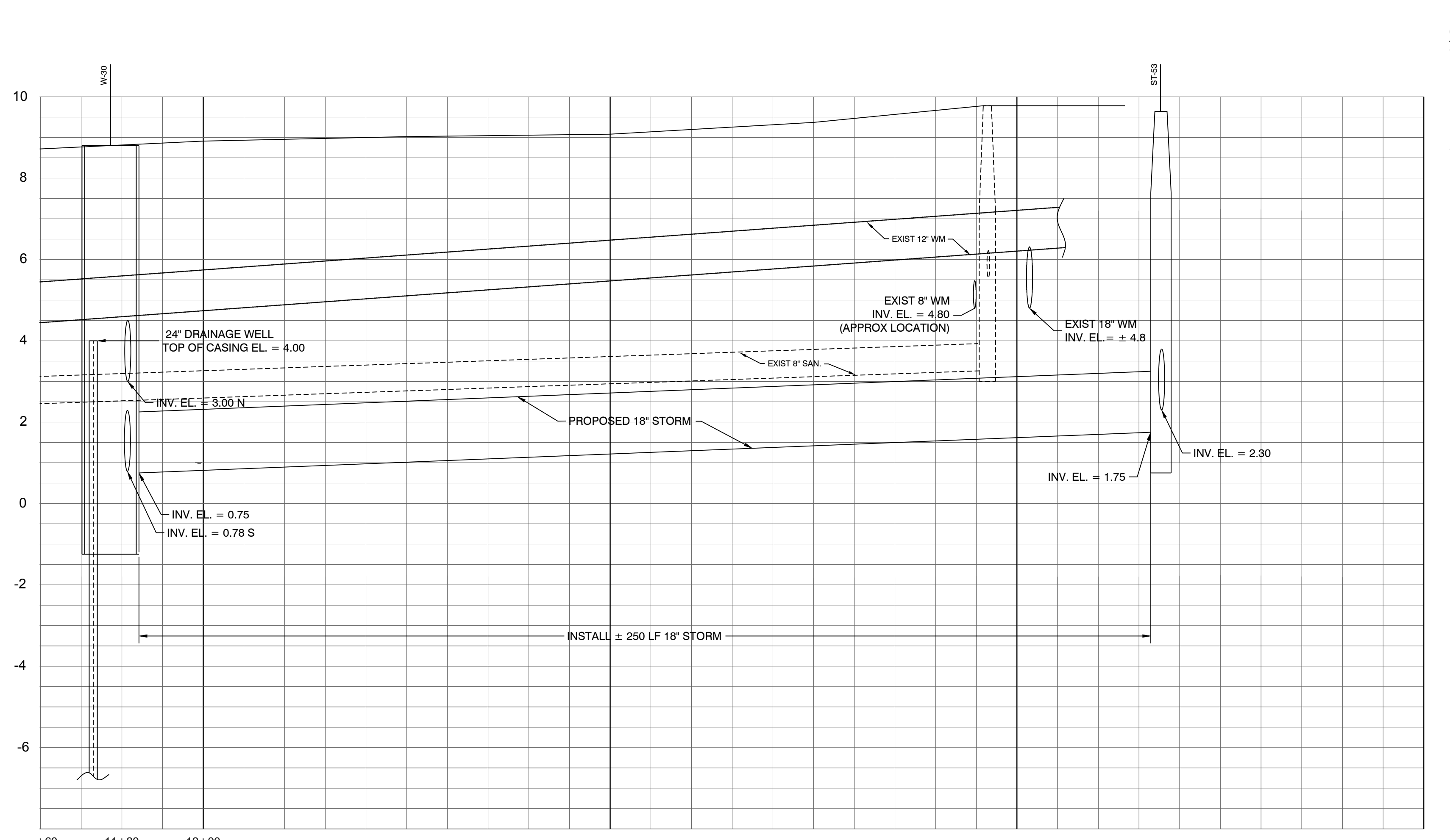


PROFILE SCALE:
SCALE HORIZONTAL: 1"=10'
SCALE VERTICAL: 1"=2'



PROFILE SCALE:
SCALE HORIZONTAL: 1"=10'
SCALE VERTICAL: 1"=2'

- GENERAL NOTES:**
- LIMITS OF RECONSTRUCTION OF SIDEWALK, WITH THE CITY OF KEY WEST ROW, IS APPROXIMATE. ALL WORK SHALL TERMINATE AT THE NEAREST CONTROL JOINT.

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PEREZ ENGINEERING & DEVELOPMENT, INC.

ALLEN E. PEREZ, P.E.
Florida P.E. NO. 51468
December 14, 2012

REVISIONS:

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EAST FRONT ST. FLOOD MITIGATION PROJECT

SIMONTON STREET

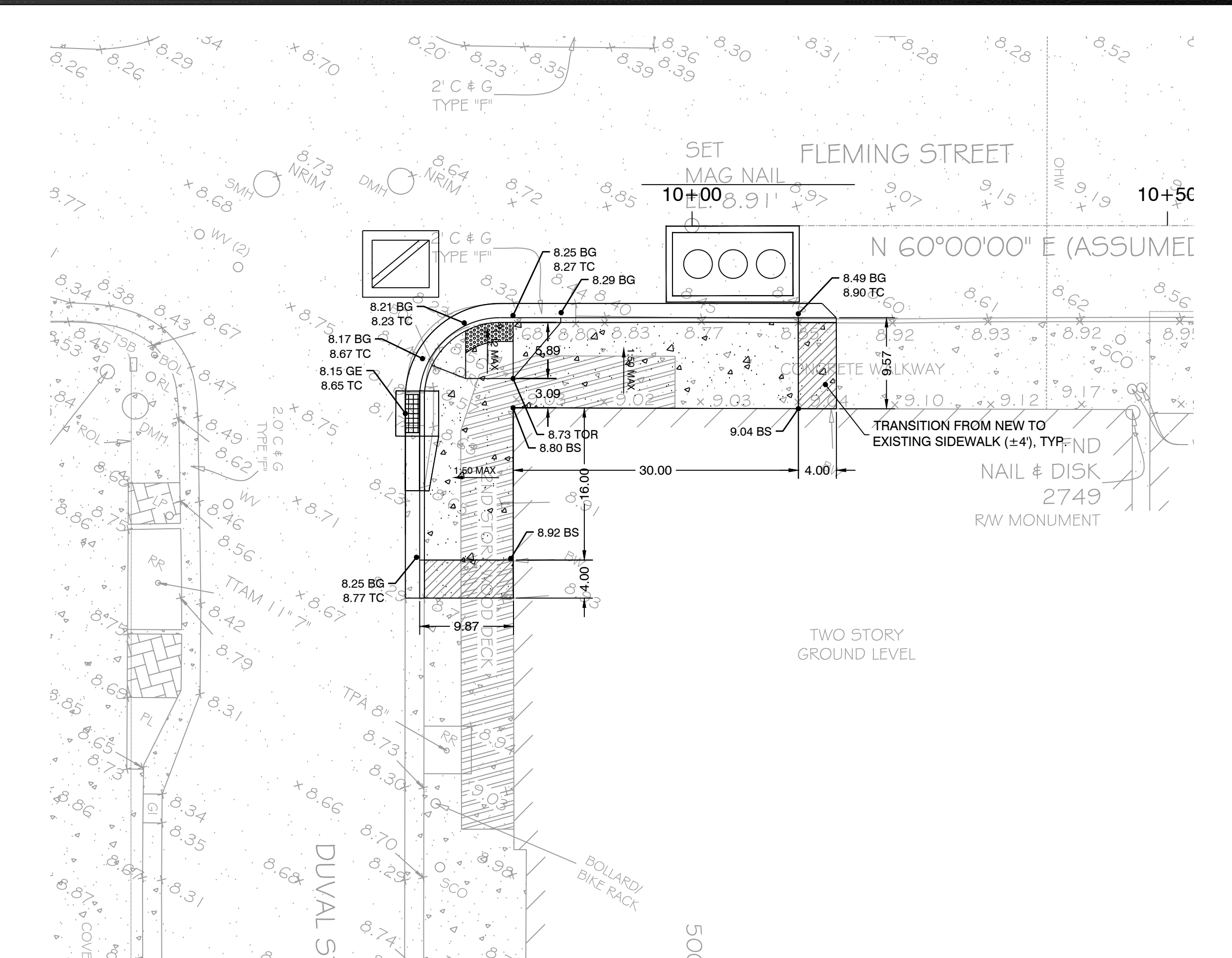
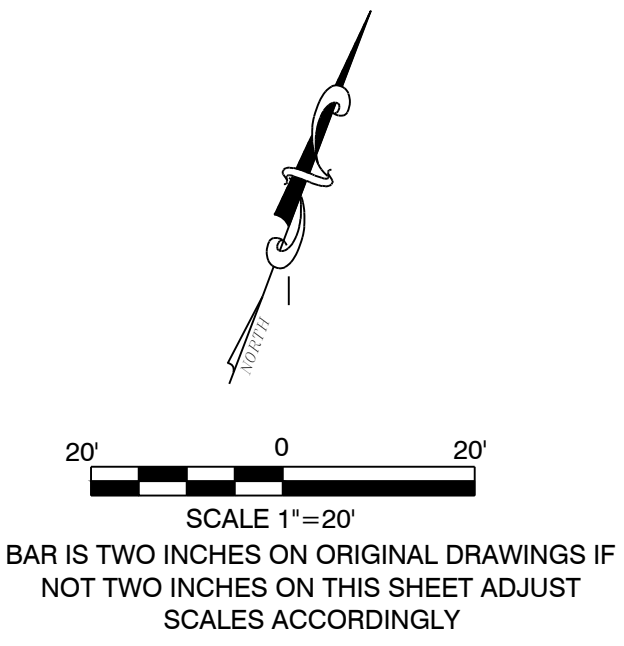
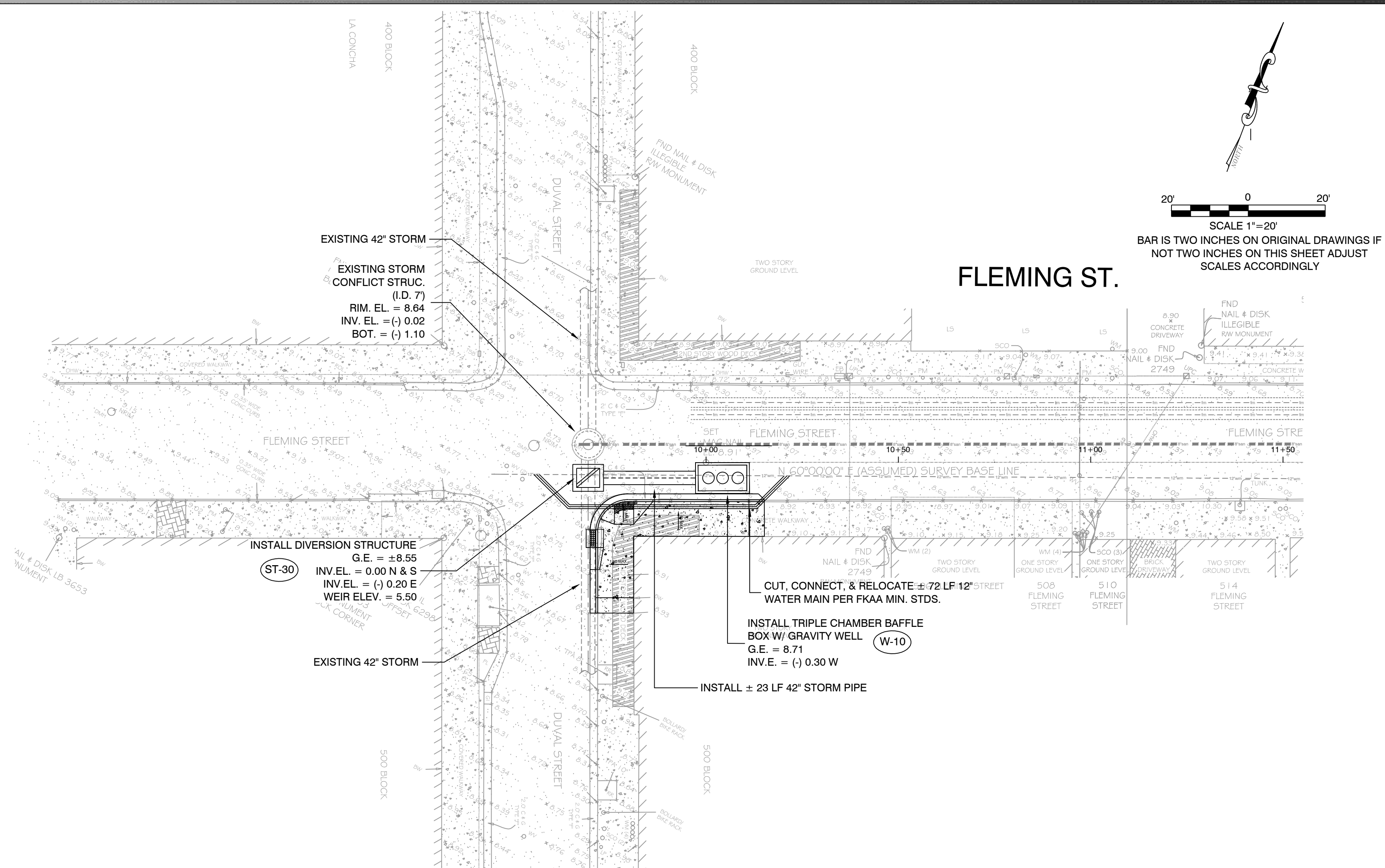
PLAN & PROFILE

CITY OF KEY WEST

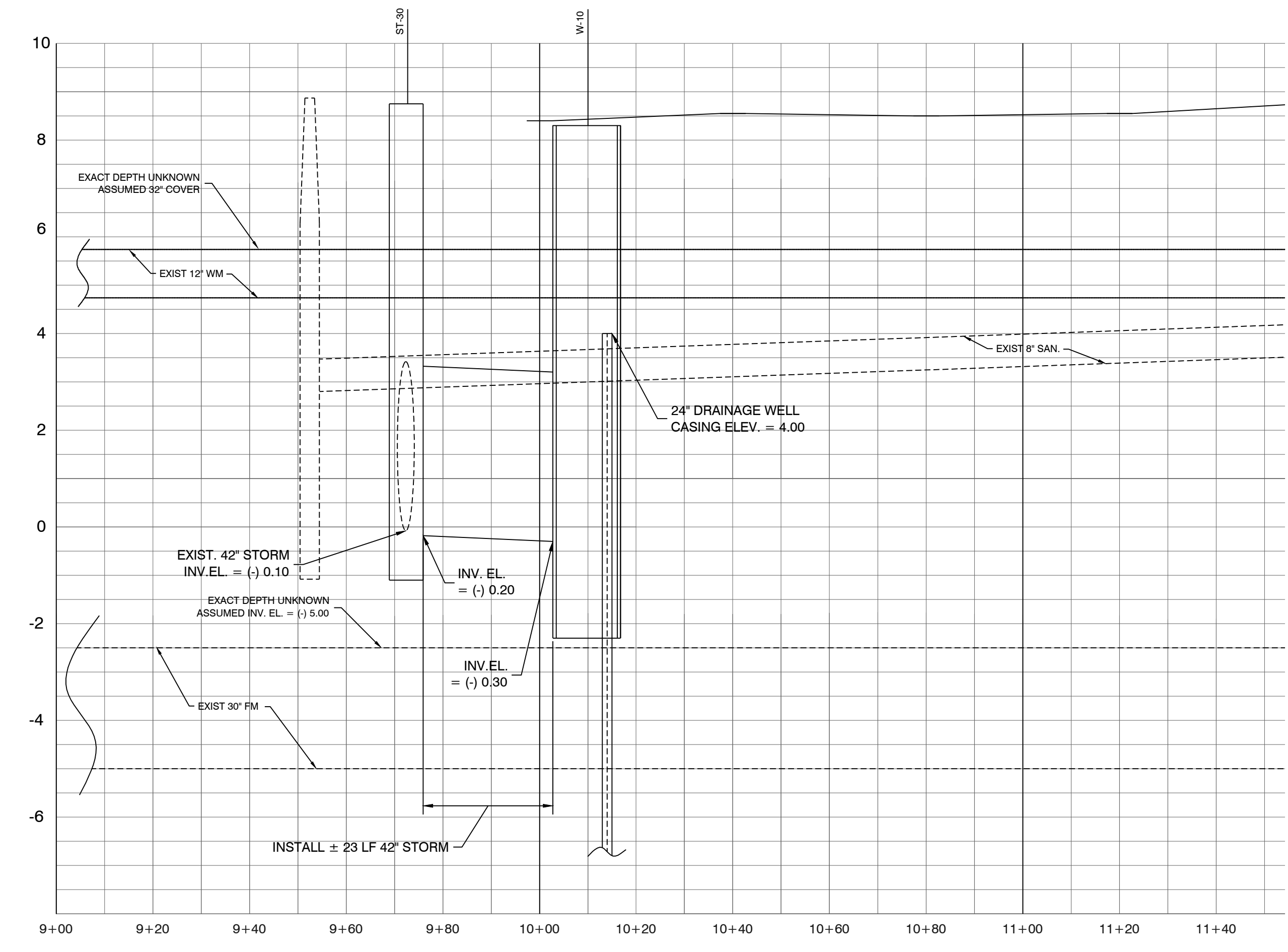
3121 FLAGLER AVE.

KEY WEST, FL 33040

JOB NO.	121001
DRAWN	RTM
DESIGNED	AEP
CHECKED	AEP
QC	
SHEET	



ADA ENLARGED PLAN A - FLEMING ST.
SCALE : 1" = 10'



- GENERAL NOTES:**
- LIMITS OF RECONSTRUCTION OF SIDEWALK, WITH THE CITY OF KEY WEST ROW, IS APPROXIMATE. ALL WORK SHALL TERMINATE AT THE NEAREST CONTROL JOINT.
 - ALL WATER MAIN RELOCATION WORK MUST BE DONE IN ACCORDANCE WITH FKA MINIMUM CONSTRUCTION STANDARDS AND SPECIFICATION AND ONLY WITH A REPRESENTATIVE OF THE FKA ON-SITE.

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December 14, 2012

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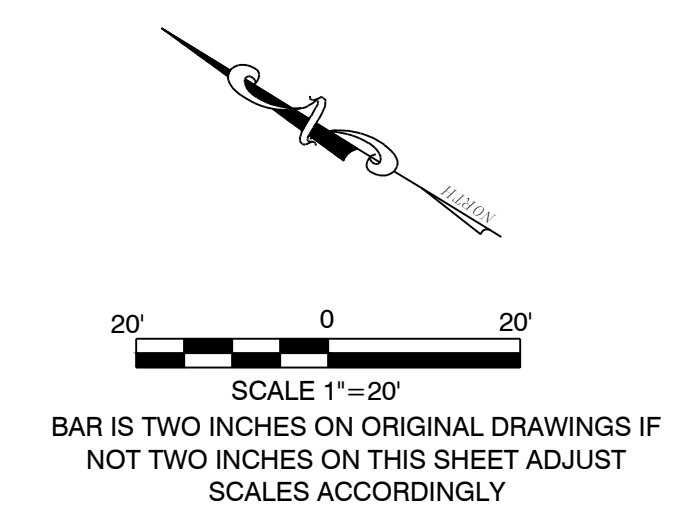
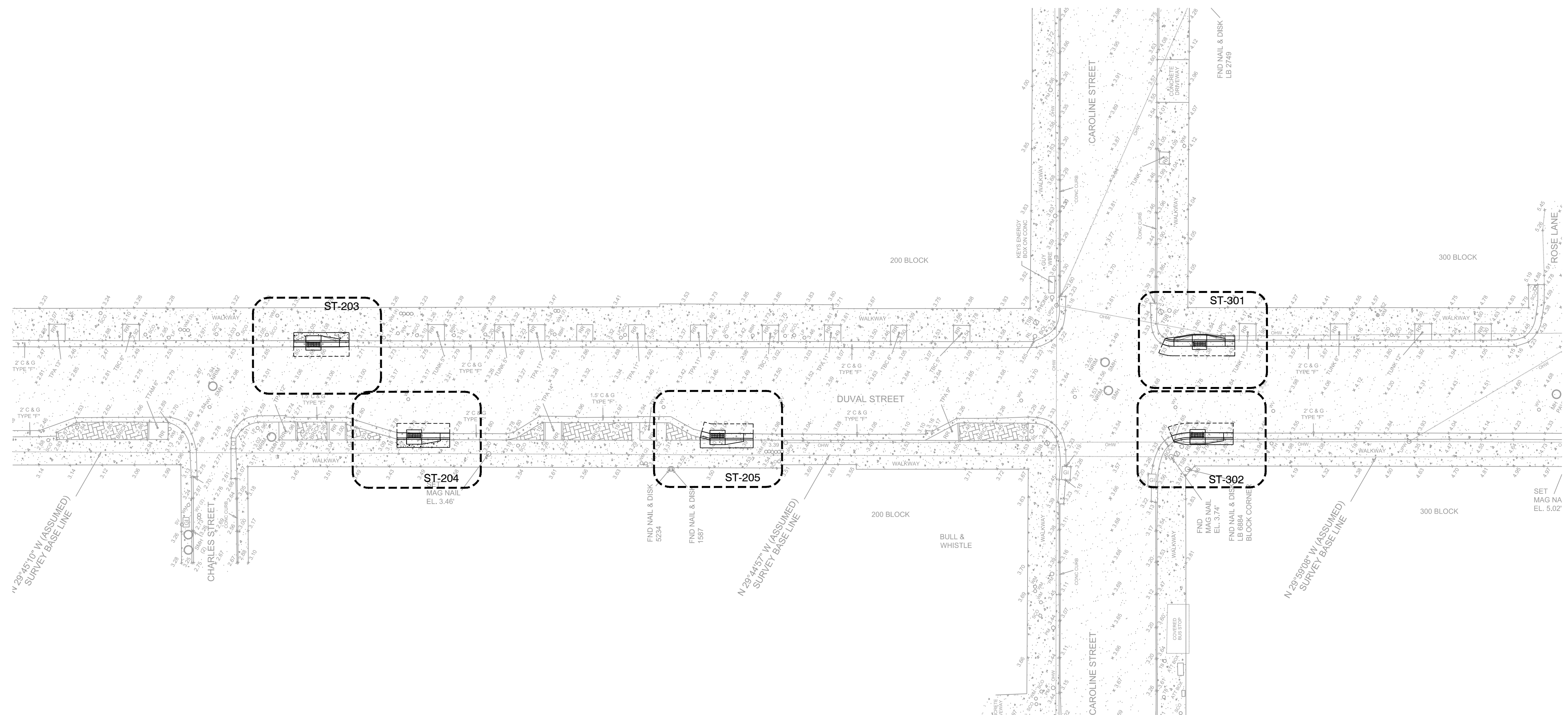
EAST FRONT ST. FLOOD MITIGATION PROJECT

FLEMING STREET
PLAN & PROFILE

CITY OF KEY WEST
3121 FLAGLER AVE.
KEY WEST, FL 33040

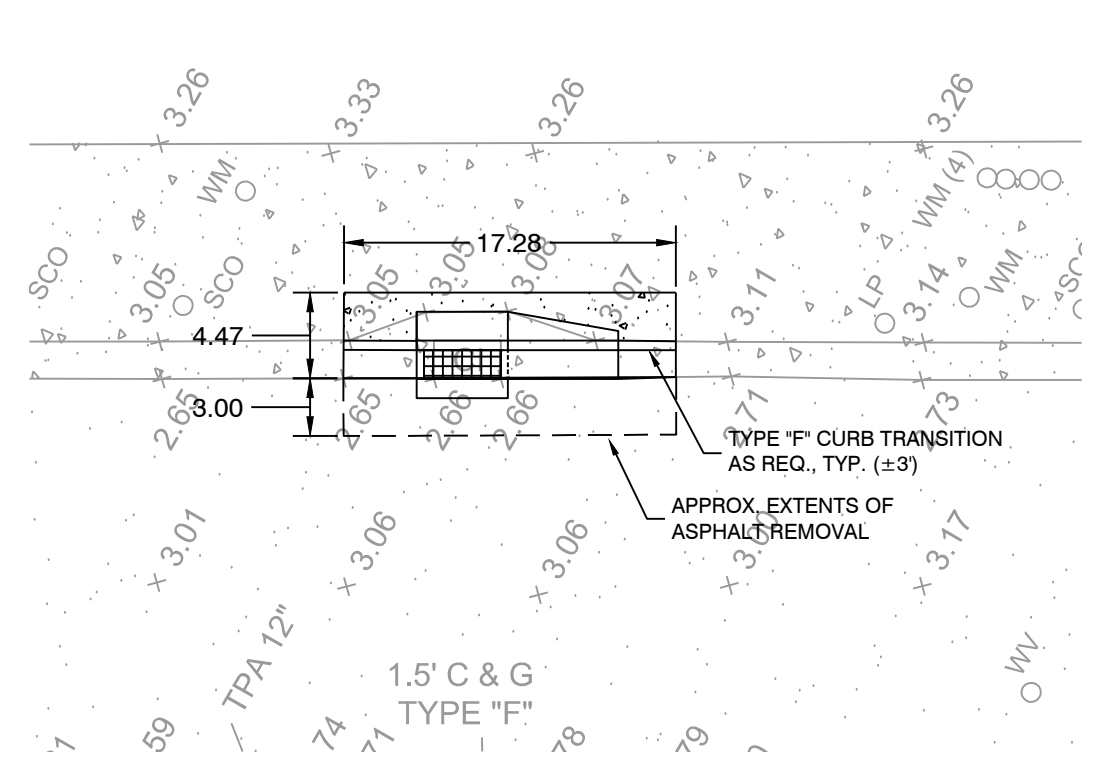
JOB NO.	121001
DRAWN	RTM
DESIGNED	AEP
CHECKED	AEP
QC	
SHEET	

PROFILE SCALE:
SCALE HORIZONTAL: 1"=20'
SCALE VERTICAL: 1"=2'



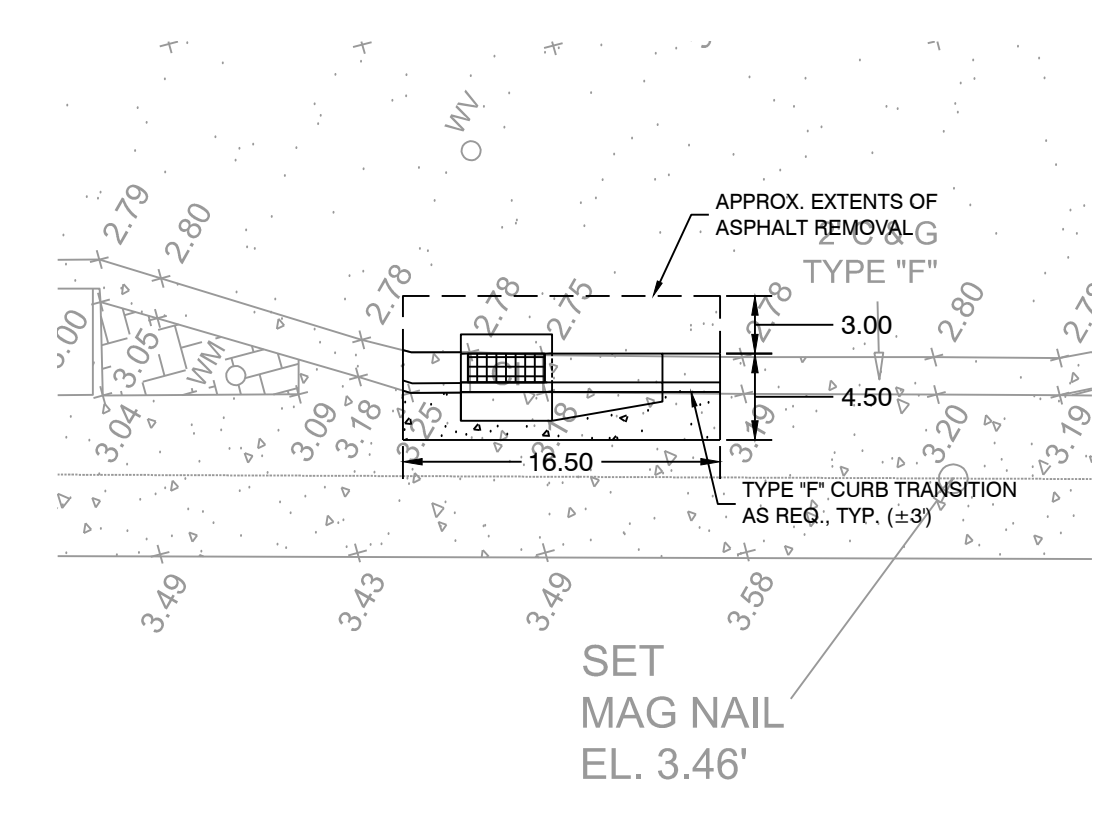
ST- 203

- REMOVE EXIST CURB INLET TOP
 - PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
 - INSTALL FDOT TYPE 5 CURB INLET TOP
- G.E. = 2.66



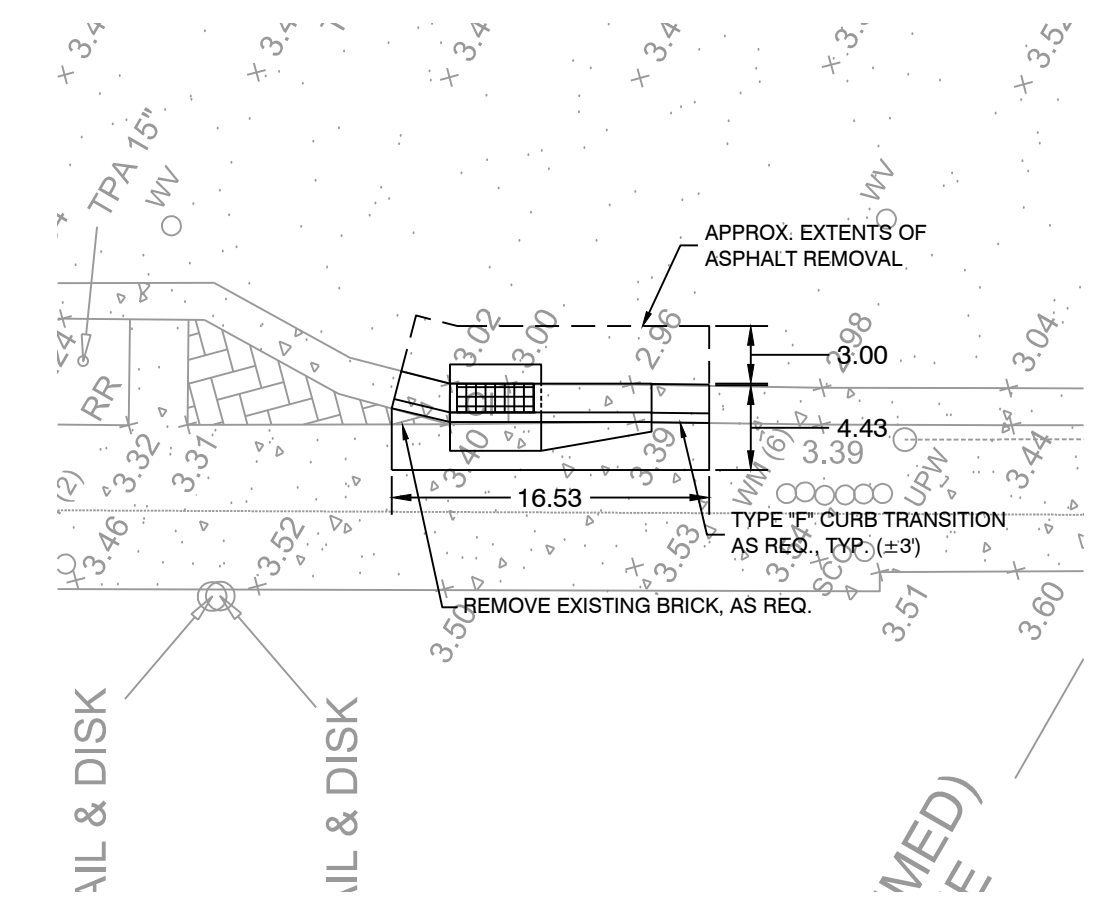
ST- 204

- REMOVE EXIST CURB INLET TOP
 - PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
 - INSTALL FDOT TYPE 5 CURB INLET TOP
- G.E. = 2.75



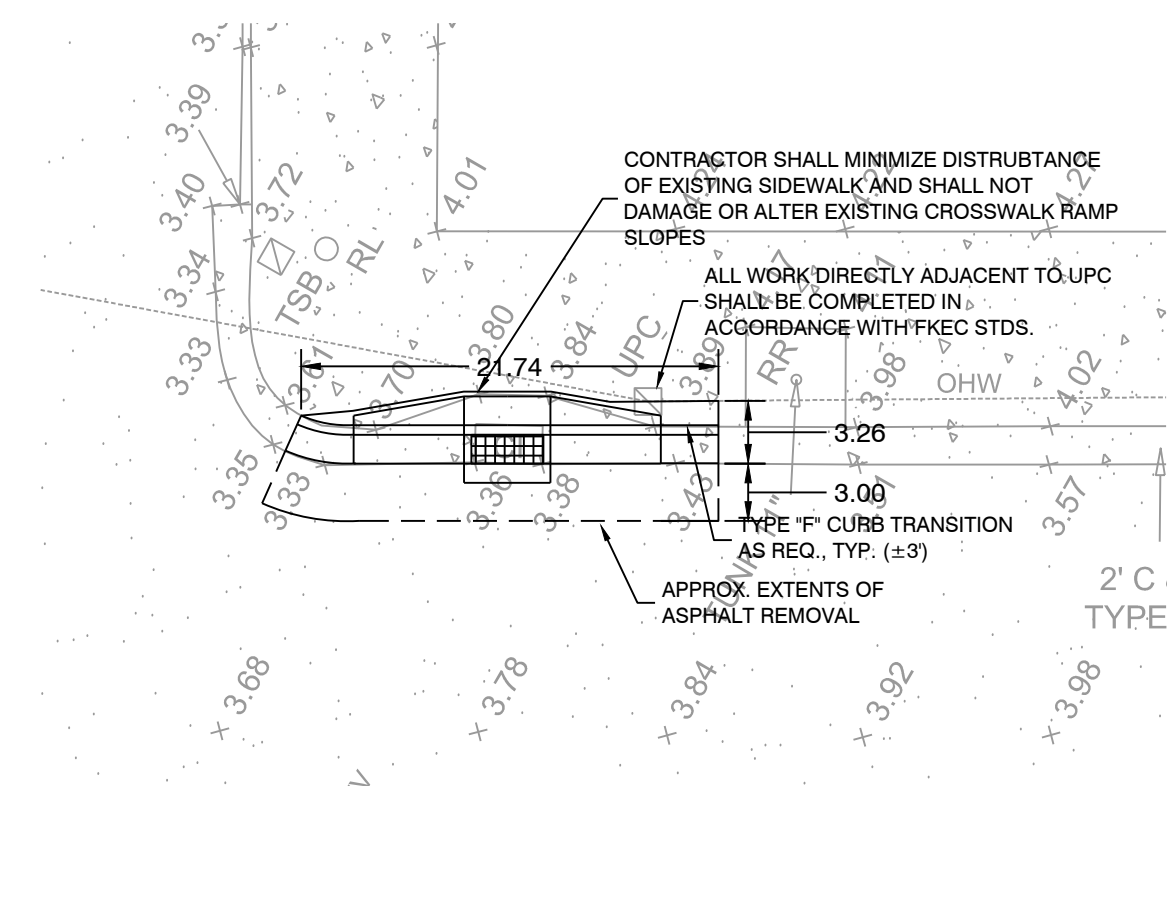
ST- 205

- REMOVE EXIST CURB INLET TOP
 - BRICK PAVER REMOVAL
 - PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
 - INSTALL FDOT TYPE 5 CURB INLET TOP
- G.E. = 2.95



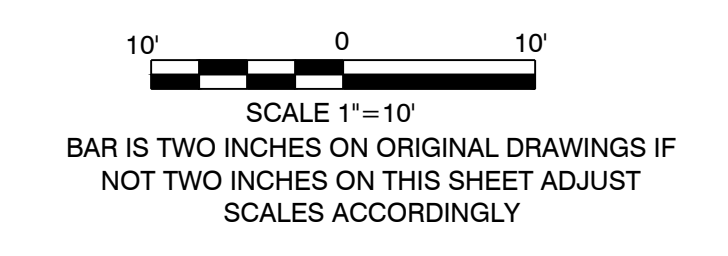
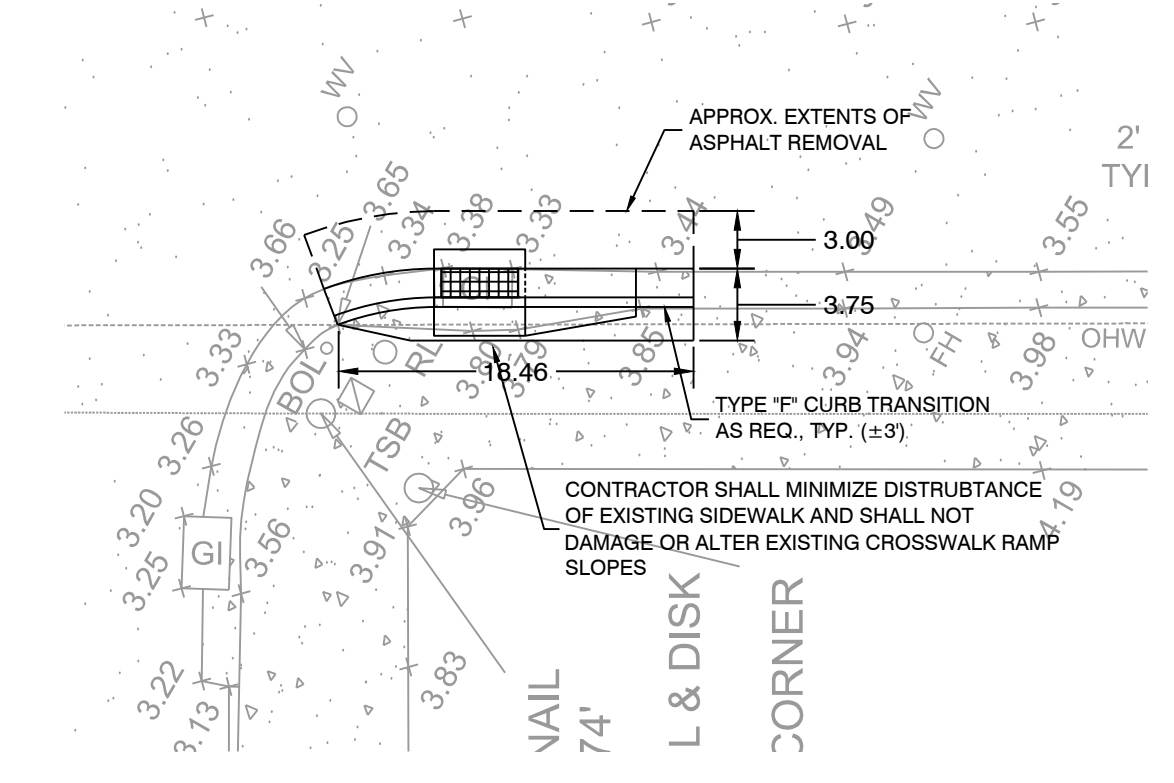
ST- 301

- REMOVE EXIST CURB INLET TOP
 - PROVIDE TEMPORARY UPC SUPPORT AS NECESSARY
 - PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
 - INSTALL FDOT TYPE 6 CURB INLET TOP
- G.E. = 3.35



ST- 302

- REMOVE EXIST CURB INLET TOP
 - REMOVE / RECONSTRUCT CORNER RADIUS / ADA IMPROVEMENTS
 - PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
 - INSTALL FDOT TYPE 6 CURB INLET TOP
- G.E. = 3.35



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PEREZ ENGINEERING & DEVELOPMENT, INC.

ALLEN E. PEREZ, P.E.
Florida P.E. NO. 51468
December 14, 2012

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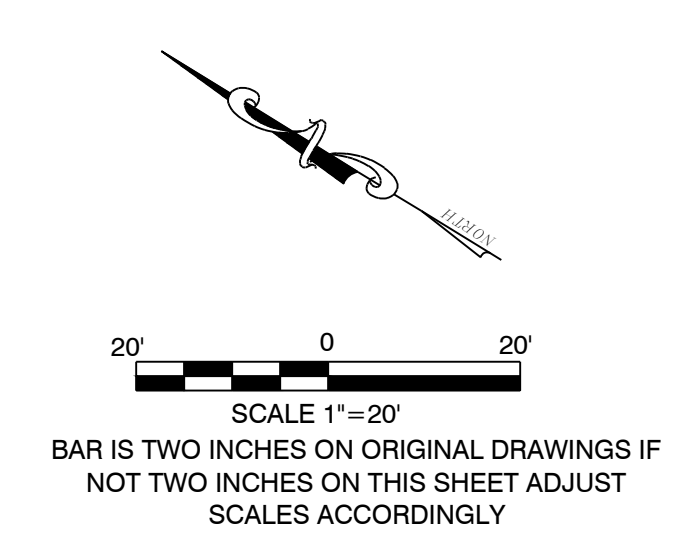
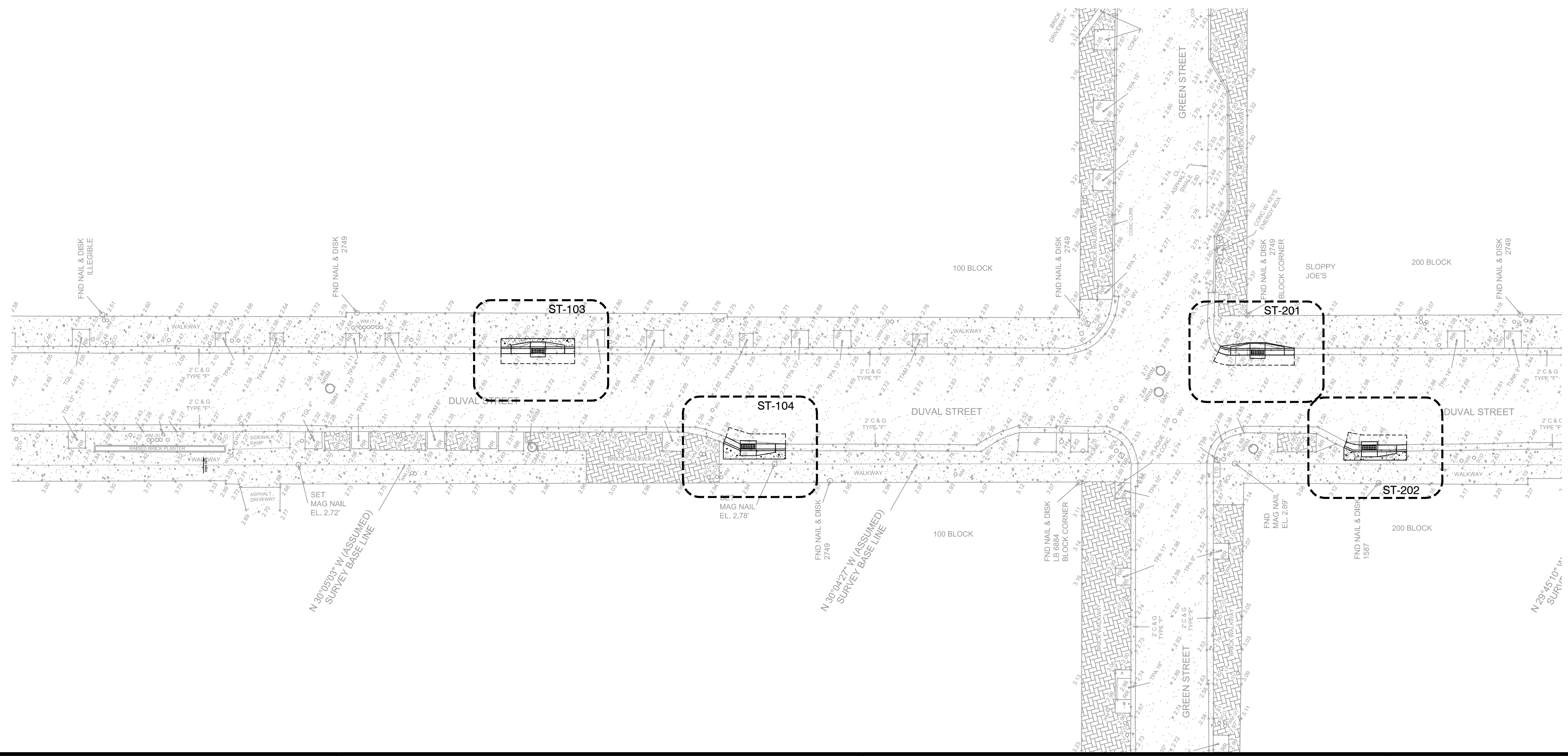
REVISIONS:

EAST FRONT ST. FLOOD MITIGATION PROJECT

DUVAL STREET CORRIDOR

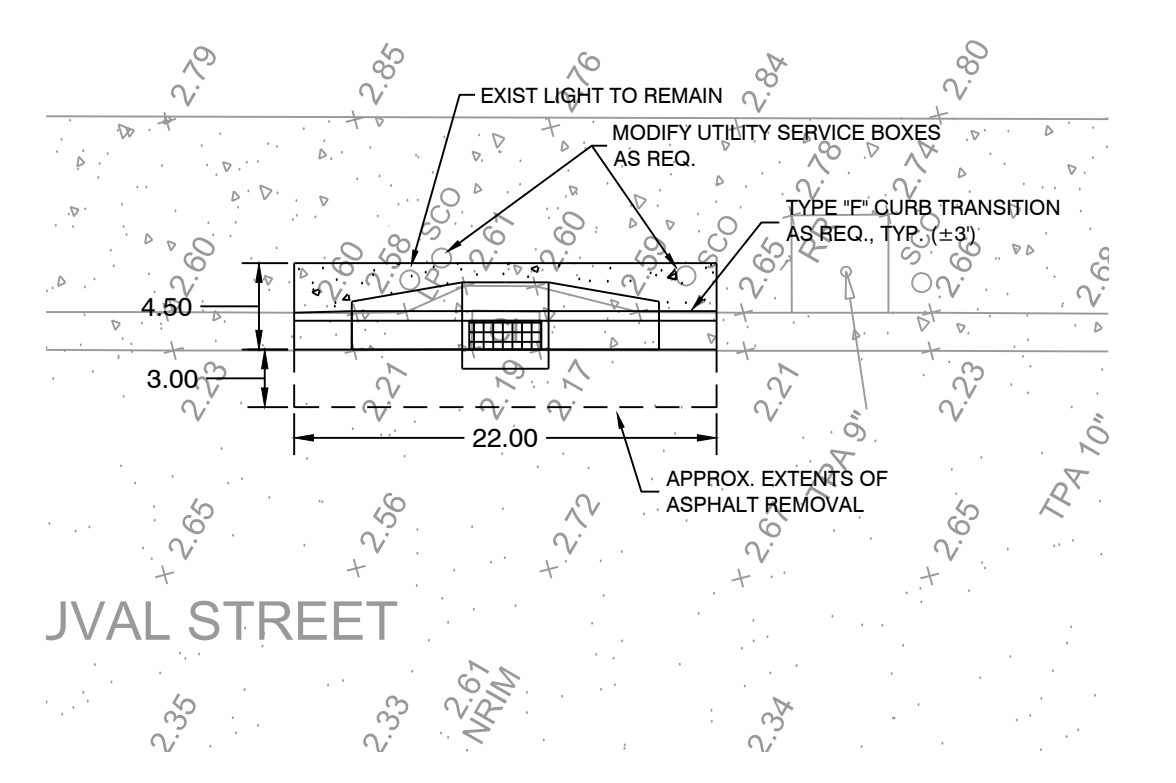
CITY OF KEY WEST
3121 FLAGLER AVE.
KEY WEST, FL 33040

JOB NO.	121001
DRAWN	RTM
DESIGNED	AEP
CHECKED	AEP
QC	
SHEET	C-16



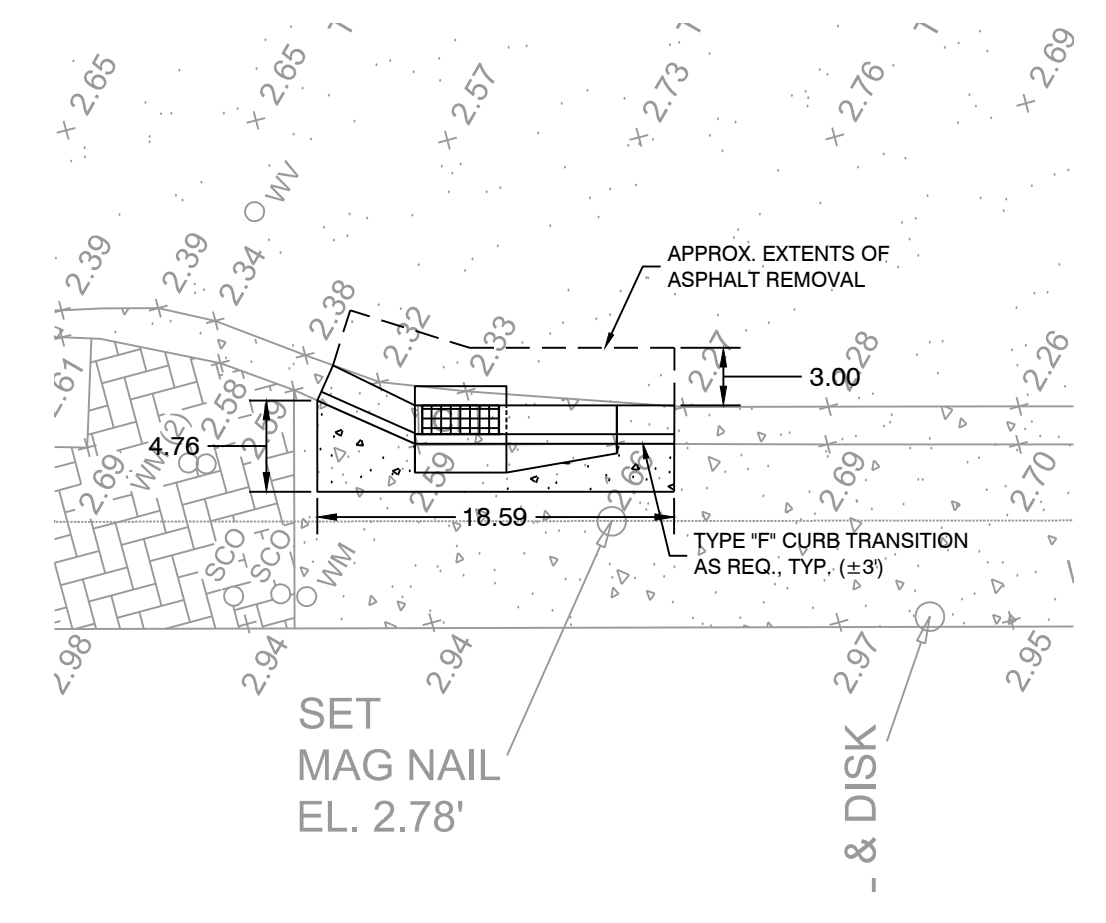
ST- 103

- REMOVE EXIST CURB INLET TOP
- REMOVE / RELOCATE LIGHT POLE
- ADJUST WM / SEWER CLEANOUT BOXES, AS REQUIRED
- PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
- INSTALL FDOT TYPE 6 CURB INLET TOP
G.E. = 2.19



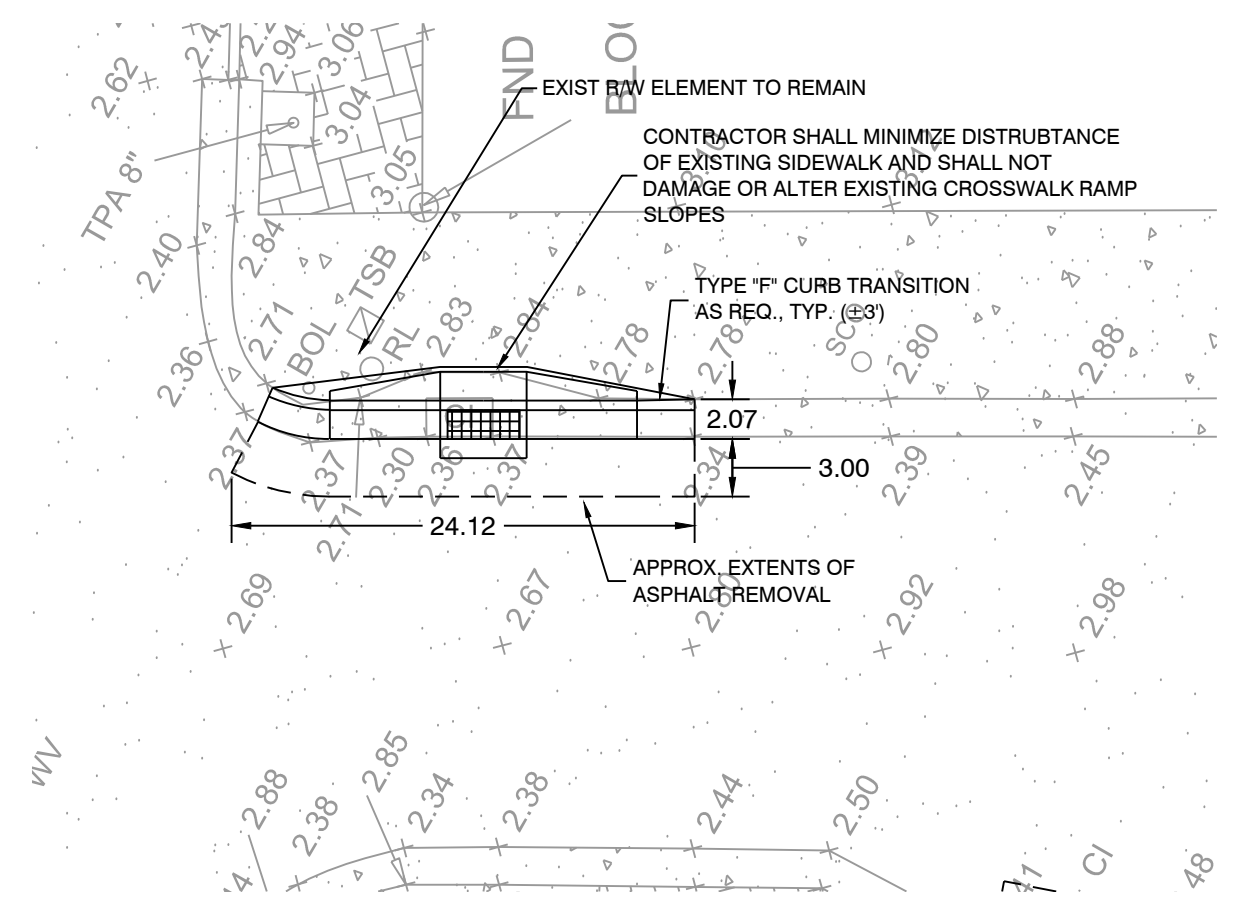
ST- 104

- REMOVE EXIST CURB INLET TOP
- PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
- INSTALL FDOT TYPE 5 CURB INLET TOP
G.E. = 2.30



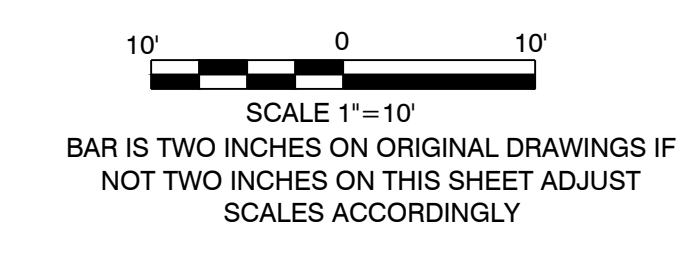
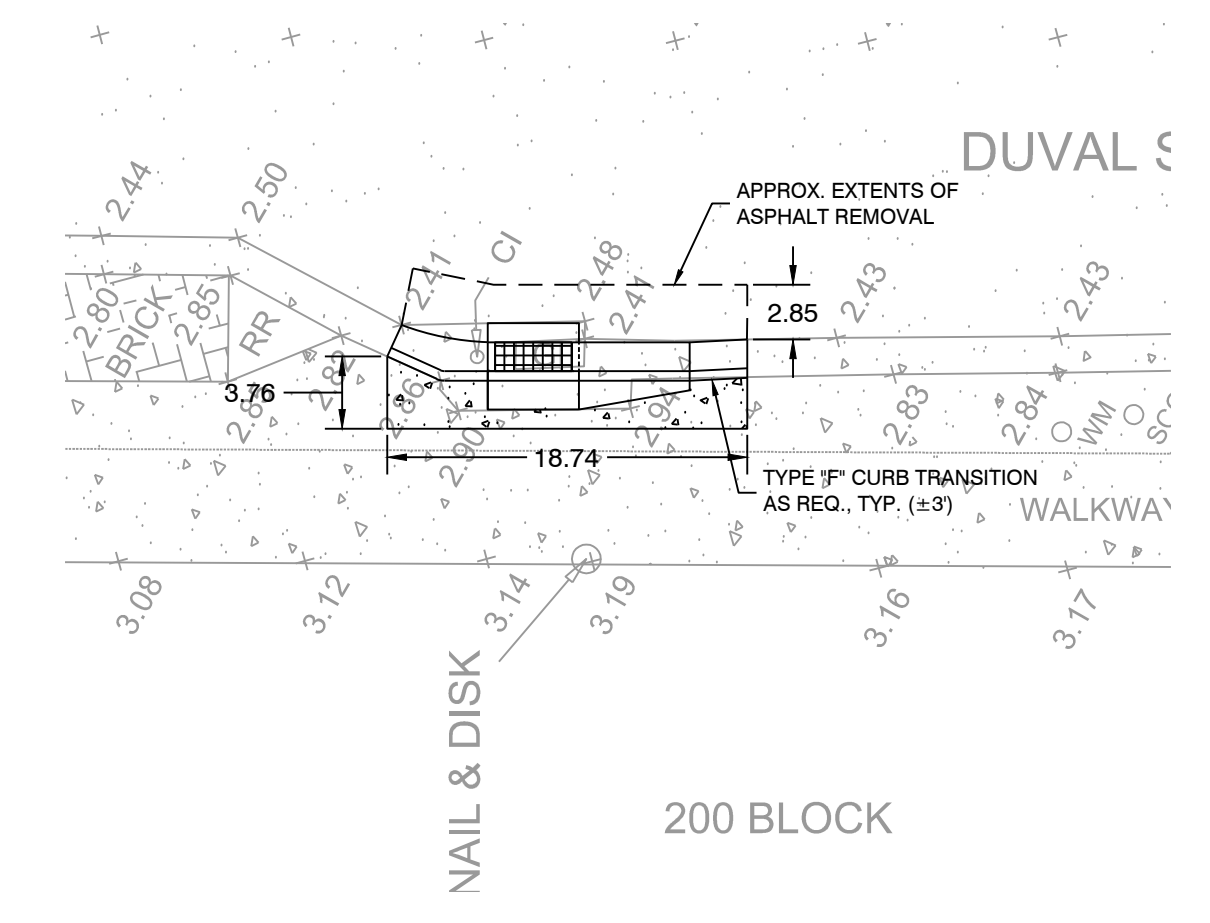
ST- 201

- REMOVE EXIST CURB INLET TOP
- ADJUST ELECTRICAL / TRAFFIC CONTROL/ WM / SEWER CLEANOUT BOXES, AS REQUIRED
- PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
- INSTALL FDOT TYPE 6 CURB INLET TOP
G.E. = 2.30



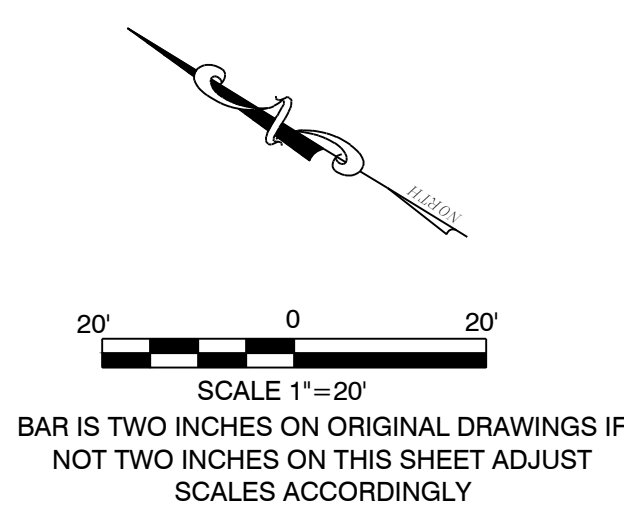
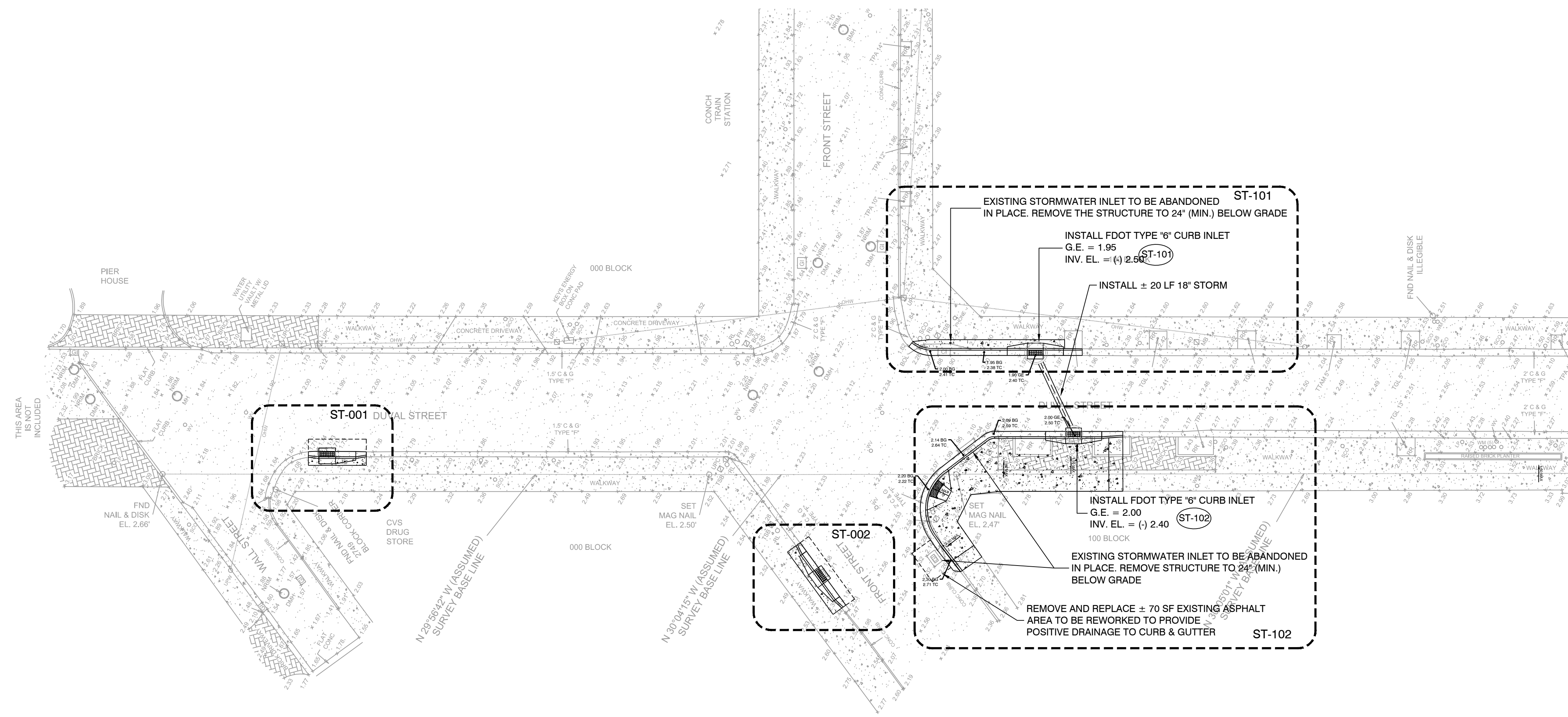
ST- 202

- REMOVE EXIST CURB INLET TOP
- PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
- INSTALL FDOT TYPE 5 CURB INLET TOP
G.E. = 2.41



REVISIONS:

1	ORIGINAL - SEPTEMBER 2012
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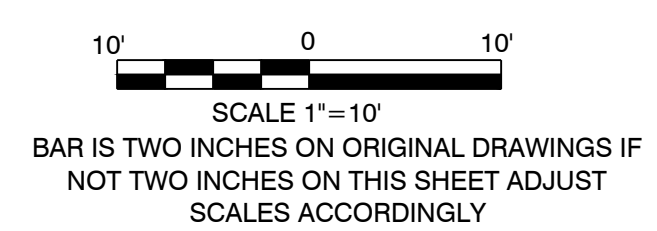
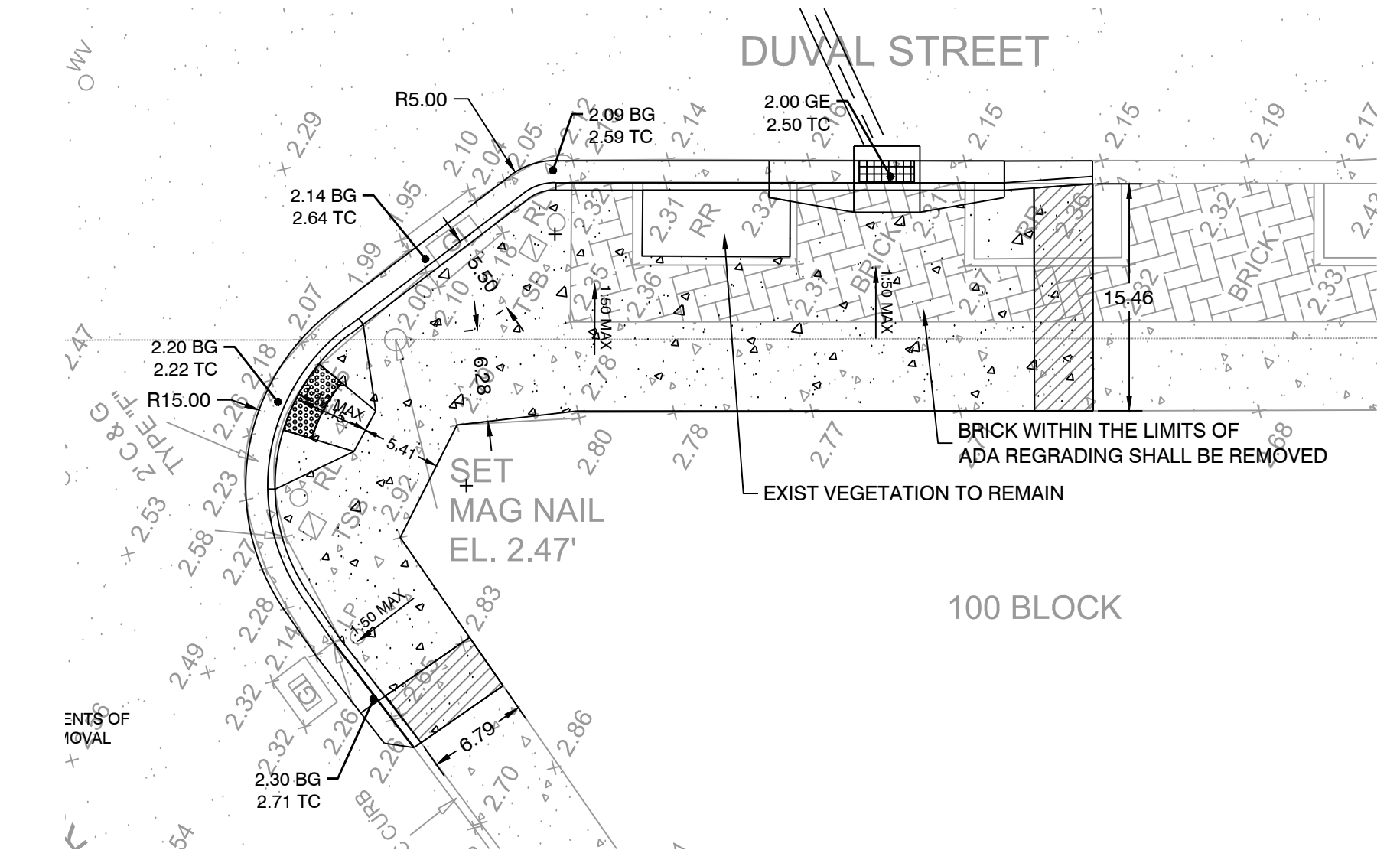
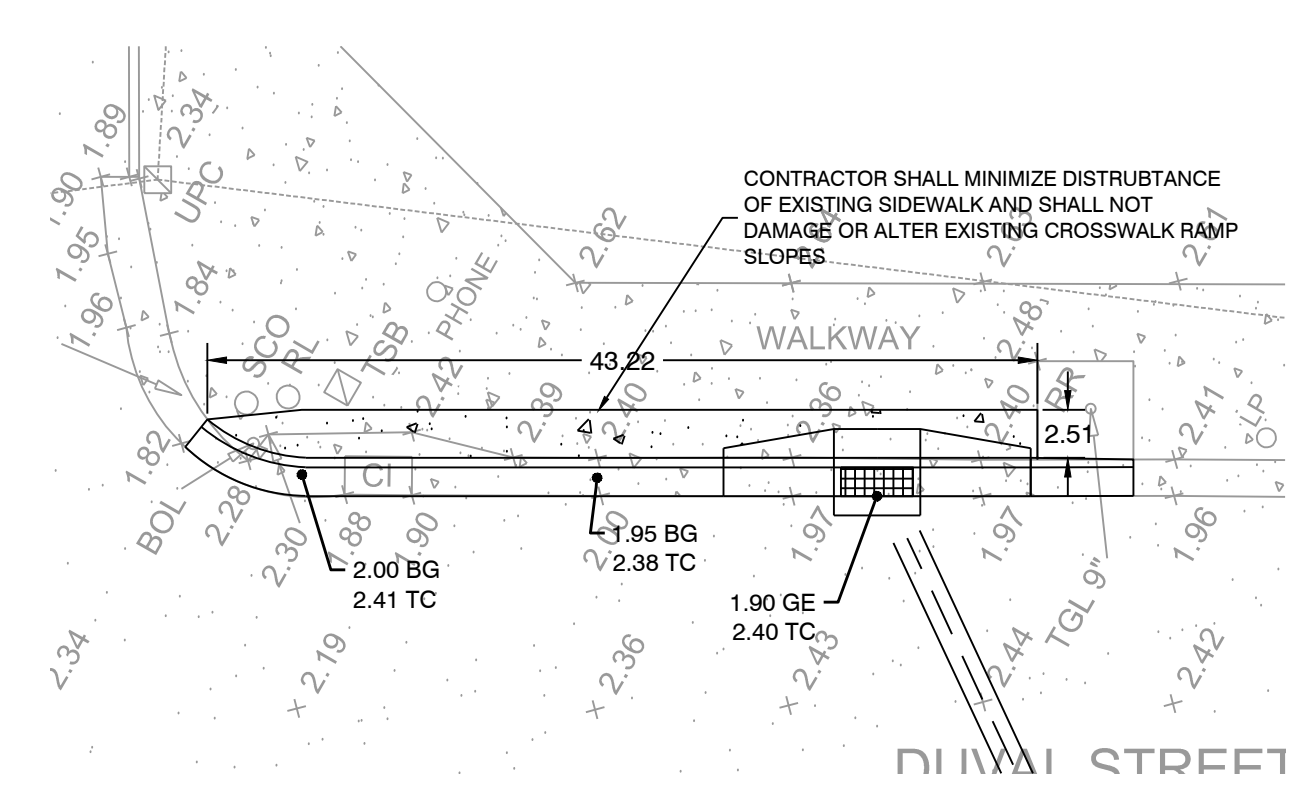
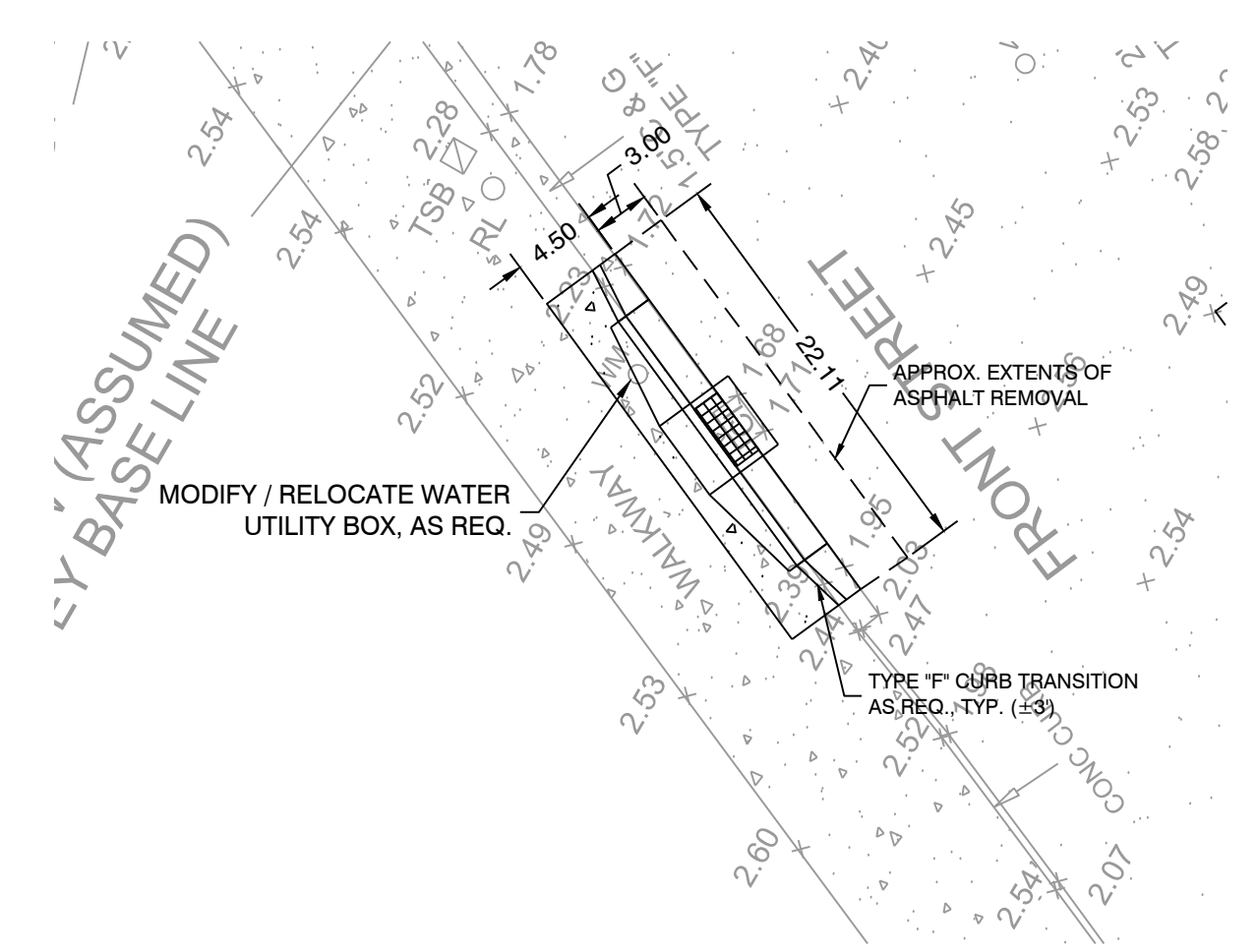
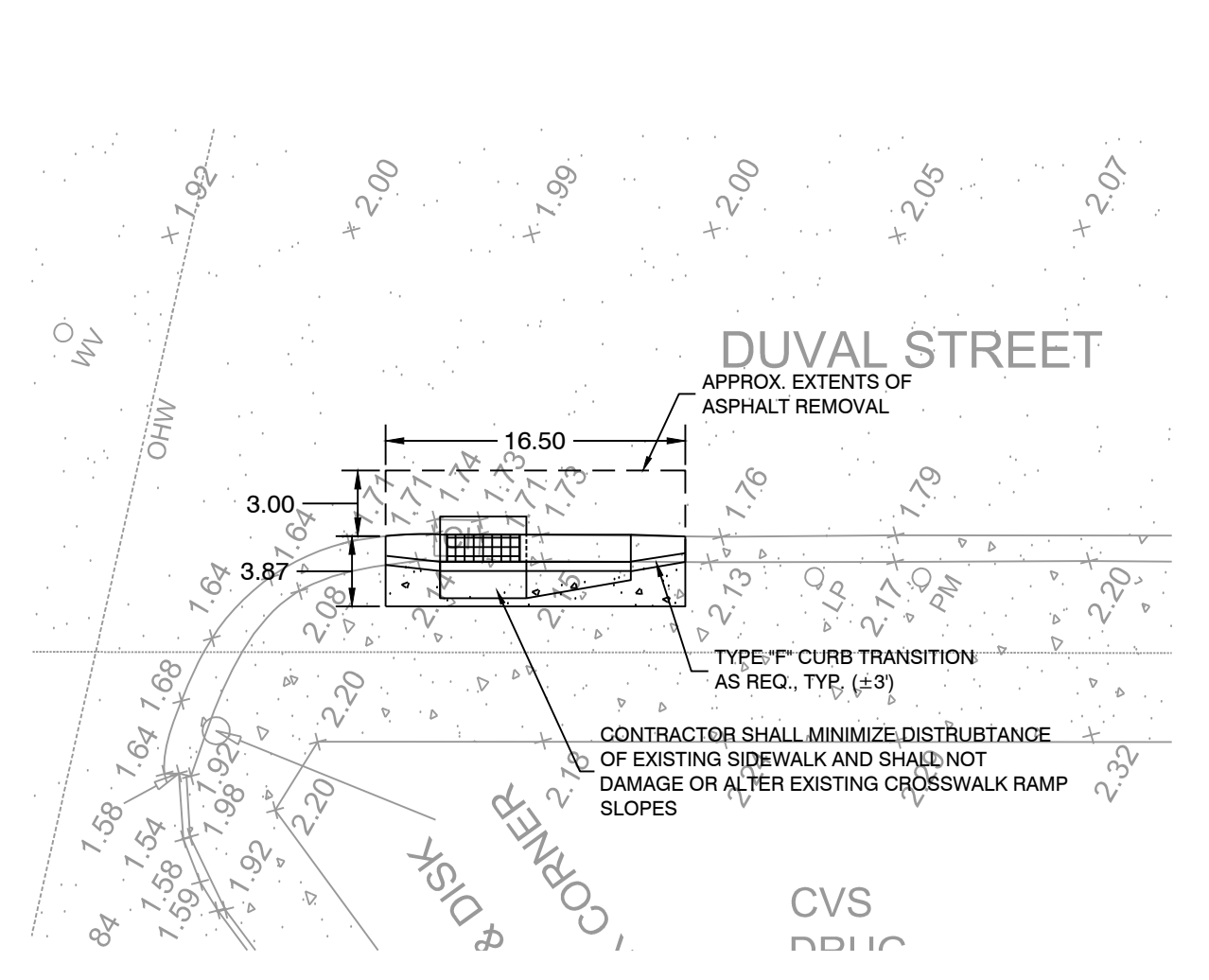


- ST- 001**
- REMOVE EXIST CURB INLET TOP
 - PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
 - INSTALL FDOT TYPE 5 CURB INLET TOP
G.E. = 1.70

- ST- 002**
- REMOVE EXIST CURB INLET TOP
 - ADJUST WATER UTILITY BOX, AS REQUIRED
 - PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
 - INSTALL FDOT TYPE 6 CURB INLET TOP
G.E. = 1.65

- ST- 101**
- REMOVE EXIST CURB INLET TOP AND ABANDON STRUCTURE TO 24" (MIN.) BELOW GRADE
 - PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
 - INSTALL FDOT TYPE 6 CURB INLET TOP AND STRUCTURE BOTTOM

- **ST- 102**
- REMOVE EXIST DITCH BOTTOM INLET TOP AND ABANDON STRUCTURE TO 24" (MIN.) BELOW GRADE
- PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
- INSTALL FDOT TYPE 6 CURB INLET TOP AND STRUCTURE BOTTOM



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TEL: (813) 579-1515 FAX: (813) 285-0710

PEREZ ENGINEERING & DEVELOPMENT, INC.

ALLEN E. PEREZ, P.E.
Florida P.E. NO. 51468
December 14, 2012

REVISIONS:

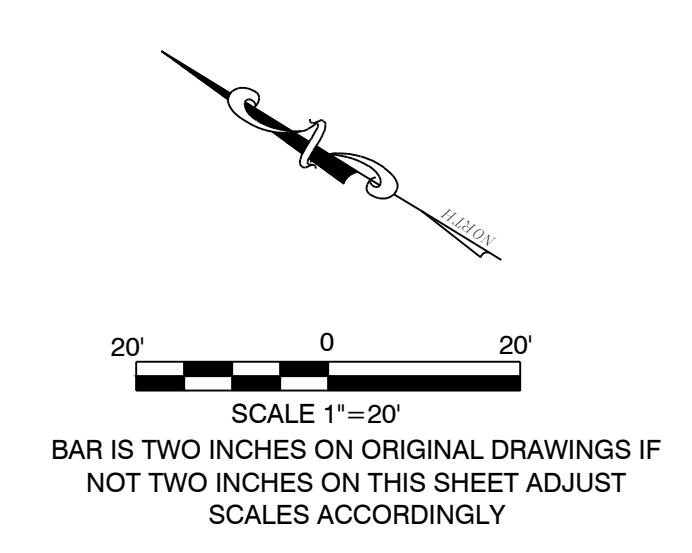
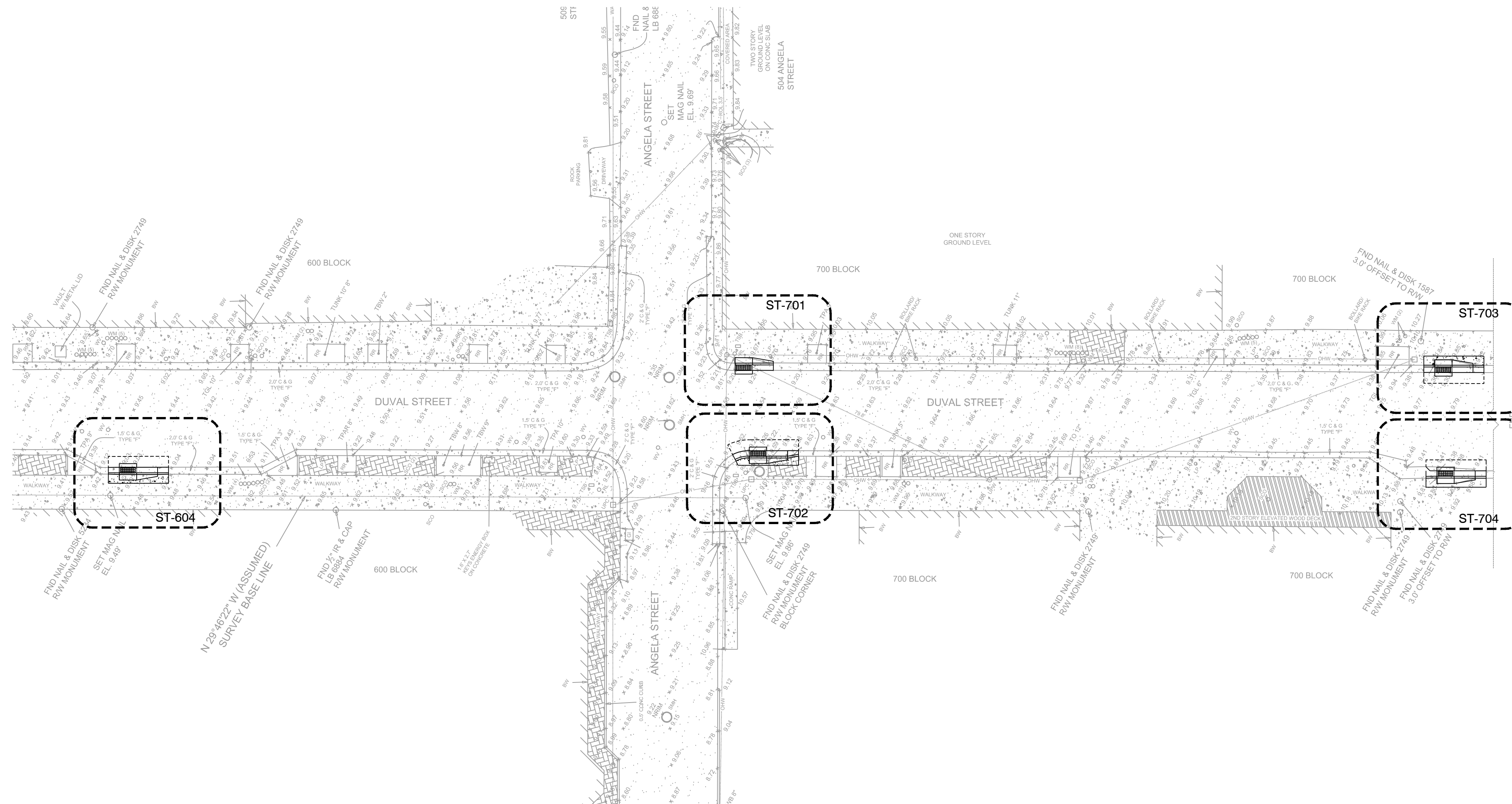
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EAST FRONT ST. FLOOD MITIGATION PROJECT

CITY OF KEY WEST
3121 FLAGLER AVE.
KEY WEST, FL 33040

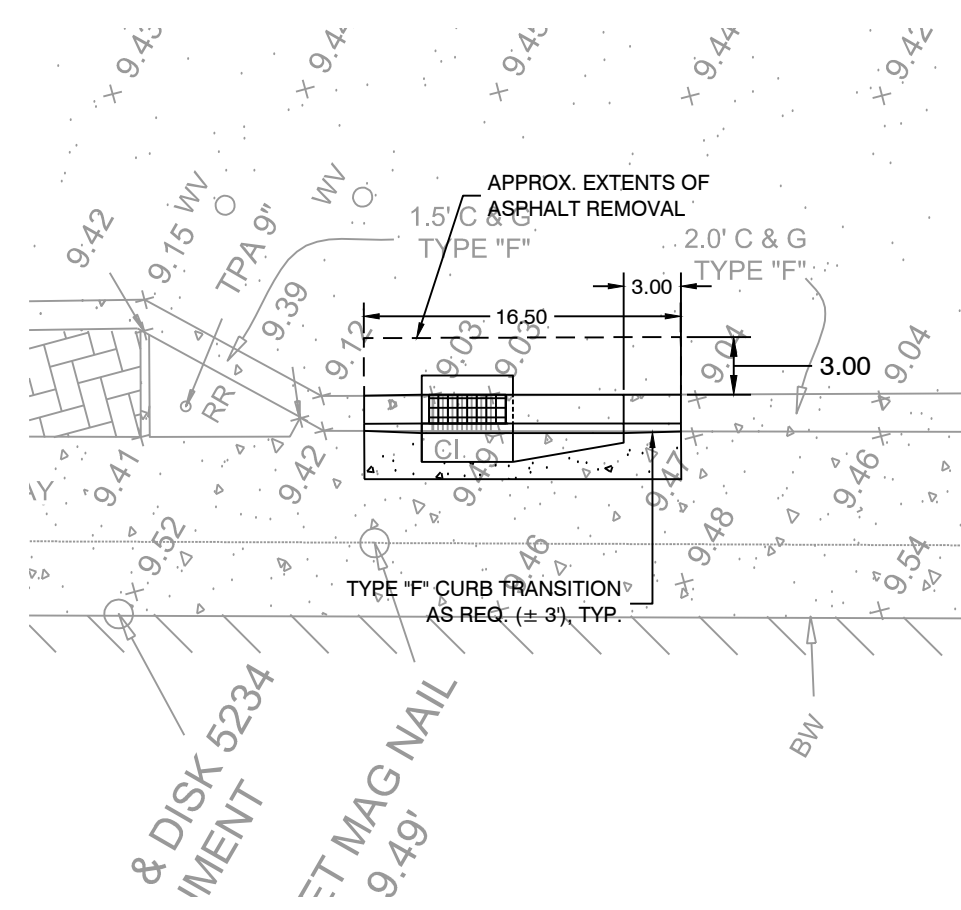
DUVAL STREET CORRIDOR

JOB NO.	121001
DRAWN	RTM
DESIGNED	AEP
CHECKED	AEP
QC	
SHEET	C-14



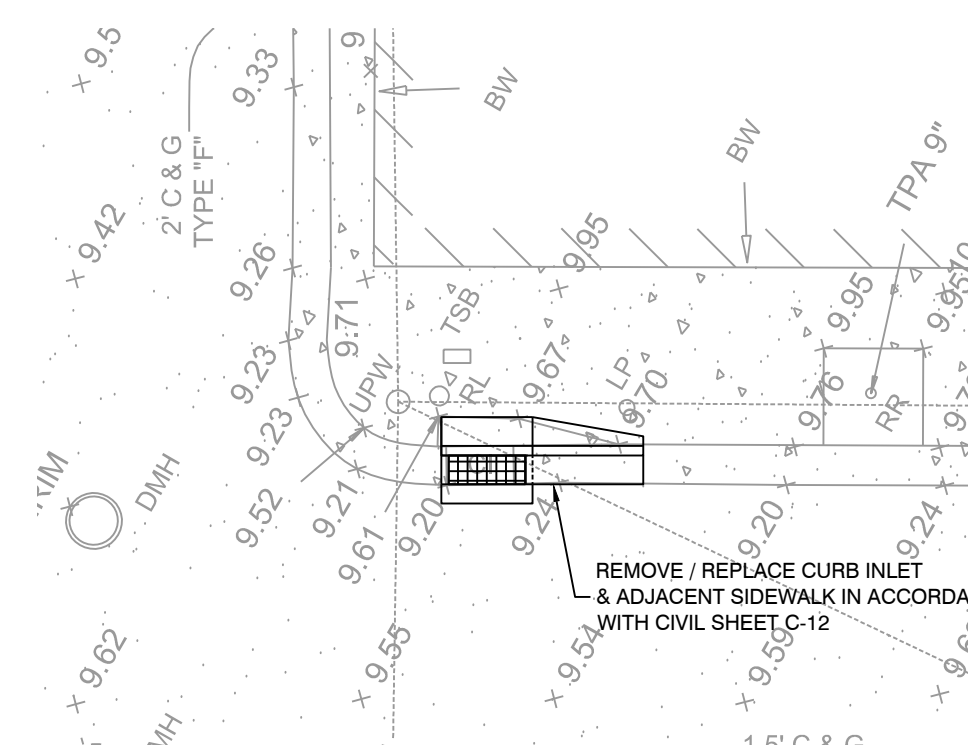
ST- 604

- REMOVE EXIST CURB INLET TOP
 - PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
 - INSTALL FDOT TYPE 5 CURB INLET TOP
- G.E. = 9.03



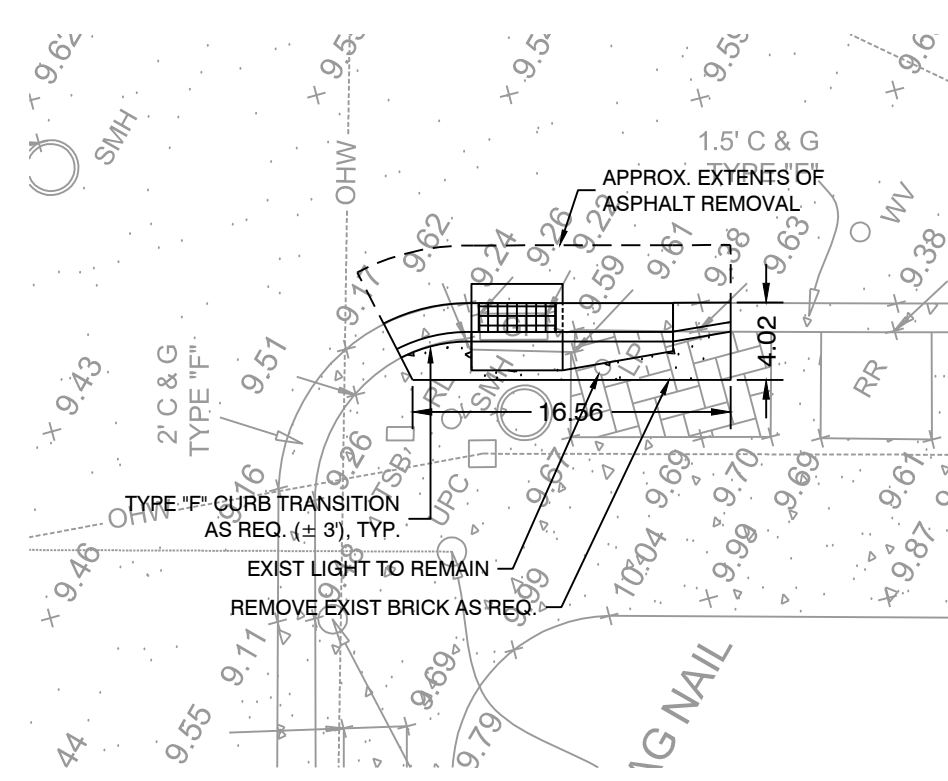
ST- 701

- REMOVE EXIST CURB INLET TOP
 - PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
 - INSTALL FDOT TYPE 5 CURB INLET TOP
- G.E. = 9.22



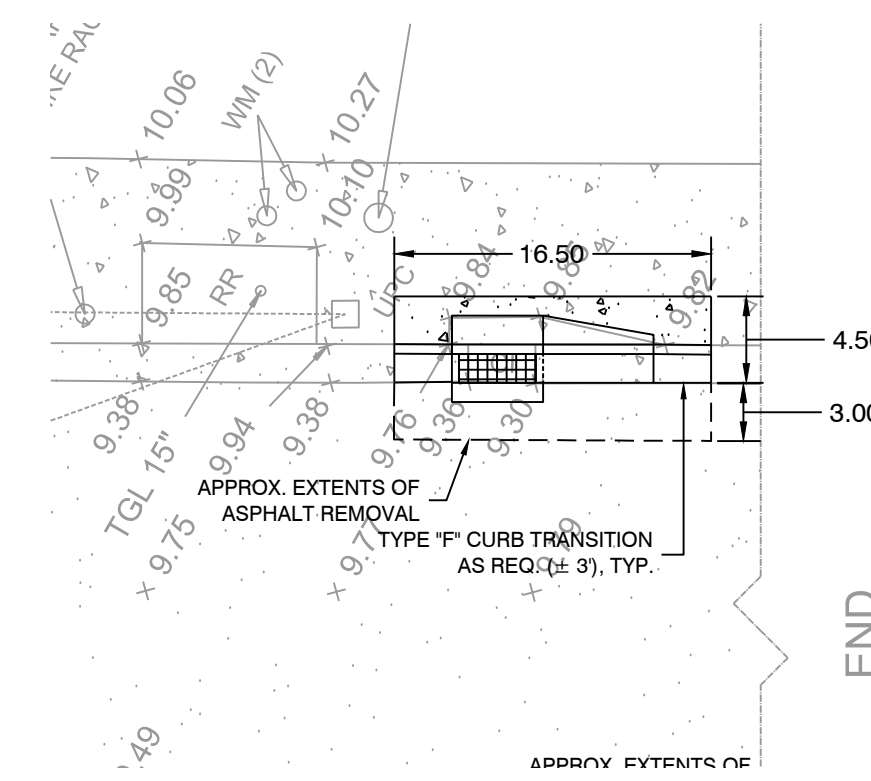
ST- 702

- REMOVE EXIST DITCH BOTTOM INLET
 - REMOVE BRICK, AS REQUIRED
 - RELOCATE EXIST LIGHT POLE
 - PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
 - INSTALL FDOT TYPE 5 CURB INLET TOP
- G.E. = 9.22



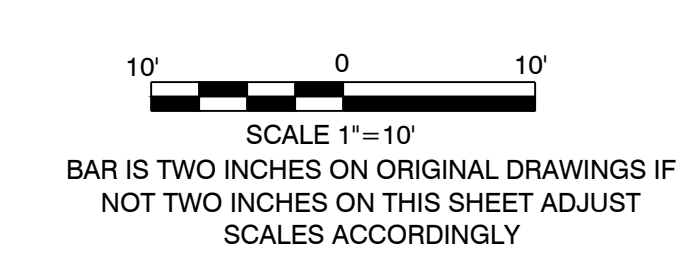
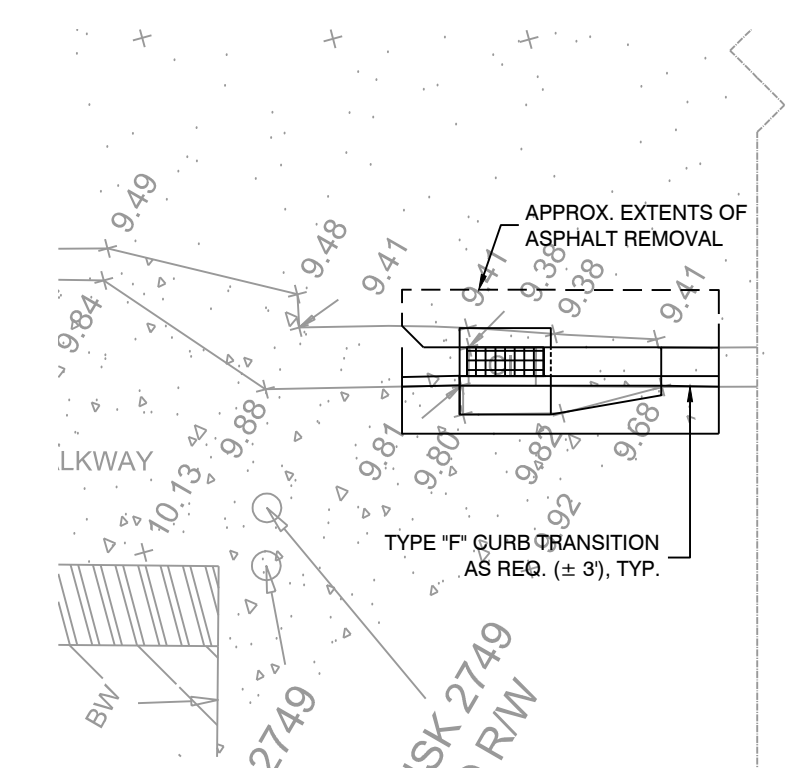
ST- 703

- REMOVE EXIST CURB INLET TOP
 - PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
 - INSTALL FDOT TYPE 5 CURB INLET TOP
- G.E. = 9.32



ST- 704

- REMOVE EXIST CURB INLET TOP
 - PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
 - INSTALL FDOT TYPE 5 CURB INLET TOP
- G.E. = 9.38



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Perez Engineering & Development, Inc.

ALLEN E. PEREZ, P.E.
Florida P.E. No. 51468
December 14, 2012

ORIGINAL - SEPTEMBER 2012

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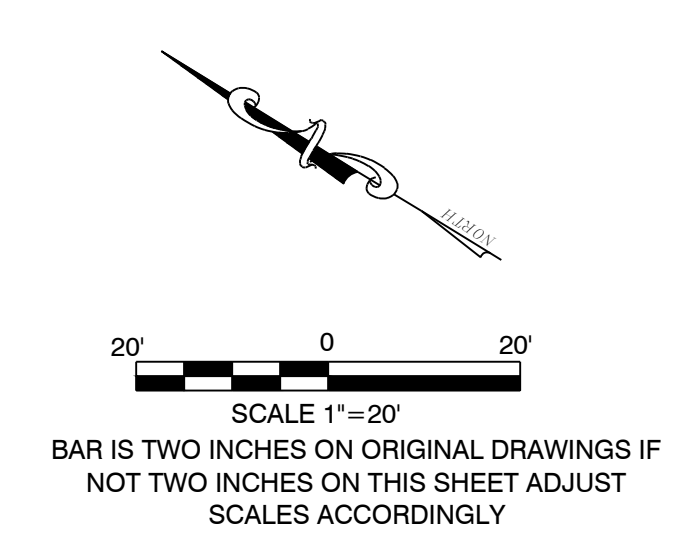
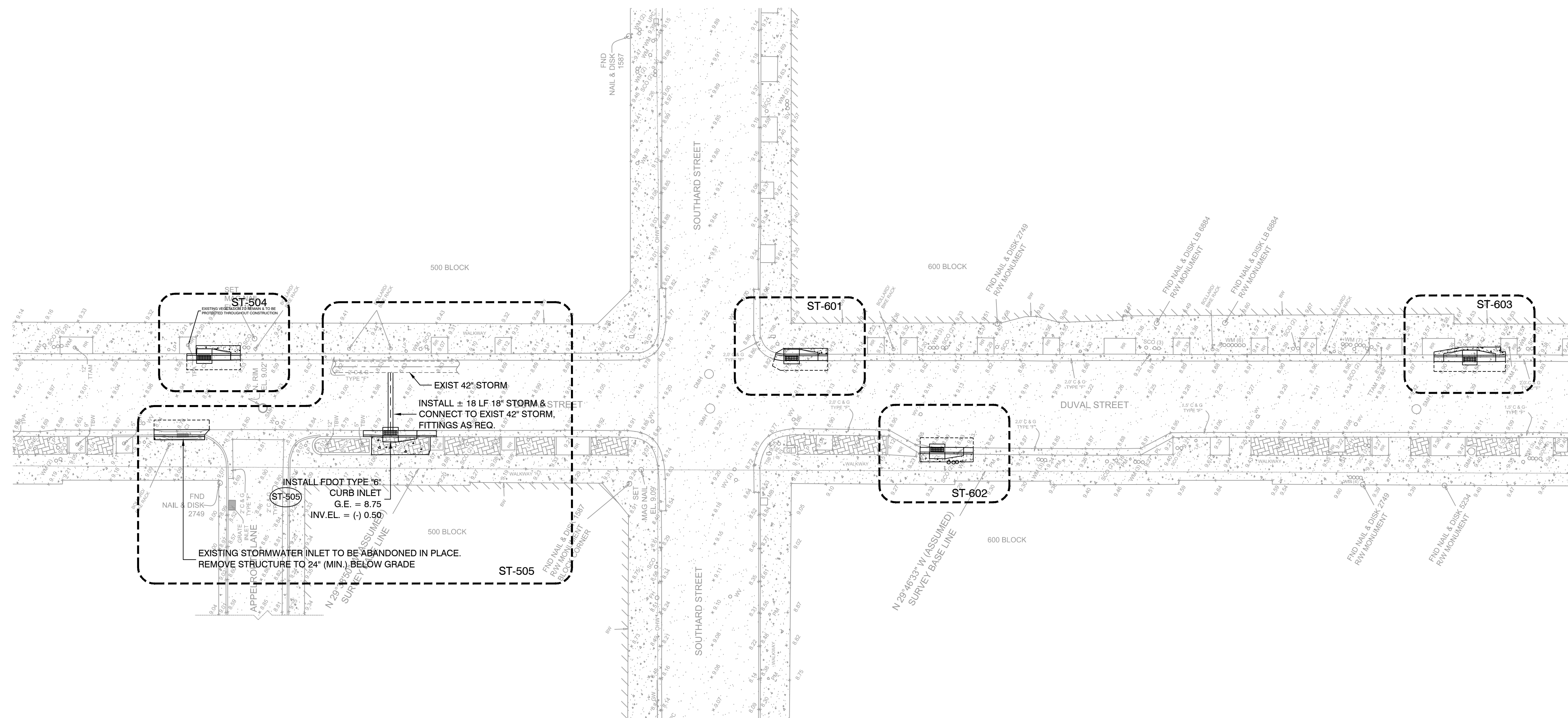
REVISIONS:

EAST FRONT ST. FLOOD MITIGATION PROJECT

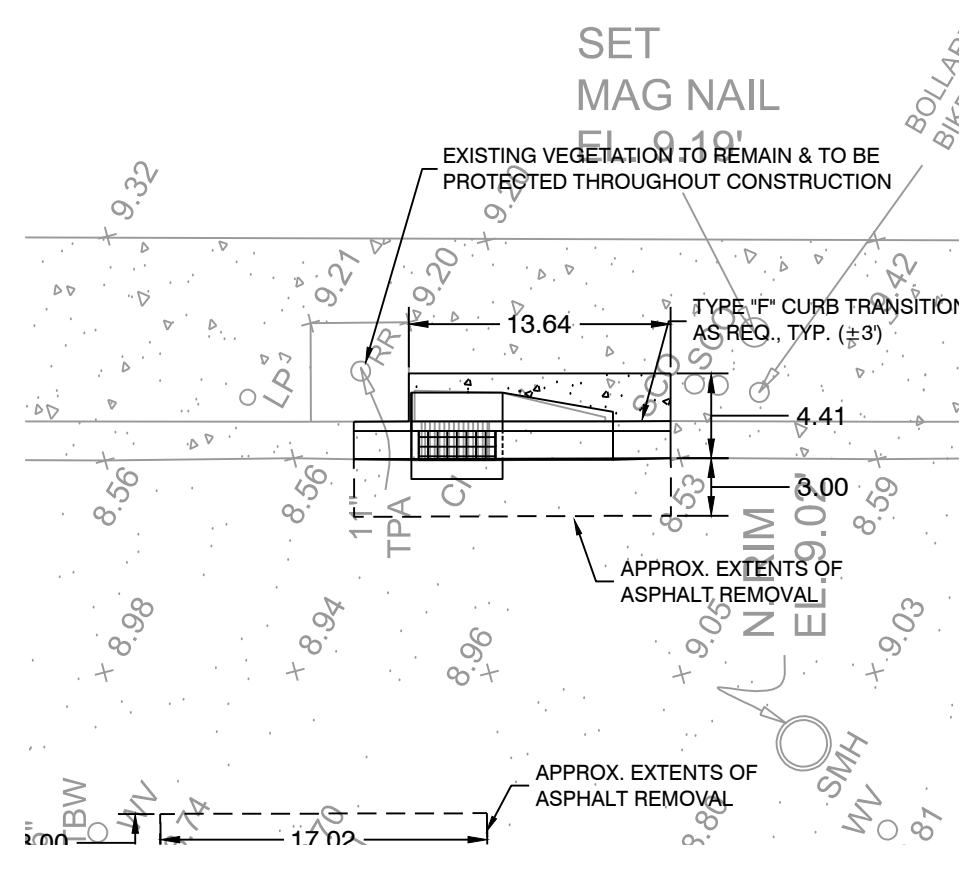
DUVAL STREET CORRIDOR

CITY OF KEY WEST
3121 FLAGLER AVE.
KEY WEST, FL 33040

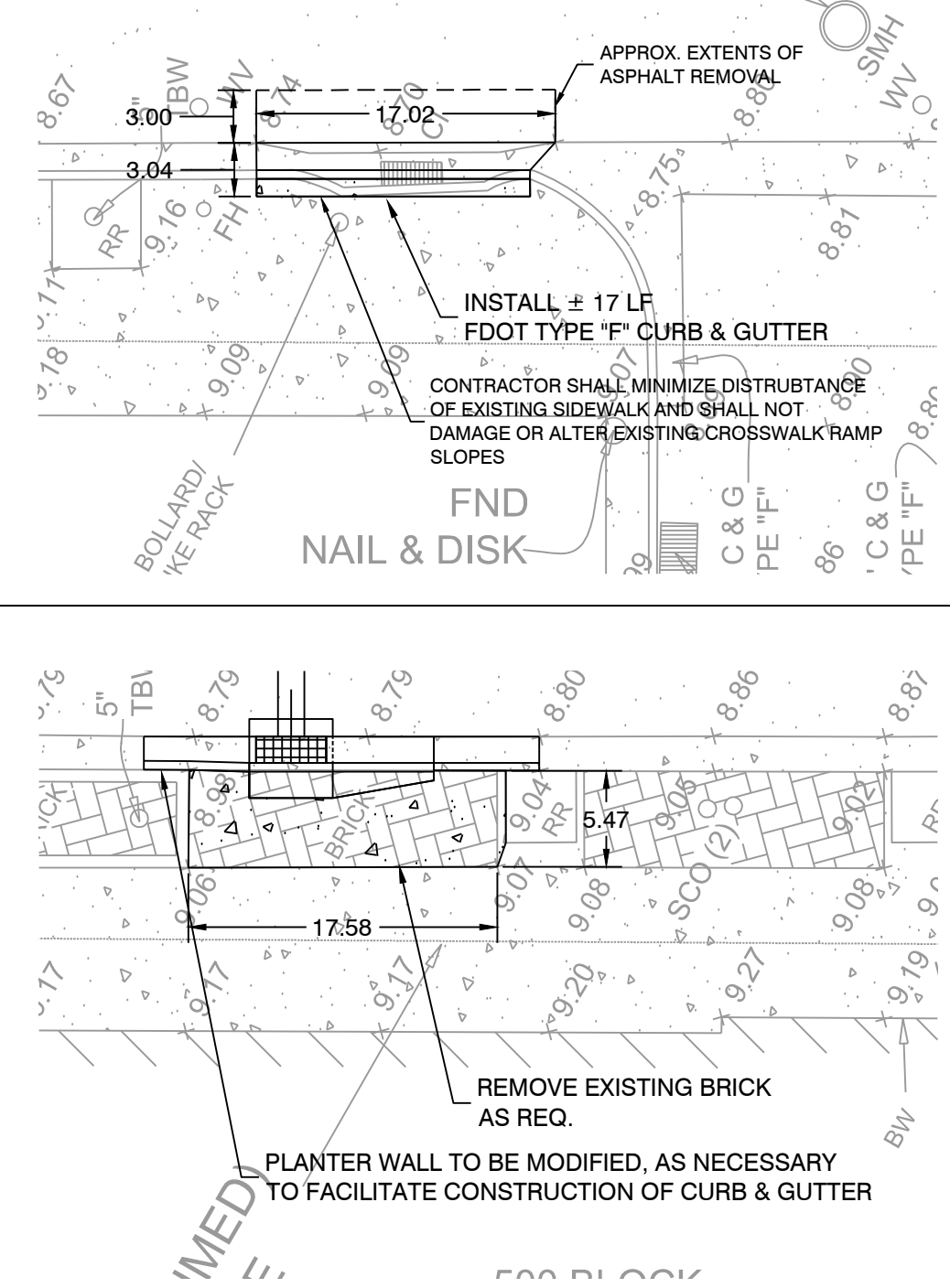
JOB NO. 121001
DRAWN RTM
DESIGNED AEP
CHECKED AEP
QC
SHEET



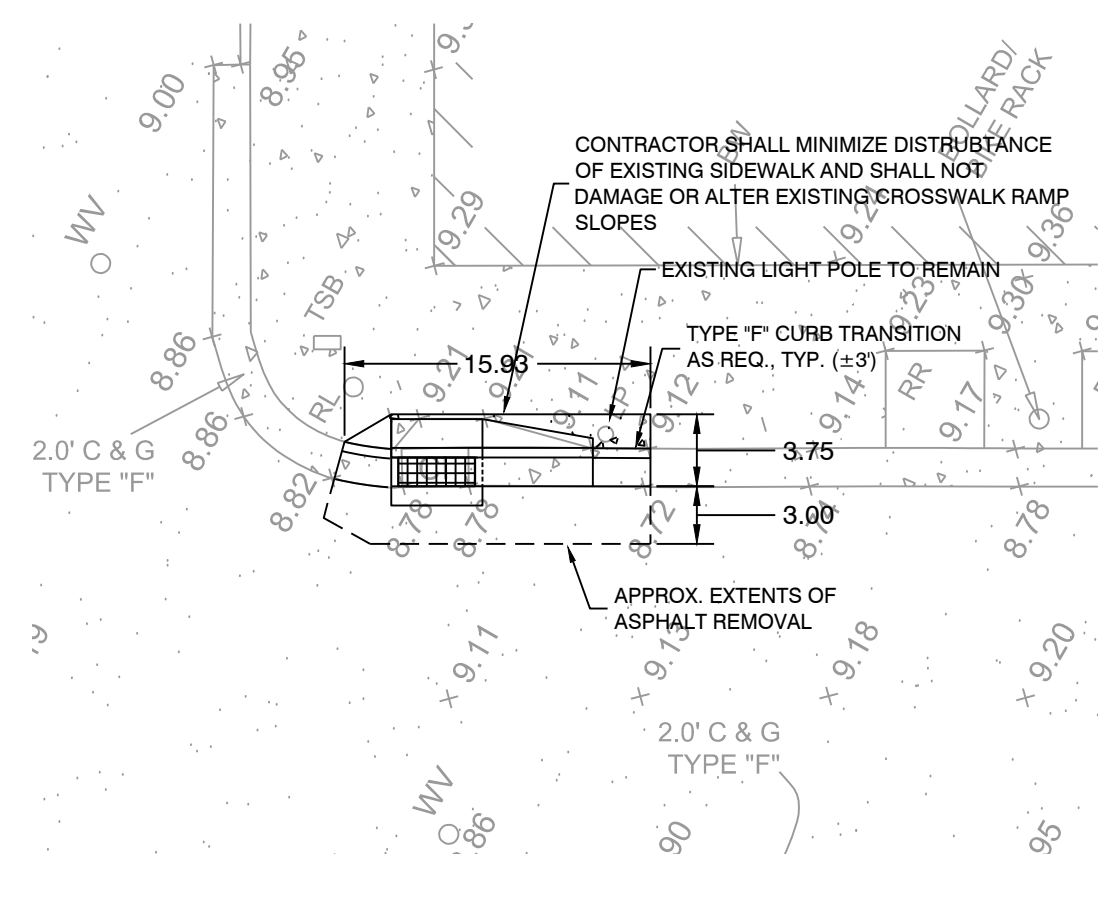
- ST- 504**
- REMOVE EXIST CURB INLET TOP
 - REMOVE RECYCLED RUBBER, AS REQUIRED
 - PROTECT EXIST VEGETATION
 - PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
 - INSTALL FDOT TYPE 5 CURB INLET TOP
G.E. = 8.50



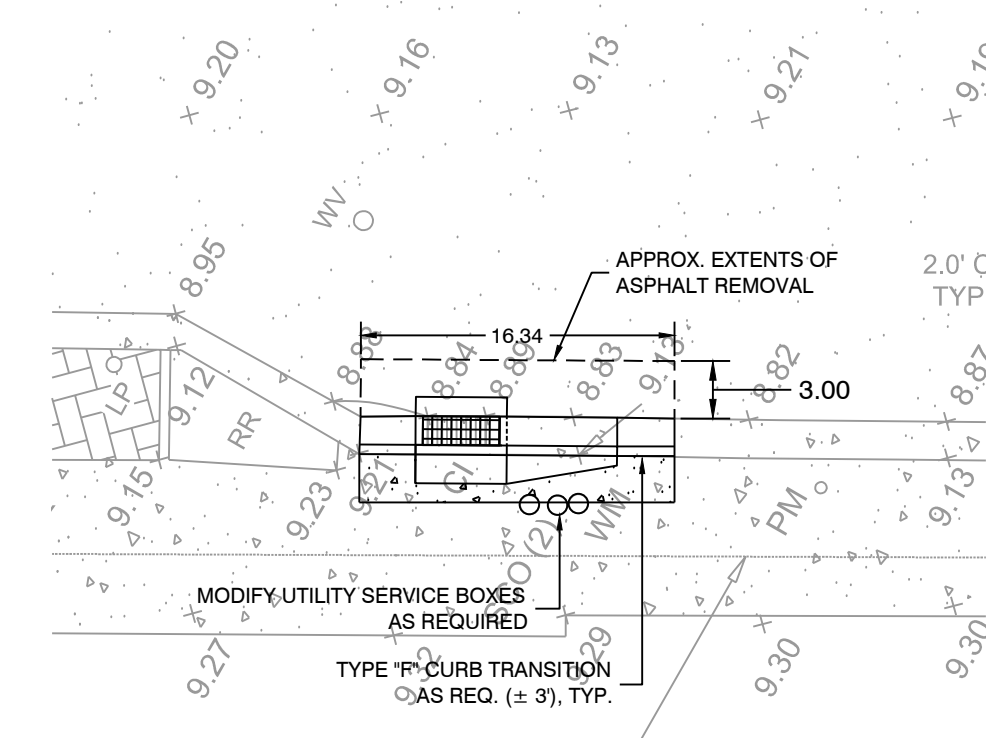
- ST- 505**
- REMOVE EXIST CURB INLET TOP AND ABANDON STRUCTURE TO 24" (MIN.) BELOW GRADE
 - PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
 - INSTALL FDOT TYPE 5 CURB INLET TOP AND STRUCTURE BOTTOM



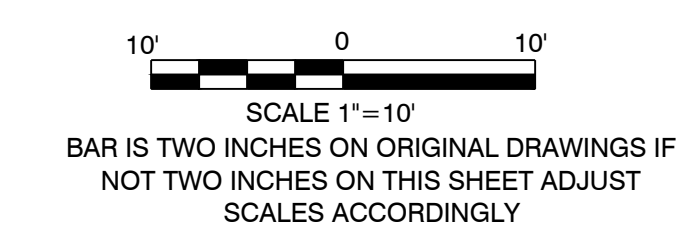
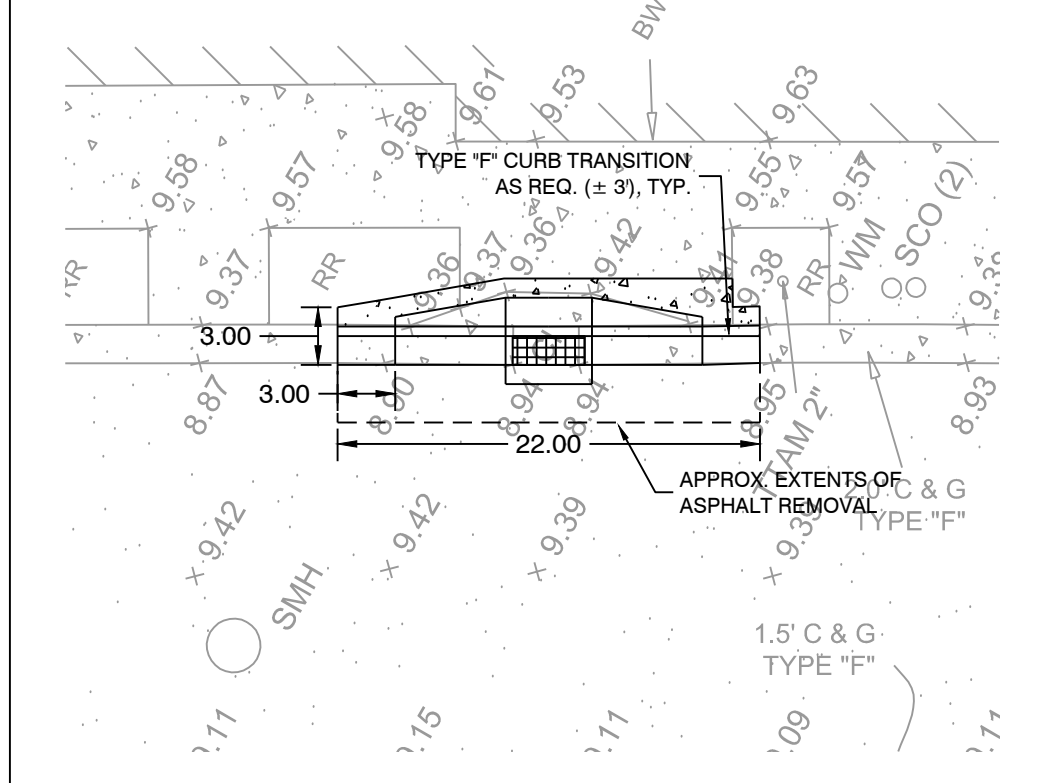
- ST- 601**
- REMOVE EXIST CURB INLET TOP
 - EXISTING LIGHT POLE TO REMAIN
 - PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
 - INSTALL FDOT TYPE 5 CURB INLET TOP
G.E. = 8.72



- ST- 602**
- REMOVE EXIST CURB INLET TOP
 - ADJUST WM / SEWER CLEANOUT BOXES AS REQUIRED
 - PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
 - INSTALL FDOT TYPE 5 CURB INLET TOP
G.E. = ± 8.65



- ST- 603**
- REMOVE EXIST CURB INLET TOP
 - REMOVE RECYCLED RUBBER, AS REQUIRED
 - PROTECT EXIST VEGETATION
 - PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
 - INSTALL FDOT TYPE 6 CURB INLET TOP
G.E. = ± 8.85



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Perez Engineering & Development, Inc.

ALLEN E. PEREZ, P.E.
Florida P.E. No. 51468
August 7, 2012

ORIGINAL: SEPTEMBER 2012

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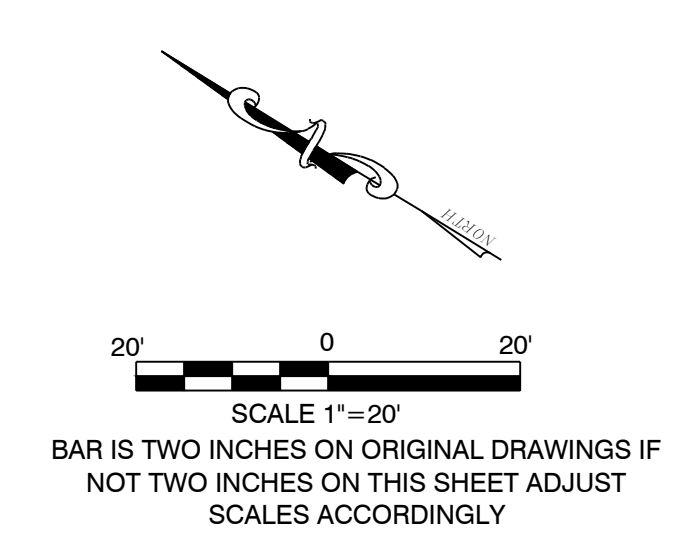
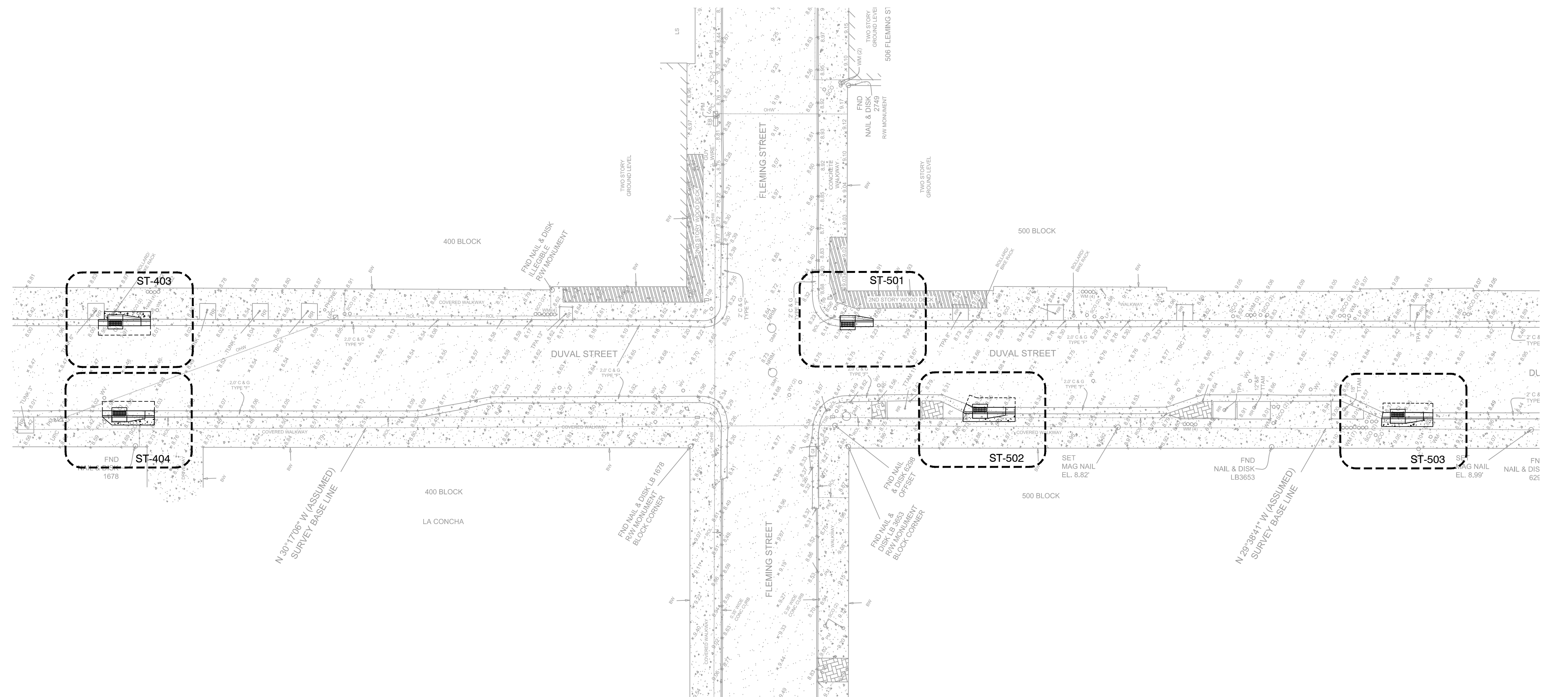
REVISIONS:

EAST FRONT ST. FLOOD MITIGATION PROJECT

DUVAL STREET CORRIDOR

CITY OF KEY WEST
3121 FLAGLER AVE.
KEY WEST, FL 33040

JOB NO. 121001
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DESIGNED AEP
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QC
SHEET



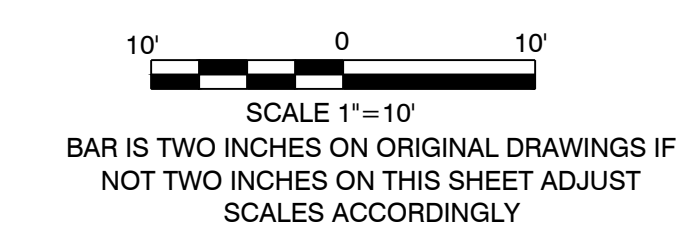
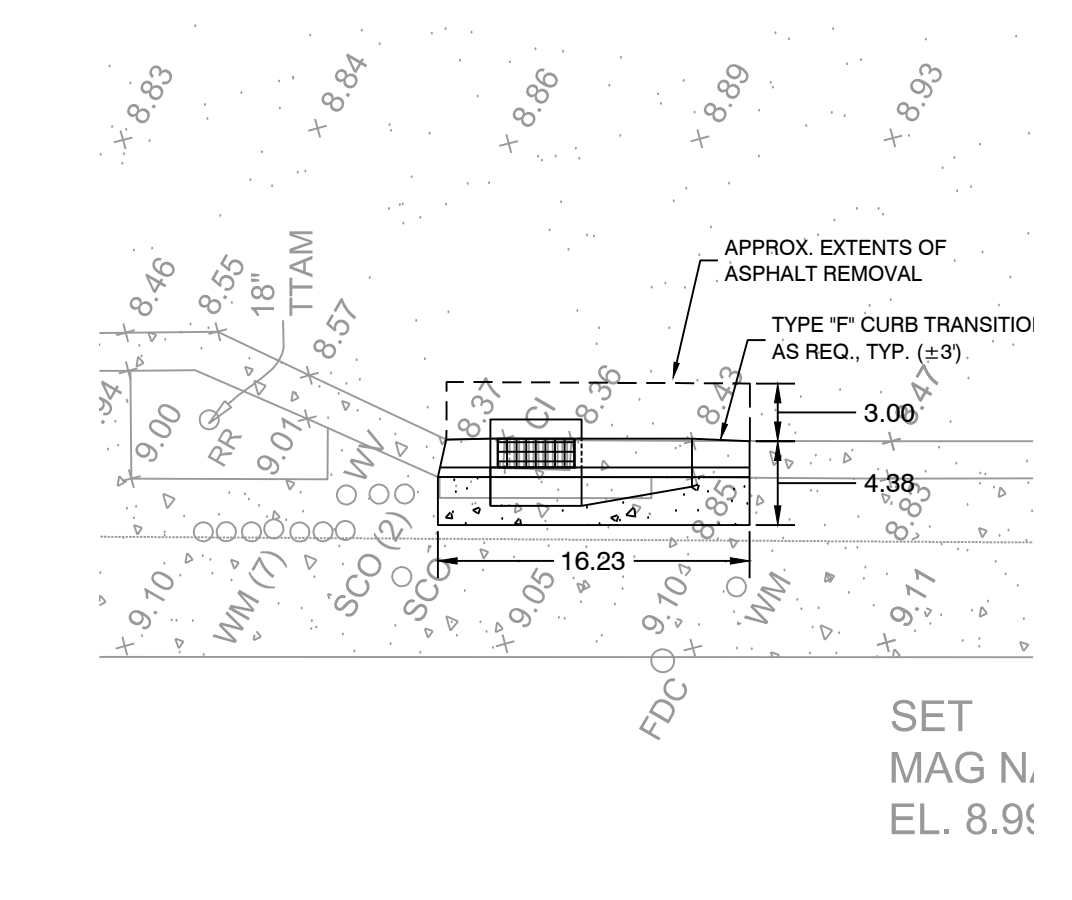
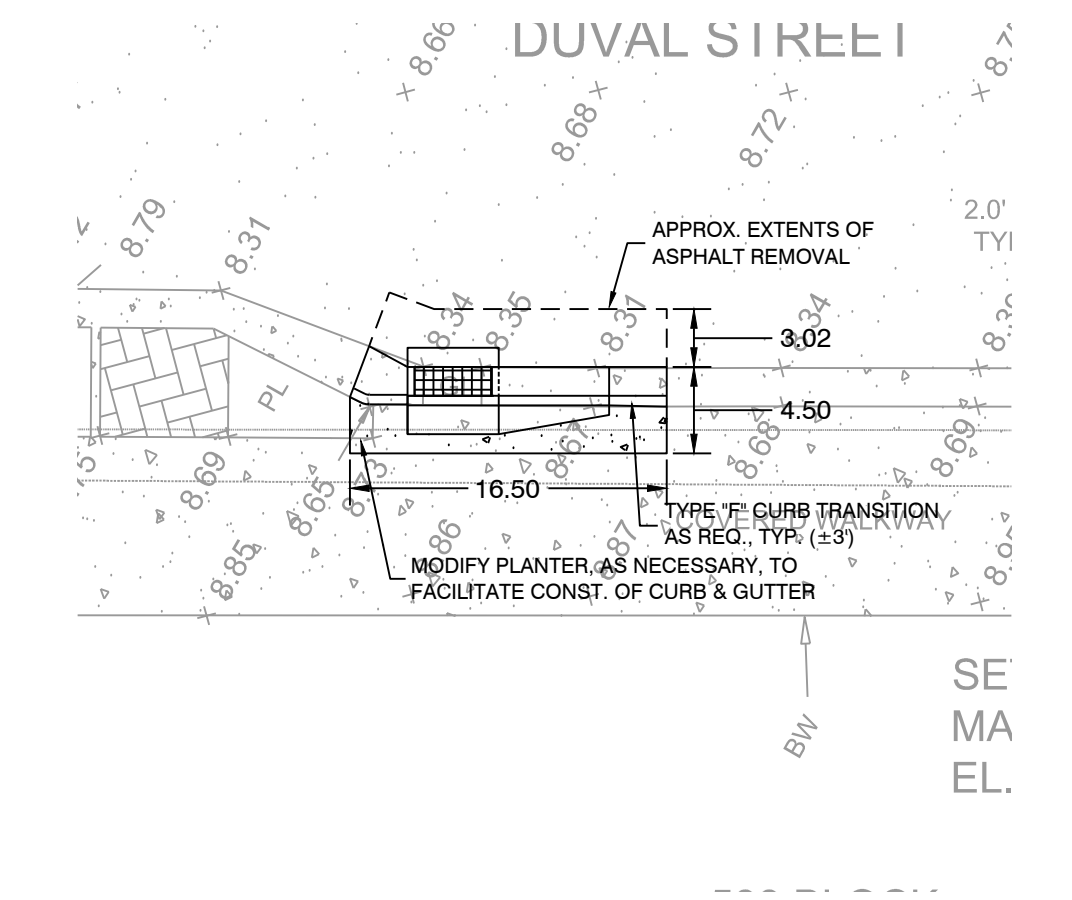
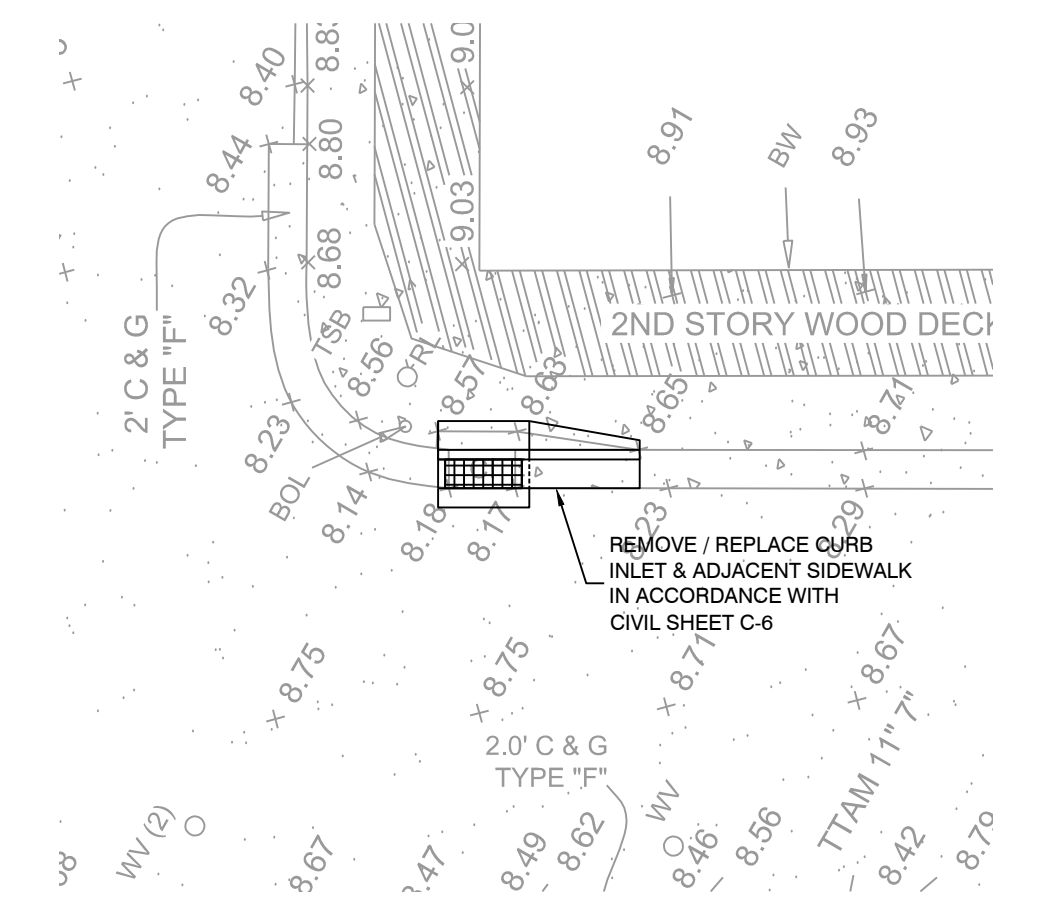
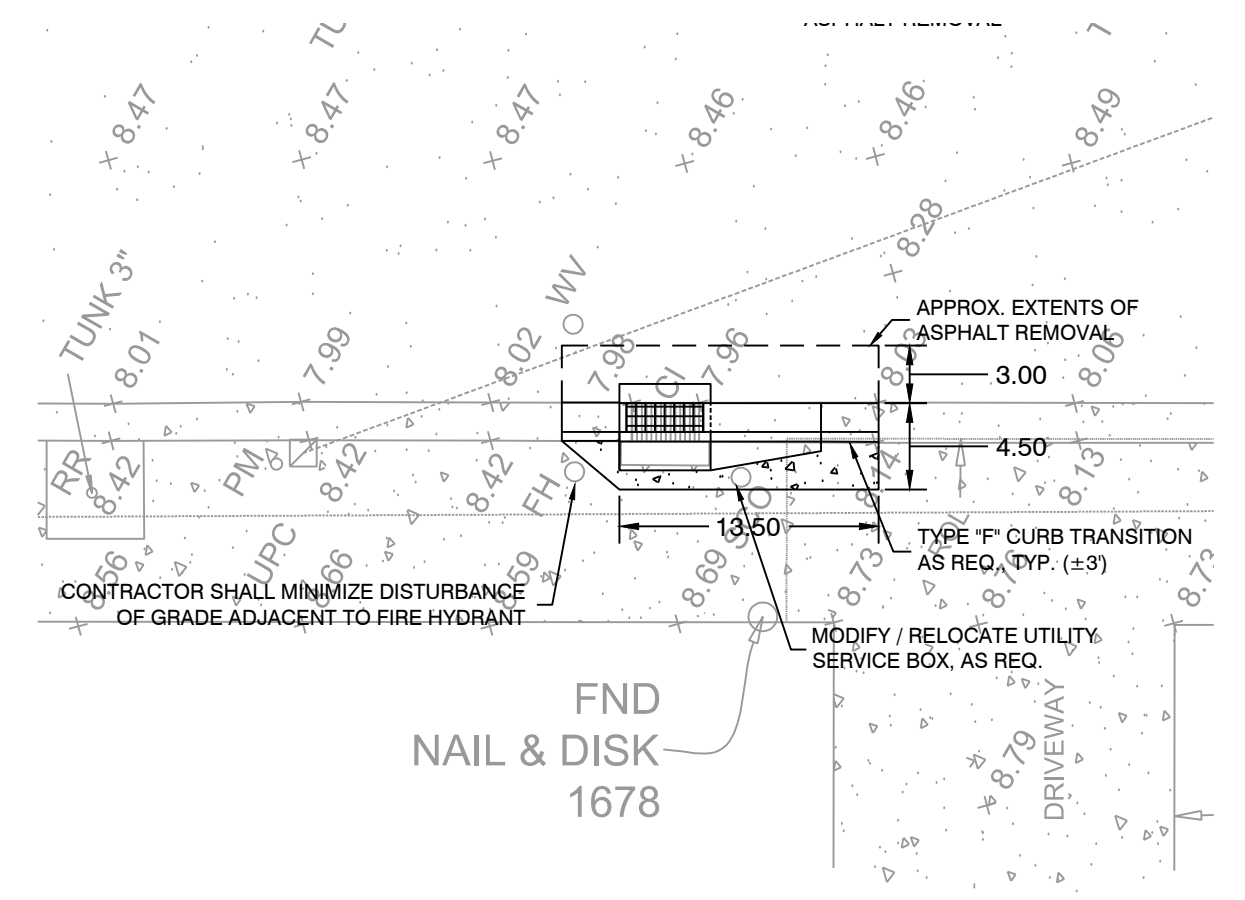
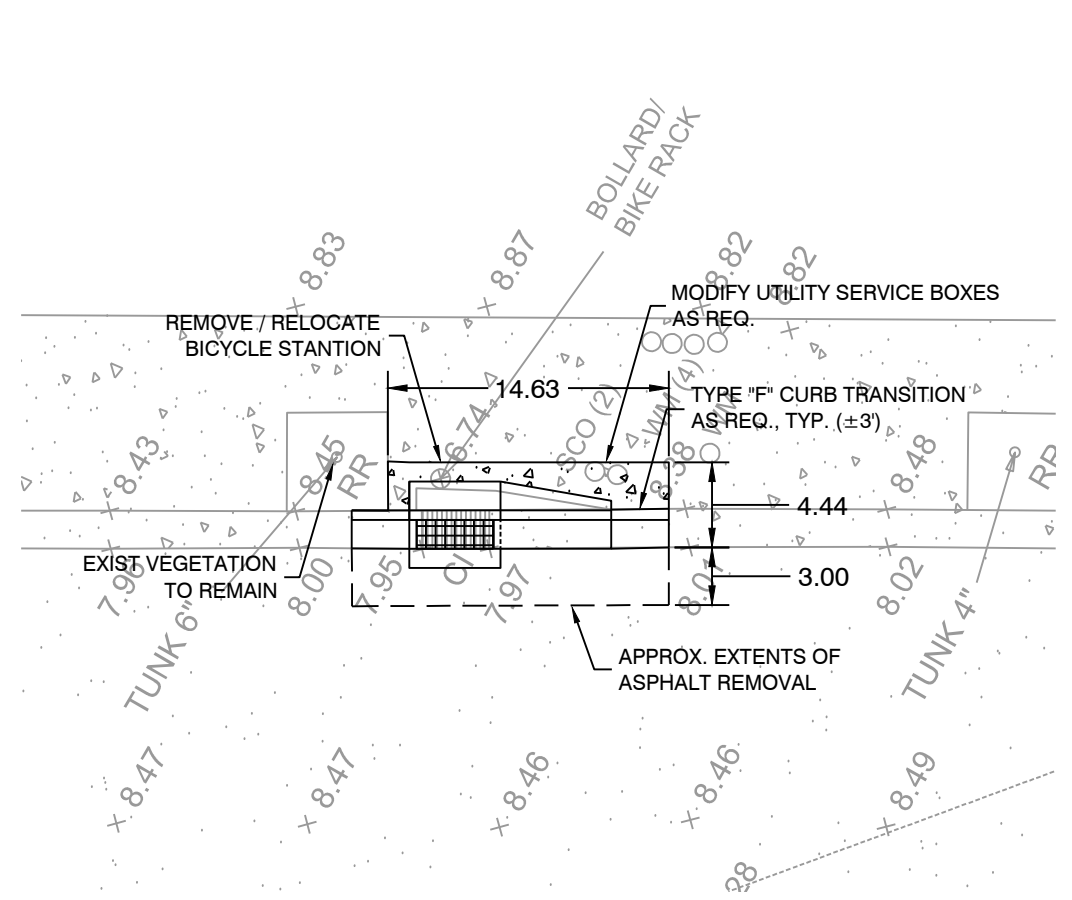
- ST- 403**
- REMOVE EXIST CURB INLET TOP
 - RELOCATE EXIST BIKE STANION
 - ADJUST WM / SEWER CLEANOUT BOXES, AS REQUIRED
 - PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
 - INSTALL FDOT TYPE 5 CURB INLET TOP
- G.E. = 7.95

- ST- 404**
- REMOVE EXIST CURB INLET TOP
 - PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
 - INSTALL FDOT TYPE 5 CURB INLET TOP
- G.E. = 7.95

- ST- 501**
- REMOVE EXIST CURB INLET TOP
 - PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
 - INSTALL FDOT TYPE 5 CURB INLET TOP
- G.E. = 8.15
- SEE CIVIL SHEET C-6 FOR COORD.

- ST- 502**
- REMOVE EXIST CURB INLET TOP
 - PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
 - INSTALL FDOT TYPE 5 CURB INLET TOP
- G.E. = 8.35

- ST- 503**
- REMOVE EXIST CURB INLET TOP
 - PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
 - INSTALL FDOT TYPE 5 CURB INLET TOP
- G.E. = 8.35



CIVIL ENGINEERING • REGULATORY PERMITTING • CONSTRUCTION MANAGEMENT

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PEREZ ENGINEERING
& DEVELOPMENT, INC

ALLEN E. PEREZ, P.E.
Florida P.E. NO. 51468
December 14, 2012

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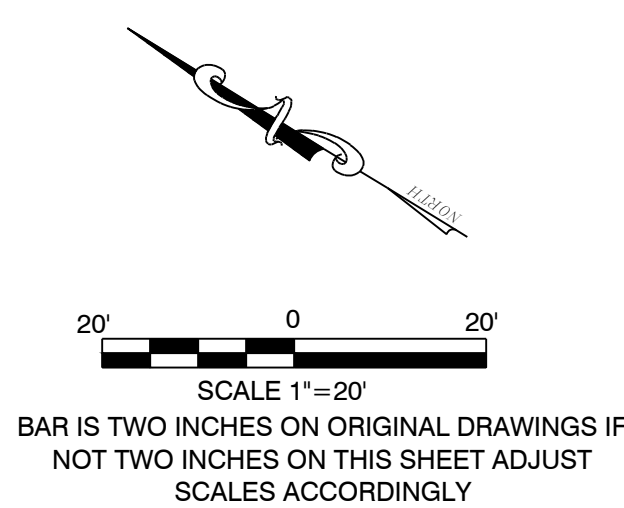
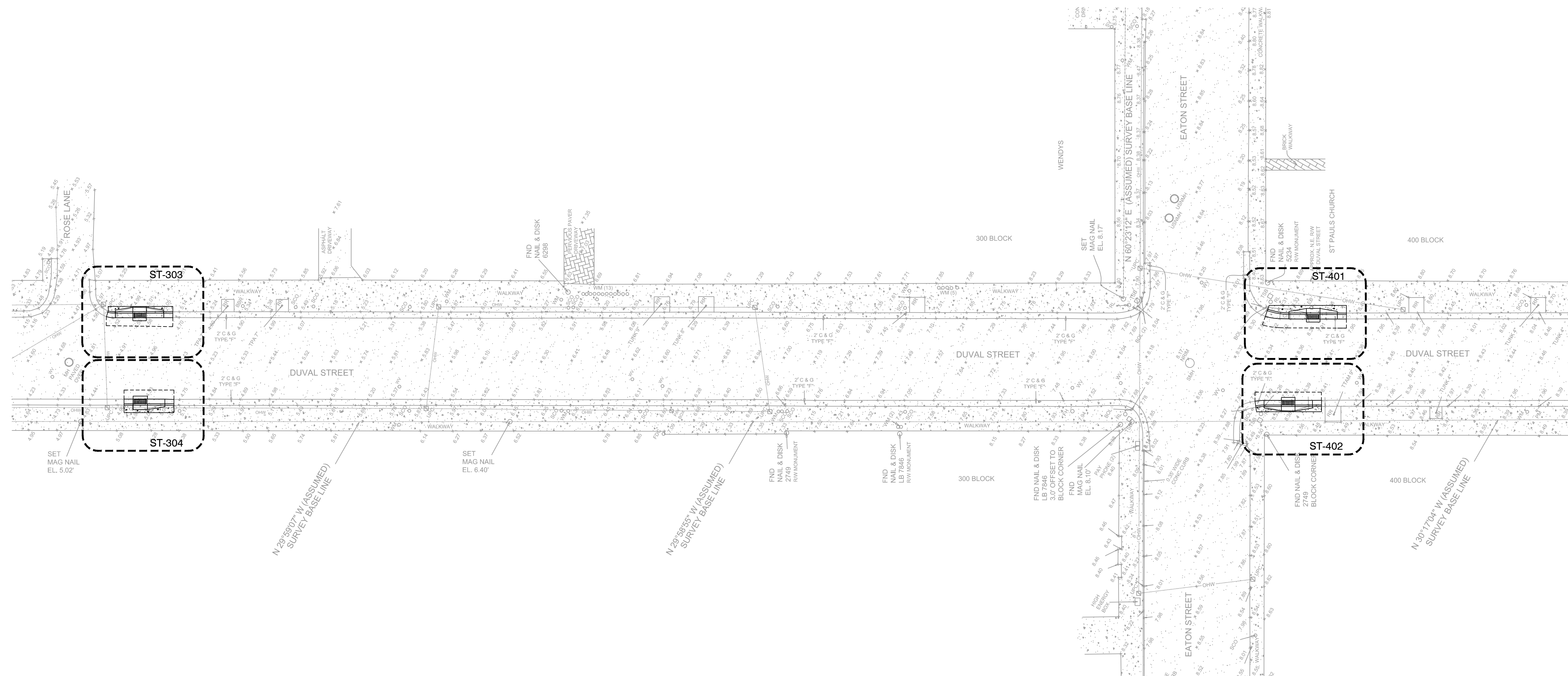
ORIGINAL: SEPTEMBER 2012

EAST FRONT ST. FLOOD MITIGATION PROJECT

DUVAL STREET CORRIDOR

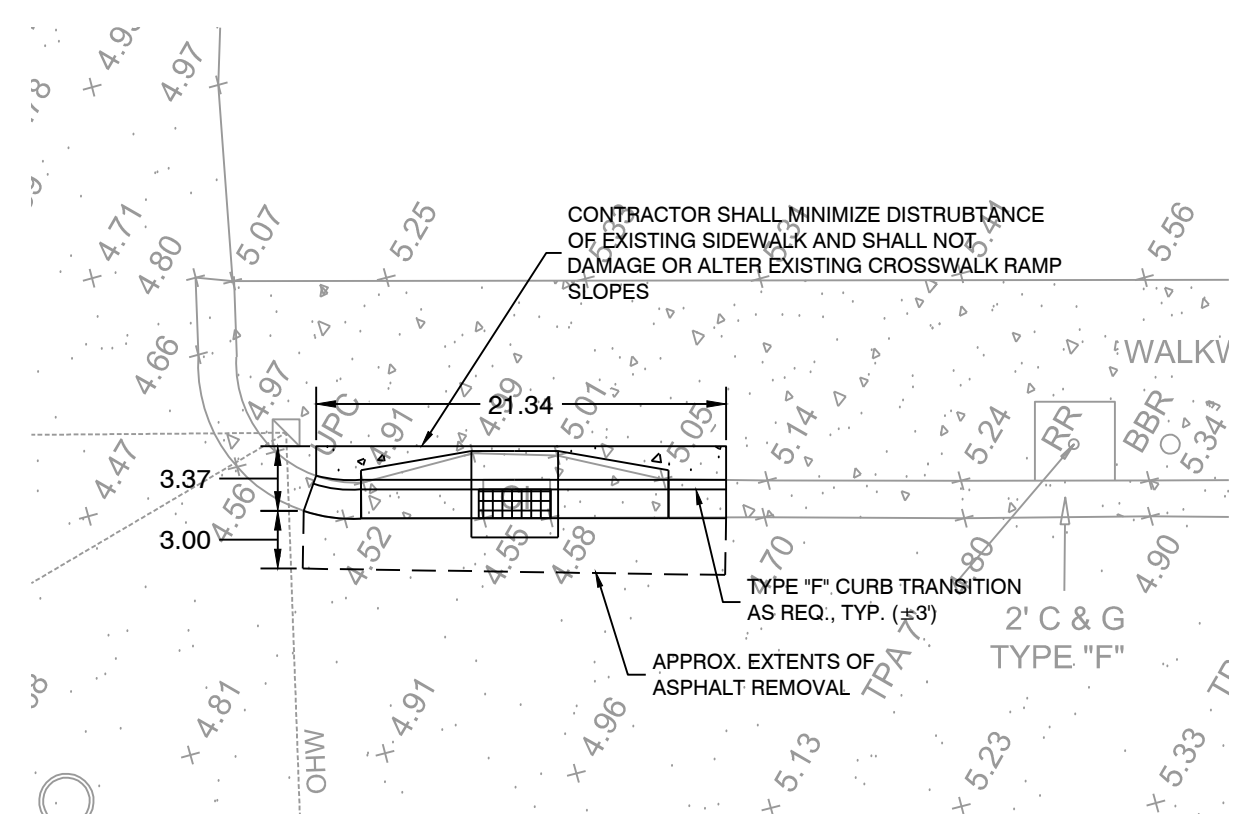
CITY OF KEY WEST
3121 FLAGLER AVE.
KEY WEST, FL 33040

JOB NO. 121001
DRAWN RTM
DESIGNED AEP
CHECKED AEP
QC
SHEET



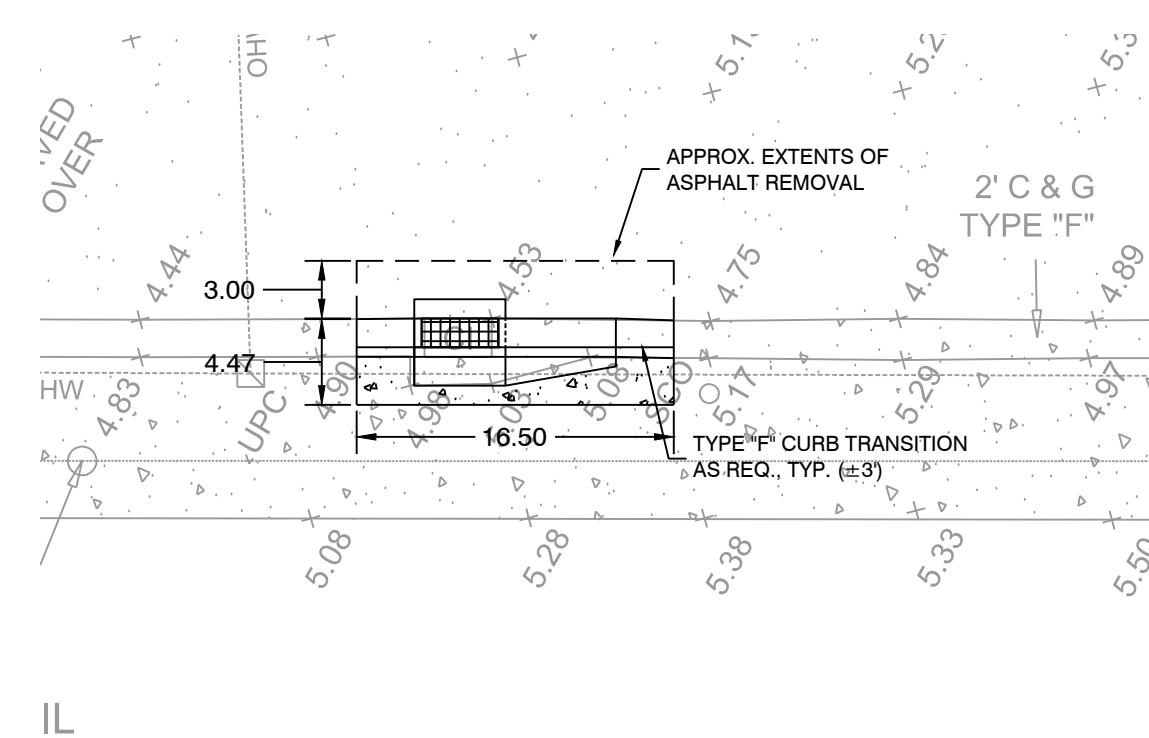
ST- 303

- REMOVE EXIST CURB INLET TOP
- RELOCATE EXIST BIKE STANION
- PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
- INSTALL FDOT TYPE 6 CURB INLET TOP
G.E. = 4.55



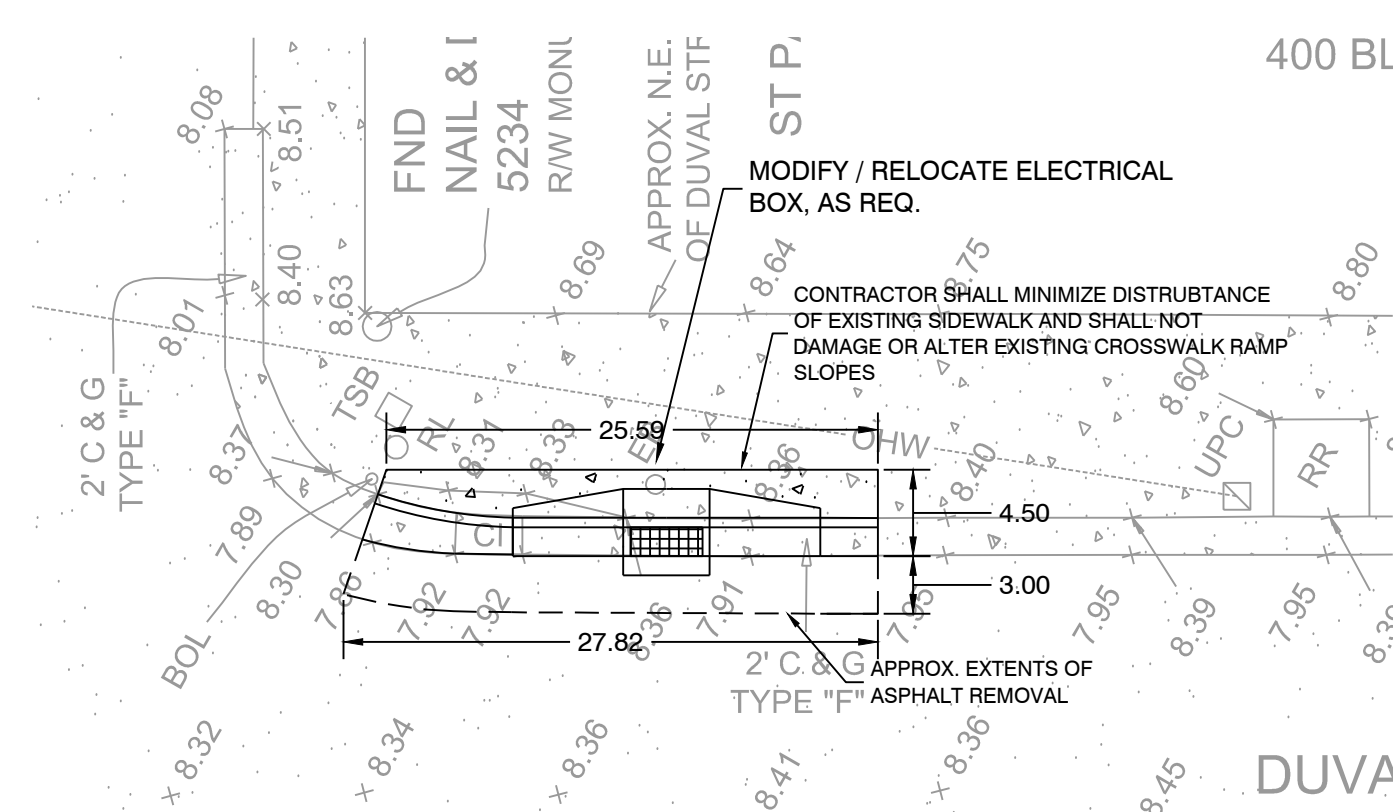
ST- 304

- REMOVE EXIST CURB INLET TOP
- ADJUST WM / SEWER CLEANOUT BOXES, AS REQUIRED
- PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
- INSTALL FDOT TYPE 5 CURB INLET TOP
G.E. = 4.53



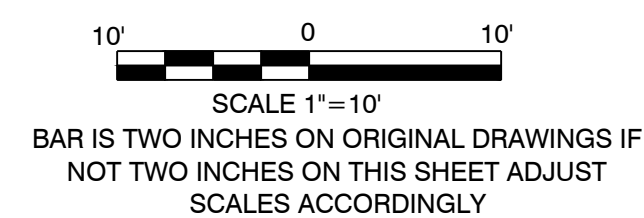
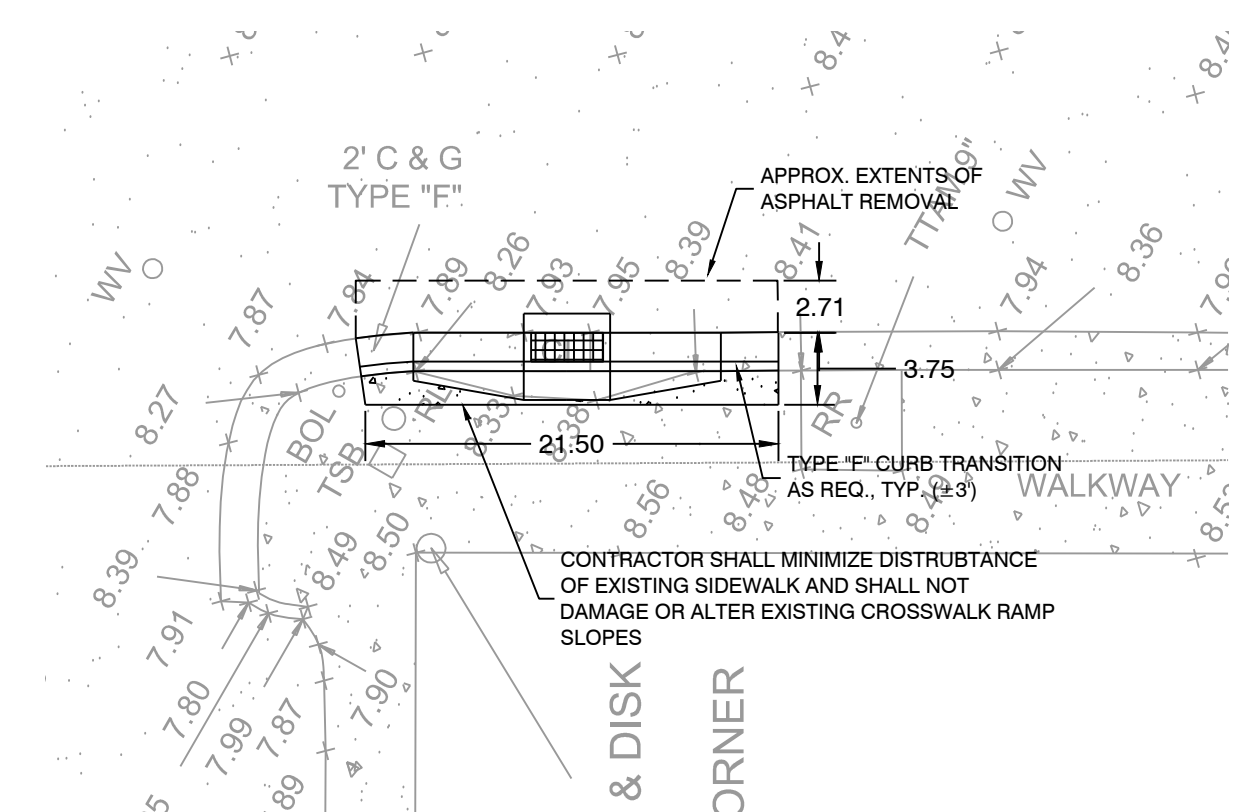
ST- 401

- REMOVE EXIST CURB INLET TOP AND ABANDON EXISTING STRUCTURE IN PLACE. REMOVE STRUCTURE TO 24" (MIN.) BELOW GRADE
- PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
- INSTALL FDOT TYPE 6 CURB INLET TOP & STRUCTURE BOTTOM.
G.E. = 7.92
INV. EL. = (-) 1.95 N & S



ST- 402

- REMOVE EXIST CURB INLET TOP
- PROVIDE CURB / GUTTER TRANSITION AS REQUIRED
- INSTALL FDOT TYPE 6 CURB INLET TOP
G.E. = 7.95



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PEREZ ENGINEERING
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ALLEN E. PEREZ, P.E.
Florida P.E. No. 51468
August 7, 2012

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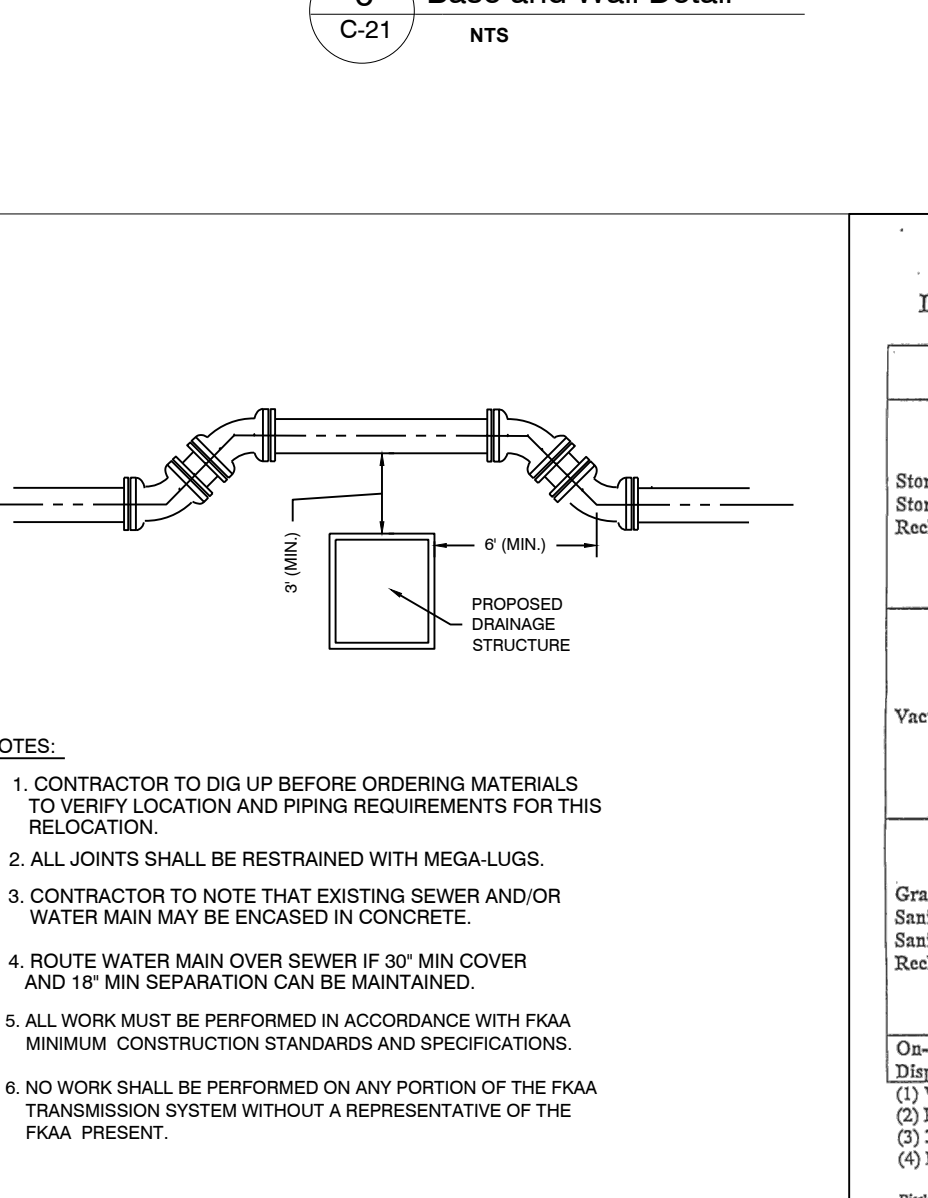
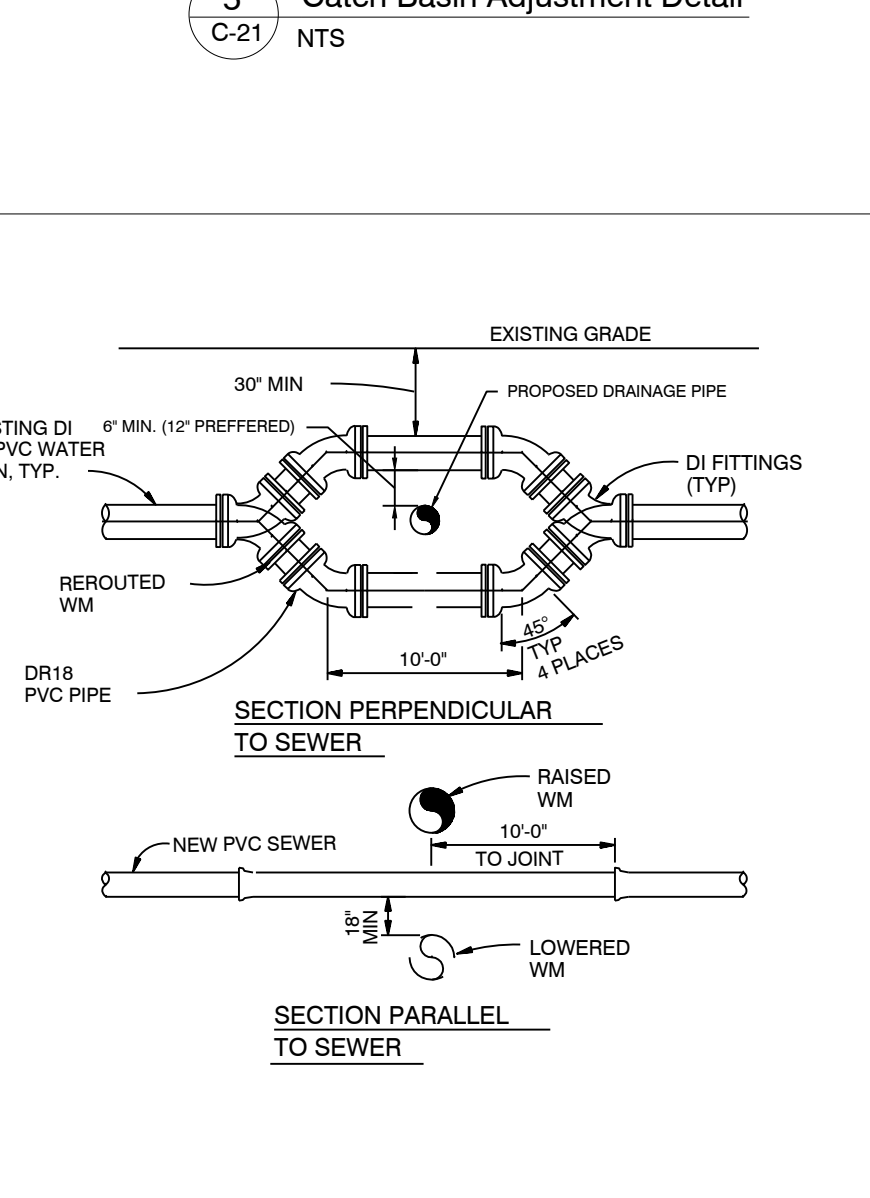
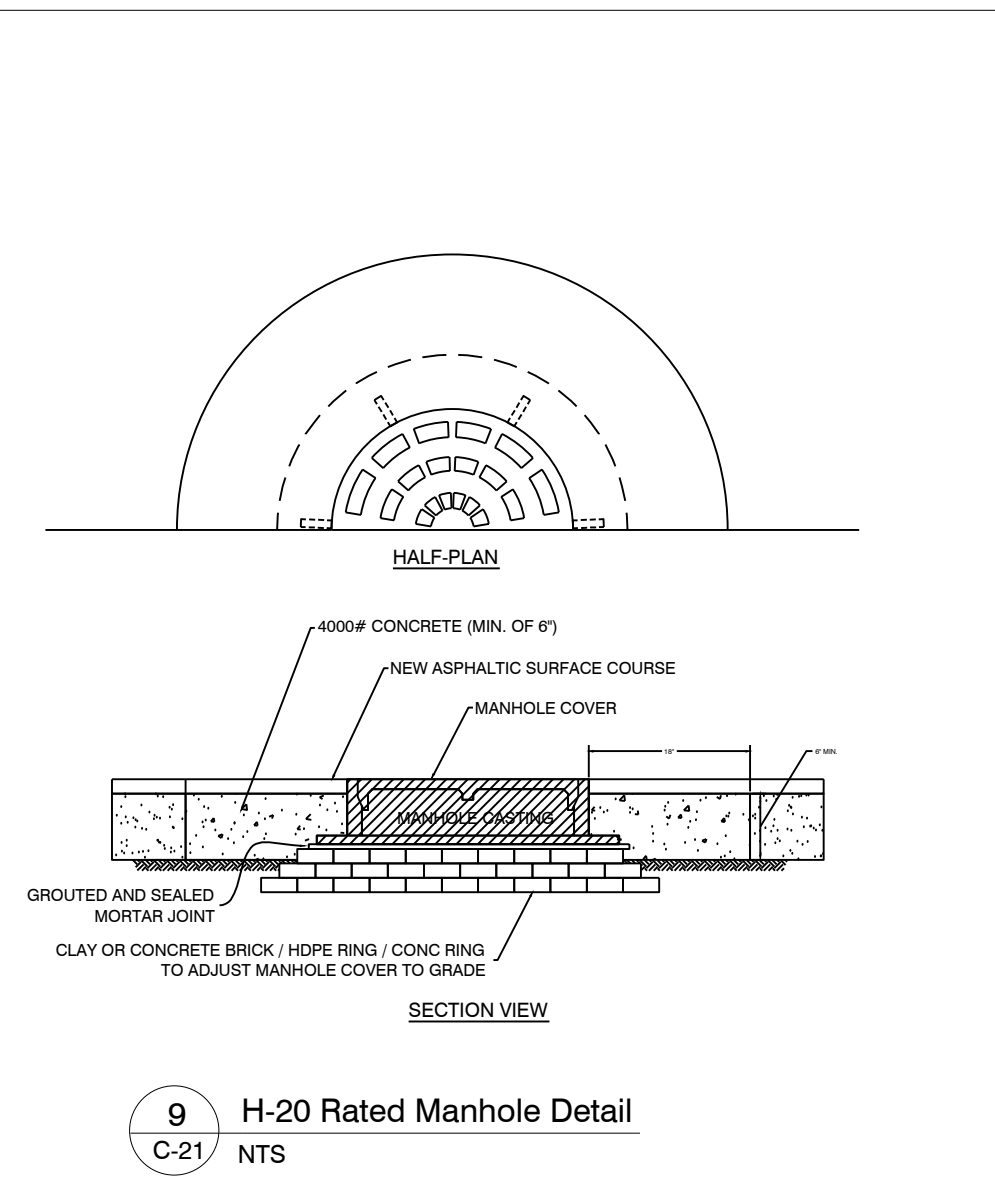
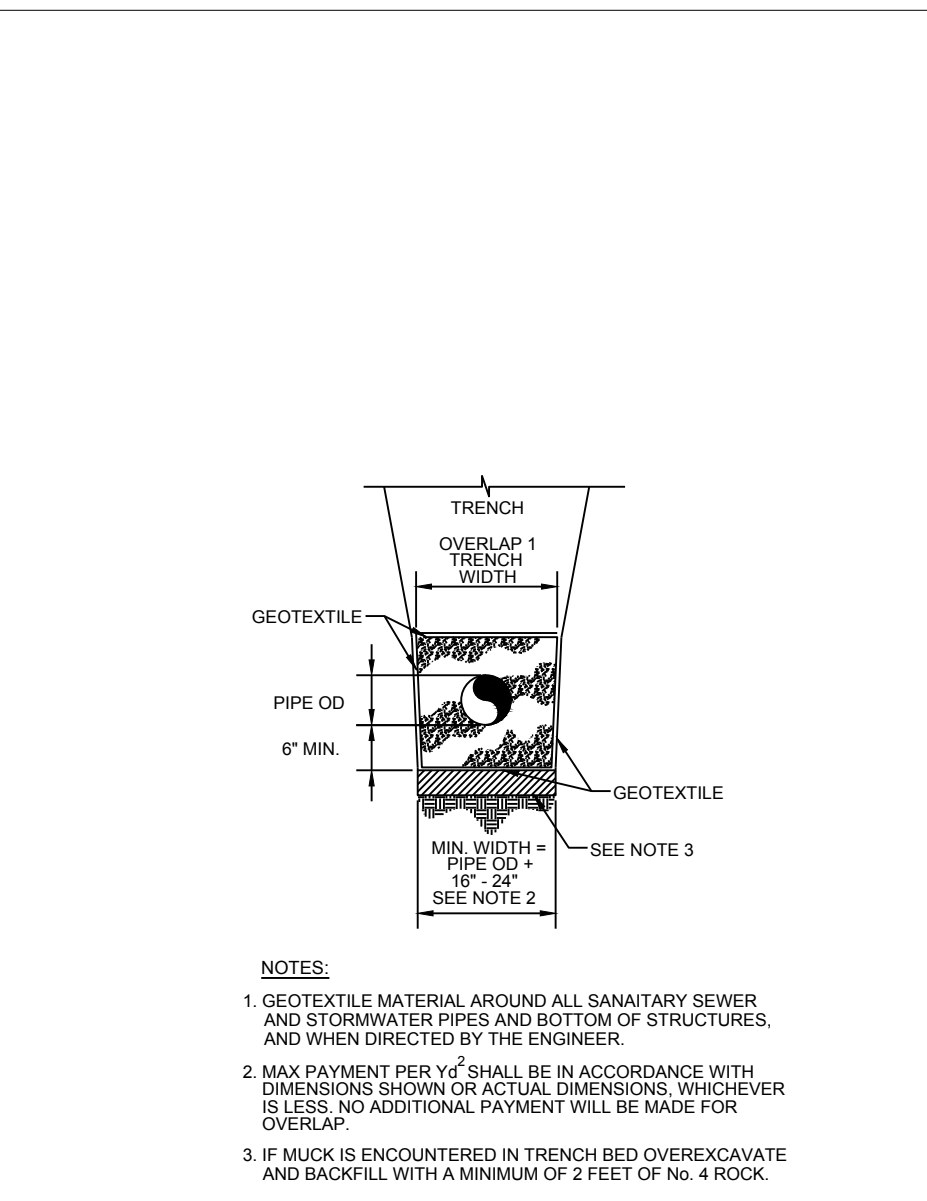
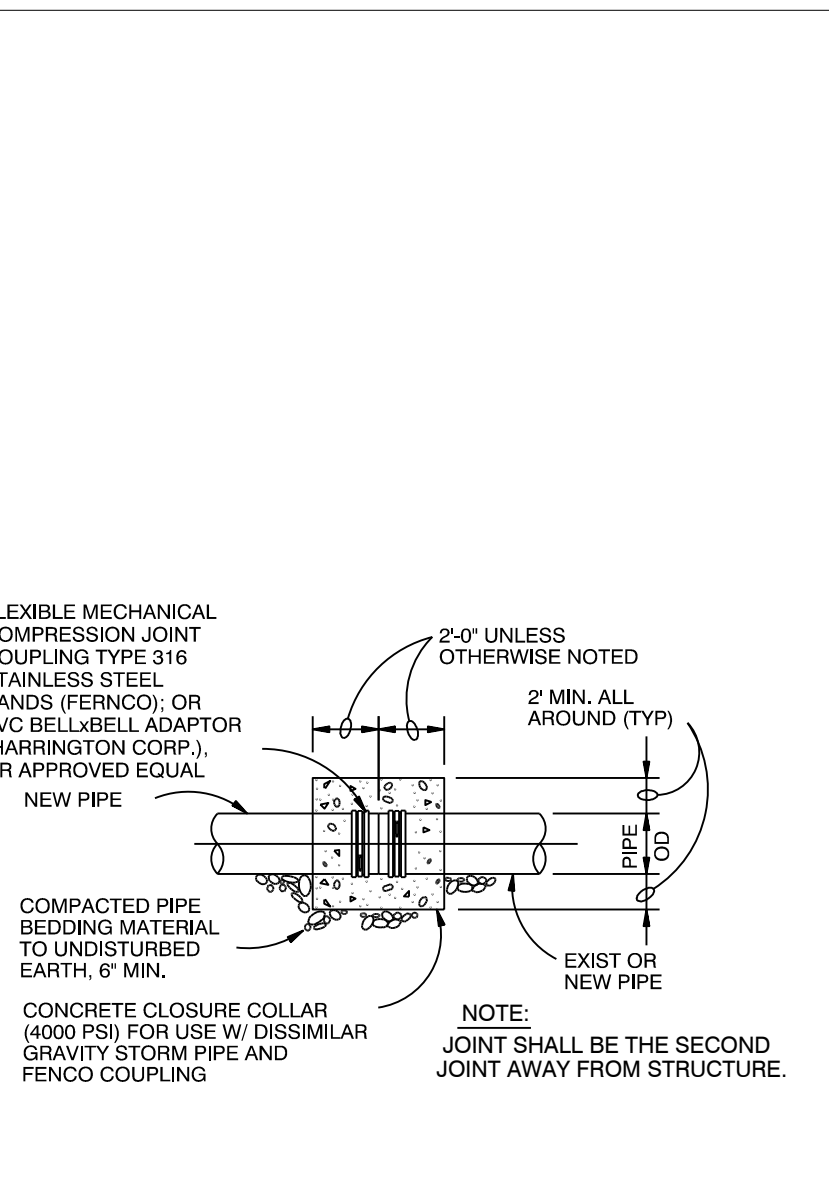
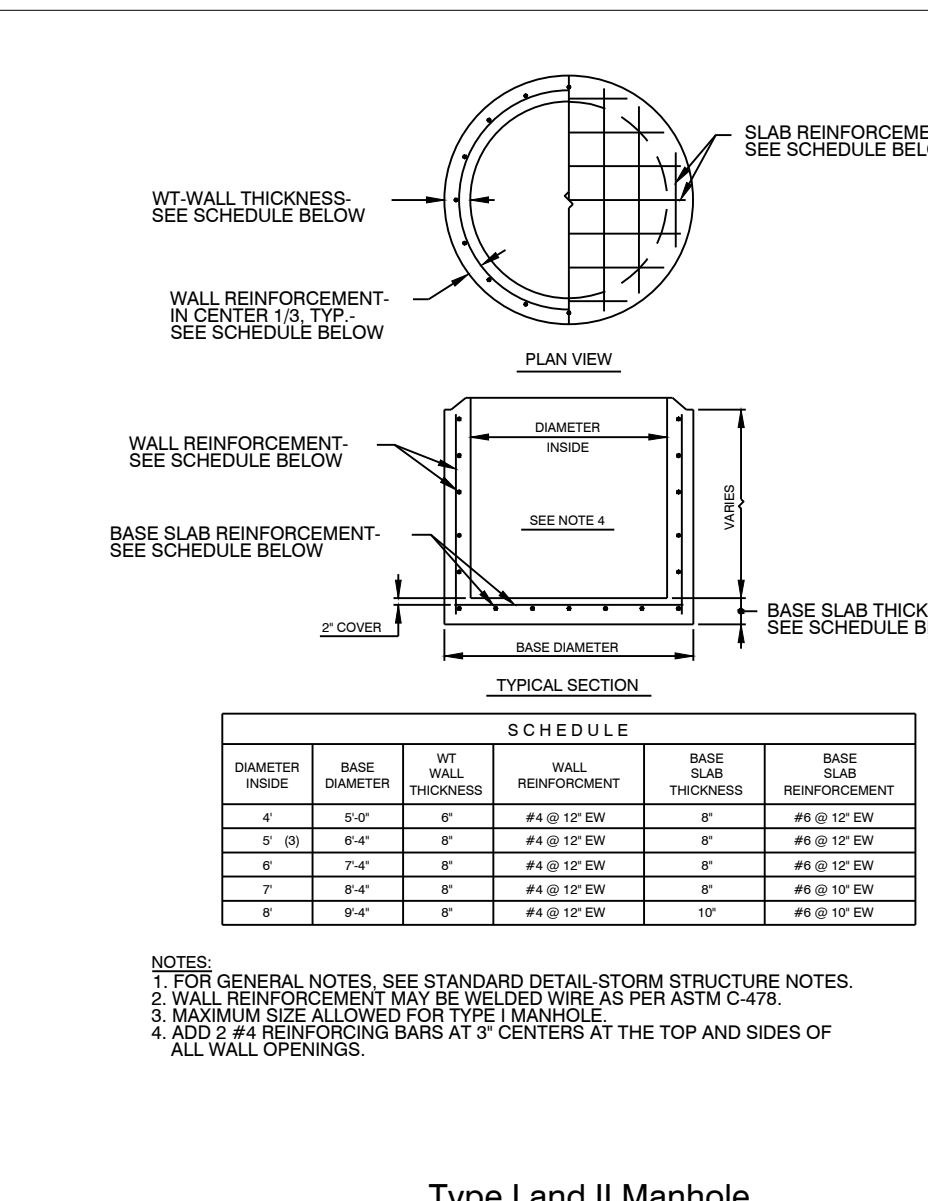
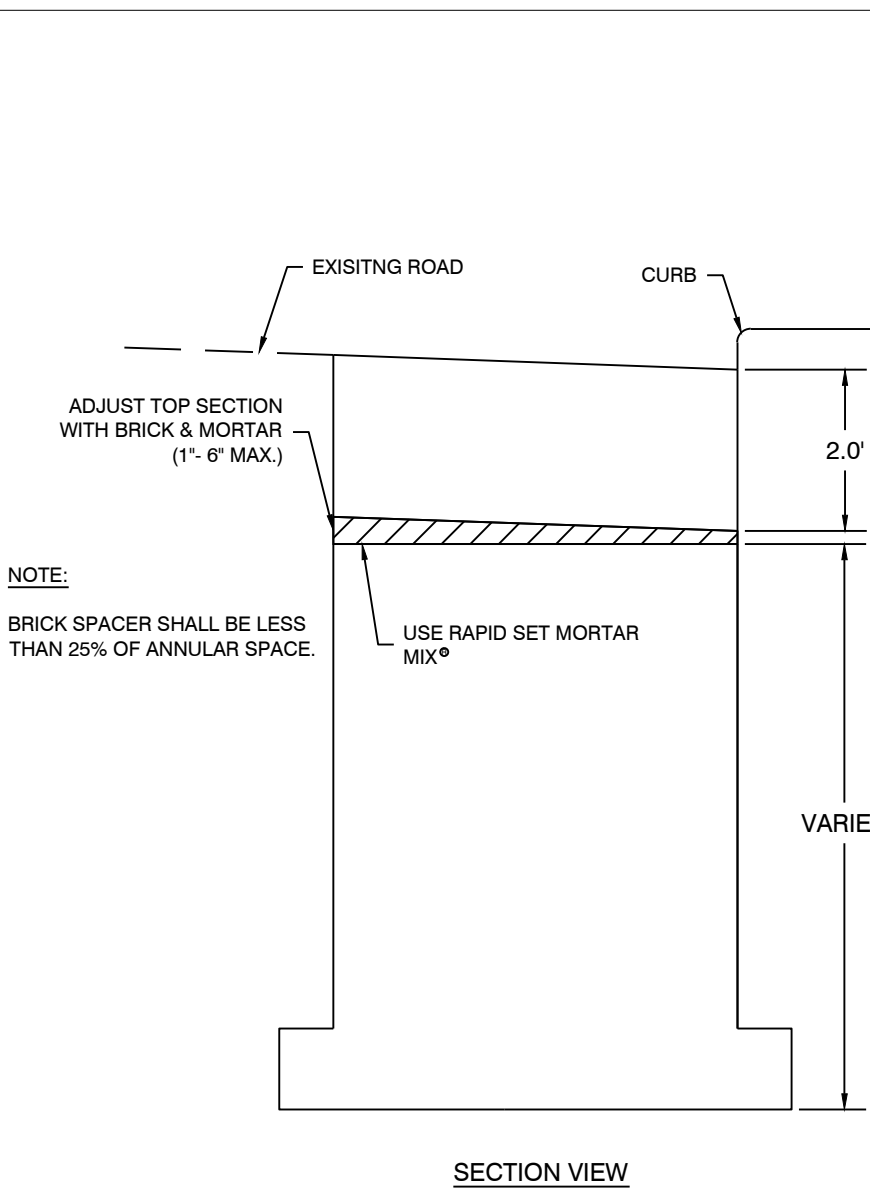
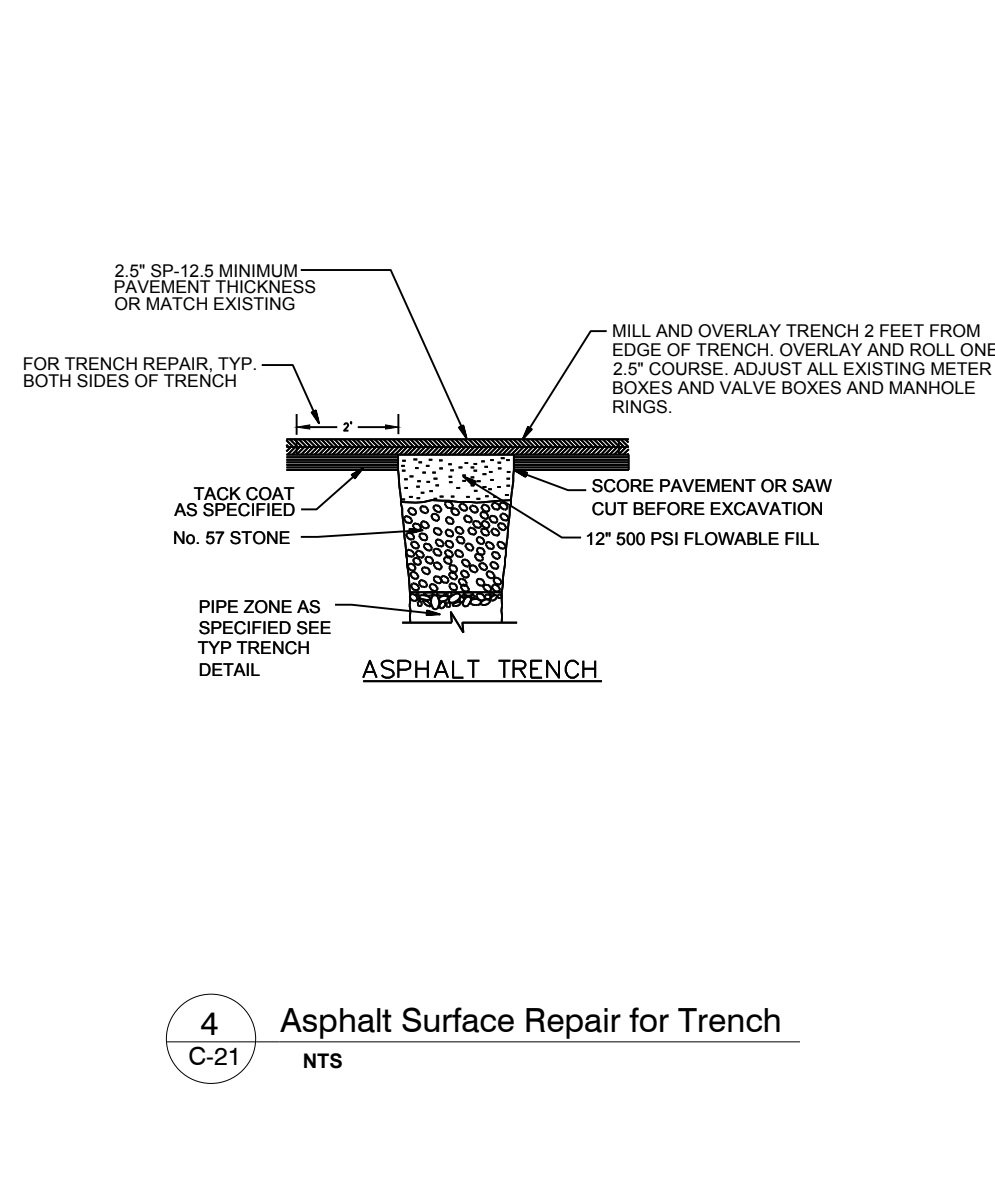
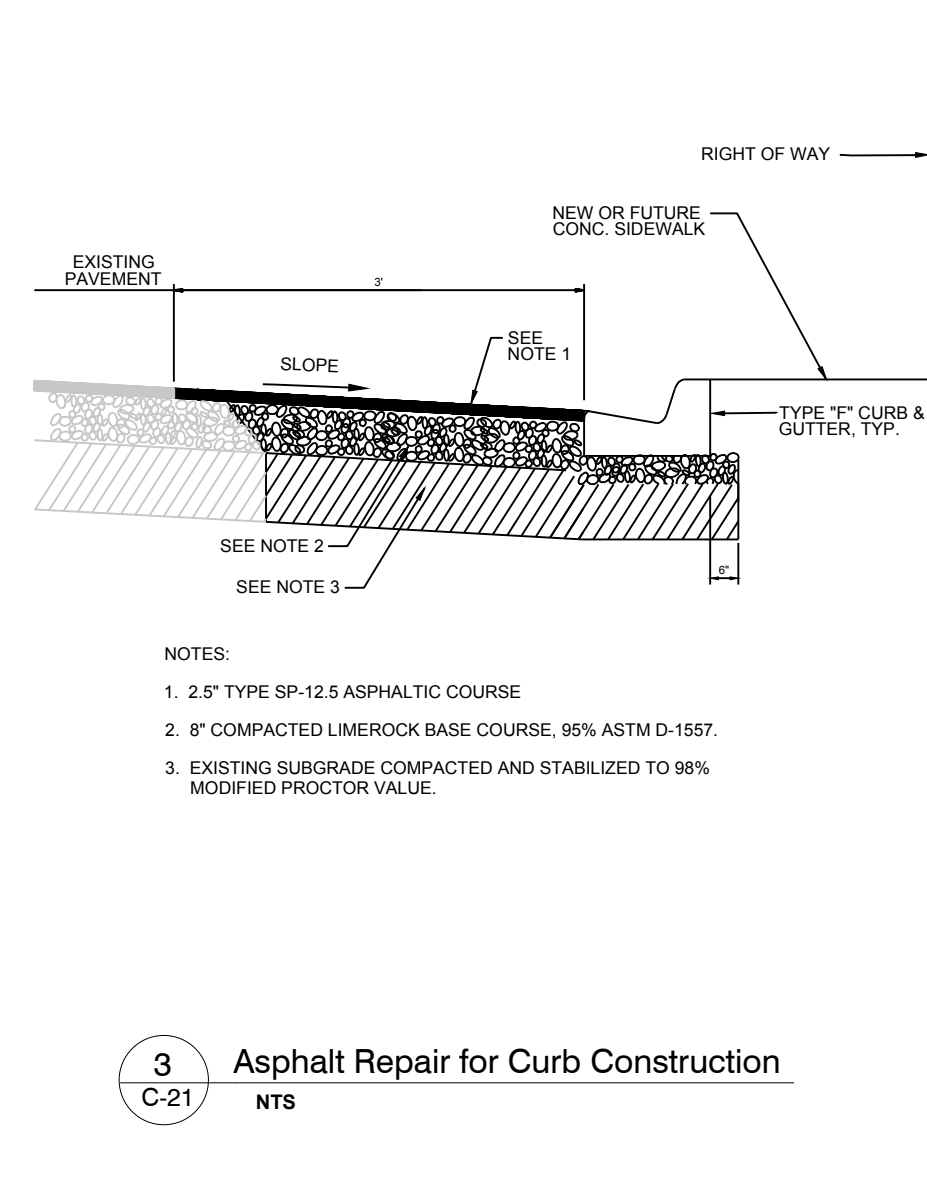
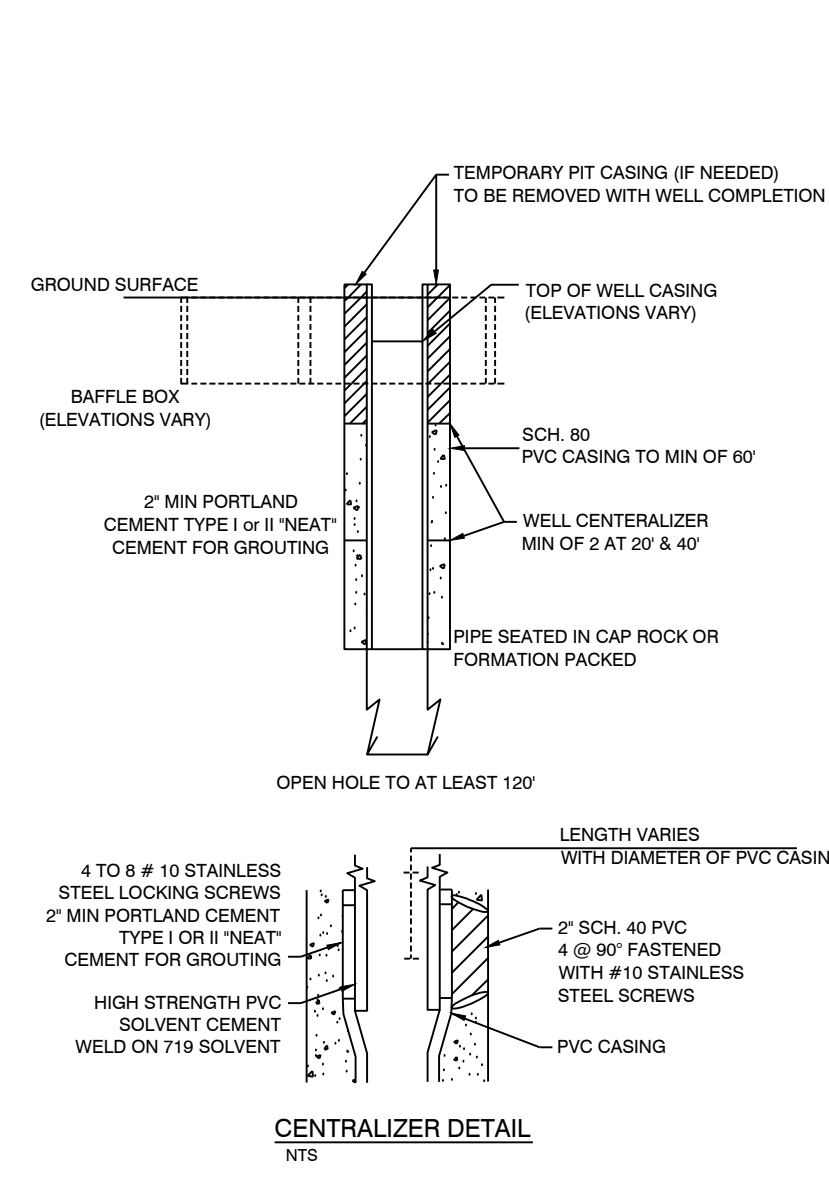
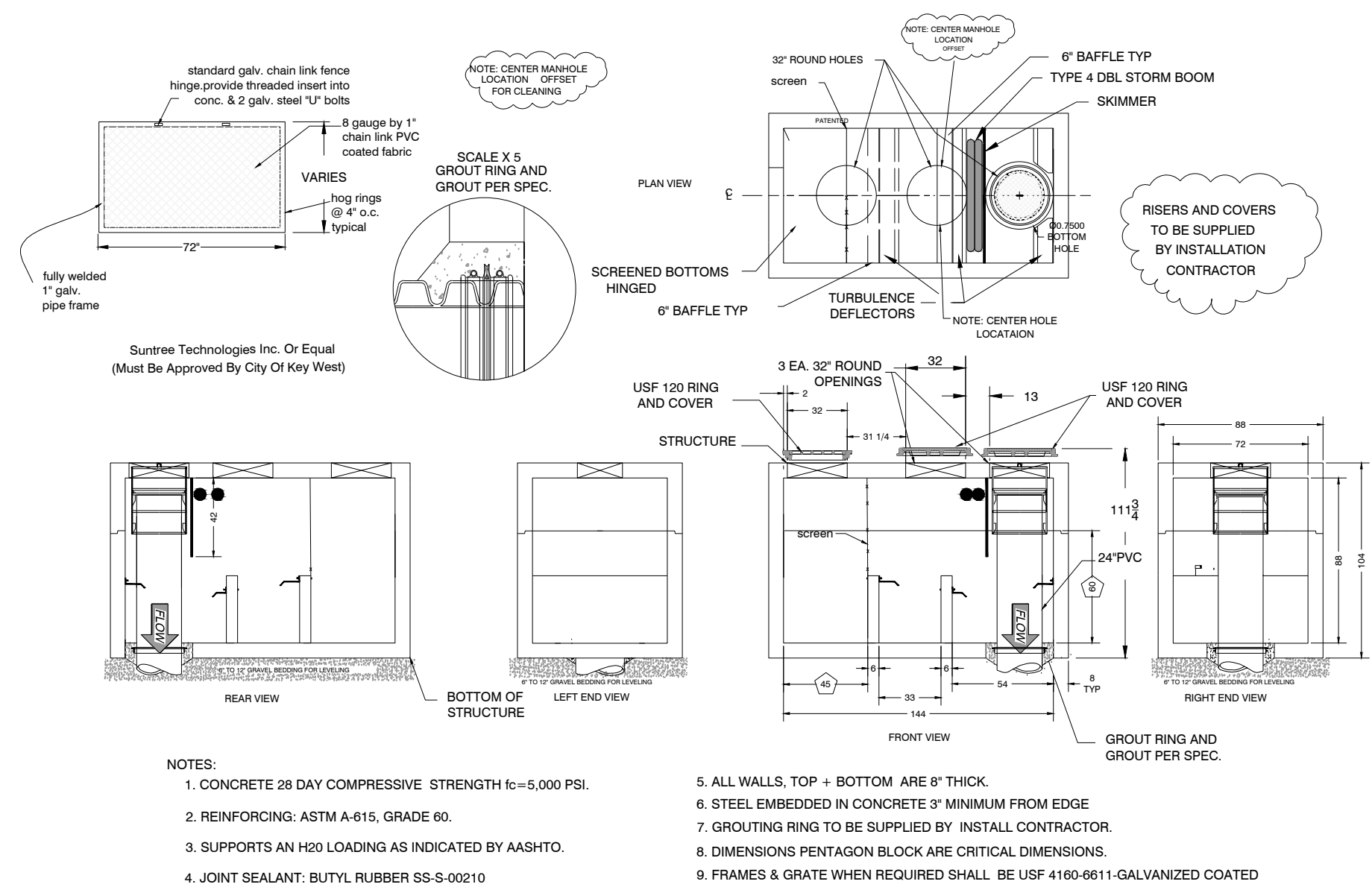
ORIGINAL - SEPTEMBER 2012

EAST FRONT ST. FLOOD MITIGATION PROJECT

DUVAL STREET CORRIDOR

CITY OF KEY WEST
3121 FLAGLER AVE.
KEY WEST, FL 33040

JOB NO. 121001
DRAWN RTM
DESIGNED AEP
CHECKED AEP
QC
SHEET

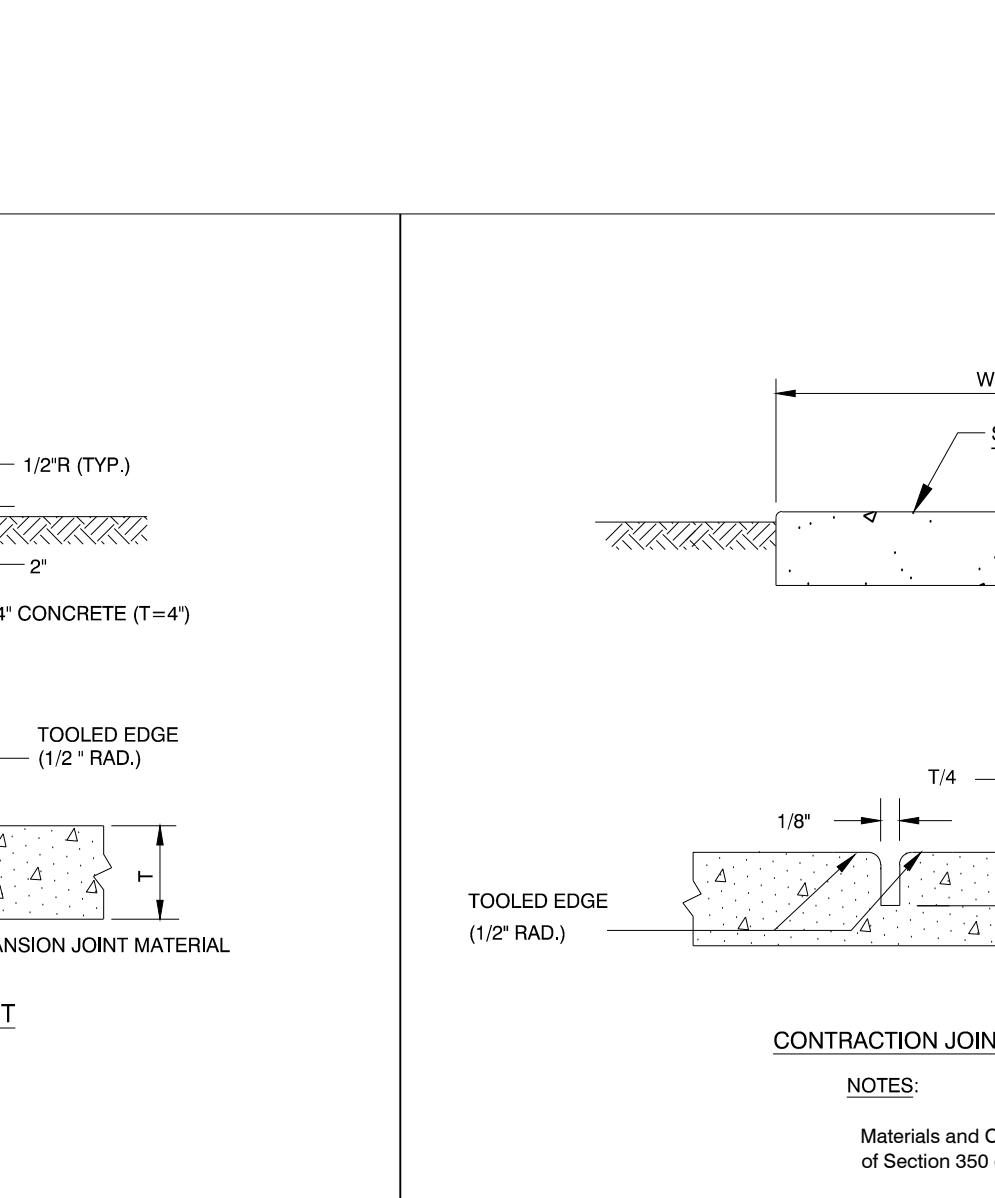
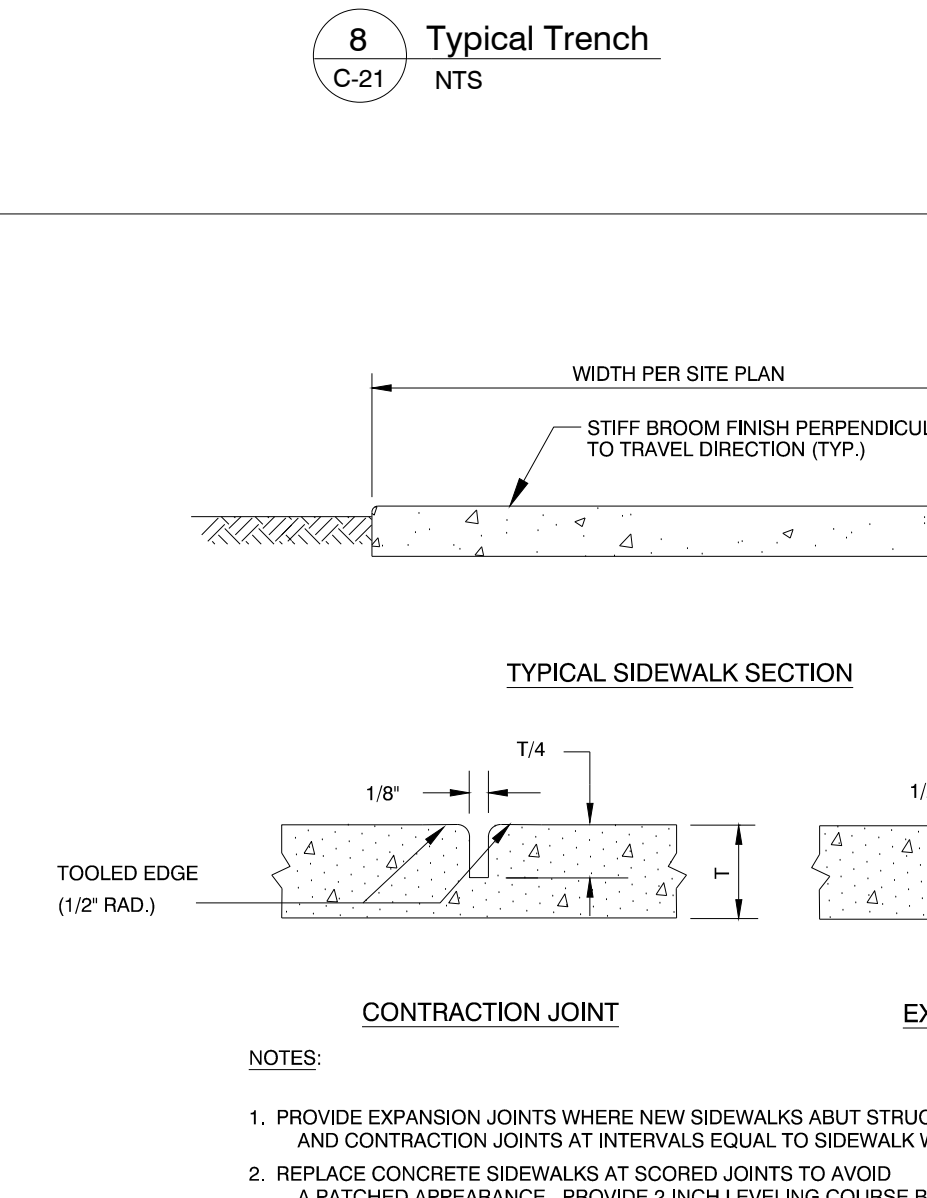


LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

Other Pipe	Horizontal Separation	Crossings (1)	Joint Spacing @ Crossings (Pail Joint Centered)
Storm Sewer, Stormwater Force Main, Reclaimed Water (2)	Water Main 3 ft. minimum	Water Main 12 inches is the minimum, except for storm sewer, then 6 inches is the minimum and 12 inches is preferred.	Alternate 3 ft. minimum
Vacuum Sanitary Sewer	Water Main 10 ft. preferred 3 ft. minimum	Water Main 12 inches preferred 6 inches minimum	Alternate 3 ft. minimum
Gravity or Pressure Sanitary Sewer, Sanitary Sewer Force Main, Reclaimed Water (4)	Water Main 10 ft. preferred 6 ft. minimum (3)	Water Main 12 inches is the minimum, except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred.	Alternate 6 ft. minimum
On-Site Sewage Treatment & Reuse System	10 ft. minimum	---	---

(1) Water main should cross above other pipes. When water main must be below other pipes, the minimum separation is 12 inches.
(2) Reclaimed water regulated under Part III of Chapter 62-410, F.A.C.
(3) 1.5 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 62-410, F.A.C.

11 Typical Sidewalk Detail
C-21 NTS



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PEREZ ENGINEERING & DEVELOPMENT, INC.
CERTIFICATE OF AUTHORIZATION NO. BE79

ALLEN E. PEREZ P.E.
Florida P.E. NO. 51468
August 7, 2012

ORIGINAL: SEPTEMBER 2012

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EAST FRONT ST. FLOOD MITIGATION PROJECT

CITY OF KEY WEST
3121 FLAGLER AVE.
KEY WEST, FL 33040

JOB NO. 121001
DRAWN RTM
DESIGNED AEP
CHECKED AEP
QC SHEET

CIVIL DETAILS

C-21

EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.
2. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
3. ADDITIONAL PROTECTION - ON-SITE PROTECTION MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNFORSEEN CONDITIONS OR ACCIDENTS.
4. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC., ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
5. IF THE HAYBALES/ ROCK BAGS BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE MATERIALS MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.
6. BALES SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
7. BALES SHALL BE PLACED LENGTHWISE IN SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.
8. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACK FILLED. A TRENCH SHALL BE EXCAVATED AROUND THE INLET AND WIDTH OF A BALE TO A MINIMUM DEPTH OF FOUR INCHES. AFTER THE BALES ARE STACKED, THE EXCAVATED SOIL SHALL BE BACK FILLED AND COMPACTED AGAINST THE FILTER BARRIER.
9. EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBAR'S DRIVEN THROUGH THE BALE A MINIMUM OF 2 FEET INTO THE GROUND.
10. LOOSE STRAW SHALL BE WEDGED BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.
11. HAY BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH 1/2 INCH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
12. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.
13. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.
14. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES 1 FOOT OR APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
15. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE HAY BALE BARRIER IS NO LONGER REQUIRED SHALL BE REMOVED. THE AREA SHALL BE DRESSED TO CONFORM TO THE FINISH GRADE, PREPARED AND SEEDDED.
16. ALL FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
17. SHOULD THE FABRIC ON A FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE PROJECT THE SILT FENCE OR FILTER BARRIER SHALL BE REPLACED PROMPTLY.
18. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
19. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE INCH IN ADDITION TO THE REQUIREMENTS SHOWN HERE.
20. THE CONTRACTOR IS RESPONSIBLE FOR THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS AND THE ENVIRONMENTAL MANAGEMENT PLAN (E.M.P.) IN THE ENVIRONMENTAL IMPACT ANALYSIS (E.I.A.) FOR THIS PROJECT.

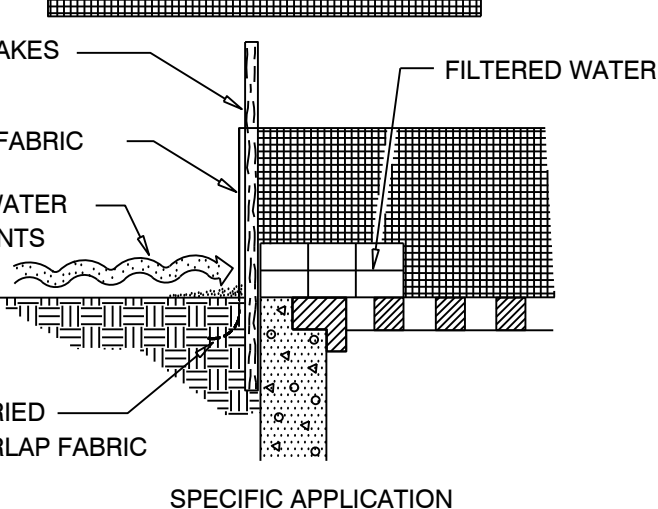
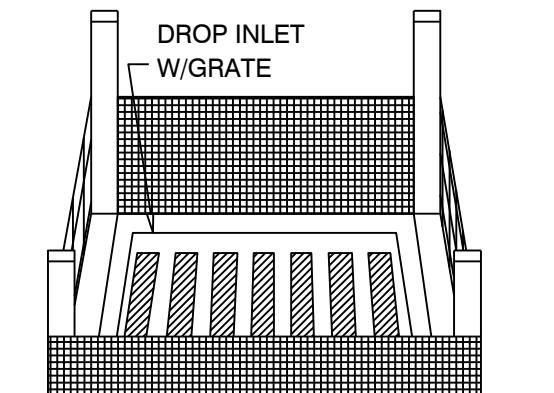
25. ALL TEMPORARY, EROSION, AND SEDIMENT CONTROL TO REMAIN IN PLACE UNTIL COMPLETION OF CONSTRUCTION.
26. IN ADDITION TO THE MINIMUM EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND SHALL UTILIZE ALL ADDITIONAL CONTROLS NECESSARY FOR COMPLIANCE.
27. ALL EXCAVATIONS AND EARTHWORK SHALL BE DONE IN A MANNER TO MINIMIZE WATER TURBIDITY AND POLLUTION. DISCHARGE SHALL BE CONTROLLED AND REROUTED THROUGH HAY FILTERS, SILTATION DIAPERS, SUMPS AND POLISHING PONDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION, CORRECTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE BAHAMAS AND THE ENVIRONMENTAL MANAGEMENT PLAN AND ENVIRONMENTAL IMPACTS ASSESSMENT FOR THIS PROJECT.
28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY SEDIMENT THAT LEAVES THE SITE AND CHANGES ANY DOWNSTREAM CONDITIONS BY RAISING CHANNEL BOTTOMS AND/OR CLOGGING OUTFALL CULVERTS.
29. THE CONTRACTOR SHALL PAY FOR ANY WATER QUALITY CONTROL VIOLATIONS FROM ANY AGENCY THAT RESULTS IN FINES BEING ASSESSED TO THE OWNER BECAUSE OF THE CONTRACTOR'S FAILURE TO ELIMINATE TURBID RUNOFF FROM LEAVING THE SITE AND RAISING TURBIDITY LEVELS ABOVE EXISTING BACKGROUND LEVEL.

EROSION AND SEDIMENT CONTROL GENERAL NOTE:

THE ATTACHED BEST MANAGEMENT PRACTICES (BMP'S) DETAILS AND SPECIFICATIONS ARE ONLY A SUGGESTED APPROACH DEVELOPED FOR USE BY THE OWNER/CONTRACTOR TO ASSIST THEM IN IMPLEMENTING APPROPRIATE POLLUTION PREVENTION TECHNIQUES.

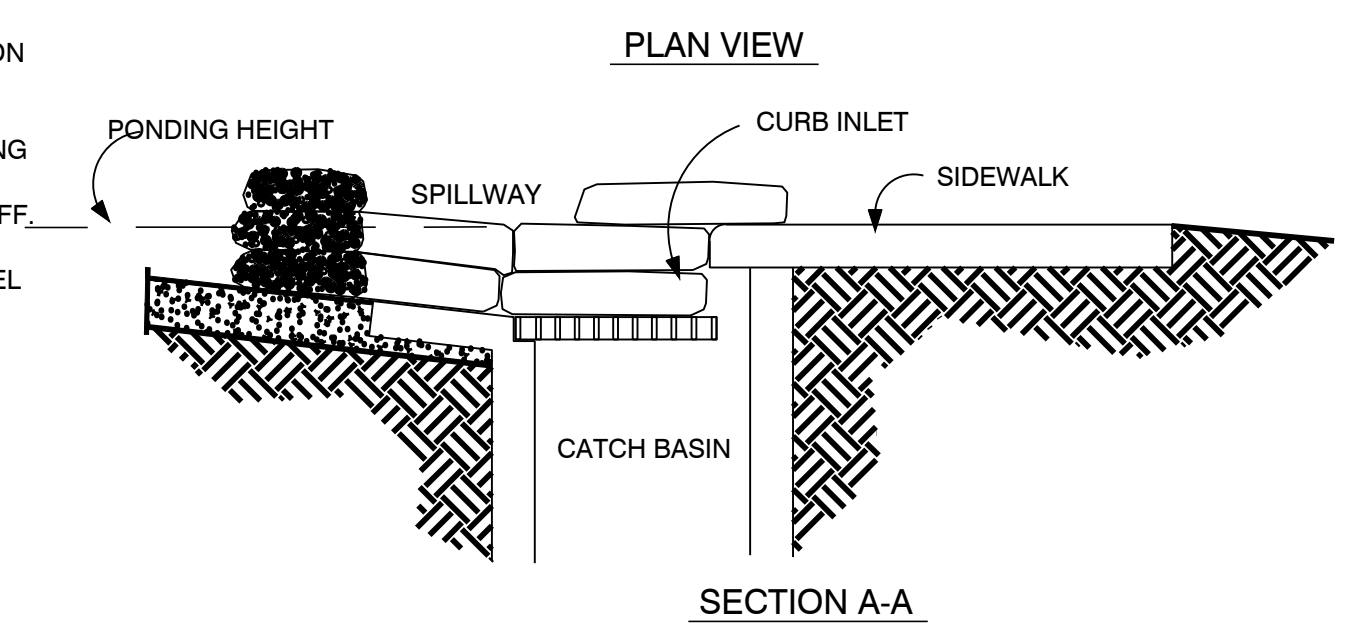
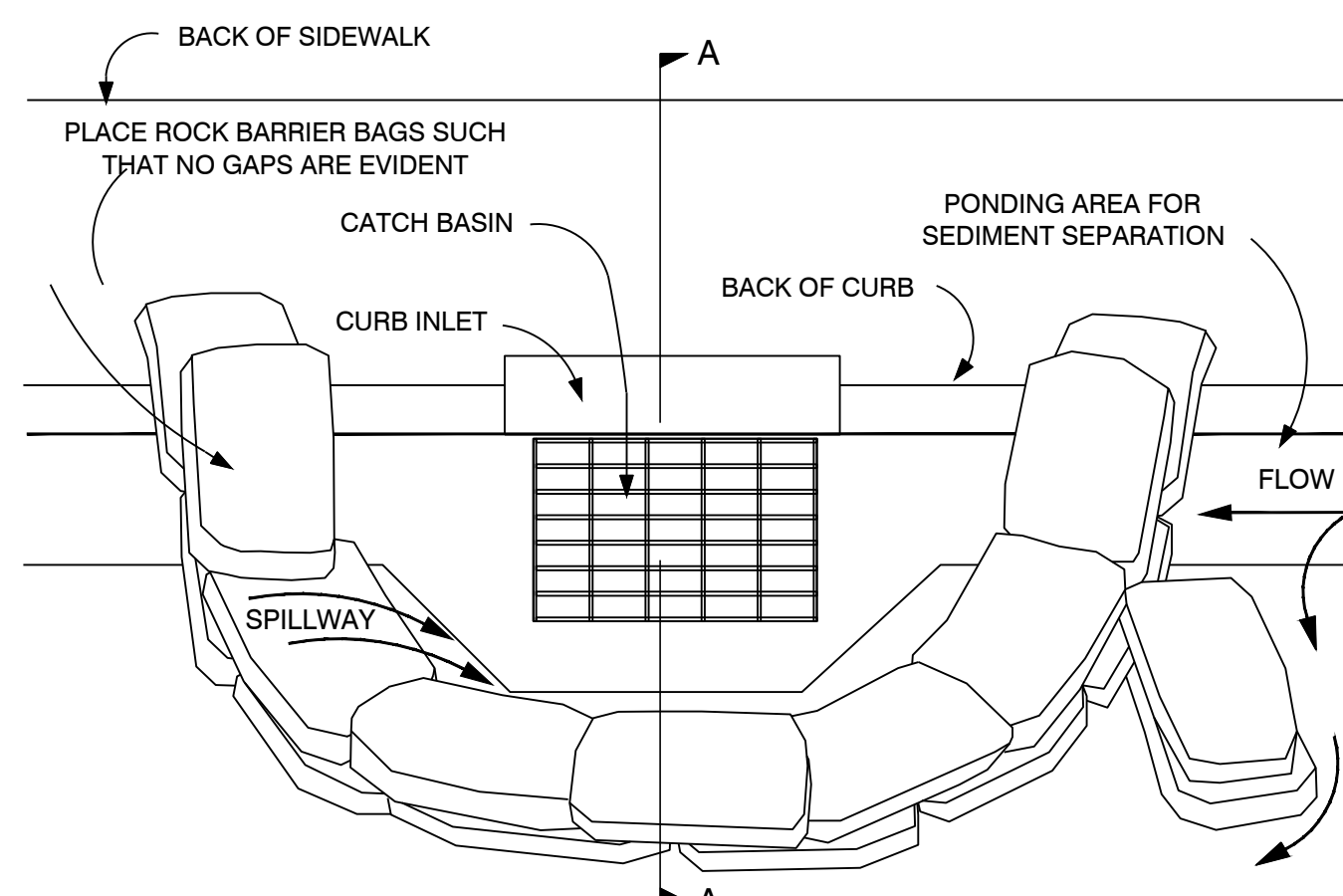
IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND IMPLEMENT THE BEST MANAGEMENT PRACTICES THAT ARE APPROPRIATE FOR THE PROJECT'S SITE SPECIFIC CONDITIONS DURING THE LIFE OF THE CONSTRUCTION ACTIVITIES.

CONTRACTOR SHALL SUBMIT A EROSION AND SEDIMENT CONTROL PLAN FOR APPROVAL BY THE CITY PRIOR TO BEGINNING CONSTRUCTION



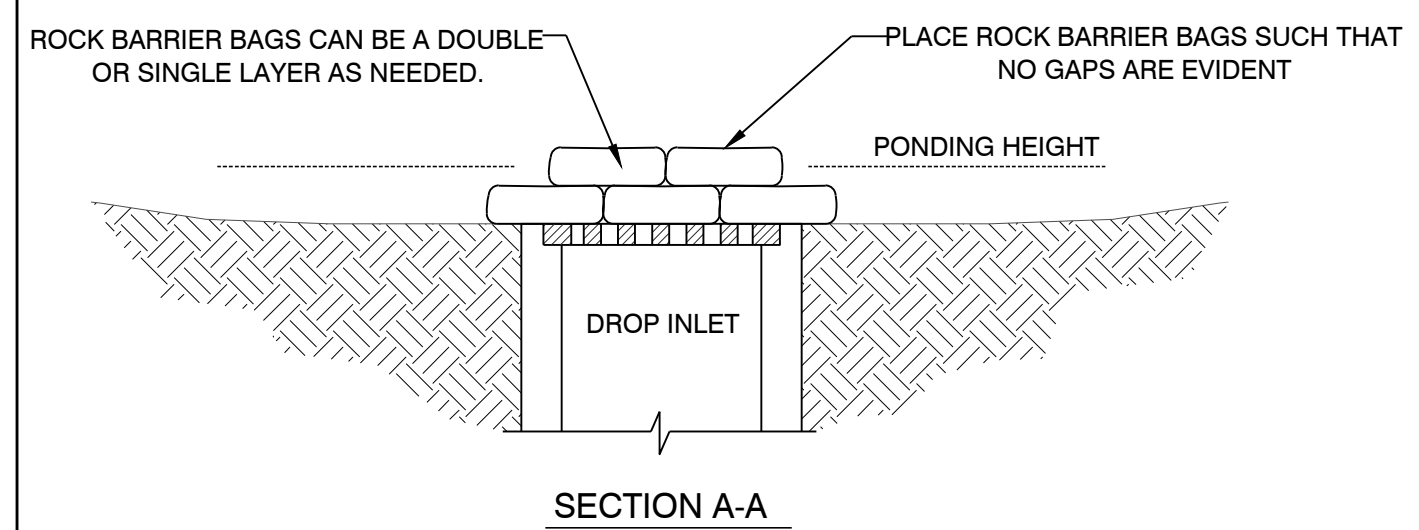
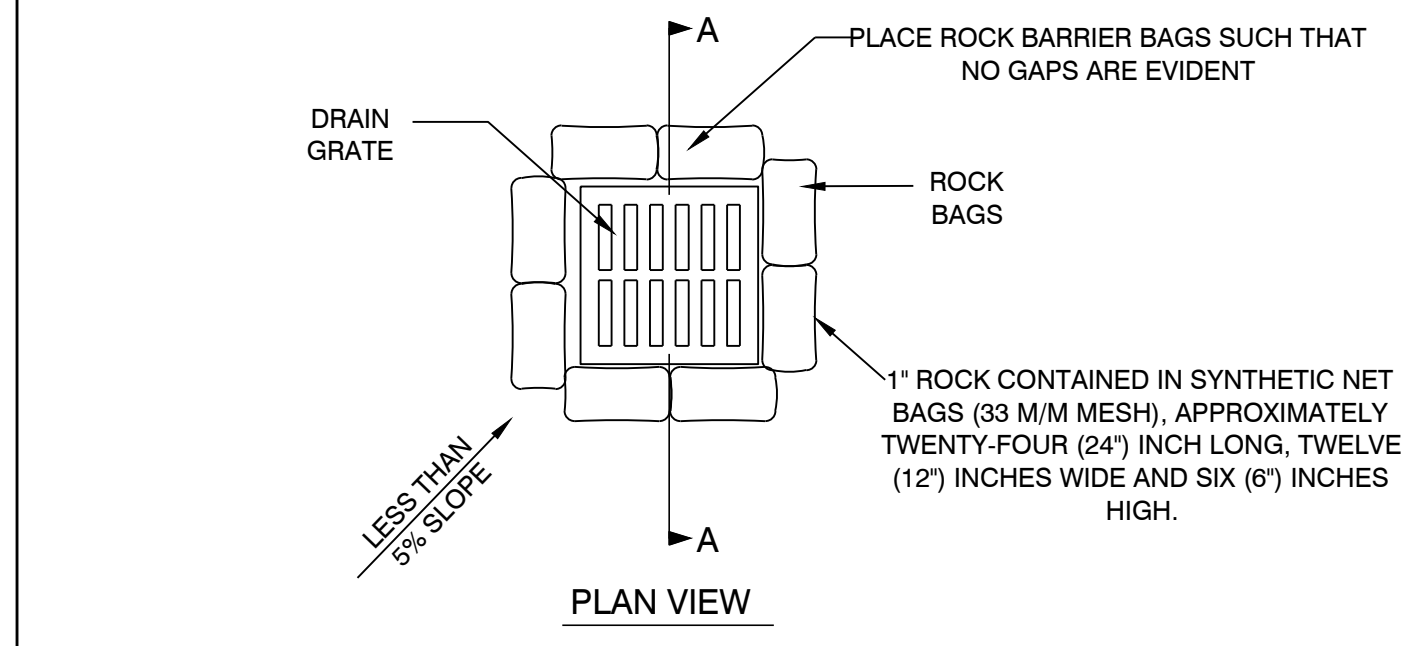
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT NON PAVED AREA (SLOPES NO GREATER THAN 5%) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS ALONG ROADWAYS.

1 Drop Inlet Sediment Filter
C-24 NTS



- NOTES:
1. ALL ROCK BAG BARRIERS MUST AGREE WITH THE NOTES ON PREVIOUS PAGE.
 2. PLACE CURB TYPE ROCK BAG BARRIER ON GENTLY SLOPING STREET, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
 3. BAGS OF WOVEN GEOTEXTILE FABRIC, FILLED WITH GRAVEL MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT.
 4. LEAVE ONE SANDBAG GAP IN THE TOP ROW ON THE SIDE AWAY FROM FLOW, TO PROVIDE A SPILLWAY, OR IN THE CENTER IF PONDING IS NEEDED ON BOTH SIDES.
 5. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT, SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY

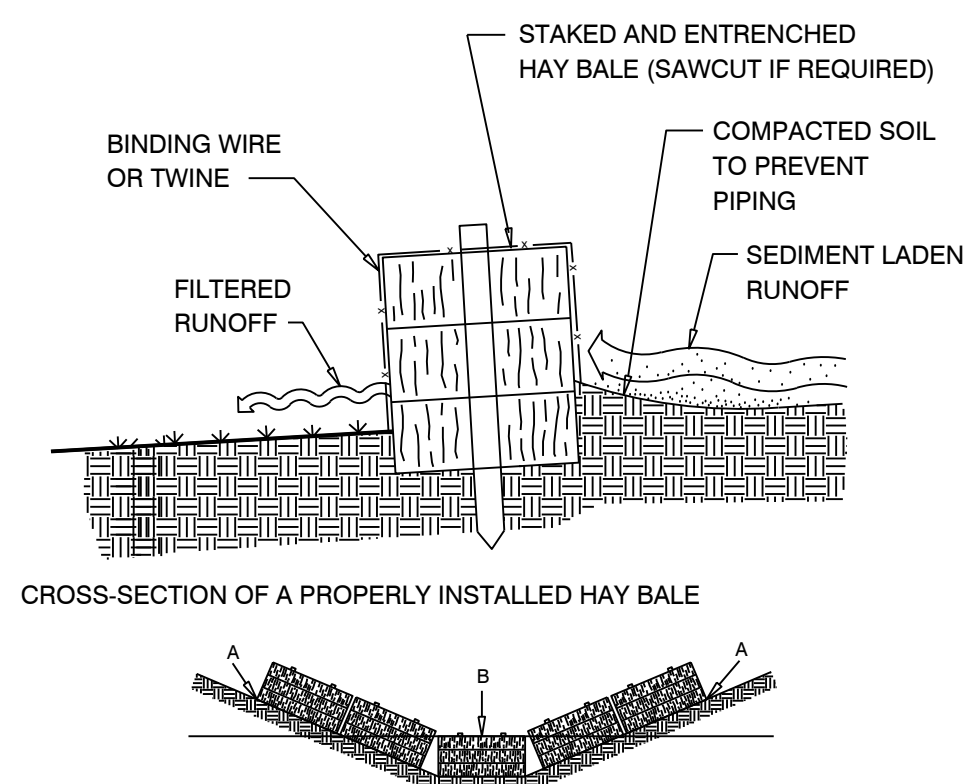
2 Silt Rock Bag Curb Inlet Filter
C-24 NTS



- NOTES:
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%).
 2. A "REASONABLE" DESIGN SIZE PARTICLE TO CAPTURE MUST BE SELECTED.
 3. SIZE DISTRIBUTION OF UPSTREAM SOIL PARTICLES MUST BE EVALUATED.
 4. INFLOW AND OUTFLOW FROM THE SYSTEM FOR A SPECIFIC FREQUENCY STORM MUST BE KNOWN.
 5. POND VOLUME IS DIRECTLY PROPORTIONAL TO THE DISCHARGE RATE OF WATER FROM THE SYSTEM.
 6. POND VOLUME IS INVERSELY PROPORTIONAL TO THE MASS OF THE DESIGN SIZE SUSPENDED PARTICLE.
 7. A SYSTEM MUST PROVIDE SUFFICIENT FLOW TO ALLOW FOR DEPOSITION OF DESIGN SIZE PARTICLES.
 8. THE PONDING HEIGHT MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.

3 Silt Rock Bag Drop Inlet Filter
C-24 NTS

21. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WATER BODIES AND WETLAND AREAS, WITHIN 200 FT. OF THE CONSTRUCTION LIMITS AND FARTHER WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
22. ALL DISTURBED AREAS THAT WILL REMAIN UNPAVED SHALL BE GRASSED, FERTILIZED, MULCHED AND MAINTAINED UNTIL COMPLETION OF THE PROJECT (UNTIL FURTHER VEGETATIVE COVER IS ESTABLISHED FOR AREAS TO RECEIVE FURTHER LANDSCAPING).
23. ALL DISCHARGE FROM DE WATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE SEWER SYSTEM IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
24. ALL GRASSED FILL SLOPES 4:1 OR STEEPER TO RECEIVE OVERLAPPED (SHINGLE STYLE) SOLID SOD WITH EACH PIECE INDIVIDUALLY STAKED OR PINNED. OVERLAPPING SHALL BE A MINIMUM OF 5".

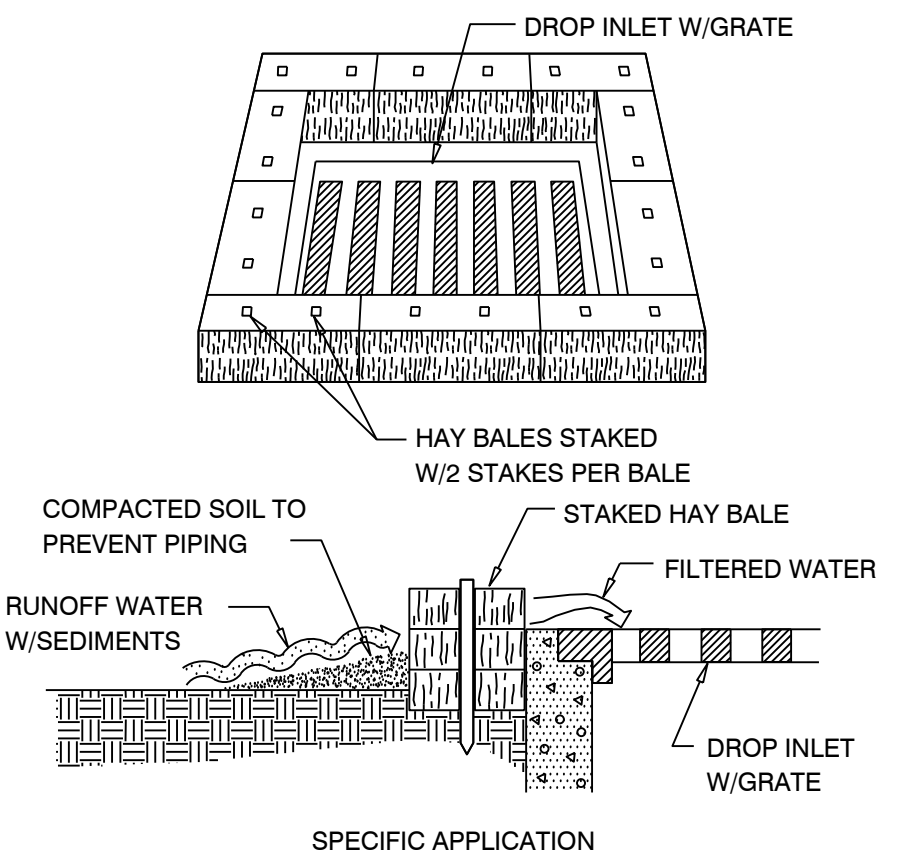


POINTS 'A' SHOULD BE HIGHER THAN POINT 'B'
PROPER PLACEMENT OF HAY BALE BARRIER IN DRAINAGE WAY

NOTES:

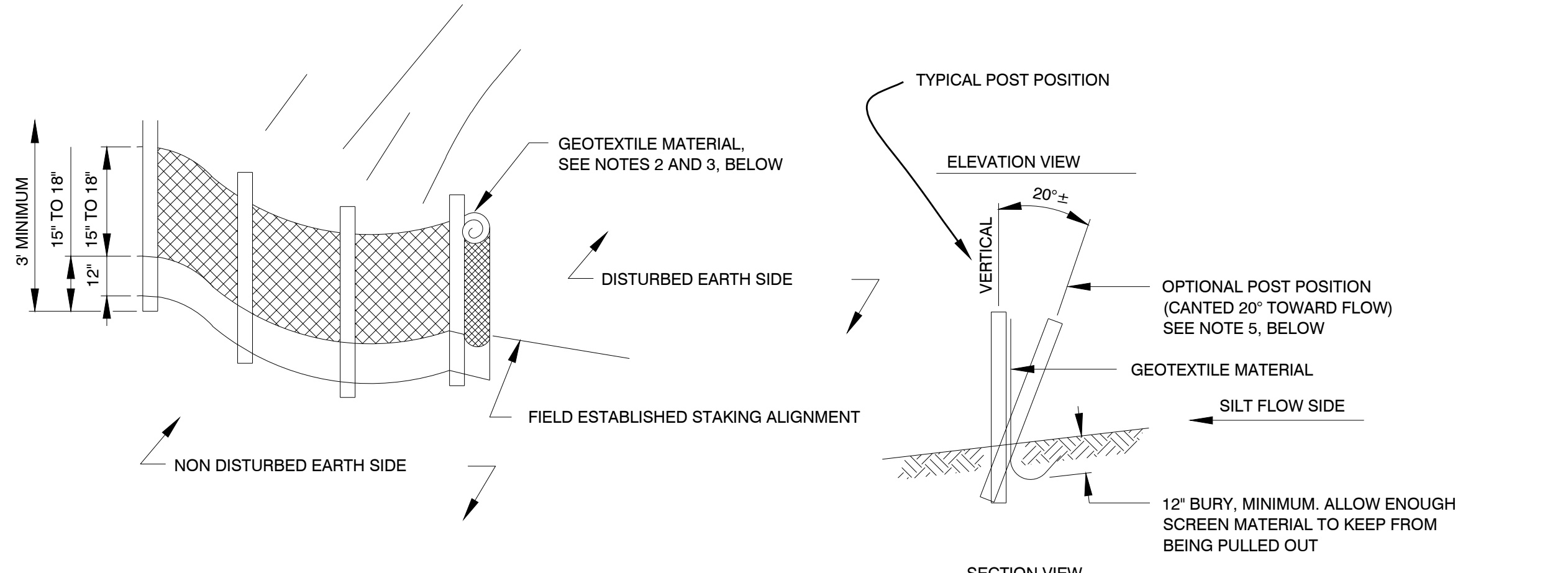
1. EXCAVATE THE TRENCH
2. PLACE AND STAKE HAY BALES
3. WEDGE LOOSE STRAW BETWEEN BALES
4. BACK FILL AND COMPACT THE EXCAVATED SOIL

4 Hay Bale Barrier
C-24 NTS



THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5%) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS ALONG ROADWAYS

5 Hay Bale Drop Inlet Filter
C-24 NTS



- NOTES:
1. POST: 2"x2" WOOD, P.T. OR 2-1/2"Ø STEEL AT 6' CENTERS, MAXIMUM.
 2. GEOTEXTILE: GRAB TENSILE AT 90 LBS. TRAPEZOIDAL TEAR AT 35 LBS. MULLEN BURST AT 180 PSI.
 3. GEOTEXTILE MATERIAL SHALL BE BURIED IN THE GROUND A MINIMUM OF 12" AND BACK FILLED.
 4. ALSO SEE FDOT INDEX 199, "GEOTEXTILE CRITERIA", EROSION CLASS.
 5. OPTIONAL POST POSITION REQUIRED WHEN SLOPE IS GREATER THAN 1:2.

6 Staked Silt Barrier Detail
C-24 NTS

CIVIL ENGINEERING - REGULATORY PERMITTING - CONSTRUCTION MANAGEMENT

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Florida P.E. NO. 51488
August 7, 2012

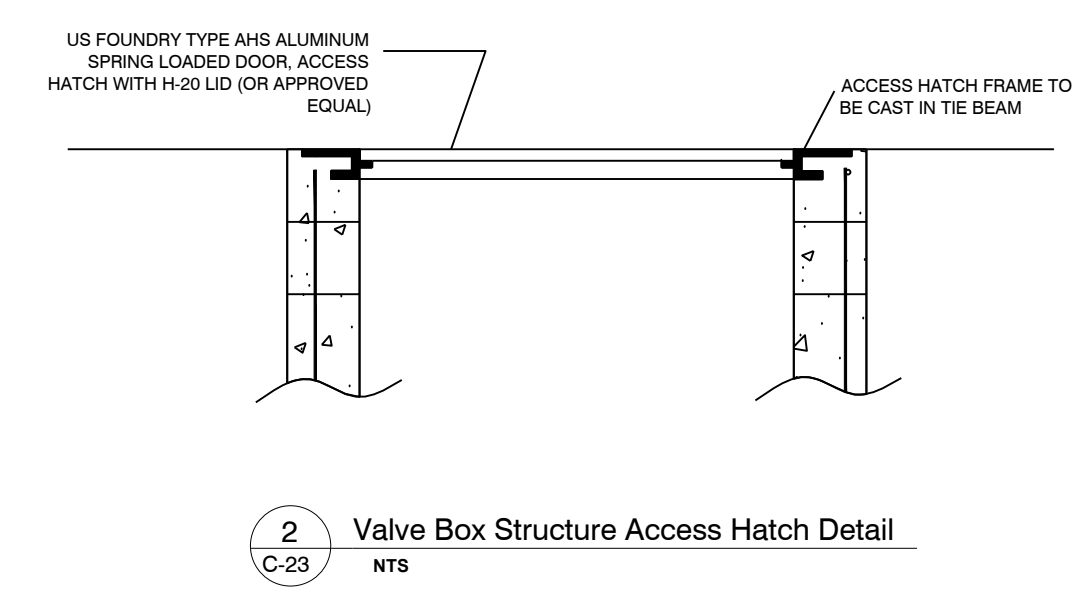
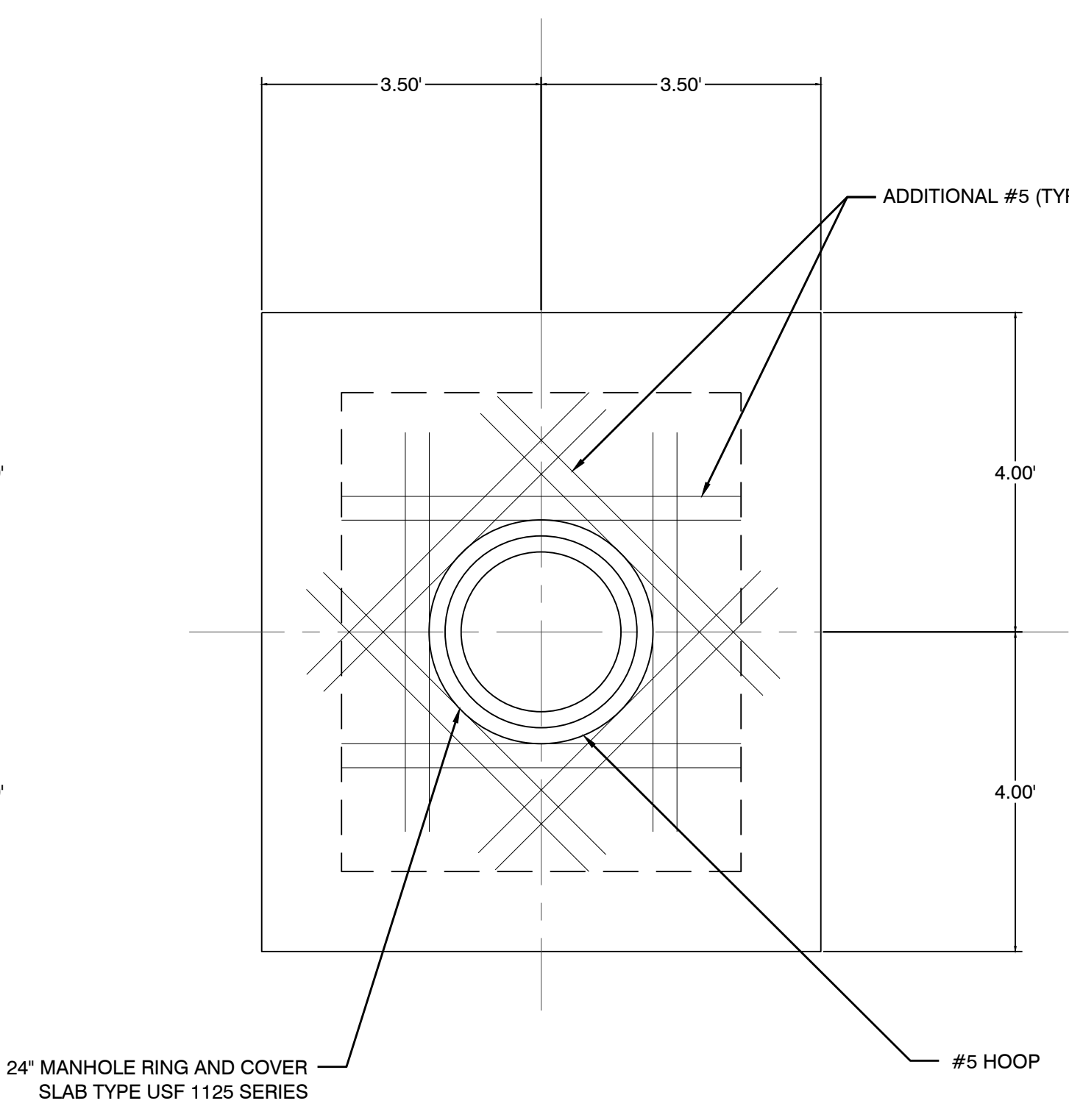
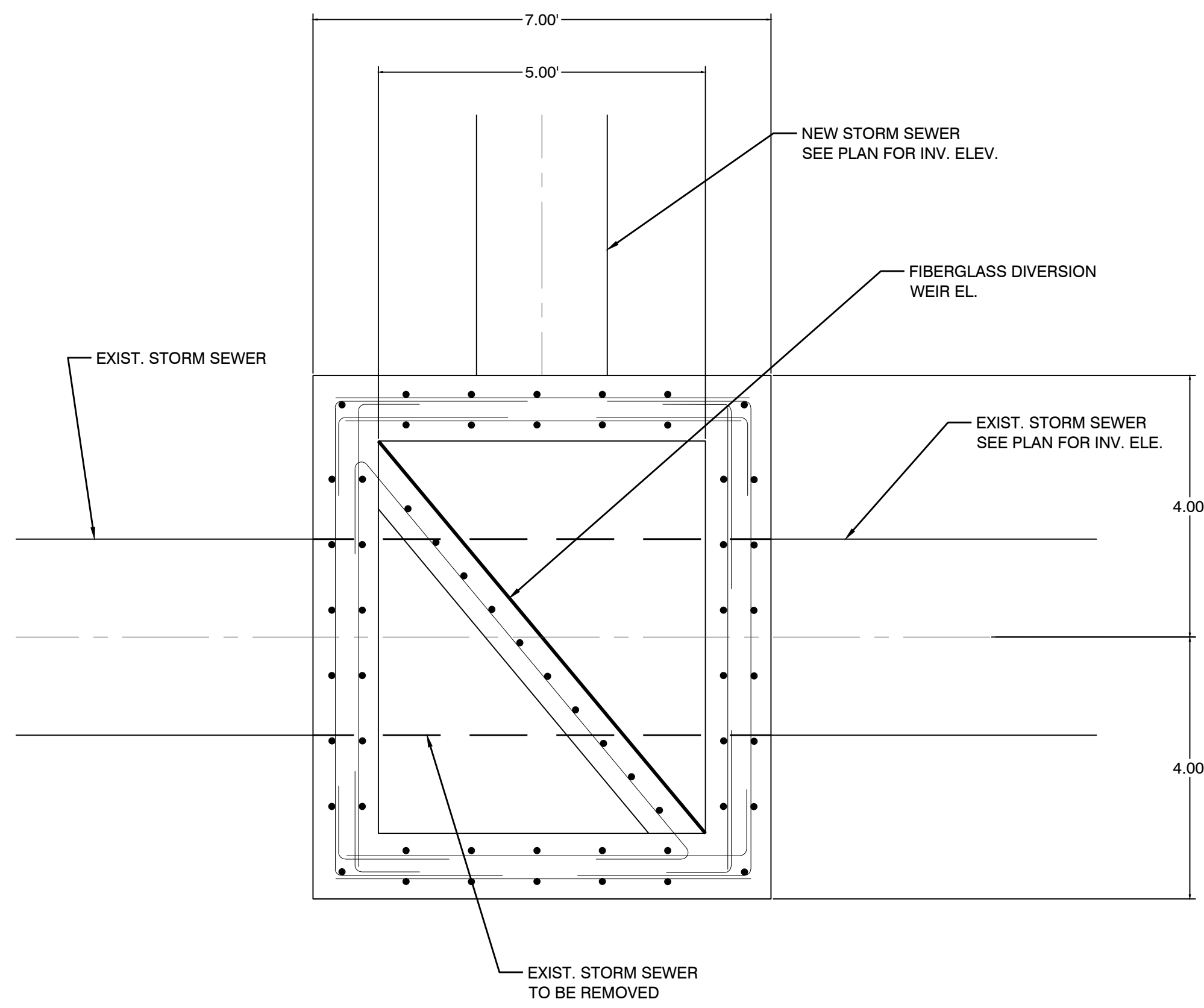
REVISIONS:

1	ORIGINAL - SEPTEMBER 2012
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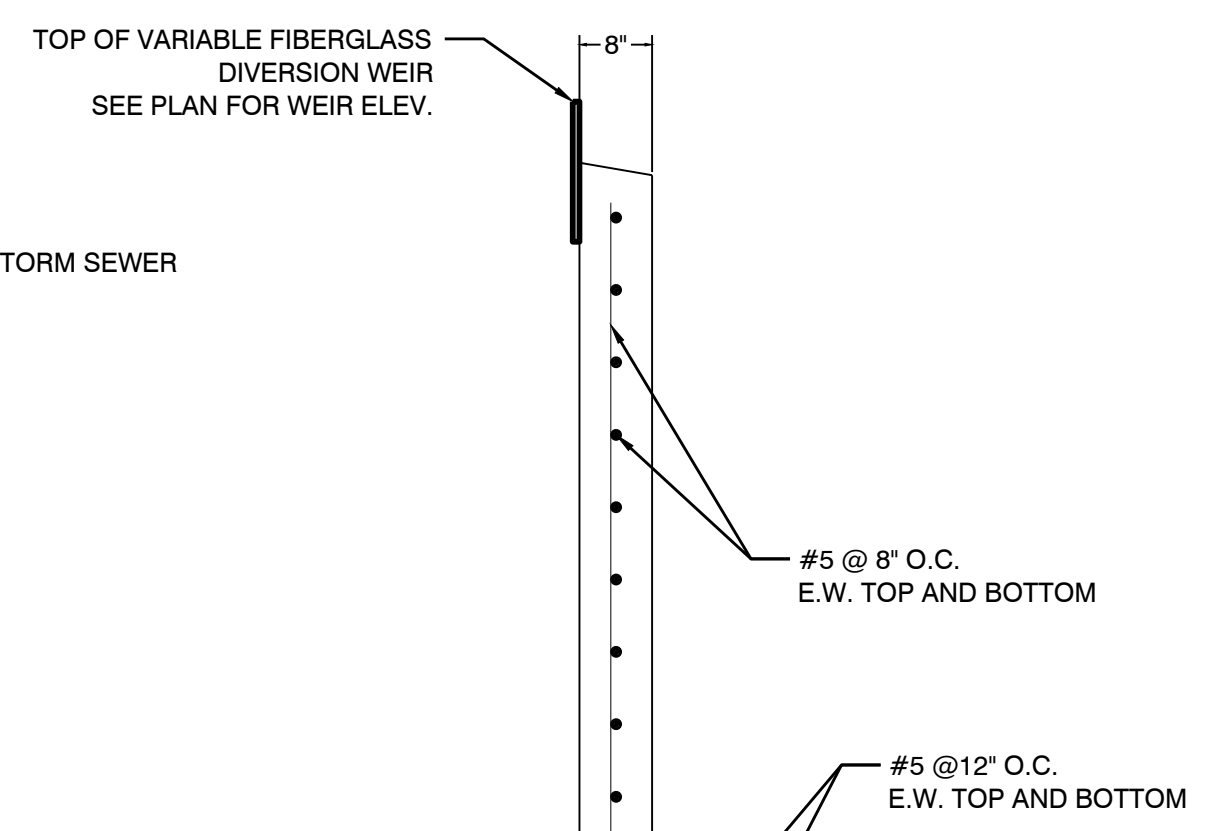
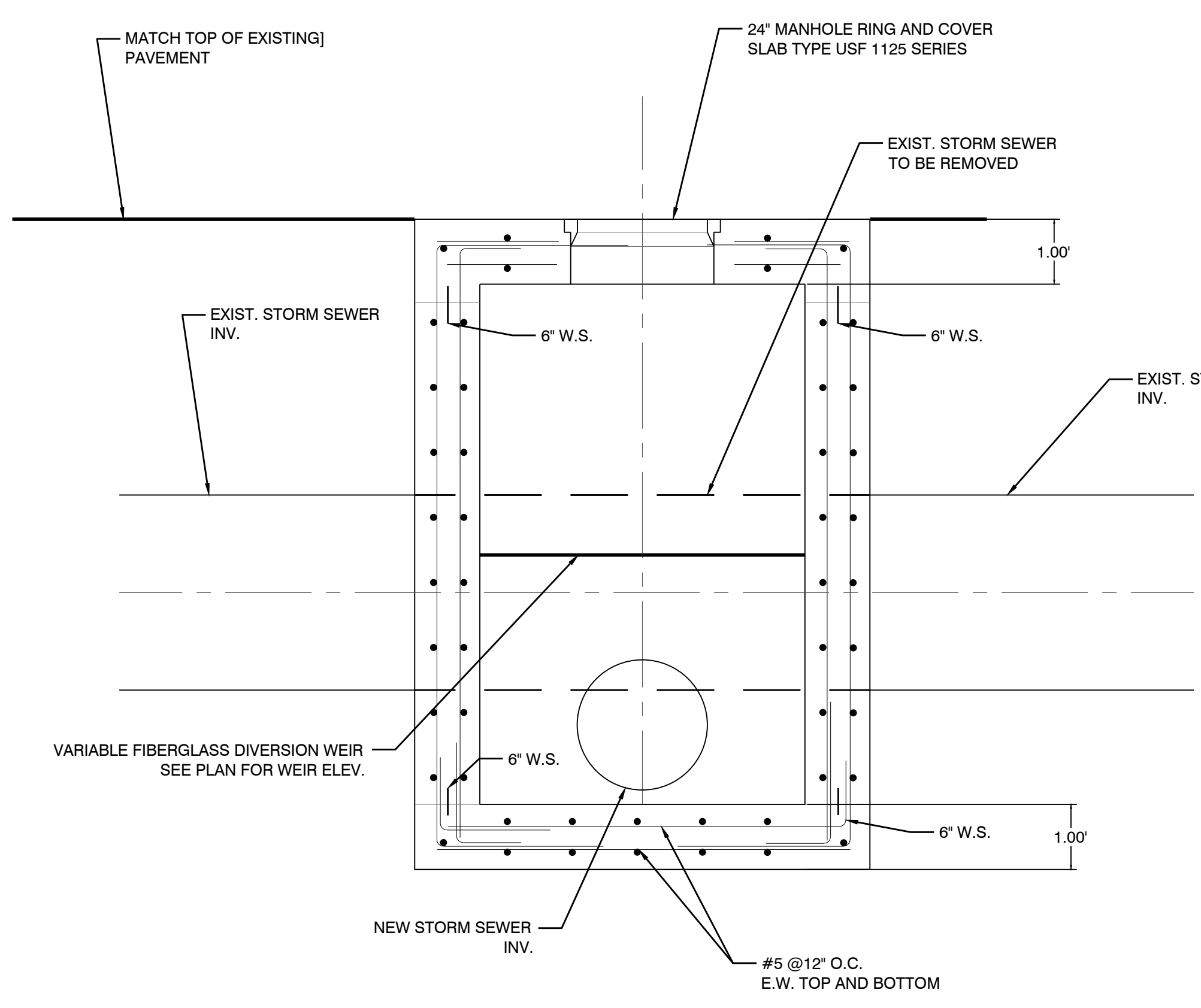
EAST FRONT ST. FLOOD MITIGATION PROJECT

CITY OF KEY WEST
3121 FLAGLER AVE.
KEY WEST, FL 33040

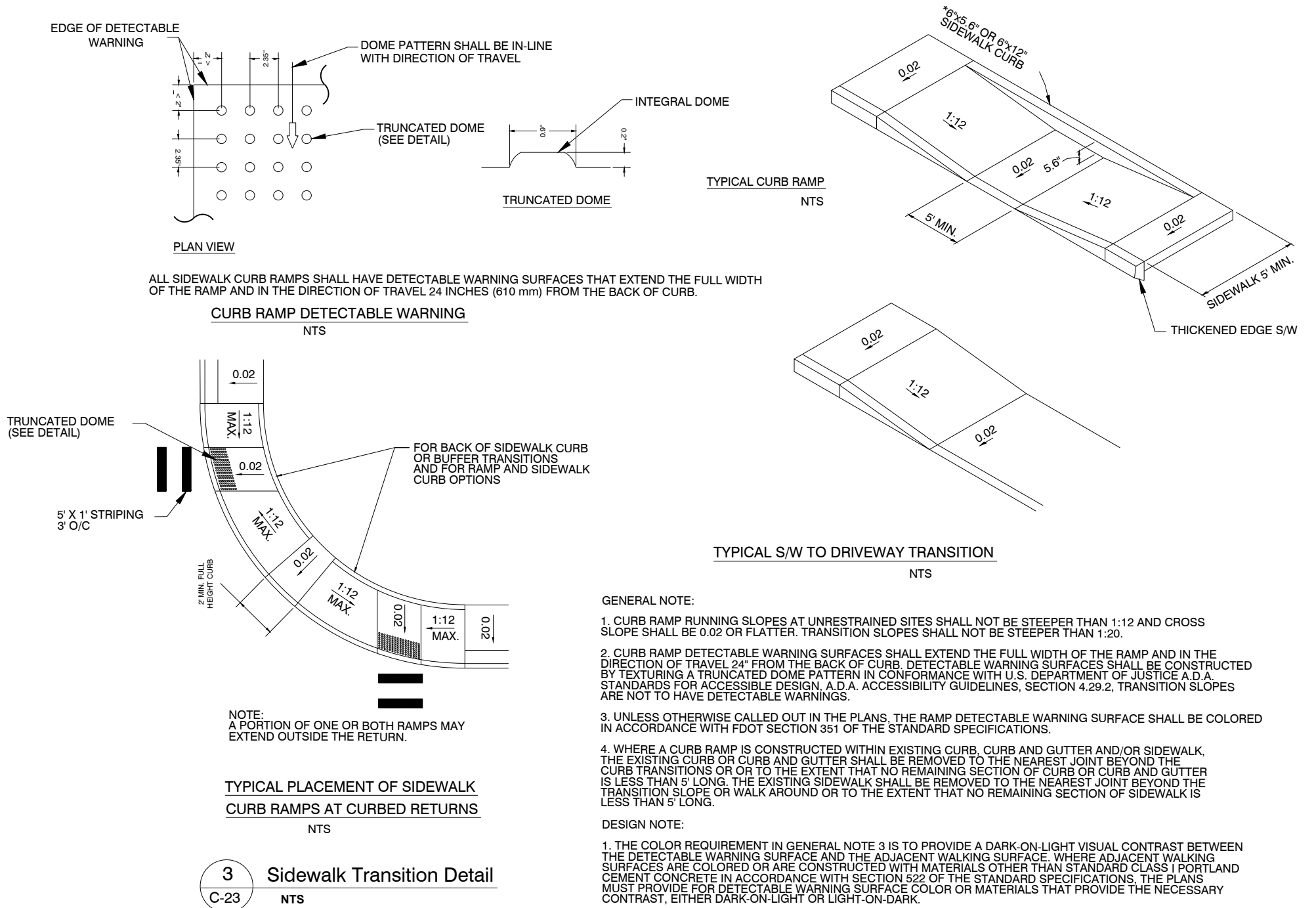
JOB NO. 121001
DRAWN RTM
DESIGNED AEP
CHECKED AEP
QC
SHEET



2 Valve Box Structure Access Hatch Detail
C-23 NTS



1 Diversion Structure Detail
C-23 NTS



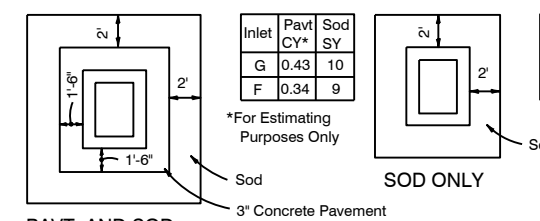
3 Sidewalk Transition Detail
C-23 NTS

GENERAL NOTE:
 1. CURB RAMP RUNNING SLOPES AT UNRESTRAINED SITES SHALL NOT BE STEEPER THAN 1:12 AND CROSS SLOPE SHALL BE 0:02 OR FLATTER. TRANSITION SLOPES SHALL NOT BE STEEPER THAN 1:20.
 2. CURB RAMP DETECTABLE WARNING SURFACES SHALL EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24\"/>

DESIGN NOTE:
 1. THE COLOR REQUIREMENT IN GENERAL NOTE 3 IS TO PROVIDE A DARK-ON-LIGHT VISUAL CONTRAST BETWEEN THE DETECTABLE WARNING SURFACE AND THE ADJACENT WALKING SURFACE. WHERE ADJACENT WALKING SURFACES ARE COLORED OR ARE CONSTRUCTED WITH MATERIALS OTHER THAN STANDARD CLASS PORTLAND CEMENT CONCRETE IN ACCORDANCE WITH SECTION 922 OF THE STANDARD SPECIFICATIONS, THE PLANS MUST PROVIDE FOR DETECTABLE WARNING SURFACE COLOR OR MATERIALS THAT PROVIDE THE NECESSARY CONTRAST, EITHER DARK-ON-LIGHT OR LIGHT-ON-DARK.

REVISIONS:

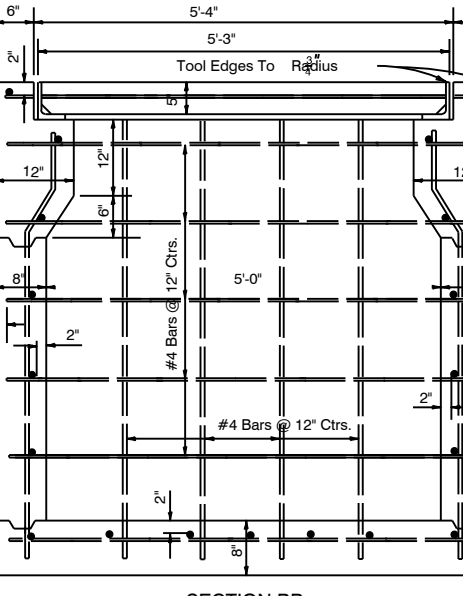
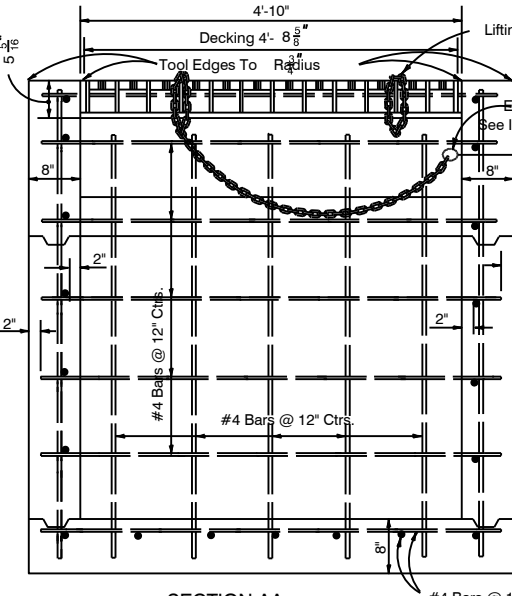
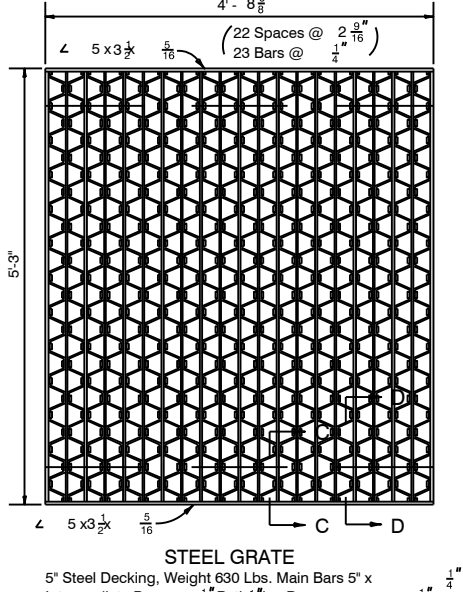
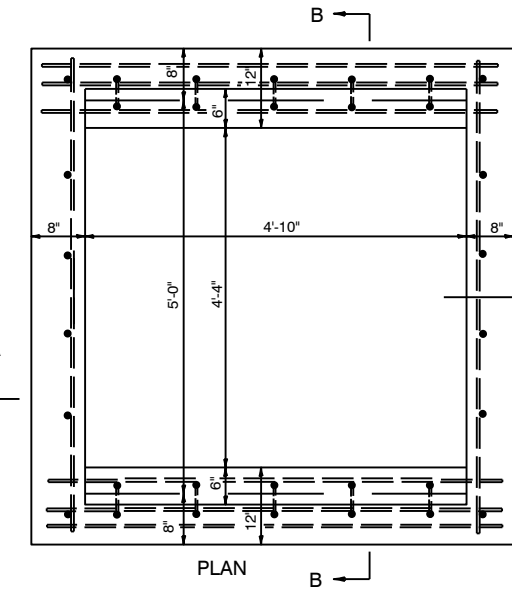
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GENERAL NOTES

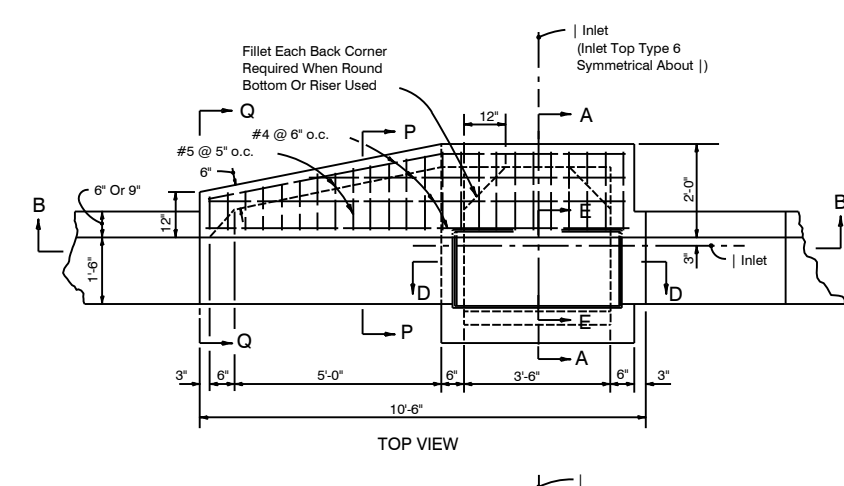
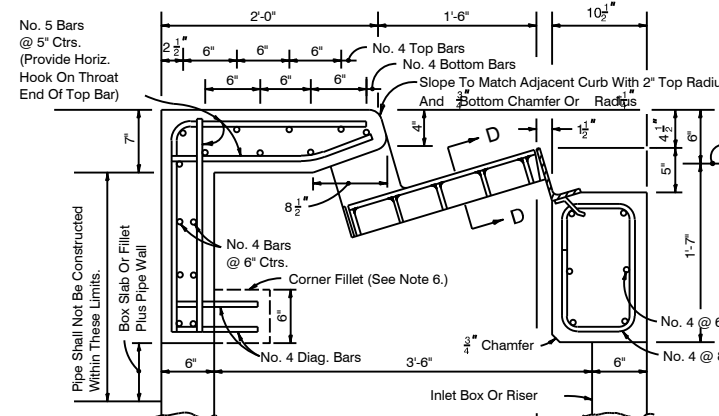
1. These inlets are designed for use in ditches, medians, pavement areas, or other areas subject to heavy wheel loads where debris is minimal and is subject to pedestrian and/or bicycle traffic.
2. When alternate G grate is specified in plans, the grate is to be hot dipped galvanized after fabrication.
3. These inlets may be used with A.B. structure bottoms, Index 200. The inlet and bottom connections are to be paid for under the contract unit price for inlets (DT 50).
4. Inlets are to include an Environmental Awareness Message via a Ductless Storm Drain Marker (or approved equal). Cost for marker to be included in unit price for inlet.

PAVEMENT AND SODDING

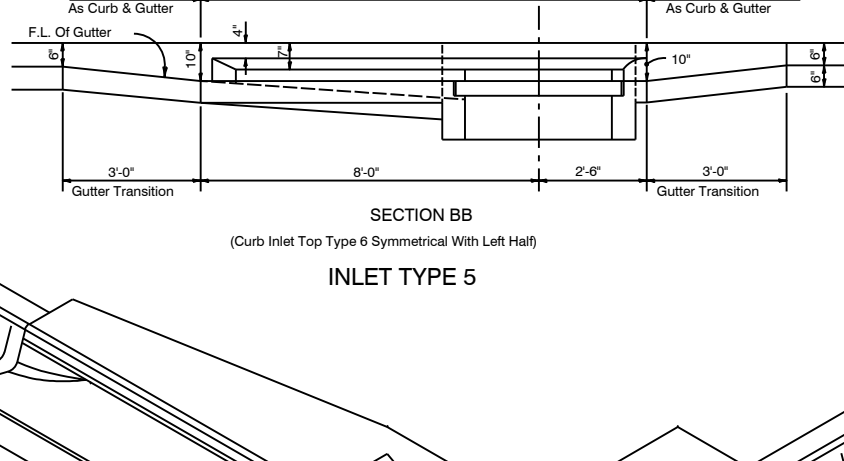
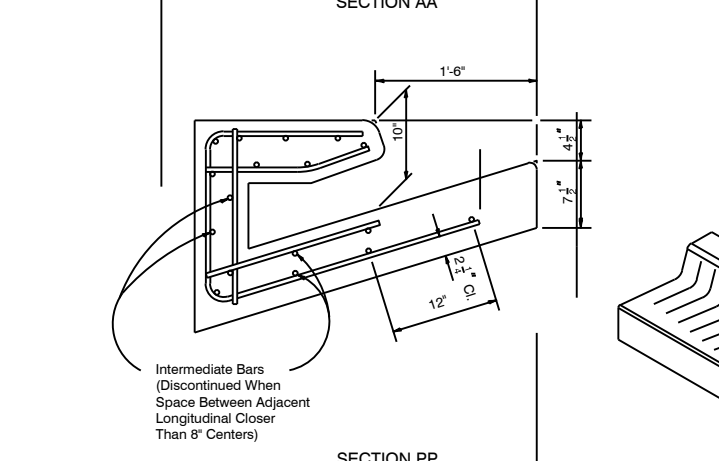


TYPE G

1 FDOT Ditch Bottom Inlet Type "G" NTS



TOP VIEW



SECTION BB

SECTION CC

SECTION DD

SECTION EE

SECTION FF

SECTION GG

SECTION HH

SECTION II

SECTION JJ

SECTION KK

SECTION LL

SECTION MM

SECTION NN

SECTION OO

SECTION PP

SECTION QQ

SECTION RR

SECTION SS

SECTION TT

SECTION UU

SECTION VV

SECTION WW

SECTION XX

SECTION YY

SECTION ZZ

SECTION AA

SECTION BB

SECTION CC

SECTION DD

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