPONSIBLE FOR PERFORMING ANY SUCH ADJUSTMENTS.

3.3 FOOTING & BASE SLAB EXCAVATIONS AND FORMS SHALL BE REVIEWED BY AN OWNER'S

CONSTRUCTION REPRESENTATIVE PRIOR TO PLACEMENT OF CONCRETE.

3.4 FOOTING & BASE SLAB ELEVATIONS SHALL NOT BE RAISED OR LOWERED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.

3.5 ALL EXCAVATIONS SHALL BE ADEQUATELY DEWATERED BEFORE PLACEMENT OF CONCRETE. NO CONCRETE OR CONCRETE FILL SHALL BE PLACED IN STANDING WATER. ACCUMULATION EXCEEDING 1 INCH SHALL BE PUMPED OUT.

3.6 ALL FILL BELOW FOUNDATION'S SHALL BE SELECT MATERIAL FREE FROM ROOTS, TRASH WOOD SCRAPS, AND OTHER EXTRANEIOUS MATERIALS. PLACE FILL IN LIFTS NOT EXCEEDING THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL REPORT AS PREPARED BY MADRID CPWG (PROJECT NO. 12883.7, DTD. MAY 5, 2021).

3.7 ALL FOOTINGS SHALL BE CENTERED UNDER THE SUPPORTED WALL/COLUMN MEMBER UNLESS NOTED OTHERWISE.

3.8 CONSTRUCTION JOINTS IN FOUNDATION SLABS, WALLS, FOOTINGS SHALL BE MADE AT LOCATIONS SHOWN ON DRAWINGS.

3.9 ANCHOR BOLTS SHALL BE SET BY MEANS OF TEMPLATE. "FLOATING" ANCHOR BOLTS INTO PLACE IS PROHIBITED.

3.10 CONTRACTOR IS TO VERIFY THE ELEVATION AND LOCATION OF ALL EXISTING AND PROPOSED UTILITIES PRIOR TO CONSTRUCTION. ANY "KNOWN" UTILITY LINES DAMAGED WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE. IF ANY "UNKNOWN" UTILITY LINES ARE ENCOUNTERED WHEN EXCAVATING THE CONTRACTOR IS TO CEASE ALL EXCAVATION ACTIVITY UNTIL THE ENGINEER AND OWNER ARE NOTIFIED AND INSTRUCTIONS ARE PROVIDED ABOUT HOW TO PROCEED.

3.11 THE CONTRACTOR SHALL OBTAIN THE OWNER'S PERMISSION BEFORE ENCASING OR BACK FILLING AROUND ANY EXISTING UNDERGROUND STRUCTURE, PIPING, ELECTRICAL, OR OTHER UNDERGROUND WORK.

4.0 REINFORCING STEEL

4.1 BARS SHALL BE ROLLED FROM NEW BILLET-STEEL OF DOMESTIC MANUFACTURE CONFORMING TO "STANDARD SPECIFICATION FOR DEFORMED AND PLAIN BILLET STEEL BARS FOR CONC. REINFORCEMENT," ASTM A615, GRADE 60.

4.2 DETAIL AND FABRICATE REINFORCING STEEL IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE "ACI DETAILING MANUAL," LATEST PUBLICATION.

4.3 REINFORCING STEEL IN PLACE SHALL BE REVIEWED BY THE OWNER'S CONSTRUCTION REPRESENTATIVE PRIOR TO PLACEMENT OF CONCRETE.

4.4 WELDED WIRE FABRIC SHALL CONFORM TO "STANDARD SPECIFICATION FOR WELDED STEEL WIRE FABRIC FOR CONCRETE REINFORCEMENT," ASTM A1064.

4.5 PLACE WELDED WIRE FABRIC AT CENTER OF SLABS-ON-GRADE AND ELEVATED SLAB TOPPINGS OVER METAL DECK, UNLESS NOTED OTHERWISE.

4.6 PROVIDE BARS AT CORNERS AND INTERSECTIONS OF WALLS & FOOTINGS OF THE SAME NUMBER AND SIZE AS LONGITUDINAL BARS, U.N.O. ON THE DRAWINGS.

4.7 FABRICATE CONTINUOUS BARS IN WALLS, SLABS & FOOTINGS TO THE LONGEST PRACTICABLE LENGTHS.

4.8 REINFORCING STEEL SHALL NOT BE BENT AFTER BEING PARTIALLY EMBEDDED IN HARDENED CONCRETE.

4.9 BARS SHALL BE COLD BENT AND SHALL NOT BE HEATED FOR ANY REASON.

4.10 REINFORCING BARS SHALL NOT BE WELDED U.N.O. ON THE DRAWINGS.

4.11 REFERENCE DRAWINGS FOR REQUIREMENTS FOR LAP SPLICING REINFORCING STEEL IN CONCRETE. ALL "LCS" SHALL CONFORM TO CLASS B SPLICE CRITERIA & IT IS ACCEPTABLE TO LAP SPLICE NON "LCS" A MINIMUM 50 BAR DIAMETERS, UNLESS NOTED OTHERWISE.

4.12 LAP SPLICED BARS IN CONCRETE ARE TO BE WIRE TIED.

5.0 CONCRETE

5.1 IN GENERAL CONCRETE SHALL DEVELOP 4,000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS. REFERENCE "DESIGN CRITERIA" THIS DWG. & PROJECT SPECIFICATIONS, FOR APPLICATION & SPECIFIC CONCRETE MIX DESIGN REQUIREMENTS.

5.2 CONCRETE WORK SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318 & TO "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES", ACI 350 (LATEST EDITIONS).

5.3 PLACE 1/2 INCH EXPANSION JOINT MATERIAL BETWEEN EDGES OF SLABS AND VERTICAL SURFACES UNLESS NOTED OTHERWISE. PRE-MOULDED EXPANSION JOINTS SHALL BE OF NON-EXTRUDING, RESILIENT, NON-BITUMINOUS MATERIAL.

5.4 PROVIDE CONSTRUCTION OR CONTROL JOINTS IN SLABS & WALLS AT LOCATIONS SHOWN ON DRAWINGS, AT OFFSETS AND CHANGES IN DIRECTION AND AT FIFTEEN (15) FEET MAXIMUM U.N.O.. GENERAL CONTRACTOR TO PROVIDE CONSTRUCTION JOINT LAYOUT PLAN PER THE PROJECT SPECIFICATIONS PRIOR TO CONSTRUCTION, INCLUDING ORDERING & FABRICATING MATERIALS.

5.5 CHAMFER EXPOSED EDGES OF CONCRETE 3/4 INCH, UNLESS NOTED OTHERWISE.

5.6 CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER CURING OF ALL CONCRETE. CONCRETE SHALL ADHERE TO "WET" CURING METHODS & SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318, "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES" ACI 350 AND "STANDARD PRACTICE FOR CURING CONCRETE," ACI 308, LATEST EDITIONS. MAINTAIN WATER COVERAGE OVER CONCRETE SURFACES FOR A PERIOD OF FOUR (4) DAYS MINIMUM.

5.7 UNLESS NOTED OTHERWISE DOWELS SHALL BE THE SAME NUMBER AND SIZE AS THE LARGEST VERTICAL BAR TO WHICH THEY ARE SPLICED.

5.8 REFERENCE PROJECT SPECIFICATIONS FOR REQUIRED FINISHES.

5.9 CONTRACTOR SHALL SUBMIT REBAR SHOP DRAWINGS FOR APPROVAL TO OWNER PRIOR TO FABRICATION. DO NOT FABRICATE REINFORCING PRIOR TO RECEIPT OF APPROVED SHOP DRAWINGS.

5.10 CAST-IN-PLACE REINFORCED CONCRETE SHALL HAVE A MINIMUM (28) DAY OF COMPRESSIVE STRENGTH 4,000 PSI. DOCUMENTATION INDICATING THE PROPOSED CONCRETE PROPORTIONS WILL PRODUCE AN AVERAGE COMPRESSIVE STRENGTH EQUAL TO OR GREATER THAN THE REQUIRED AVERAGE COMPRESSIVE STRENGTH IN ACCORDANCE WITH ACI 301-10, SECTIONS 4.2.3.4.A OR 4.2.3.4.B SHALL BE SUBMITTED FOR ACCEPTANCE PRIOR TO CONCRETE PLACEMENT.

5.11 ROUGHEN THE "BASE" CONCRETE POUR SURFACE TO A FULL AMPLITUDE OF 1/4" MINIMUM, WHERE NOTED ON THE CONSTRUCTION DRAWINGS.

5.12 CONCRETE ACCESSORIES AS FOLLOWS:

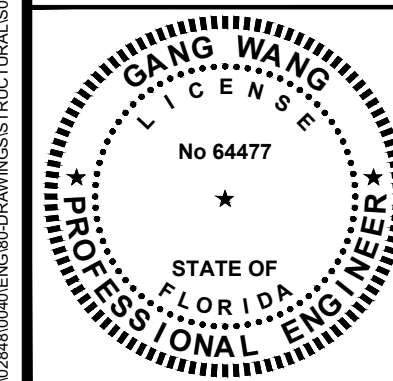
- A. PREFORMED WATERSTOPS SHALL BE PVC 6 INCH LONG w/ 3/8 INCH (MIN.) CENTER BULB & TAPERED RIB ENDS AND IN ACCORDANCE w/ THE PROJECT SPECIFICATIONS.
- B. EXPANSIVE WATERSTOPS SHALL BE ADEKA ULTRA SEAL TYPE MC-2010M. THE WATERSTOPS CAN BE EITHER ADHERED TO THE CONCRETE WITH 3M-2141 BONDING ADHESIVE OR NAILED IN PLACE USING 1.5 INCH CONCRETE NAILS 3 TO 6 INCHES APART OR EQUAL.
- C. RETROFIT WATERSTOPS SHALL BE SIKA WESTEC ENVIROSTOP TPE TYPE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- D. CAULK/SEALANT - BASF MASTERSEAL CR125.
- E. BONDING AGENT - SHALL BE STRUCTURAL EPOXY ADHESIVE CONFORMING TO ASTM C-881 TYPE I STRENGTH AND II, GRADE 2, CLASS B AND C WITH A MINIMUM BOND STRENGTH OF 1900 PSI.
 - 1.) SIKA ARMATEC 110 EpoCem OR EQUAL.

5.13 CONCRETE POST INSTALLED ANCHORS NOTE THE FOLLOWING:

- A. BOLTED ANCHORING SYSTEMS EMBEDDED IN CONCRETE SHALL BE RED HEAD, C6 EPOXY ADHESIVE ANCHORING SYSTEM OR EQUAL. MECHANICAL WEDGE TYPE ANCHORS ARE NOT ALLOWED.
- B. REBAR ANCHORING SYSTEM EMBEDDED IN CONCRETE SHALL BE RED HEAD, C6 EPOXY ADHESIVE ANCHORING SYSTEM OR EQUAL. DEPTH OF REBAR EMBEDMENT SHALL MEET MFG.'S RECOMMENDATIONS TO ENSURE DEVELOPMENT OF THE FULL TENSILE STRENGTH OF THE REINFORCING BAR.

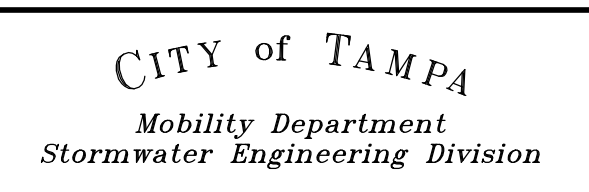
I:\2024\04\06\ENR\DRAWINGS\STRUCTURAL\501-15001-0224\04\06\DWG 027024 849 AM 02/20/23 3:09 PM TRACEY.L WEBER

GANG WANG, P.E.
LICENSE NO. 64477



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DES: AEA
DRN: MMP
CKD: WFB
DATE: 1/18/23



43RD STREET DRAINAGE IMPROVEMENTS
STRUCTURAL
GENERAL NOTES

6.0 ABBREVIATIONS

6.1 THE FOLLOWING LIST OF ABBREVIATIONS IS NOT INTENDED TO REPRESENT ALL THOSE USED ON THE DRAWINGS, BUT TO SUPPLEMENT THE MORE COMMON ABBREVIATIONS USED.

ADD'L = ADDITIONAL	O/F = OUTSIDE FACE
AL = ALUMINUM	O/H = OVERHANG
ALT. = ALTERNATE	O/O = OUT TO OUT
BLDG. = BUILDING	OPNG. = OPENING
BLK. = BLOCK	OPP. = OPPOSITE
BM. = BEAM	ORIENT. = ORIENTATION
B.O. = BOTTOM OF	PLCS. = PLACES
BRG. = BEARING	P.P. = PUMP PAD
C.I.P. = CAST-IN-PLACE	RAD. = RADIUS
CLR. = CLEAR	REF. = REFERENCE
CMU = CONC. MAS. UNIT	REINF. = REINFORCING
C.O. = CLEAN OUT	REQ'D. = REQUIRED
COL. = COLUMN	RET. = RETAINING
CONC. = CONCRETE	ROT. = ROTATE
CONN. = CONNECTION	SIM. = SIMILAR
CONST. = CONSTRUCTION	SPA. = SPACED
CONT. = CONTINUOUS	SPECS. = SPECIFICATIONS
COORD. = COORDINATE	S.S. = STAINLESS STEEL
CTR. = CENTER	SSL. = SHORT SLOTTED
CTR'D. = CENTERED	STD. = STANDARD
DBL. = DOUBLE	STL. = STEEL
DIR. = DIRECTION	T&B = TOP & BOTTOM
DWG. = DRAWING	T/D = TURN DOWN
DWG.'s. = DRAWINGS	THK. = THICK
EA. = EACH	THK'D = THICKENED
EL. = ELEVATION	T.O. = TOP OF
E.O. = EDGE OF	T.O.S. = TOP OF STEEL
EQ. = EQUAL	TYP. = TYPICAL
EQUIP. = EQUIPMENT	U.N.O. = UNLESS NOTED OTHERWISE
EXIST. = EXISTING	
EXP. = EXPANSION	XB = CROSS OR "X"-BRACE
FLG. = FLANGE	VERT. = VERTICAL
FDN. = FOUNDATION	W.P. = WORK POINT
F.S. = FAR SIDE	
FT. = FEET	
FTG. = FOOTING	
GA. = GAGE	
GALV. = GALVANIZED	
GALV'D = GALVANIZED	
HORZ. = HORIZONTAL	
H.P. = HIGH POINT	
HRS. = HOURS	
I/F = INSIDE FACE	
INFO. = INFORMATION	
INTR. = INTERIOR	
JST. = JOIST	
JT. = JOINT	
KB = KNEE BRACE	
LCS = LIQUID CONTAINMENT STRUCTURES	
LLH = LONG LEG HORIZONTAL	
LLV = LONG LEG VERTICAL	
L.P. = LOW POINT	
LSL = LONG SLOTTED	
MAS. = MASONRY	
MAT'L. = MATERIAL	
MFG. = MANUFACTURER	
MIN. = MINIMUM	
MTL. = METAL	
NA = NOT APPLICABLE	
N/A = NOT APPLICABLE	
NOM. = NOMINAL	
N.S. = NEAR SIDE	
N.T.S. = NOT TO SCALE	
O.C. = ON CENTER	


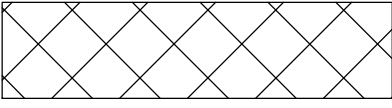
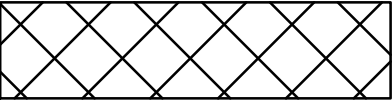
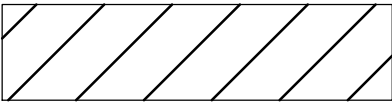
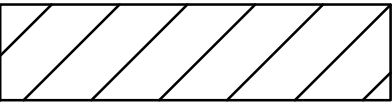
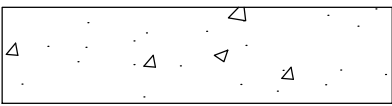
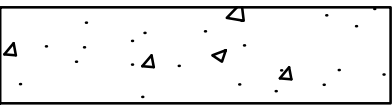
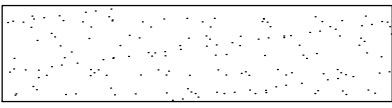

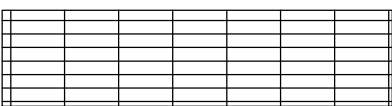
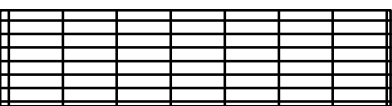
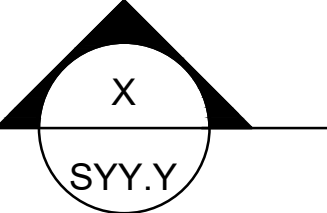
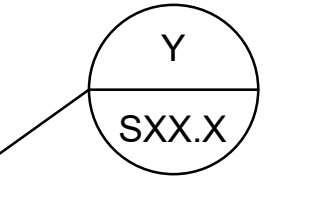
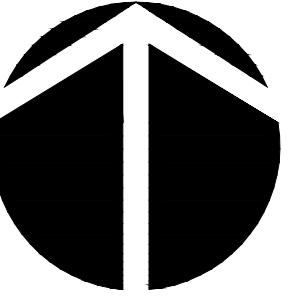
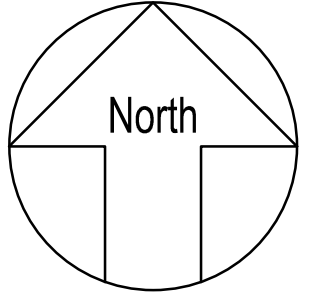
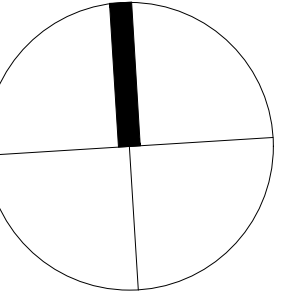



7.0 DESIGN LOADS

DESIGN LOADS BASIS OF DESIGN:
FLORIDA BUILDING CODE 2020 EDITION & ASCE 24-14 FOR FLOOD DESIGN

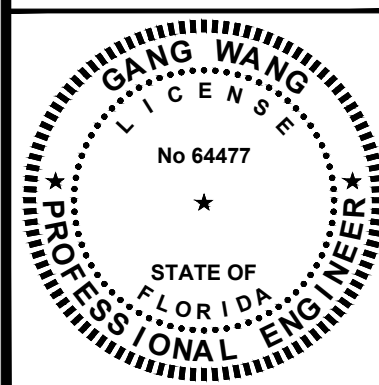
LIVE LOAD: 50 PSF UNIFORM AT CONCRETE SURFACES (TRAFFIC LOADS NOT ALLOWED)

SOIL BEARING: REF. "FOUNDATIONS" NOTE 3.1

8.0 LEGEND

ENLARGED PLAN AREA, DETAIL	=	
CONC. MASONRY BLOCK	=	 (EXIST.)  (NEW)
BRICK VENEER	=	 (EXIST.)  (NEW)
CONC. WALL, SLAB, ETC.	=	 (EXIST.)  (NEW)
GROUT	=	 (EXIST.)  (NEW)
GRATING	=	 (EXIST.)  (NEW)
DETAIL OR SECTION NO./SHEET NO. REFERENCE	=	 
PROJECT NORTH	=	 OR  OR 
ELEVATION DATUM	=	
ELEVATION NO./SHEET NO. REFERENCE	=	
ELEVATIONS X'-X"	=	X'-X" = EQUIVALENT SITE EL VERTICAL DATUM
STEP IN FOOTING ELEVATION	=	\$
STL. FRAMING COL./BM. MOMENT CONNECTION	=	

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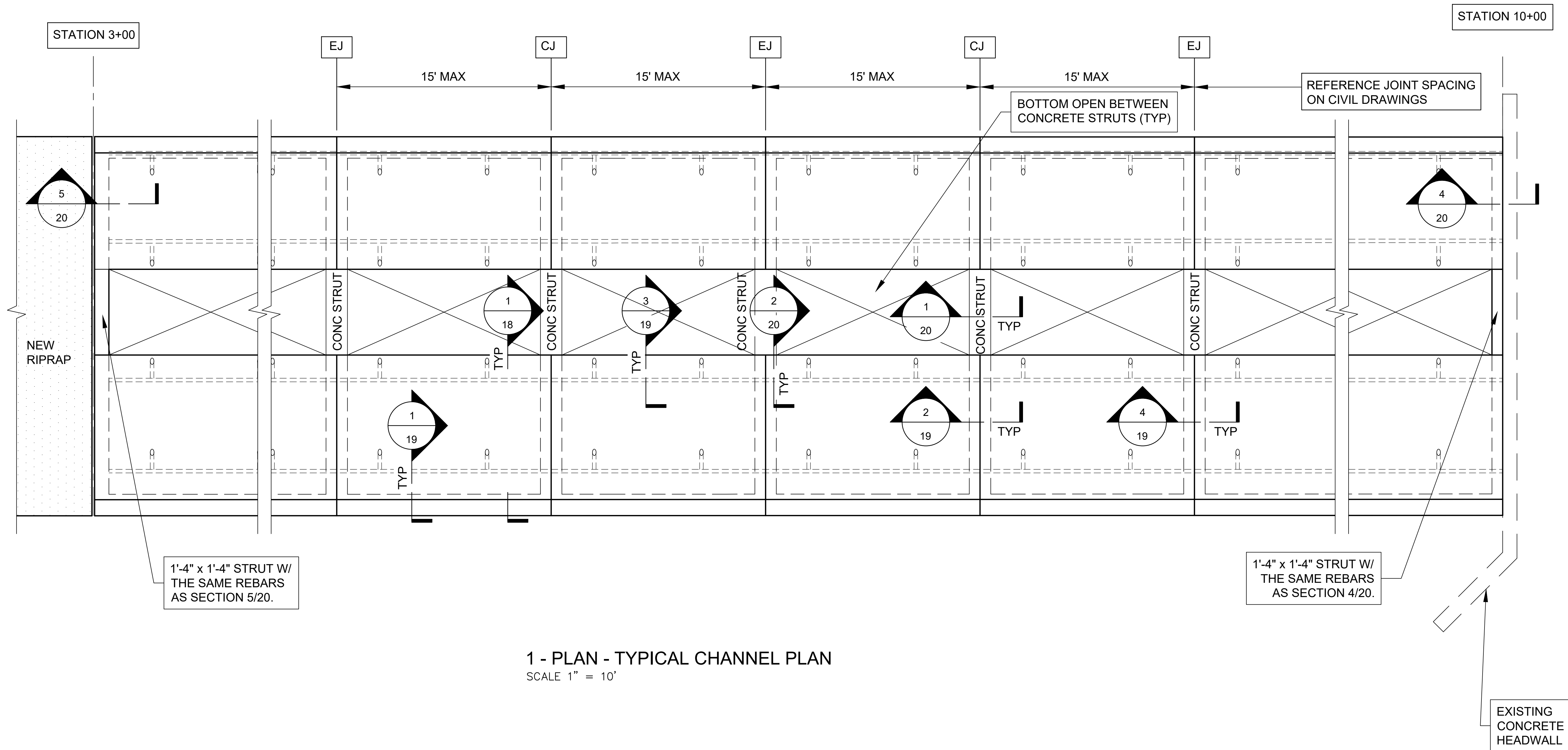


No.	DATE	REVISIONS	No.	DATE	REVISIONS

DES: AEA
DRN: MMP
CKD: WFB
DATE: 1/18/23

CITY of TAMPA
Mobility Department
Stormwater Engineering Division

43RD STREET DRAINAGE IMPROVEMENTS
STRUCTURAL
ABBREVIATIONS, DESIGN LOADS, DESIGN
CRITERIA & LEGEND



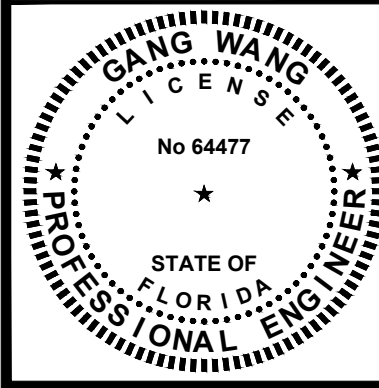
1 - PLAN - TYPICAL CHANNEL PLAN
SCALE 1" = 10'

1'-4" x 1'-4" STRUT W/
THE SAME REBARS
AS SECTION 5/20.

1'-4" x 1'-4" STRUT W/
THE SAME REBARS
AS SECTION 4/20.

EXISTING
CONCRETE
HEADWALL

GANG WANG, P.E.
LICENSE NO. 64477



No.	DATE	REVISIONS	No.	DATE	REVISIONS

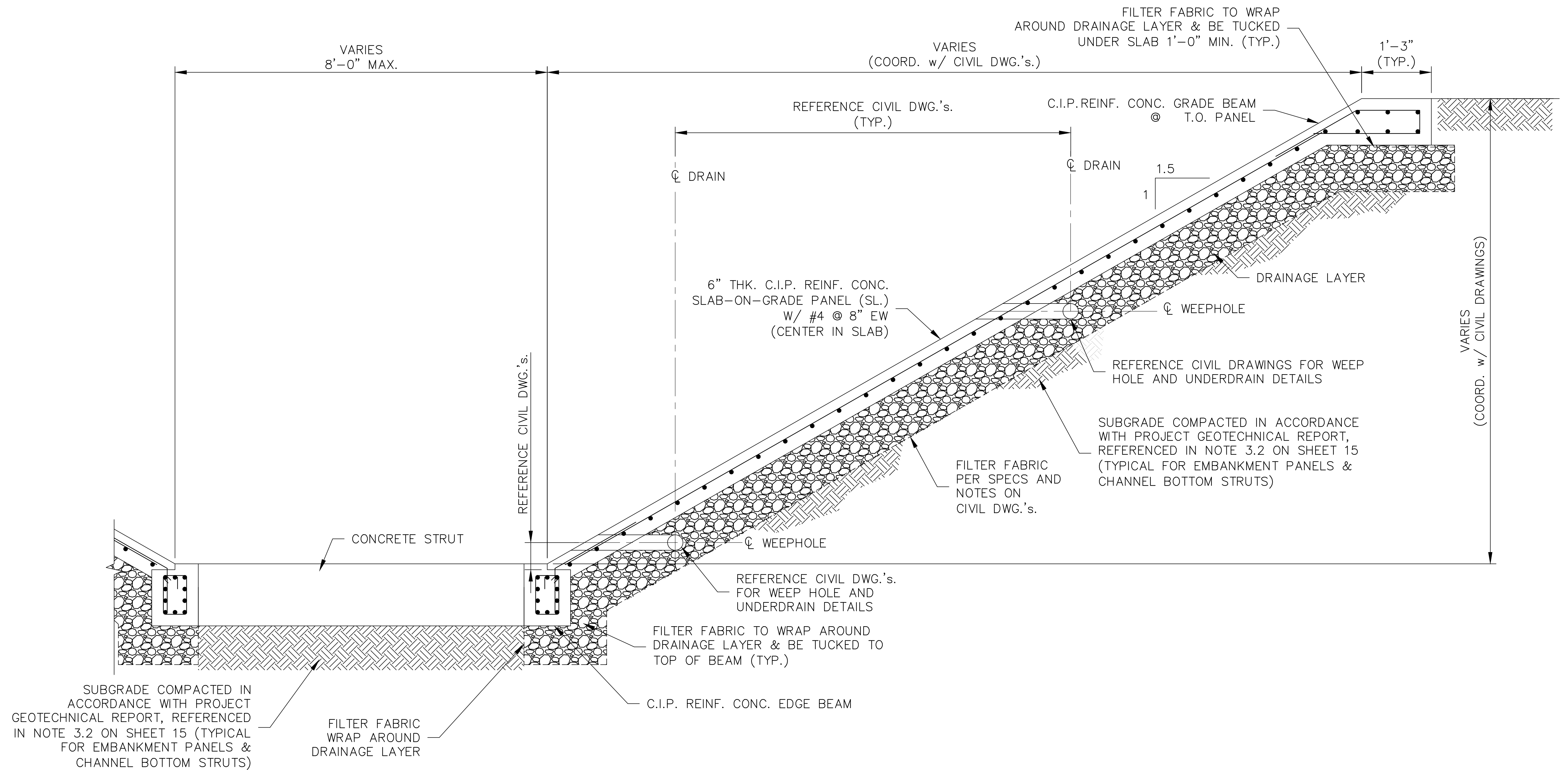
DES: AEA
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DATE: 1/18/23

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Mobility Department
Stormwater Engineering Division

43RD STREET DRAINAGE IMPROVEMENTS
STRUCTURAL
TYPICAL CHANNEL PLAN

NOTES:

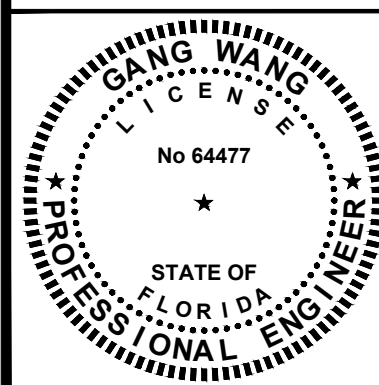
1. REINFORCEMENT COVER FOR CONCRETE CAST AGAINST DRAINAGE LAYER SHALL BE 3". FOR ALL OTHER SURFACES COVER SHALL BE 2".



1 - SECTION - THRU CHANNEL LINING SLAB-ON-GRADE PANEL

SCALE: 3/8" = 1'-0"

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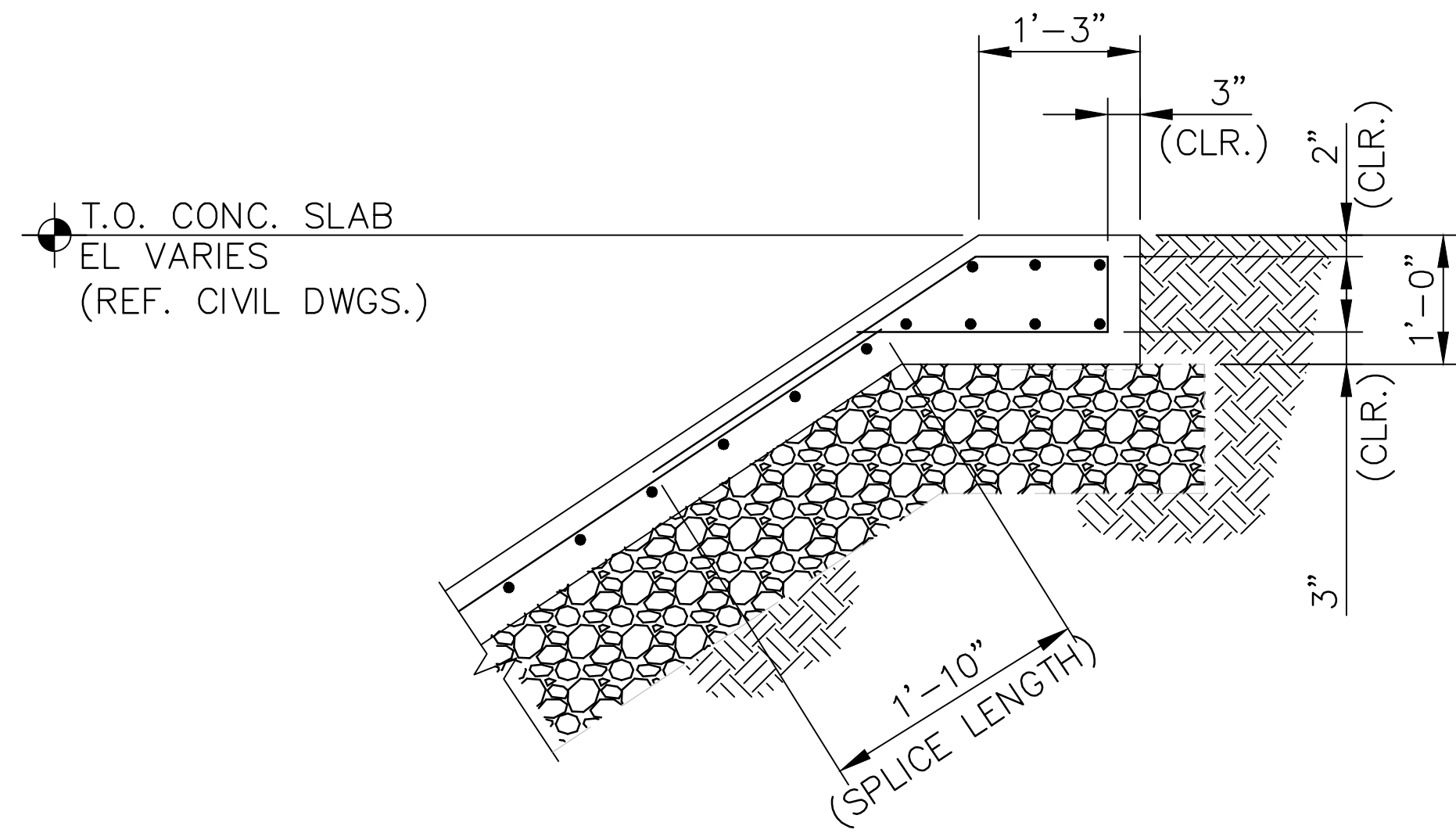


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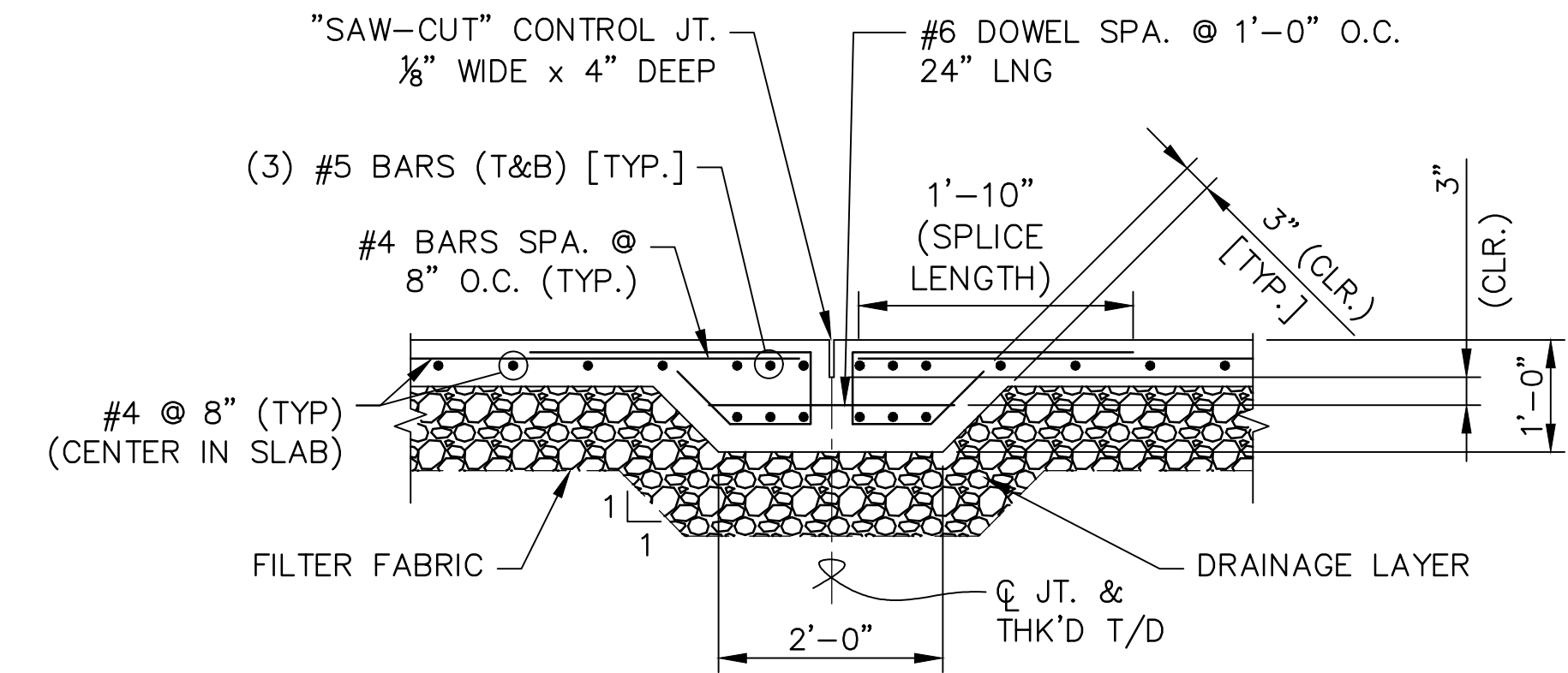
CITY of TAMPA
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43RD STREET DRAINAGE IMPROVEMENTS
STRUCTURAL SECTIONS



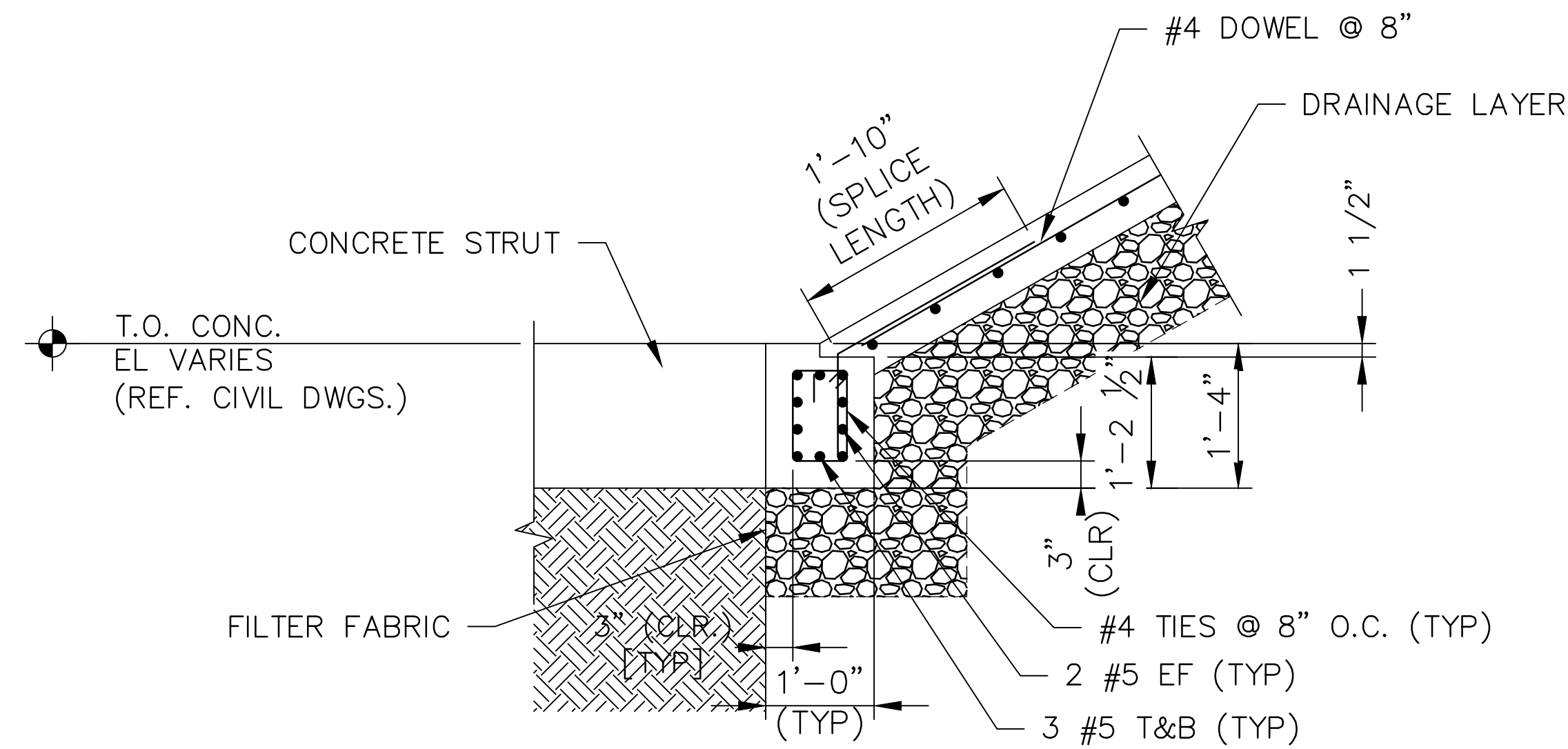
1 - DETAIL - TYP. T.O. PANEL GRADE BEAM

SCALE: 3/8" = 1'-0"



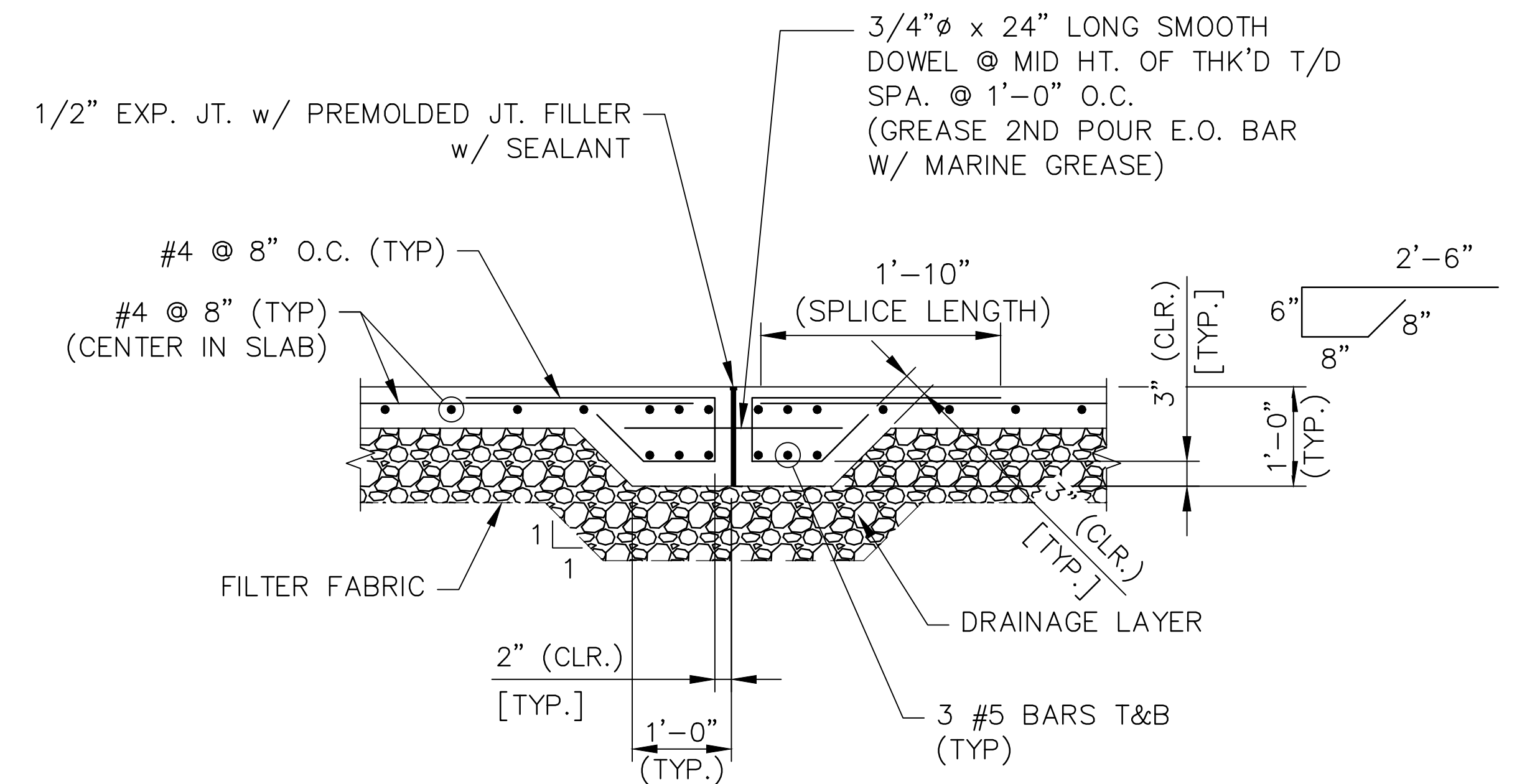
2 - SECTION - TYP. PANEL CONTROL JOINT (CJ)

SCALE: 3/8" = 1'-0"



3 - DETAIL - TYP. BOTTOM PANEL EDGE BEAM(S)

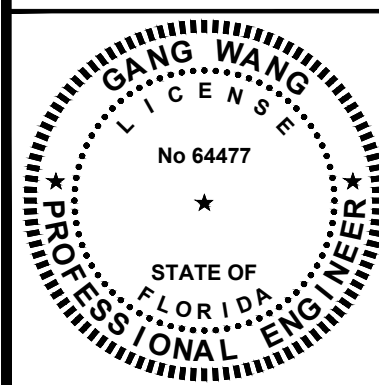
SCALE: 3/8" = 1'-0"



4 - SECTION - TYP. PANEL EXP. JOINT (EJ)

SCALE: 3/8" = 1'-0"

GANG WANG, P.E.
LICENSE NO. 64477



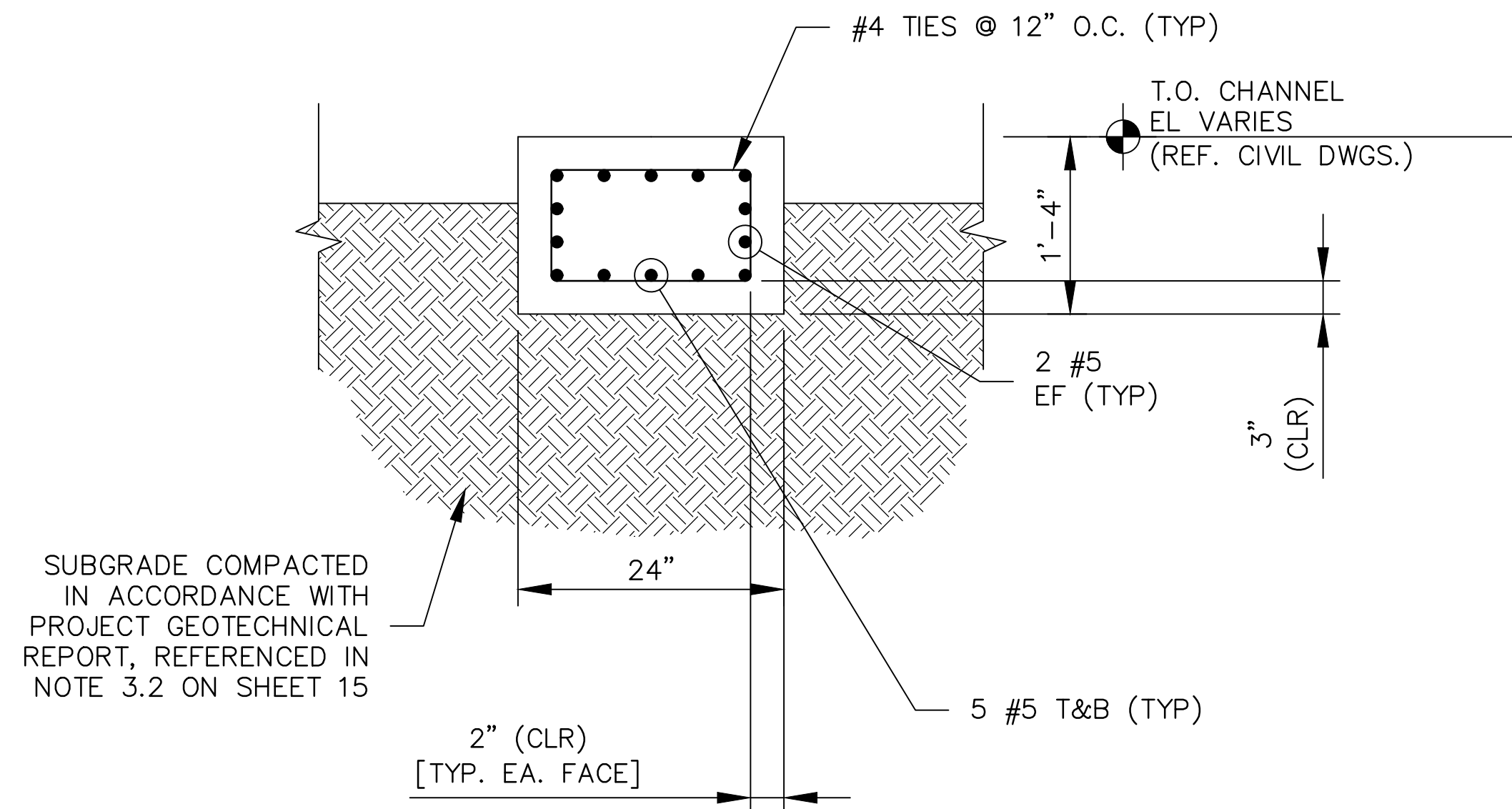
No.	DATE	REVISIONS	No.	DATE	REVISIONS

DES: AEA
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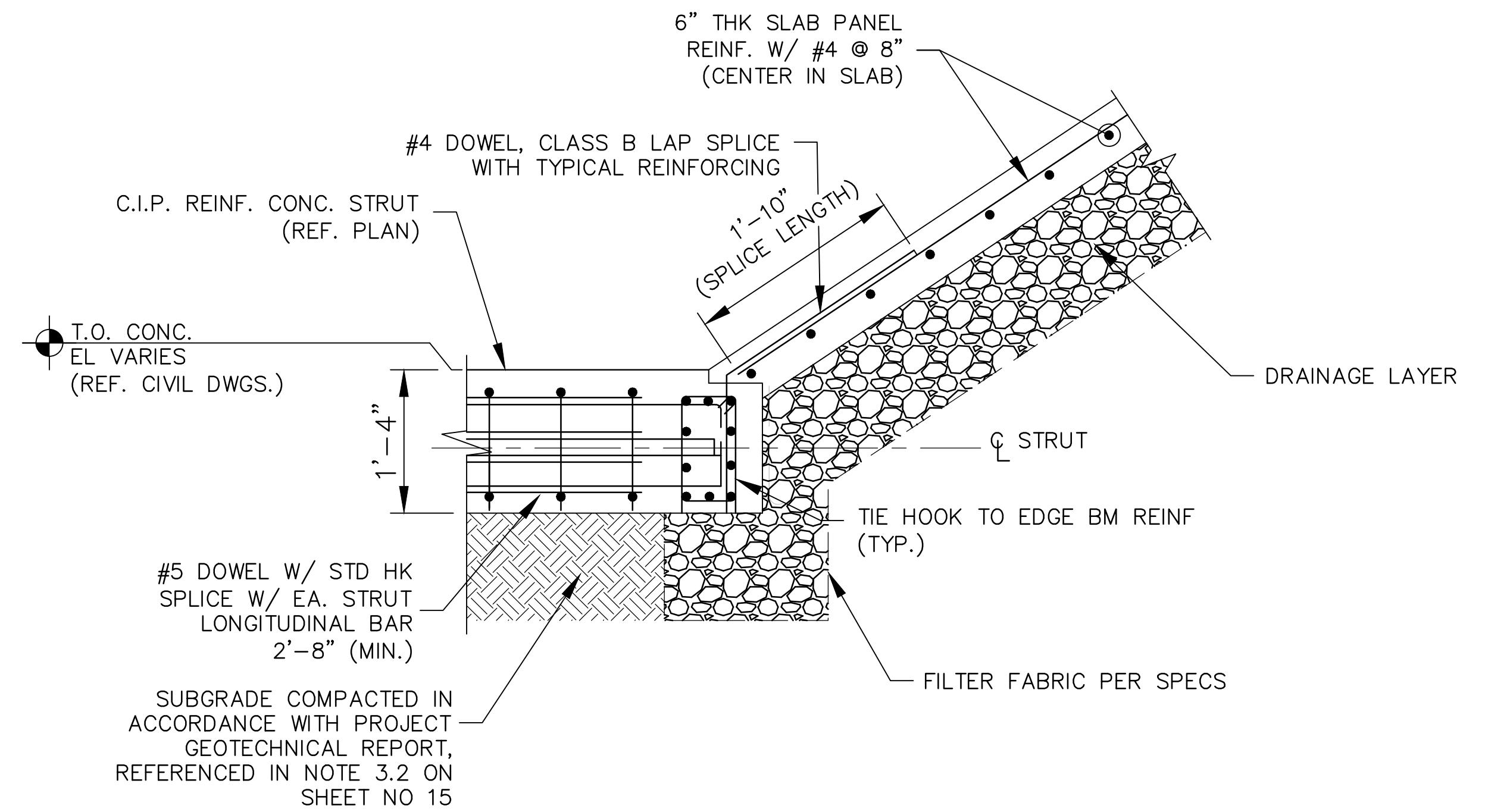
43RD STREET DRAINAGE IMPROVEMENTS
STRUCTURAL
SECTIONS & DETAILS I

SHEET
19
OF 22



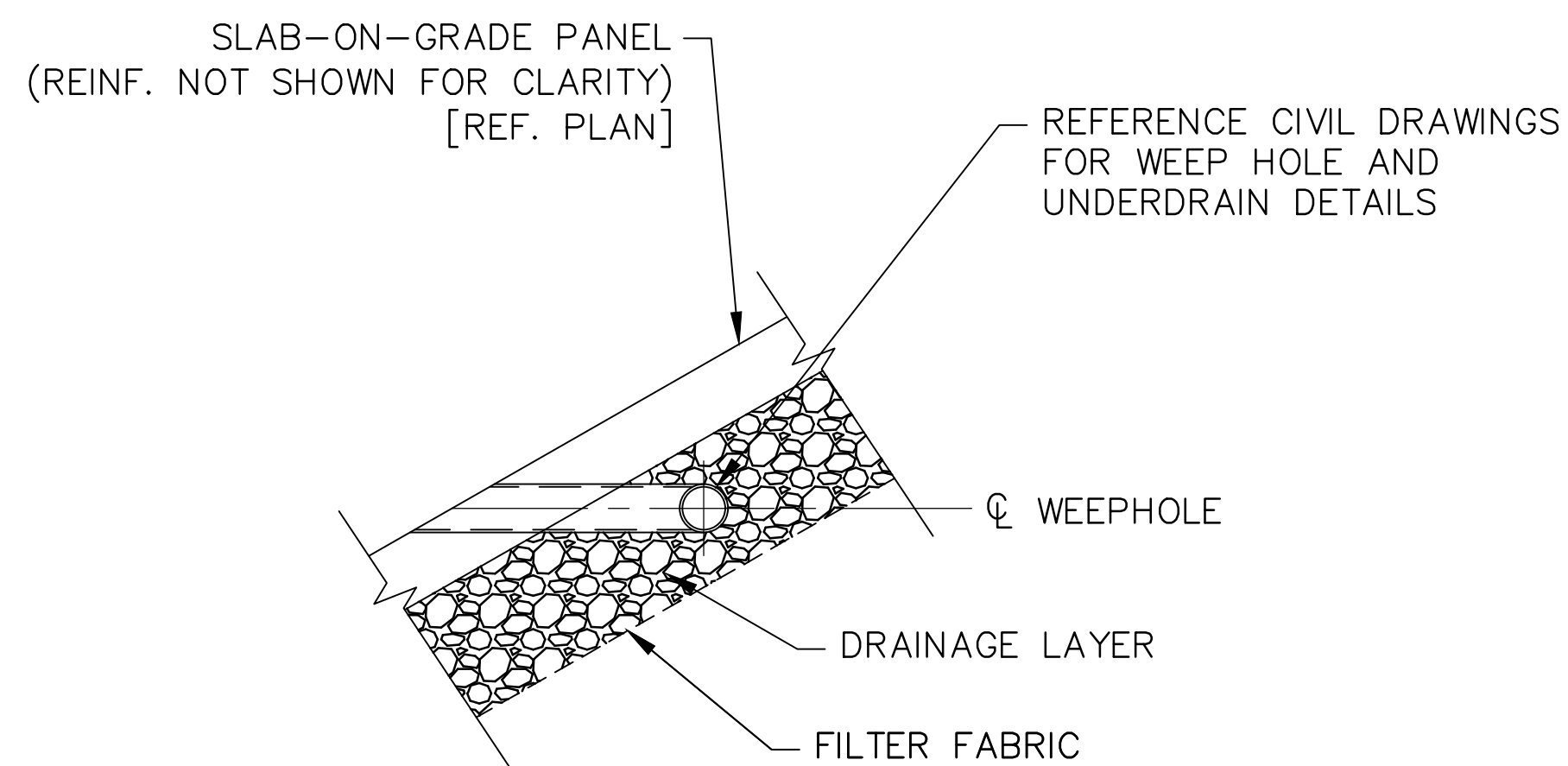
1 - STRUT @ CHANNEL BASE

SCALE: 1/2" = 1'-0"



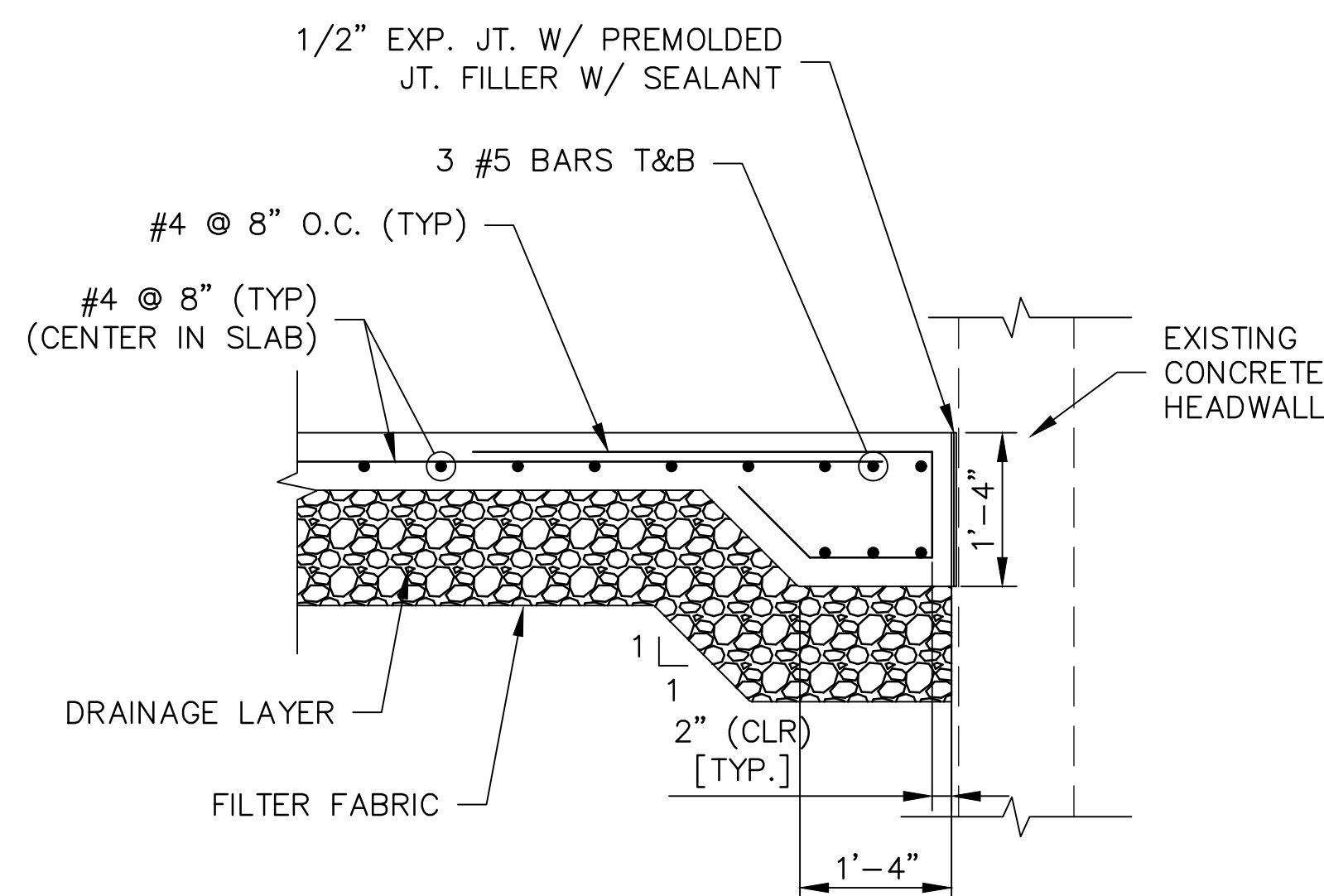
2 - SECTION - PANEL EDGE BM. STRUT CONN.

SCALE: 1/2" = 1'-0"



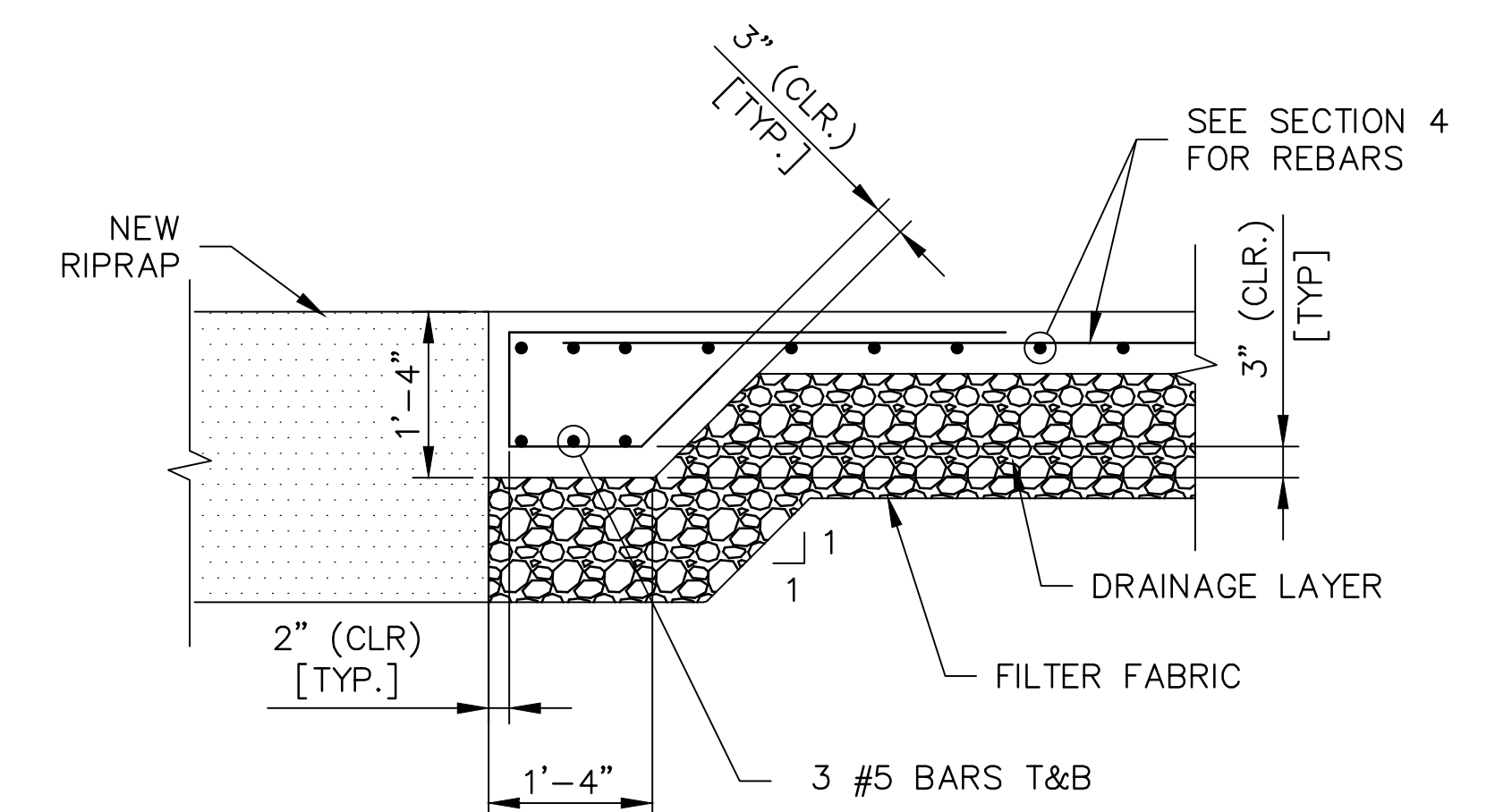
3 - DETAIL - UNDERDRAIN / WEEPHOLE INFO

SCALE: 3/8" = 1'-0"



4 - DETAIL - SECTION-PANEL EDGE TURNDOWN

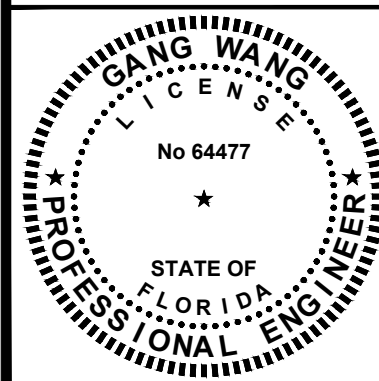
SCALE: 3/8" = 1'-0"



5 - DETAIL - SECTION-PANEL EDGE TURNDOWN

SCALE: 3/8" = 1'-0"

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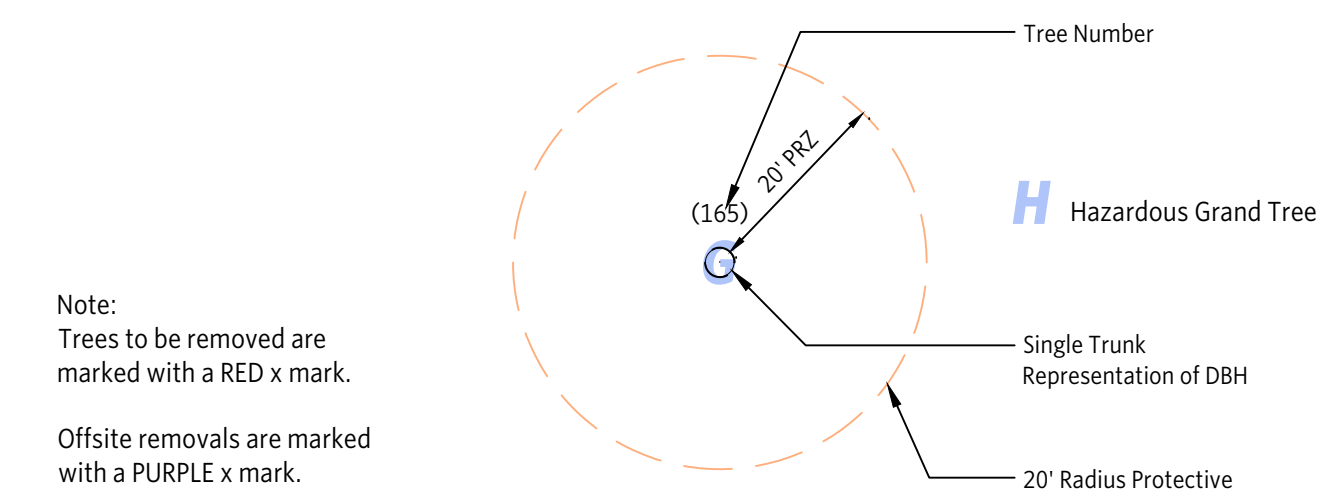
DES: AEA
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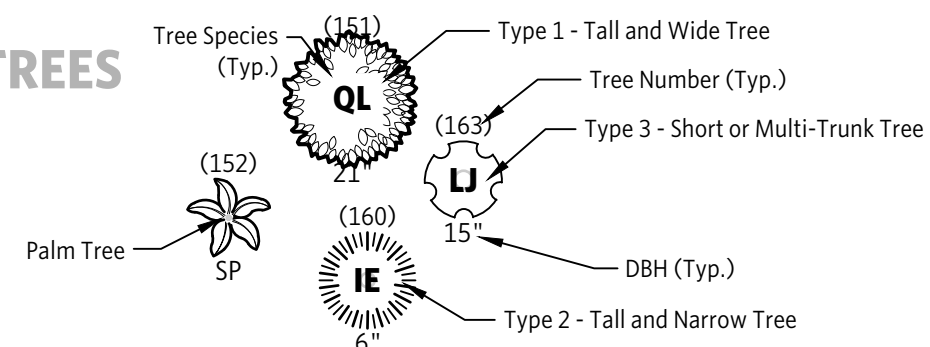
43RD STREET DRAINAGE IMPROVEMENTS
STRUCTURAL
SECTIONS & DETAILS II

TREE INVENTORY LEGEND

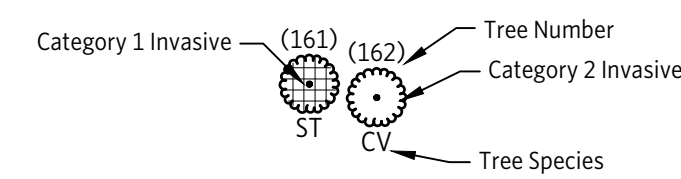
GRAND TREES



PROTECTED TREES



EXEMPT TREES



DATE OF ASSESSMENT: October 10th, 2022. INVENTORY ASSIGNMENT NOTES

The objectives of the assignment were limited to the following components: 1. to conduct a tree inventory to identify all the on-site trees...

A field investigation was conducted on the date of assessment. Each investigation was limited to the visual inspection of the on-site trees, their surrounding context, and a review of a tree survey prepared by a third-party surveyor.

Tree survey data was imported to a data collection field tablet. The tablet was used to collect observations and photographs as needed. No physical notes were taken.

Upon arrival to the site, I employed the following field review techniques to gather data: 1. Trunk diameter at breast height (dbh) or 54 inches above the ground...

When advanced assessment was applicable, the following simple tools and review techniques were used: 1. Crown spread measurement, taken with a mechanical wheel from the centroid of the trunk.

When overgrowth or obstructions restricted the collection of measurements, the applicable data element was omitted or approximated. No soil, water, or tissue tests were conducted unless otherwise noted.

When typically single-trunked trees are fused at or near the ground, a pith test is performed to determine whether the tree grouping is separate trees or a single tree.

To tailor the inventory to jurisdictional requirements, data elements collected varied by tree classification: 1. Grand Trees: species, dbh, condition rating, crown spread, and 'Risk Evaluation' as described in the City of Tampa Land Development Code.

ASSUMPTIONS AND LIMITING CONDITIONS

- 1. Any legal description provided to the consultant is assumed to be correct. Any titles and ownerships to any property are assumed to be good and marketable. No responsibility is assumed for matters legal in character.

CERTIFICATION OF PERFORMANCE

I, Richard Peterika, certify that: 1. I have personally inspected the trees and the property referred to in this inventory and have stated my findings accurately.

I further certify that I am a member in good standing of the American Society of Consulting Arborists and the International Society of Arboriculture.

This document has been digitally signed and sealed by: RICHARD F. PETERIKA. Printed copies of this document are not considered signed and sealed.

RICHARD PETERIKA, ASLA, AICP, RCA #641, ISA-FL #5893B. DARK MOSS LLC, 308 E 7TH AVE TAMPA, FL 33602.

INVENTORY METRICS

Table with columns: GRAND TREES REMOVED?, RETENTION % REQUIRED, FAIR OR BETTER % PRESERVED. Includes metrics for Total Onsite Trees (3), Jurisdictional Trees by CR (2), Palms (0), Type 1, 2, & 3 Trees (2), ABC Non-Palms by Size Class, Hazardous Grand Trees (0), Protected & Specimen (1), Offsite Trees Removed (0), and Most Abundant Onsite Species (% of Population).

CONDITION RATING COLOR KEY

Color representations of Condition Rating are provided as a visual aid. Includes color swatches for Dark Green (Excellent), Light Green (Good), White (Fair), Light Tan (Poor), Brown (Very Poor), and Lavender (Category 1 Invasive).

RATING NOTES:

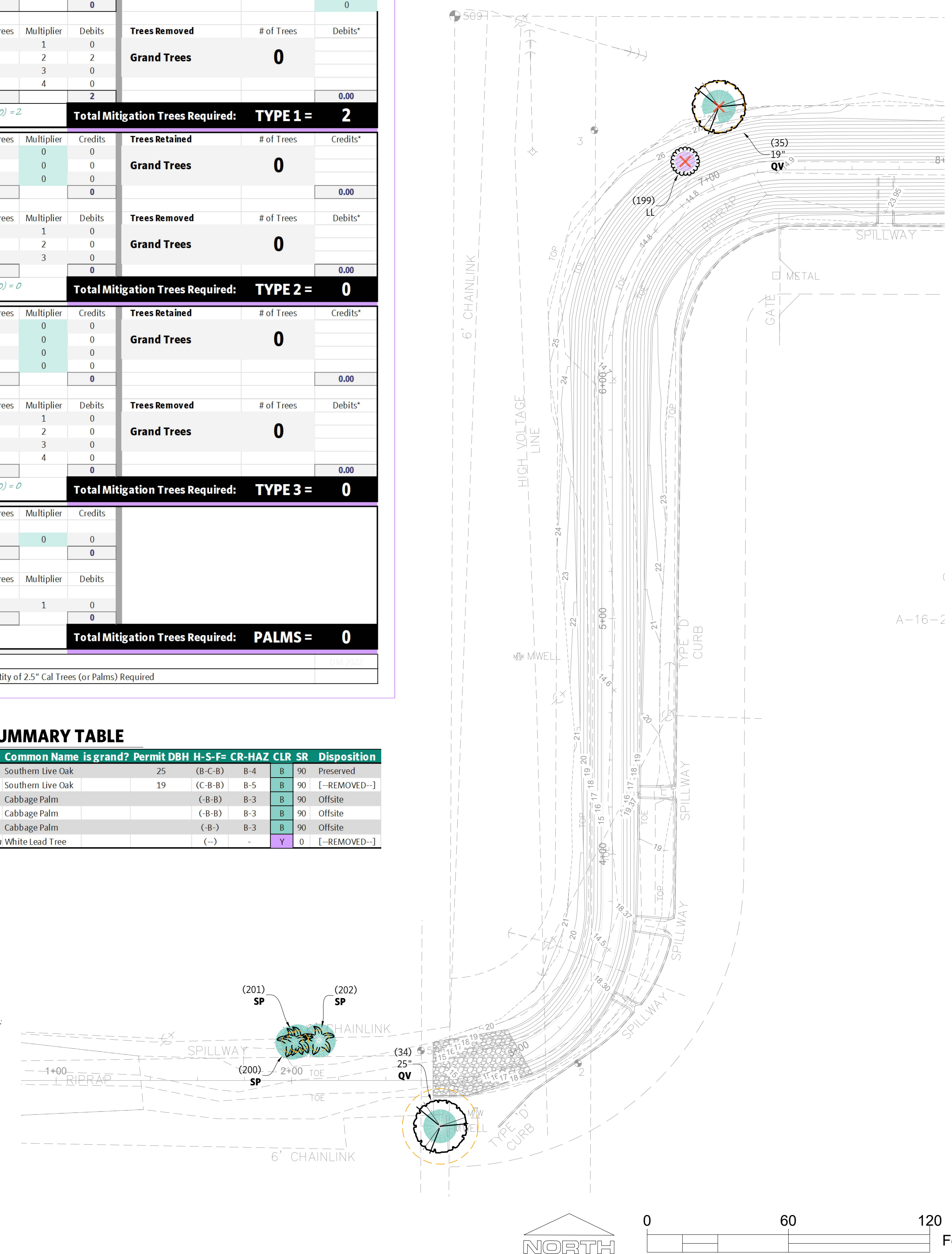
- 1. DBH and Permit DBH: The species or structure of a tree can be incompatible with a municipal or jurisdictional ordinance. DBH is the arborist's field adjusted dbh determination.
- 2. H-S-F = CR: Health, Structure, and Form to Condition Rating: A composite, weighted assessment of health, structure, and form.
- 3. Excluded or Reserved: Tree survey data quality and utility can vary widely between different surveyors.
- 4. Disposition: Tree disposition is the decision to retain or remove the tree based on the arborist's evaluation of the cumulative impact of the proposed construction activity.

TREE EQUIVALENCY TABLE

Table with columns: PROTECTED TREES, GRAND TREES, PALMS. Includes sub-tables for Tall and Wide, Tall and Narrow, Short & Wide/Multi-Stem, and Palms. Total Mitigation Trees Required: TYPE 1 = 2, TYPE 2 = 0, TYPE 3 = 0, PALMS = 0.

TREE DISPOSITION SUMMARY TABLE

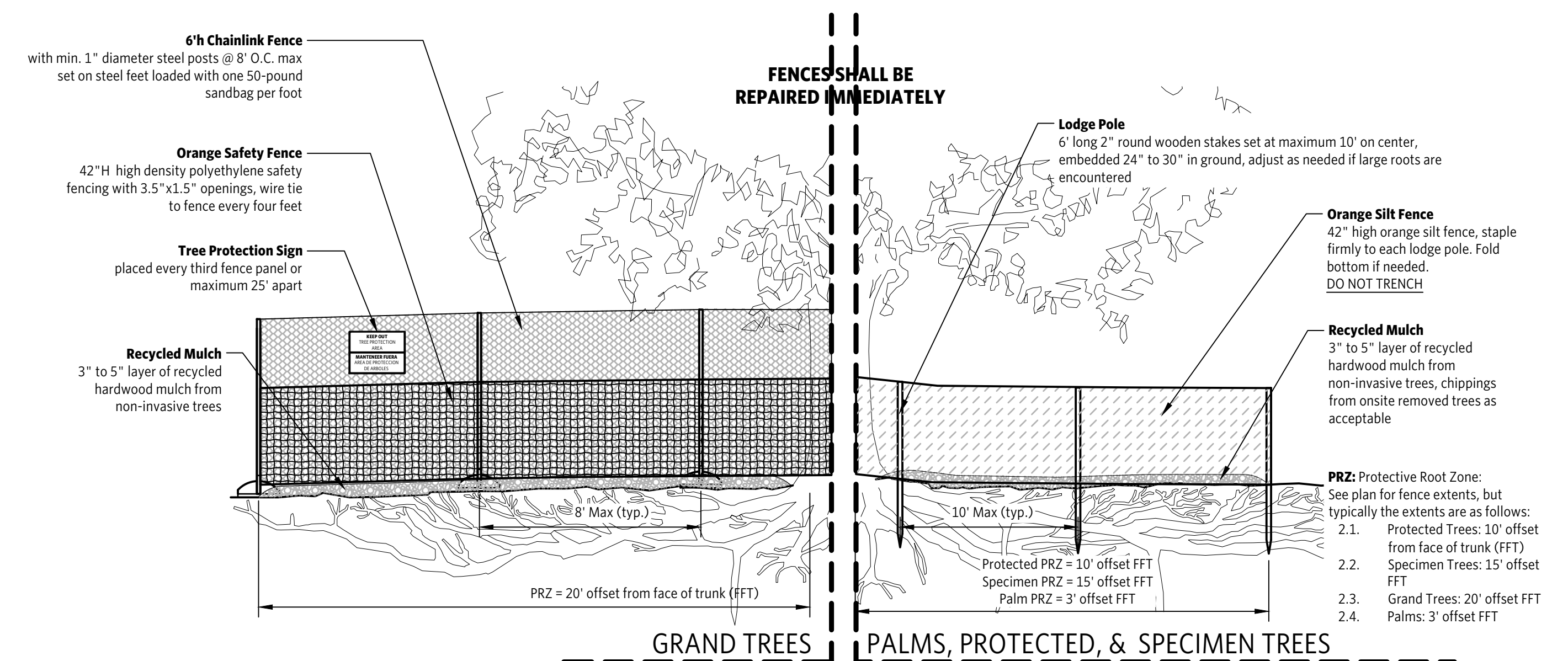
Table with columns: TREE #, SYM, Botanical Name, Common Name, is grand?, Permit DBH, H-S-F, CR-HAZ, CLR, SR, Disposition. Lists trees like Quercus virginiana, Sabal palmetto, and Leucaena leucocephala.



Revision table with columns: No., DATE, REVISIONS. Includes project information: CITY of TAMPA, Mobility Department, Stormwater Engineering Division, 43RD STREET DRAINAGE IMPROVEMENTS, TREE INVENTORY AND DISPOSITION PLAN, SHEET 21 of 22.

TREE PROTECTION NOTES

1. Minimum protection standards shall be met for all protected trees, prior to commencement of any construction activities on a development site and/or in public or private right-of-way, in accordance with the tree protection graphics below.
2. No changes to the predevelopment conditions within the approved protective root zone during the construction process.
3. Protective barricades may be removed only to prepare the development site for final landscaping activities. During this activity only nonmechanical techniques may occur within the designated protective root zone. No alterations of any kind shall be made to any part of the tree (roots, trunk, canopy/crown), other than those that are approved by the Natural Resources Coordinator or designee, as part of the related permit.
4. No parking or storing of vehicles, equipment, or materials is permitted within the minimum protective area, at any time.
5. No site clearing or grading is permitted within the minimum protective area, other than those changes that are approved by the Natural Resources Coordinator or designee, as part of the related permit.
6. In accordance with Section 22-326, Contractor shall adhere to the protection and pruning standards, as set forth in chapter 27-284 and ANSI standards, for protected, specimen, and grand tree species, located in the public rights-of-way and/or on private property. A provider shall not prune, remove, or irreversibly damage any protected or grand tree, as defined in chapter 27-284 of this Code, unless such activity is authorized by a permit issued by the city.
7. All root pruning shall be overseen and approved by an arborist, prior to the pre-construction site inspection.
8. All roots must be severed clean at the protective root zone of protected and grand trees to prevent root damage.
9. Root pruning must be performed using equipment that is specifically design for root pruning, such as hand pruners, loppers, hand saws, reciprocating saws, oscillating saws, or small chain saws or mechanical root cutting equipment (i.e. Vermeer).
10. Root pruning must be performed prior to any construction activities and inspected before requesting inspections. Contact Brian Knox, 813-274-3187.



00 COMPOSITE TREE PROTECTION DETAIL (TAMPA)

1/4" = 1'-0"

DETAIL-FILE

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 DARK MOSS LLC
 308 E 7TH AVE
 TAMPA, FL 33602
 813-532-3440

No.	DATE	REVISIONS	No.	DATE	REVISIONS	DES:

CITY of TAMPA
 Mobility Department
 Stormwater Engineering Division

43RD STREET DRAINAGE IMPROVEMENTS
 TREE PROTECTION DETAILS

SHEET
 22
 of 22

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Brig Levin 10/27/2023 11:32:53 AM X:\PROJECTS\122A - TAMPA Ditch Rehab - \ACAD\01-INVENTORY\122A (Inventory).dwg