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HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL.: (954) 739-6400
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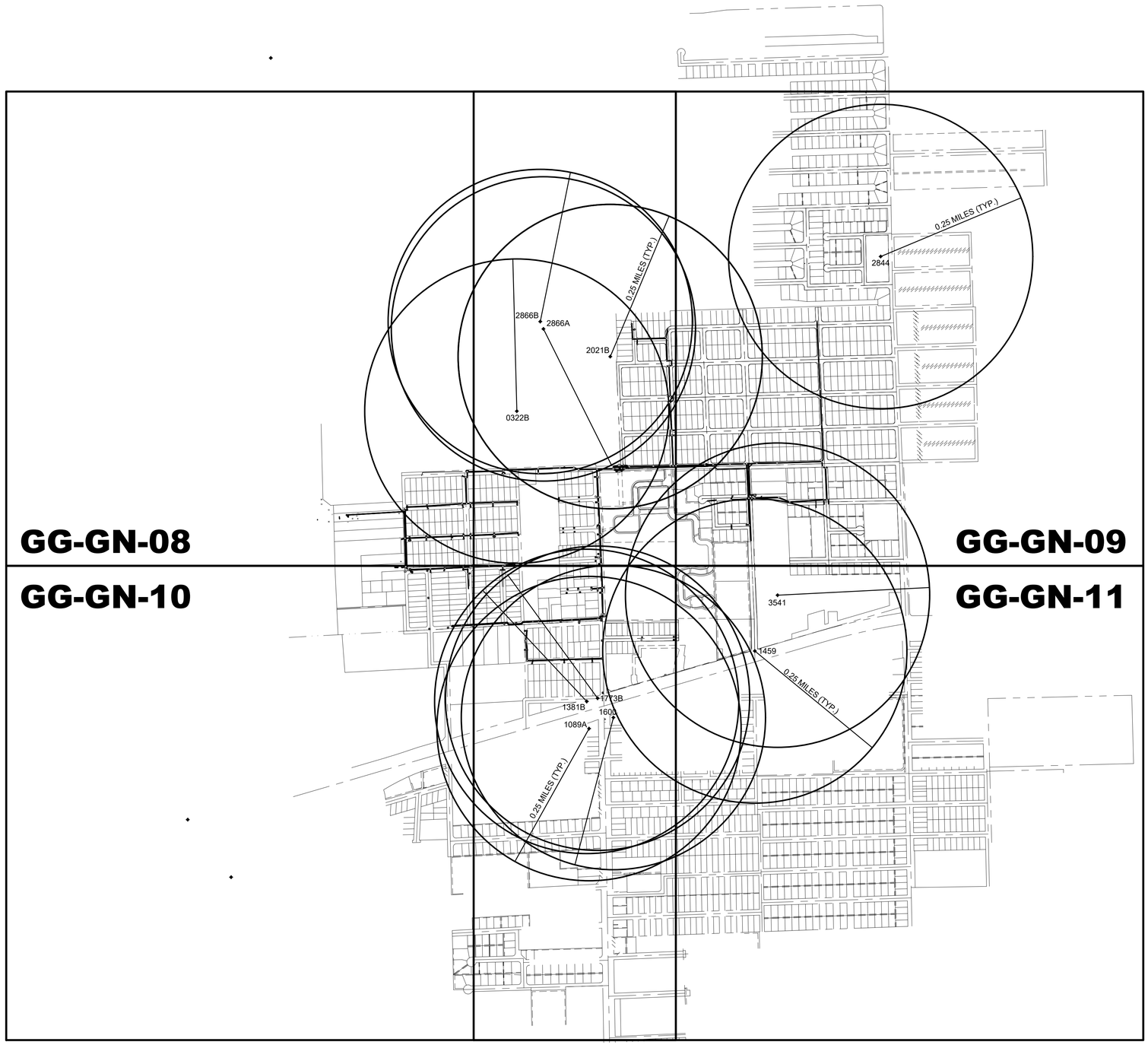

0 500' 1000'

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FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
CONTAMINATED SITES LOCATION
SITE PLAN & KEY MAP

SHEET NO.
GG-GN-07

TOTAL: 255

CAD FILE:
11868-GG-GN-KEY-07

DRAWING FILE NO.
4-142-42

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HOLLYWOOD, FLORIDA 33021

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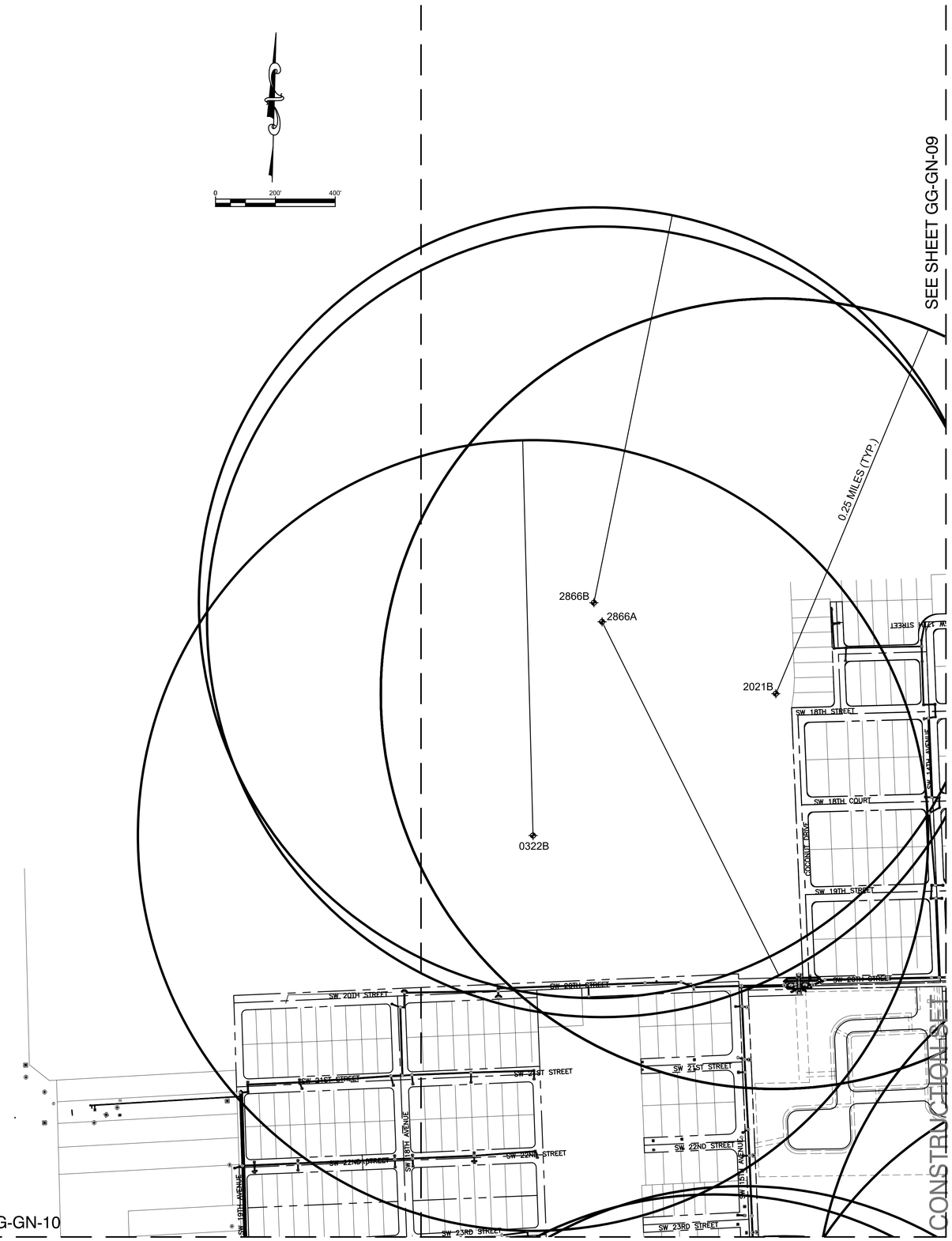
8/26/2021



MATCHLINE - SEE SHEET GG-GN-10

CONTAMINATED SITE SCHEDULE WITHIN 0.25 MILES OF PROJECT SITE									
SITE NO.	FACILITY NAME	STREET ADDRESS	CITY	ZIP CODE	DEP FACILITY NO.	PROGRAM TYPE	FacilityType	Pollutant	Lead Agency
0322B	CRP LMC Prop	1601 SW 20TH ST	FORT LAUDERDALE	33315		NF	MARINA	ARSENIC, METALS	BCEPD
2021B	RIVER BEND MARINA	1515 SW 20TH ST	FORT LAUDERDALE	33315	068837928	NF	MARINA	PETROLEUM	BCEPD
2866A	SHM South Fork	1500 SW 17TH ST	FORT LAUDERDALE	33315		NF	MARINA	METALS	BCEPD
2866B	SHM South Fork	1500 SW 17TH ST	FORT LAUDERDALE	33315	068731765	NF	MARINA	DIESEL	BCEPD

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SCALE: 1"=200'
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FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
CONTAMINATED SITES LOCATION
SITE PLAN

SHEET NO.
GG-GN-08
TOTAL: 255
CAD FILE: 11868-GG-GN-PLANS
DRAWING FILE NO. 4-142-42

CONTAMINATED SITE SCHEDULE WITHIN 0.25 MILES OF PROJECT SITE									
SITE NO.	FACILITY NAME	STREET ADDRESS	CITY	ZIP CODE	DEP FACILITY NO.	PROGRAM TYPE	FacilityType	Pollutant	Lead Agency
2844	GORE NURSERY	1611 SW 9TH AVE	FORT LAUDERDALE	33315		PCR	NURSERY	ARSENIC, METALS	BCEPD

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4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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0 200' 400'

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CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
CONTAMINATED SITES LOCATION
SITE PLAN

SHEET NO.
GG-GN-09

TOTAL: 255

CAD FILE: 11868-GG-GN-PLANS

DRAWING FILE NO. 4-142-42

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4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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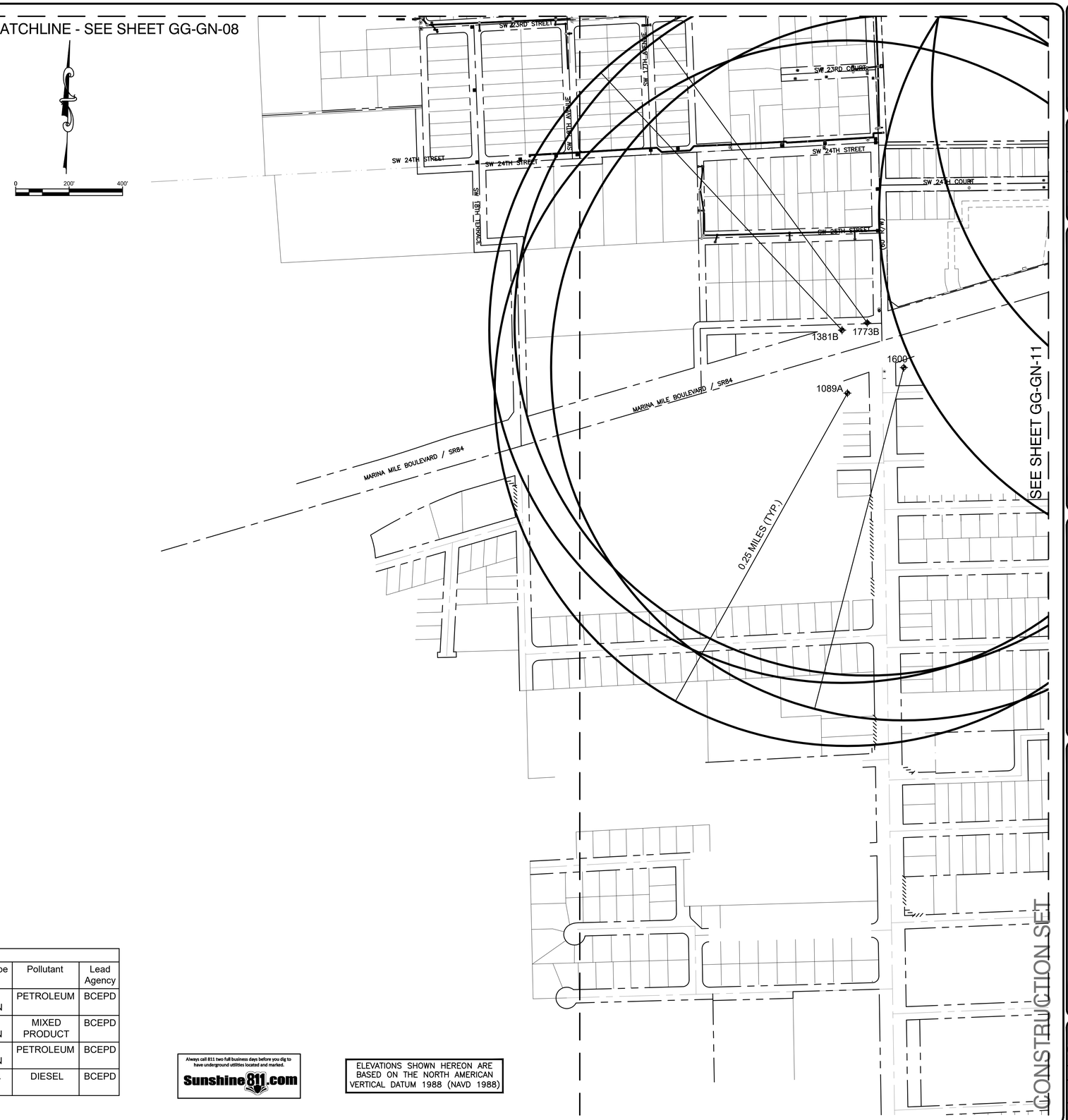

CONTAMINATED SITE SCHEDULE WITHIN 0.25 MILES OF PROJECT SITE									
SITE NO.	FACILITY NAME	STREET ADDRESS	CITY	ZIP CODE	DEP FACILITY NO.	PROGRAM TYPE	FacilityType	Pollutant	Lead Agency
1089A	7-ELEVEN #25420	1500 STATE ROAD 84	FORT LAUDERDALE	33315	068622200	FDEP	GAS STATION	PETROLEUM	BCEPD
1381B	TWIN-MINI/ COASTAL FUELS	1531 STATE ROAD 84	FORT LAUDERDALE	33315	0688622255	FDEP	GAS STATION	MIXED PRODUCT	BCEPD
1600	MOBIL	1490 STATE ROAD 84	FORT LAUDERDALE	33315	068502373	FDEP	GAS STATION	PETROLEUM	BCEPD
1773B	STATE ROAD 84 SERVICE STATION	1500 SW 17TH ST	FORT LAUDERDALE	33315	068731765	NF	MARINA	DIESEL	BCEPD

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FIELD BOOK: XXXX

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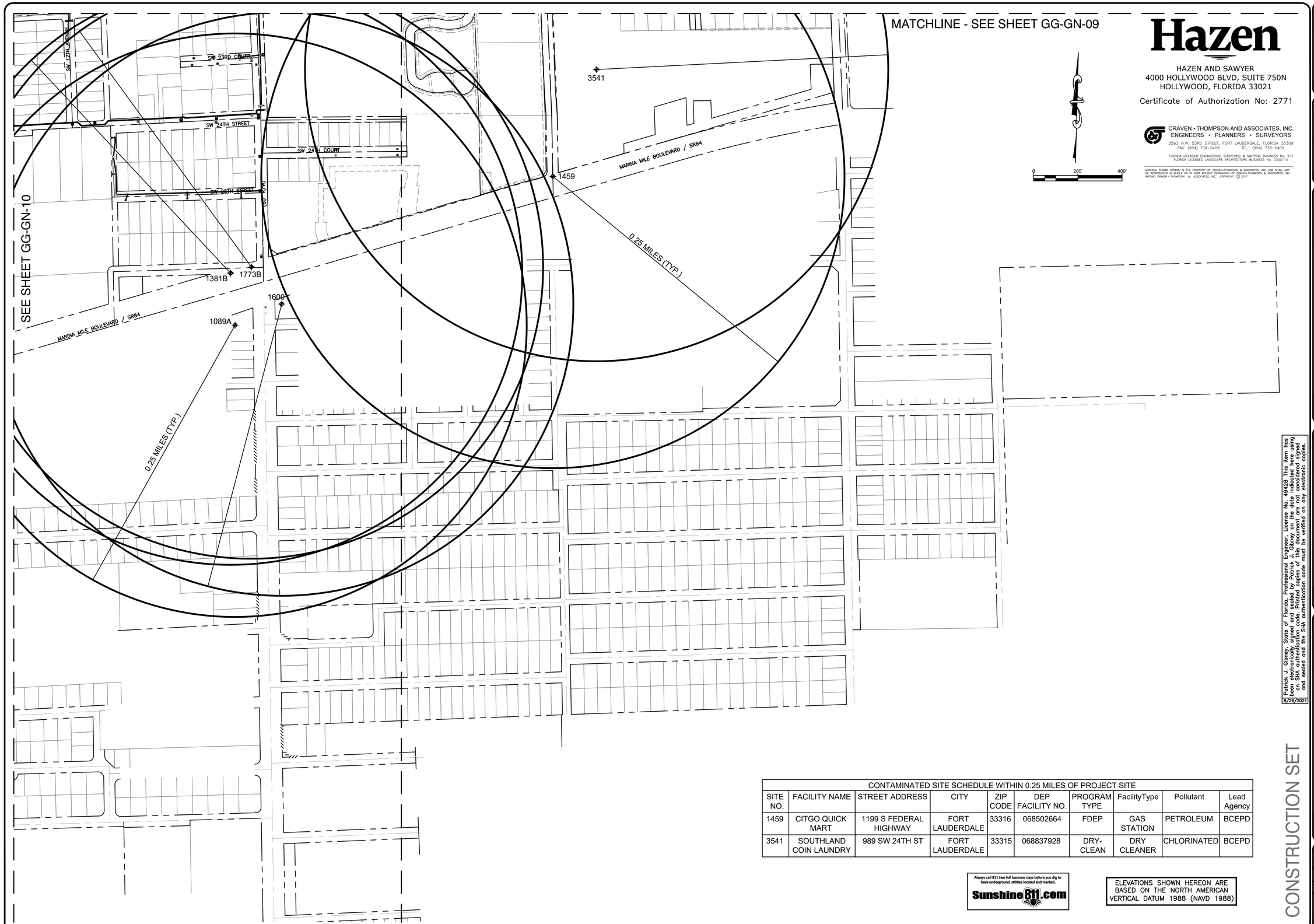
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
CONTAMINATED SITES LOCATION
SITE PLAN

SHEET NO.
GG-GN-10
TOTAL: 255
CAD FILE: 11868-GG-GN-PLANS
DRAWING FILE NO. 4-142-42



CONTAMINATED SITE SCHEDULE WITHIN 0.25 MILES OF PROJECT SITE									
SITE NO.	FACILITY NAME	STREET ADDRESS	CITY	ZIP CODE	DEP FACILITY NO.	PROGRAM TYPE	FacilityType	Pollutant	Lead Agency
1459	CITGO QUICK MART	1199 S FEDERAL HIGHWAY	FORT LAUDERDALE	33316	068502664	FDEP	GAS STATION	PETROLEUM	BCEPD
3541	SOUTHLAND COIN LAUNDRY	989 SW 24TH ST	FORT LAUDERDALE	33315	068837928	DRY-CLEAN	DRY CLEANER	CHLORINATED	BCEPD

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HOLLYWOOD, FLORIDA 33021

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ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
CONTAMINATED SITES LOCATION
SITE PLAN

SHEET NO.
GG-GN-11

TOTAL: 255

CAD FILE: 11868-GG-GN-PLANS

DRAWING FILE NO. 4-142-42

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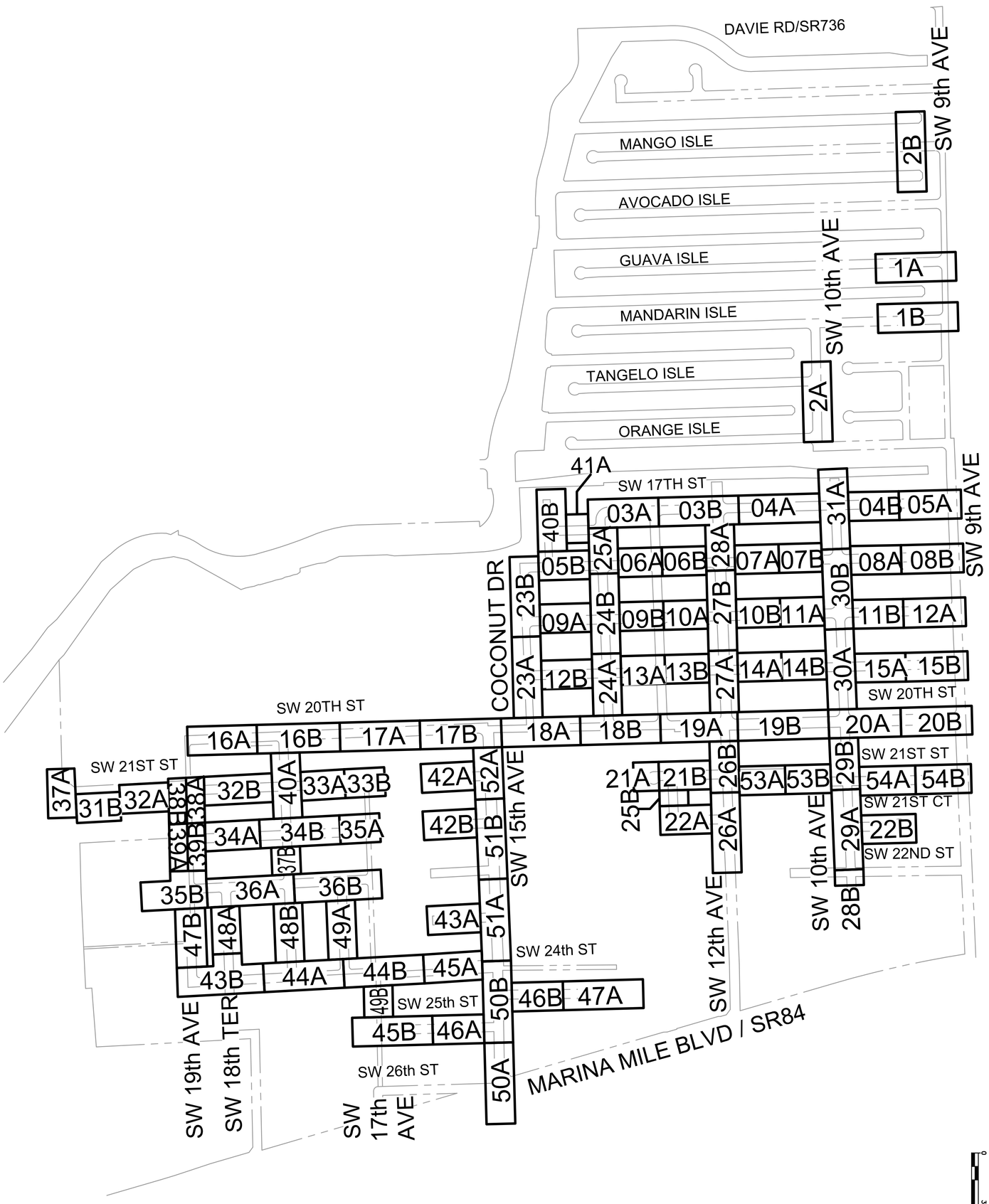
City of Fort Lauderdale
Bid 13712-123



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TOTAL: 255
CAD FILE: 11868-CX-KY01
DRAWING FILE NO. 4-142-42

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLTION PLAN SITE KEY MAP

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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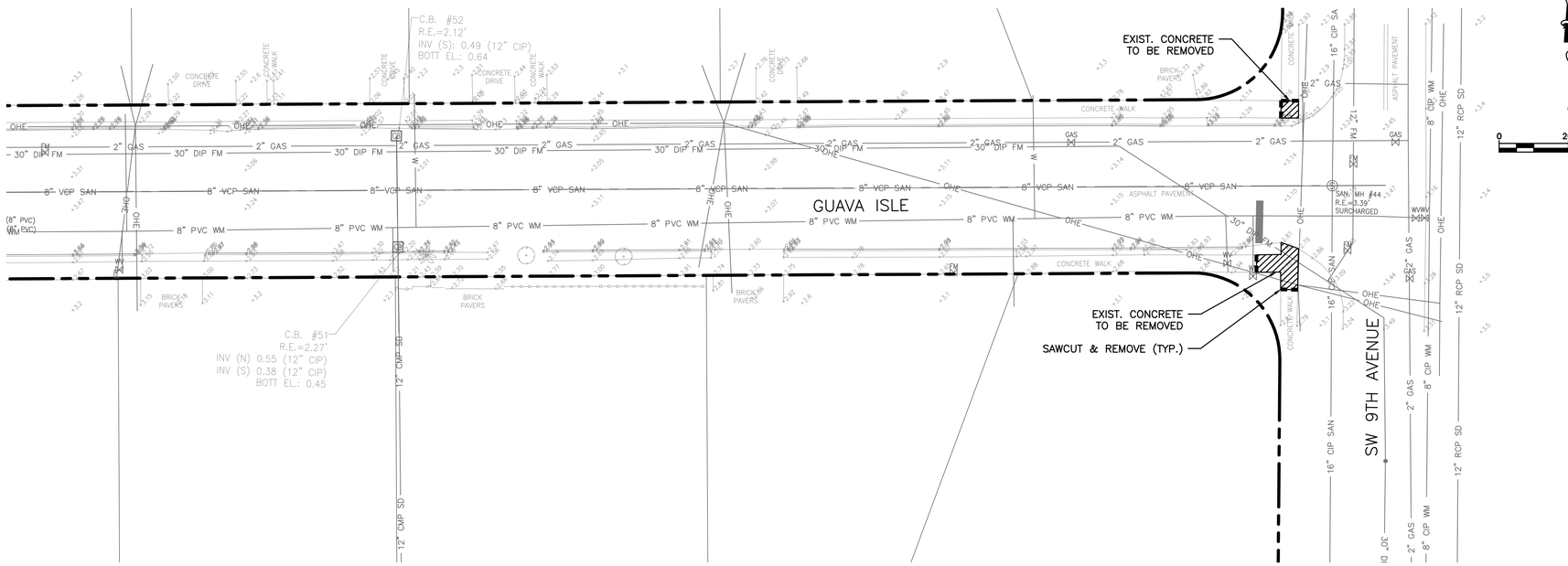
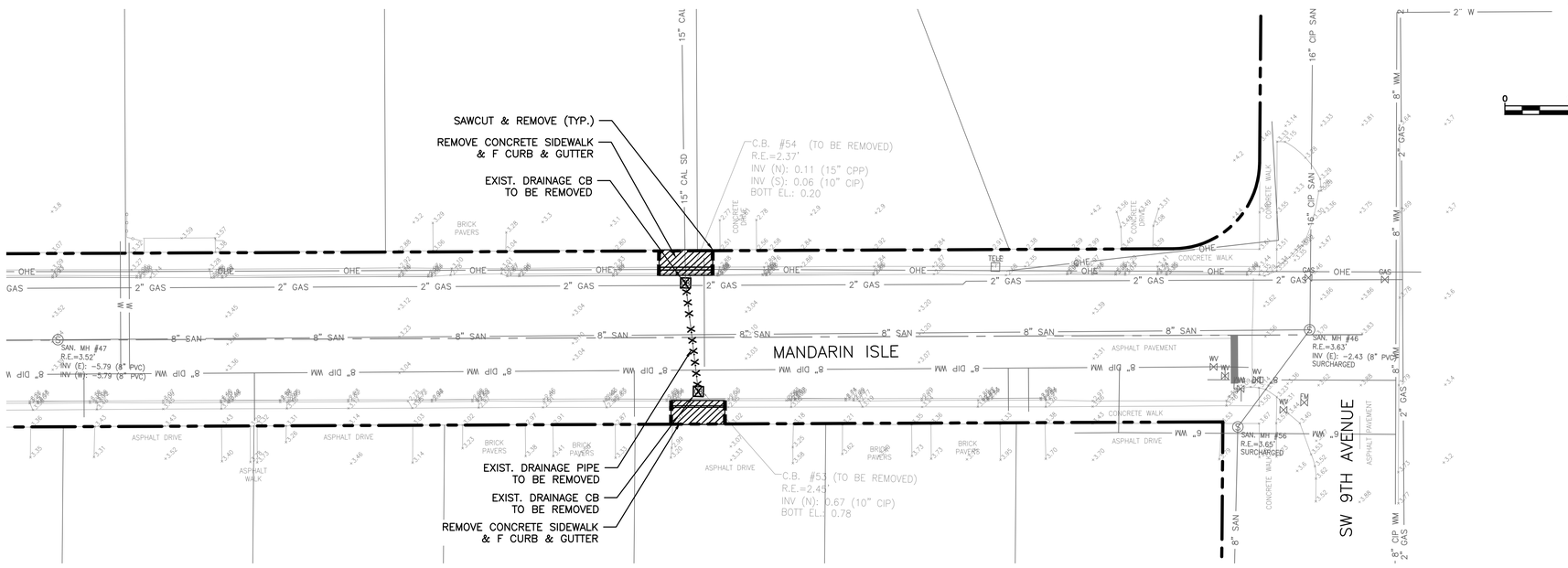
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: VERT 1"=2' HORZ 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
DATE: 02/01/2017

TEL: 954-987-0066
FAX: 954-987-2949





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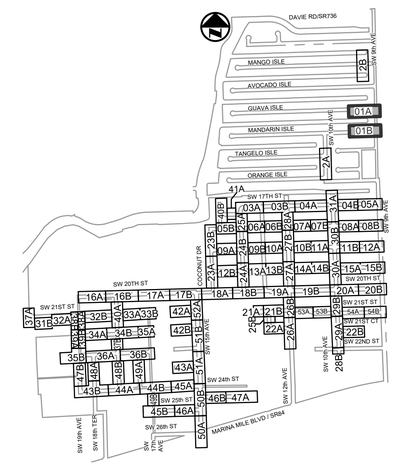

KEY MAP

N.T.S.

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NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).
3. CONTRACTOR SHALL COORDINATE ALL ADJACENT TREE REMOVAL/RELOCATION WITH PROPERTY OWNER. AT OWNER'S DISCRETION CONTRACTOR SHALL MAKE TREE AVAILABLE OR PLAN/RELOCATE AT HOMEOWNER'S REQUEST WITH SIGNED WAIVER TO PLANT WITHIN PRIVATE PROPERTY.

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ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY:	DATE:
XXX	01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

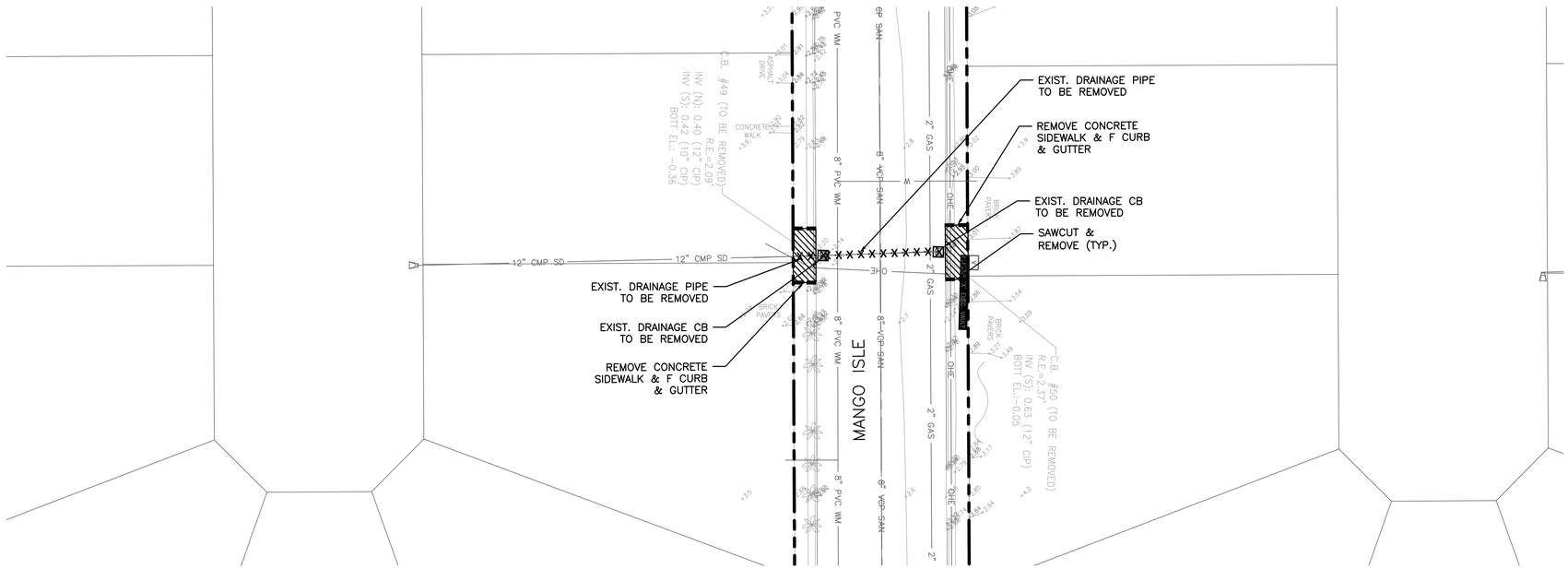
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

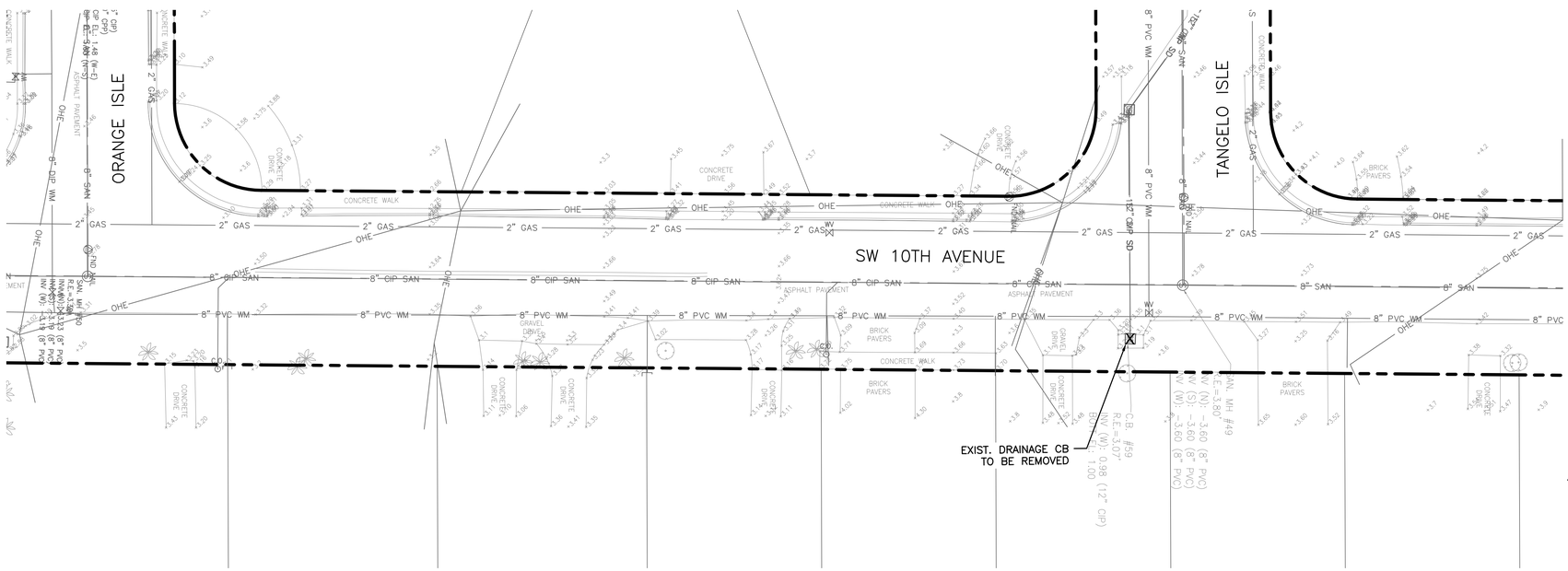
SHEET NO.
CX-ST-01

TOTAL: 255

CAD FILE: 11868-CX-ST-D

DRAWING FILE NO. 4-142-42
CAM 22-0947





0 20' 40'

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Certificate of Authorization No: 2771

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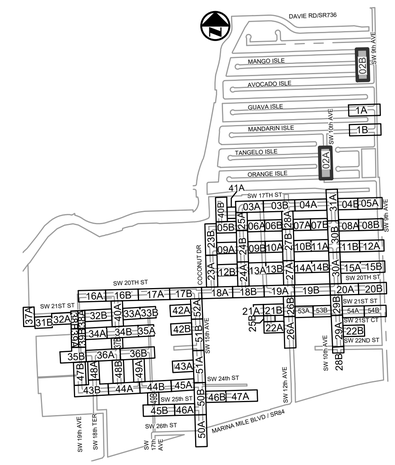

KEY MAP

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0 20' 40'

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ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX	DATE: 01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

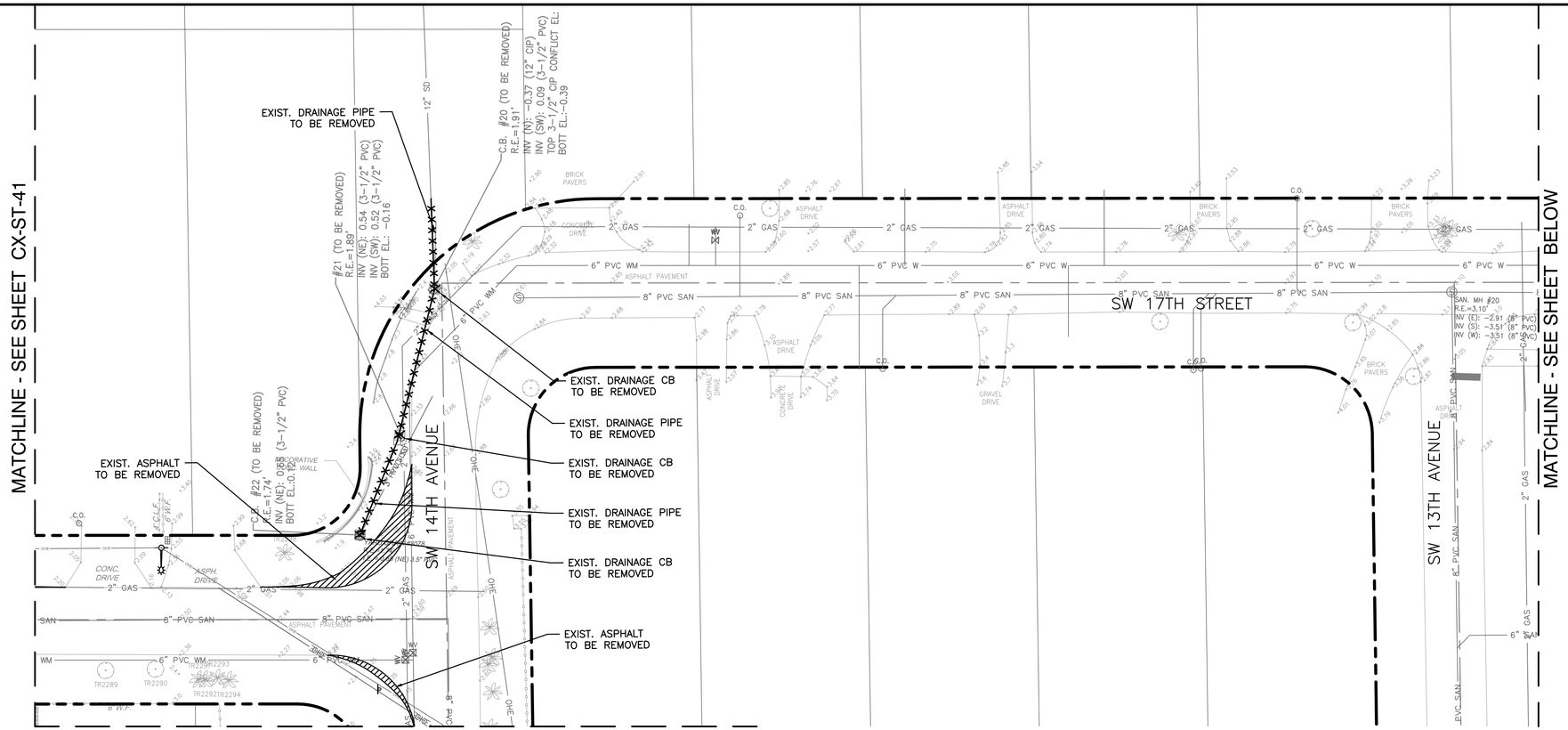
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NO.
CX-ST-02

TOTAL: 255

CAD FILE: 11868-CX-ST-D

DRAWING FILE NO. 4-142-42



Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

CRAVEN • THOMPSON AND ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL.: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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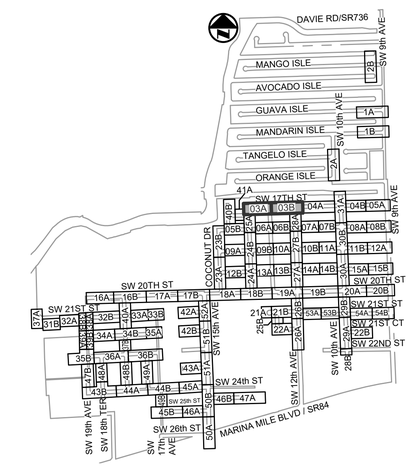
0 20' 40'



KEY MAP
N.T.S.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

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0 20' 40'

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8/26/2021

CONSTRUCTION SET

ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX	DATE: 01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

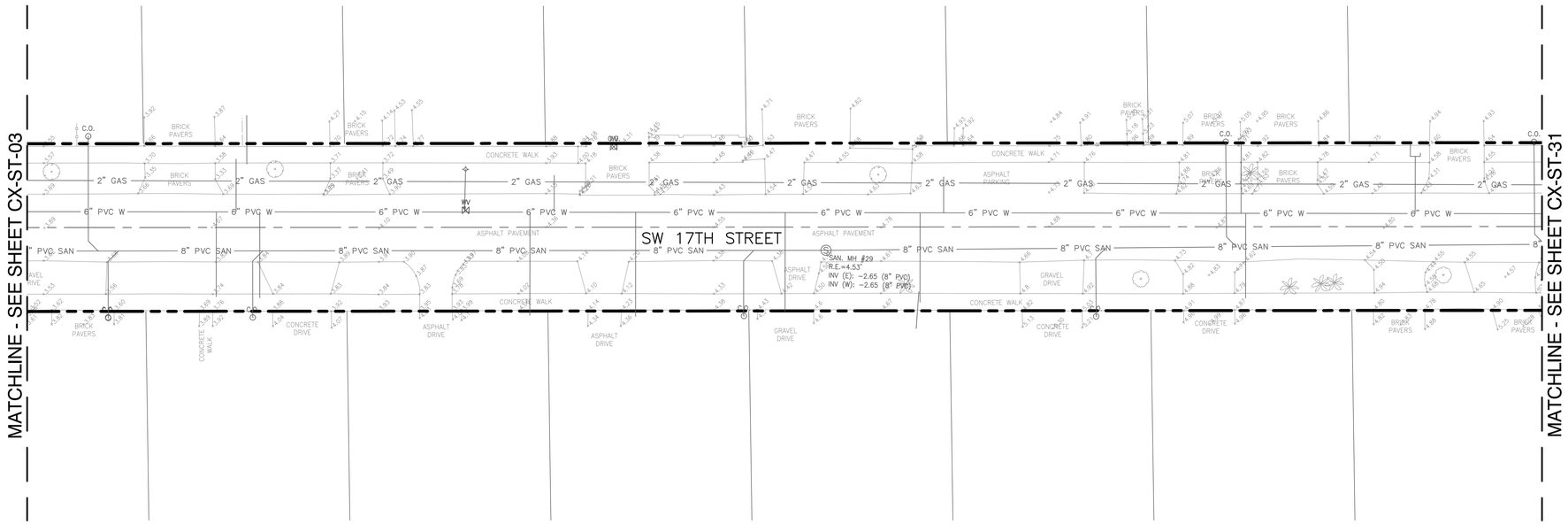
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS & DEMOLITION PLAN

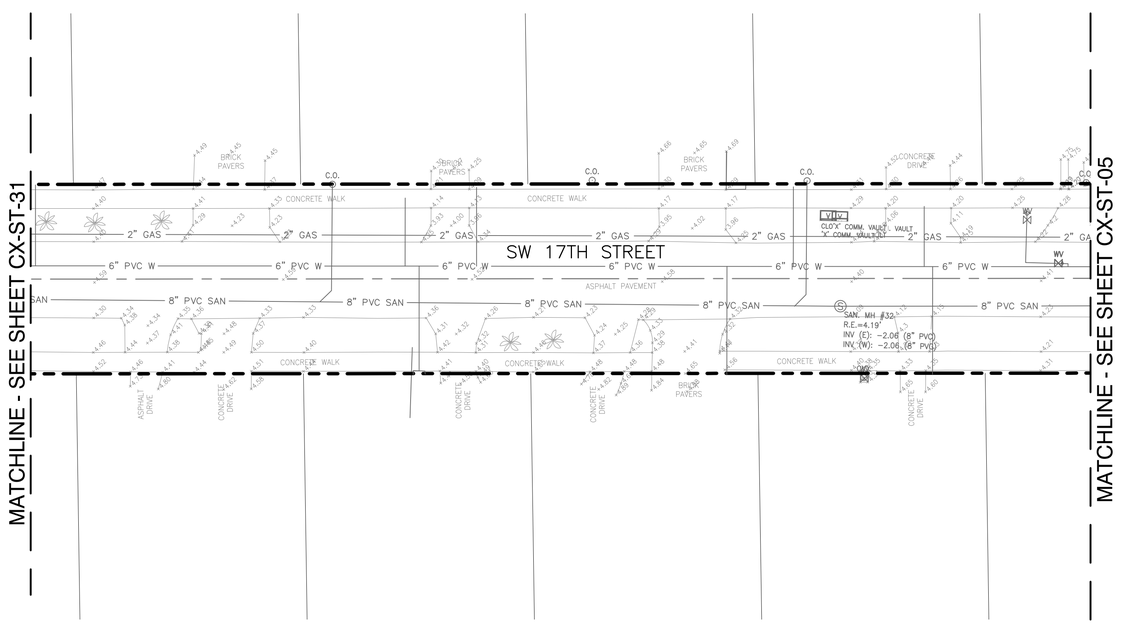
SHEET NO.
CX-ST-03

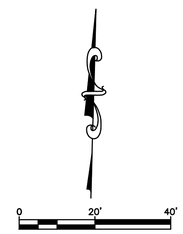
TOTAL: 255

CAD FILE: 11868-CX-ST-A

DRAWING FILE NO. 4-142-42







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HAZEN AND SAWYER
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Certificate of Authorization No: 2771

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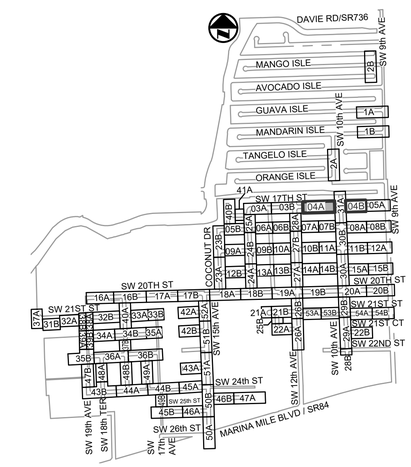

KEY MAP

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DRAWN BY: XXX	DATE: 01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

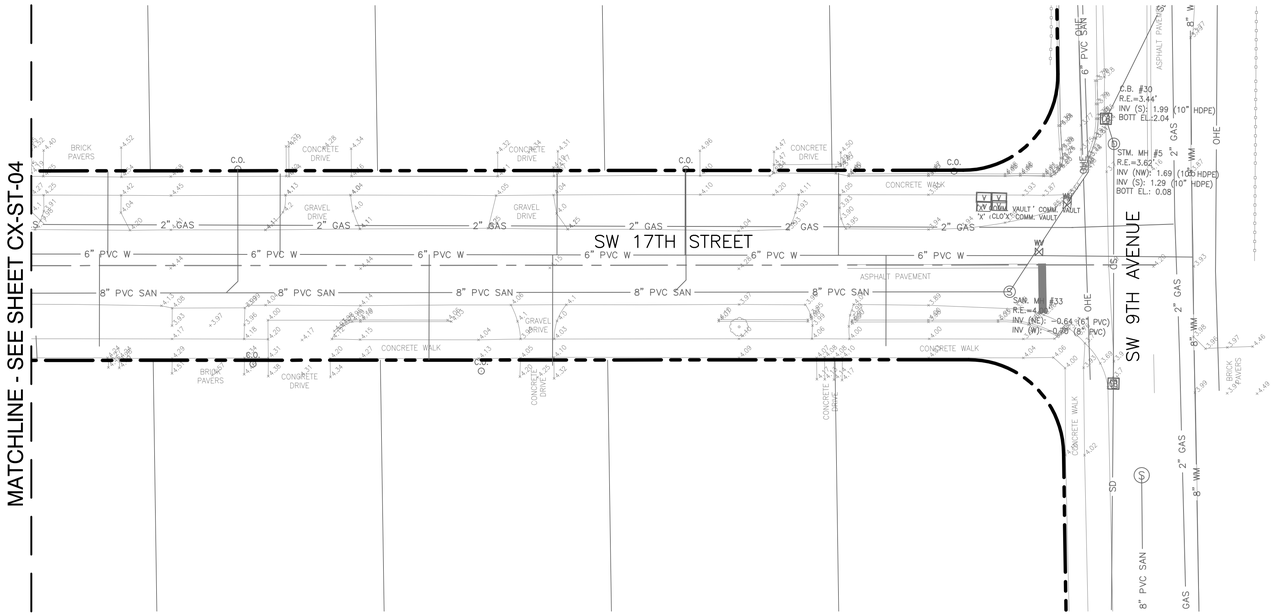
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

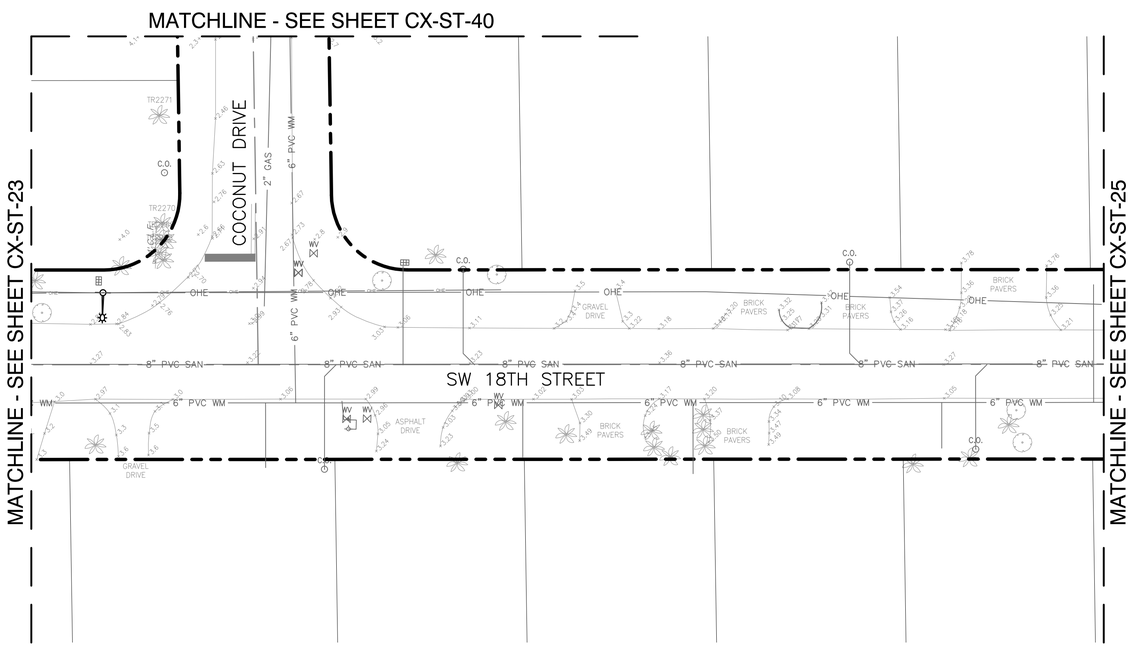
SHEET NO.
CX-ST-04

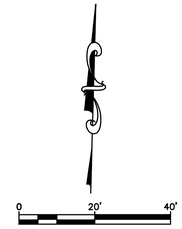
TOTAL: 255

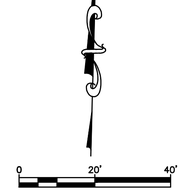
CAD FILE: 11868-CX-ST-A

DRAWING FILE NO. 4-142-42









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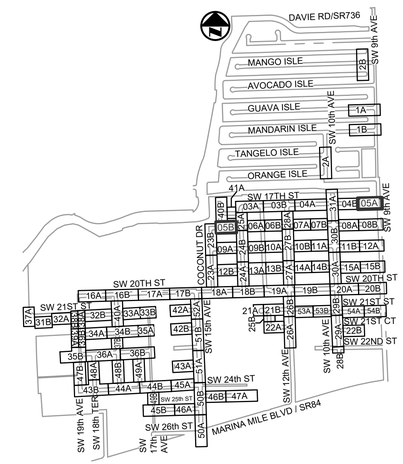

KEY MAP
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FAX: 954-987-2949

DRAWN BY:	DATE:
XXX	01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

CITY OF FORT LAUDERDALE
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ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

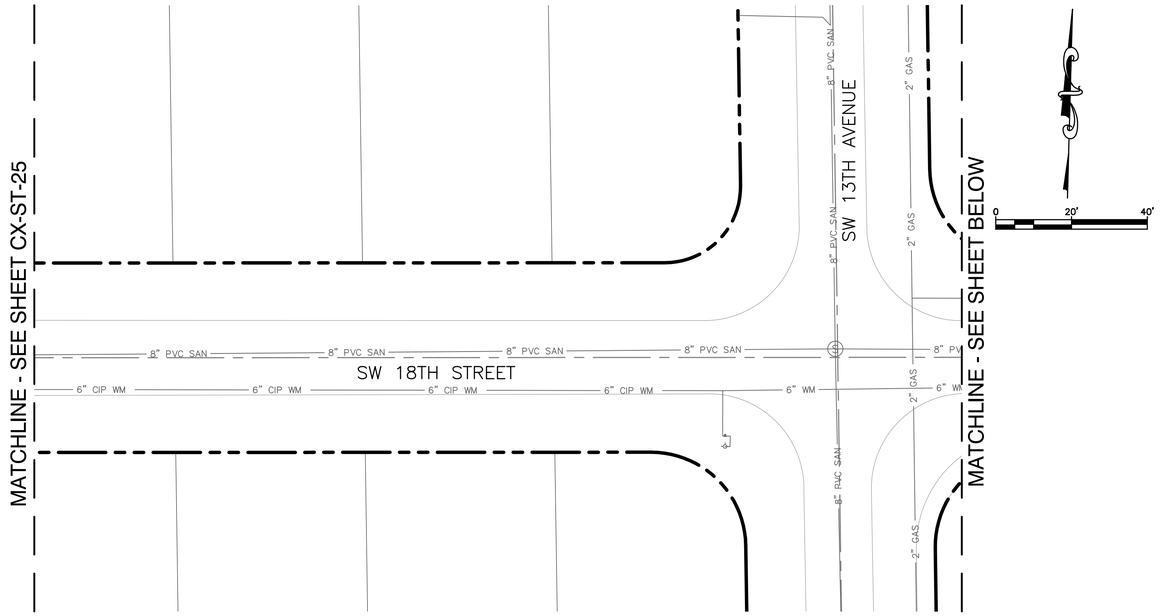
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

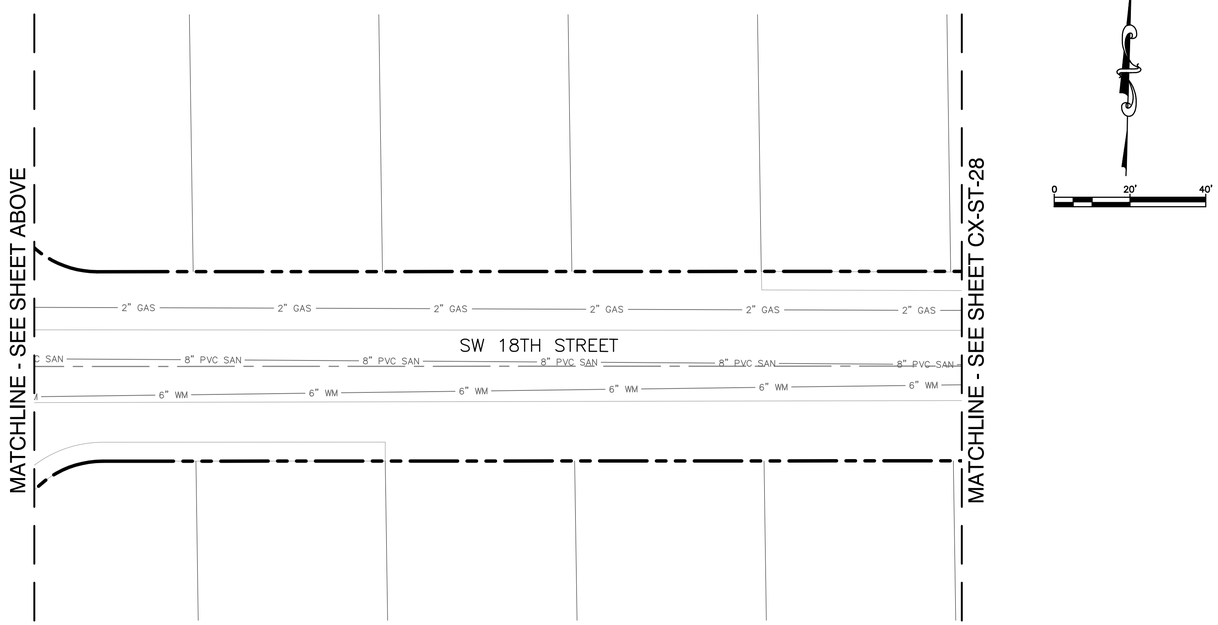
SHEET NO.
CX-ST-05

TOTAL: 255

CAD FILE: 11868-CX-ST-A

DRAWING FILE NO. 4-142-42





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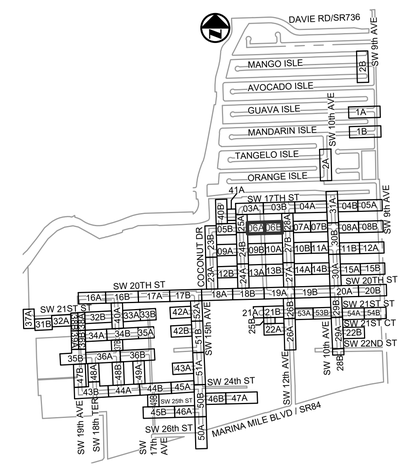

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DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

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PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

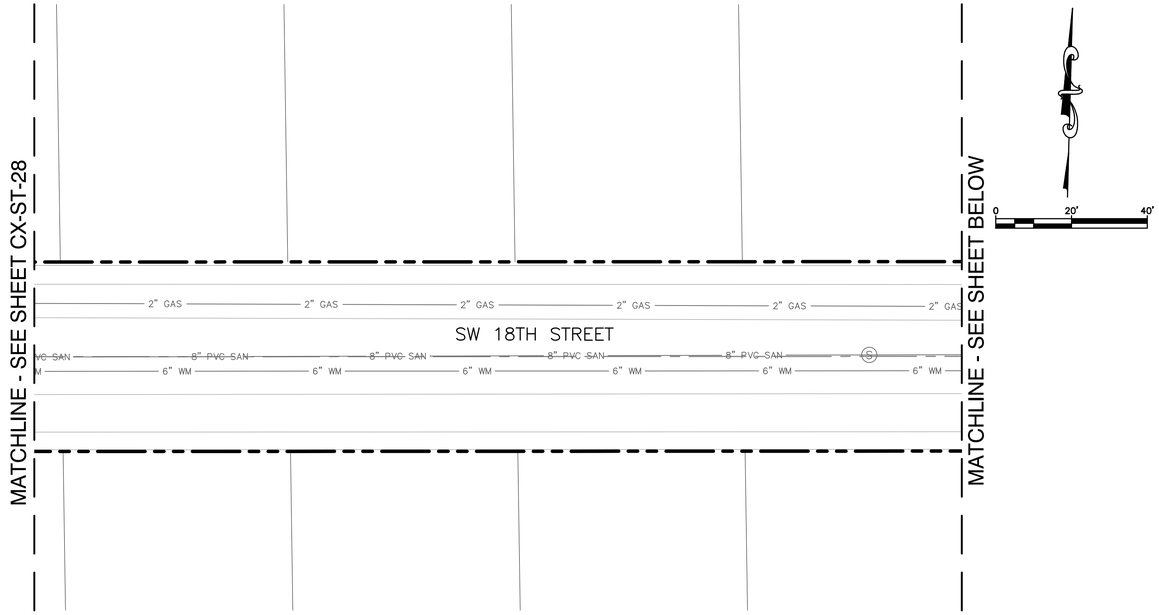
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

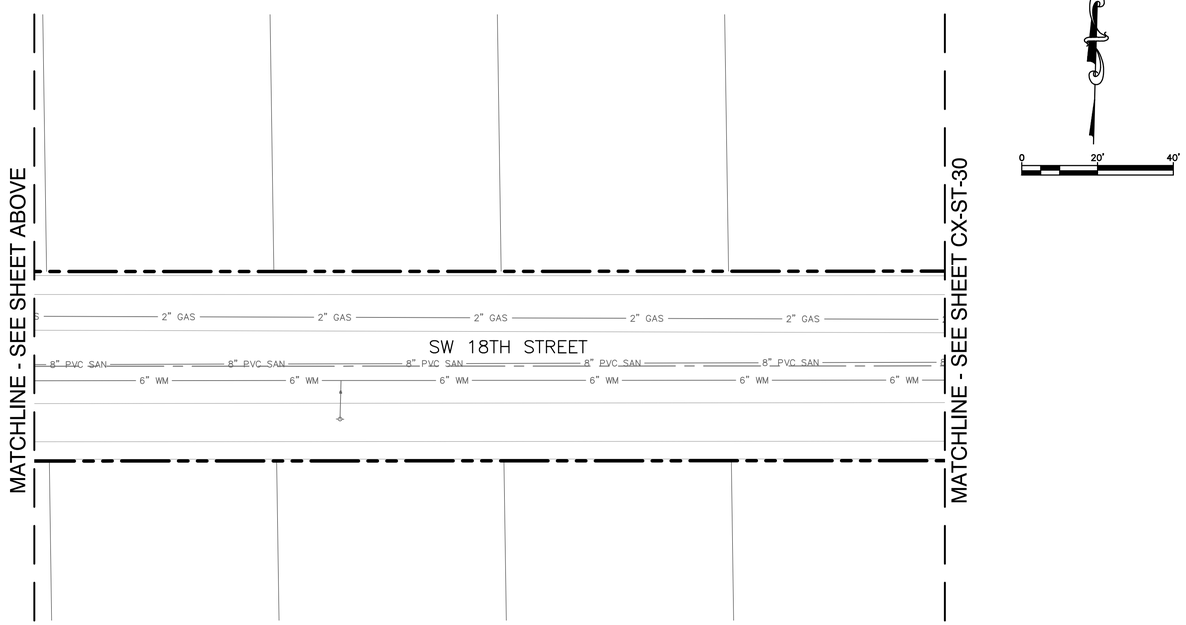
SHEET NO.
CX-ST-06

TOTAL: 255

CAD FILE: 11868-CX-ST-A

DRAWING FILE NO. 4-142-42





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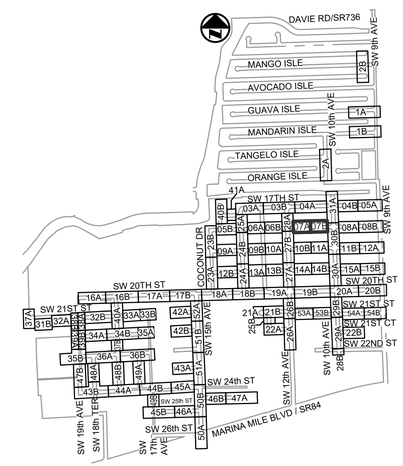

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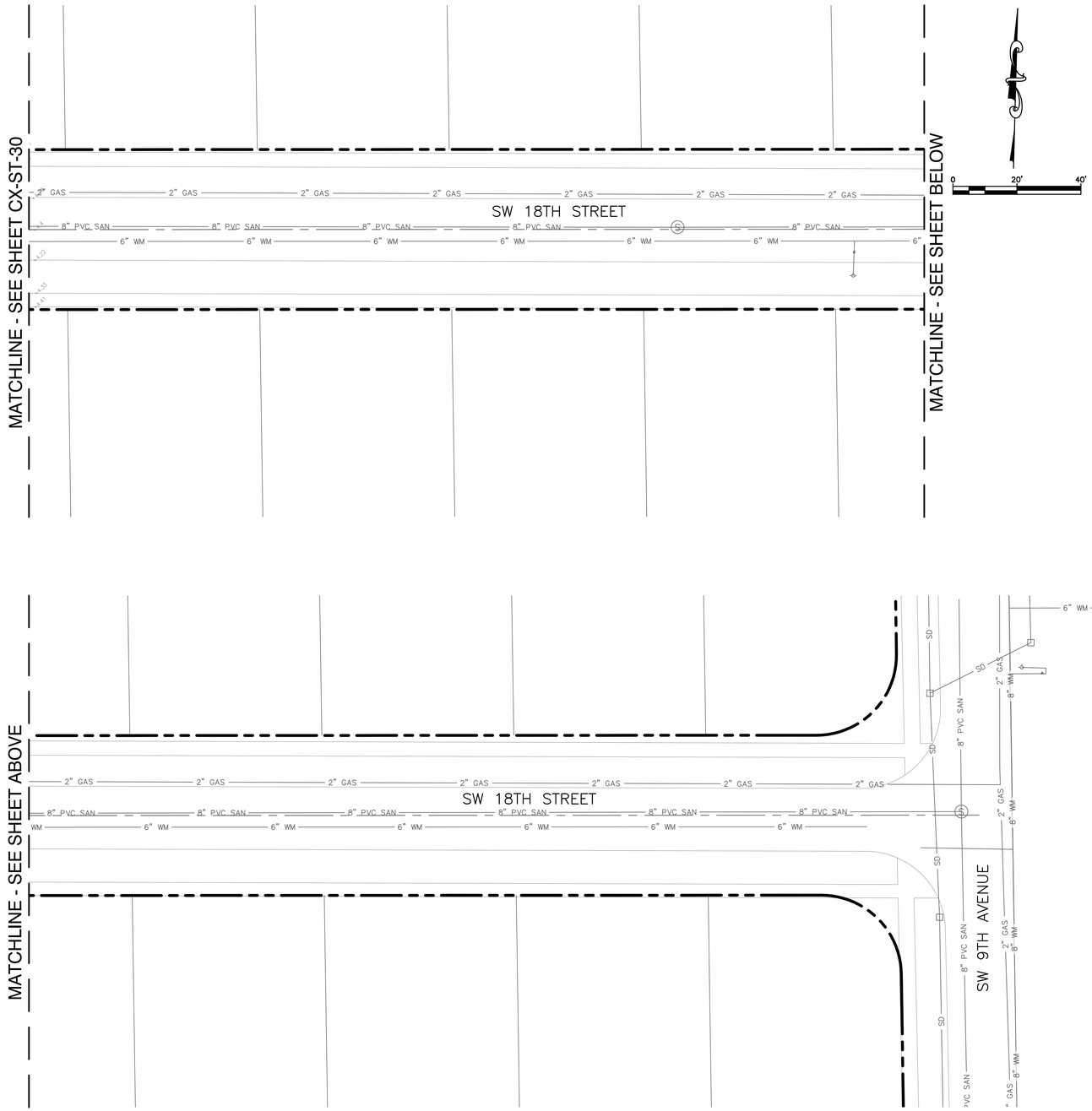
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

SHEET NO.
CX-ST-07

TOTAL: 255

CAD FILE: 11868-CX-ST-A

DRAWING FILE NO. 4-142-42



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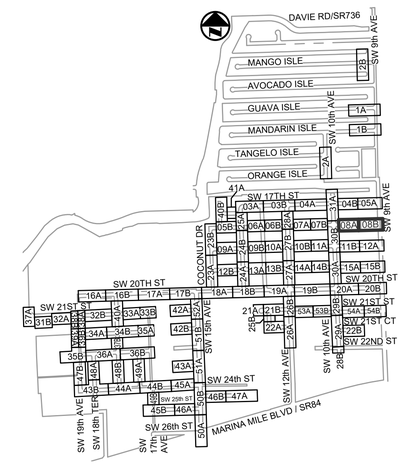

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NO.	DATE	BY	CHKD	DESCRIPTION

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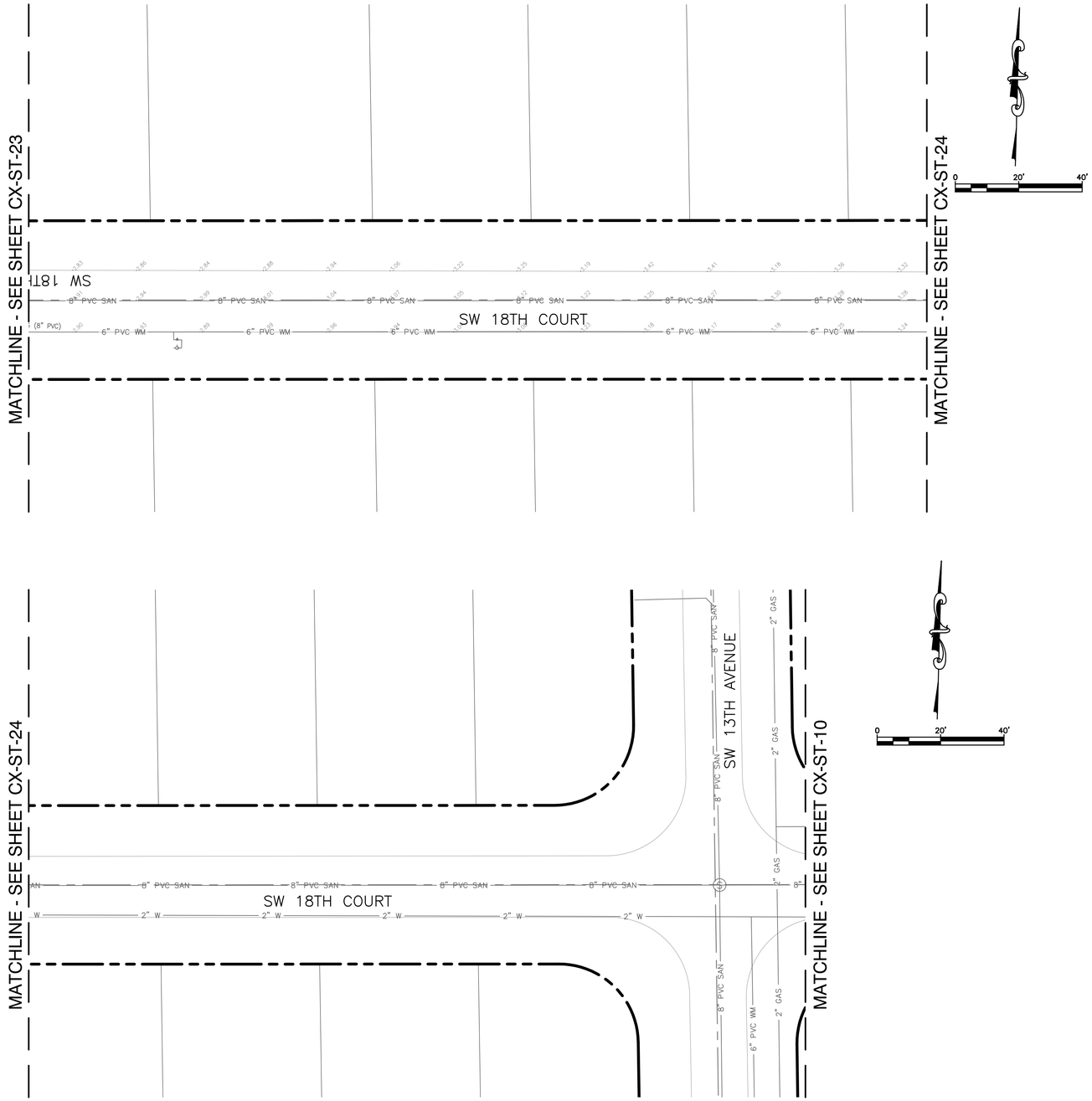
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

SHEET NO.
CX-ST-08

TOTAL: 255

CAD FILE: 11868-CX-ST-A

DRAWING FILE NO. 4-142-42



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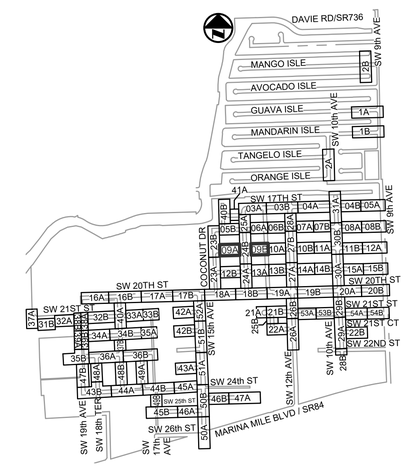

KEY MAP
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8/26/2021

CONSTRUCTION SET

ENGINEER:
PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY:	DATE:
XXX	01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

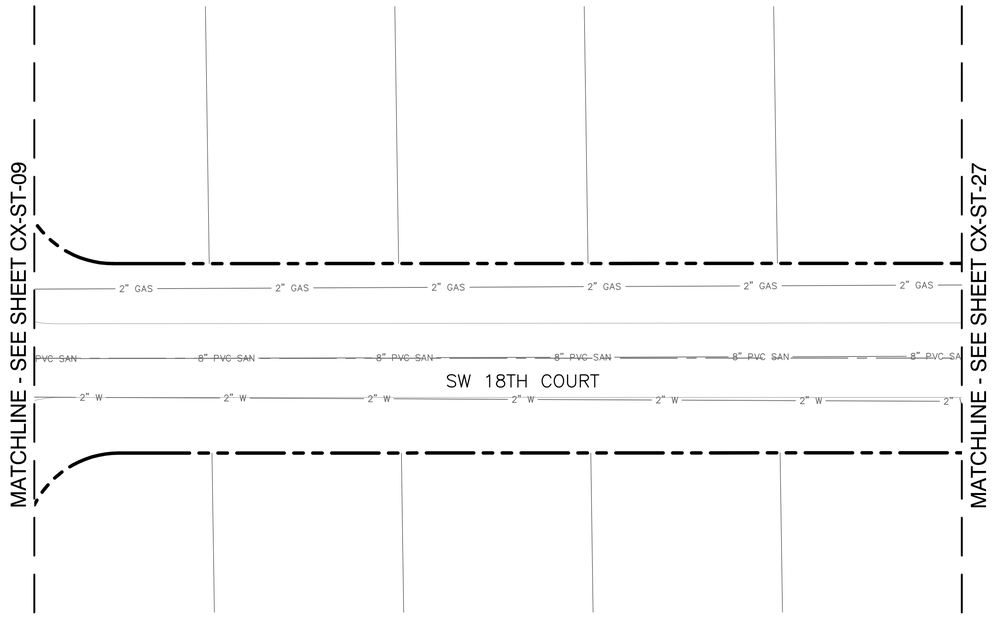
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

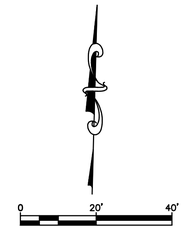
SHEET NO.
CX-ST-09

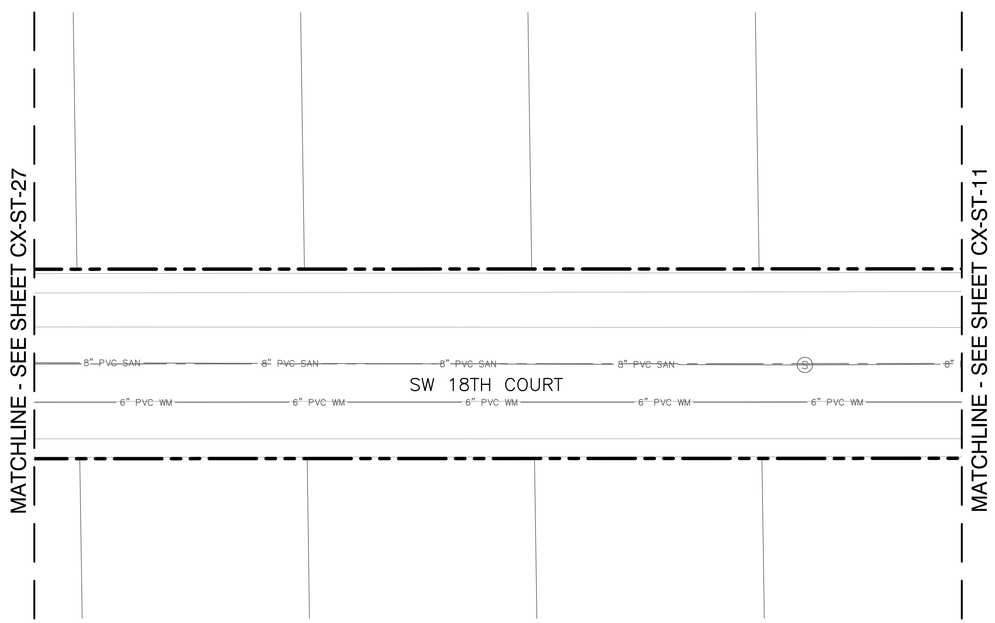
TOTAL: 255

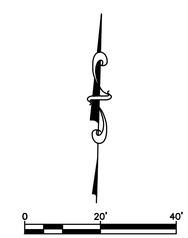
CAD FILE: 11868-CX-ST-A

DRAWING FILE NO. 4-142-42









Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

CRAVEN • THOMPSON AND ASSOCIATES, INC.
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FAX: (954) 739-6409 TEL.: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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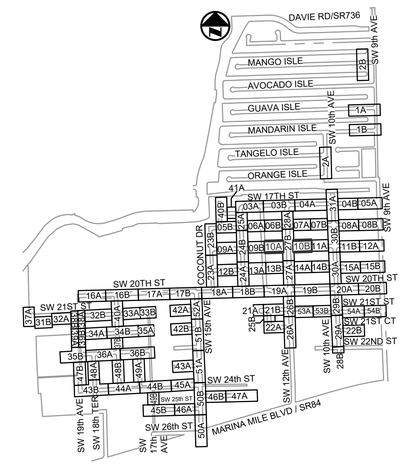

KEY MAP
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ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
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TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX	DATE: 01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

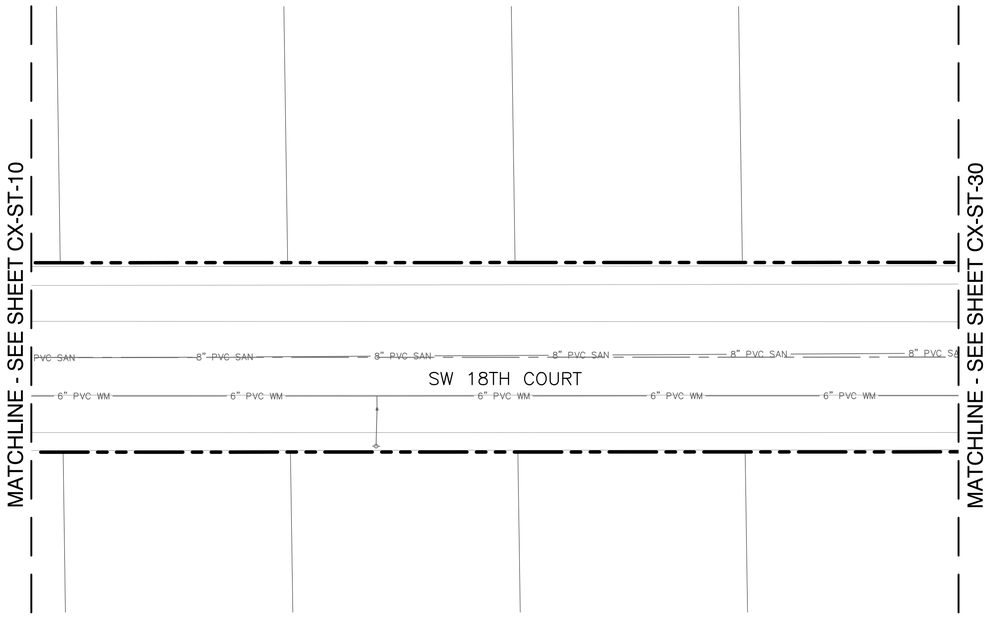
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

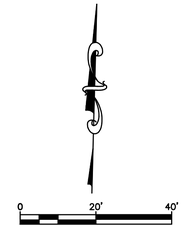
REVISIONS

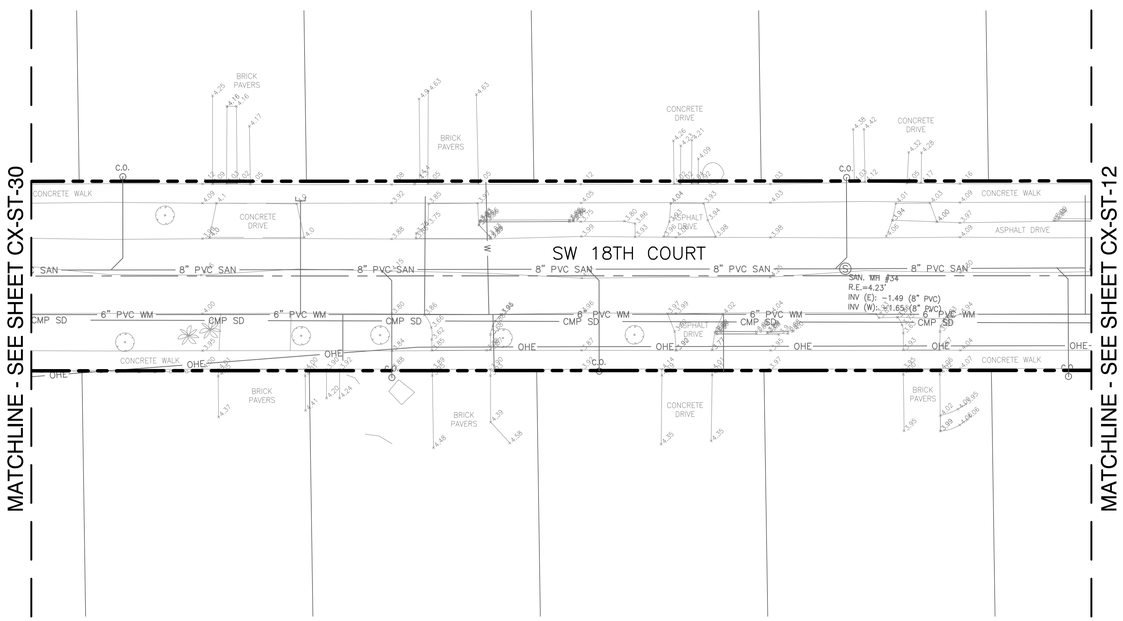
NO.	DATE	BY	CHKD	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

SHEET NO.
CX-ST-10
TOTAL: 255
CAD FILE: 11868-CX-ST-A
DRAWING FILE NO. 4-142-42







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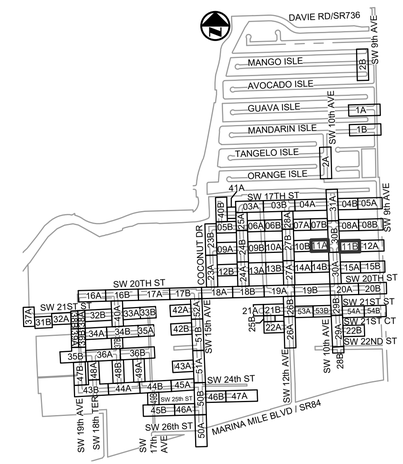

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ENGINEER:
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TEL: 954-987-0066
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FIELD BOOK: XXXX	

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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

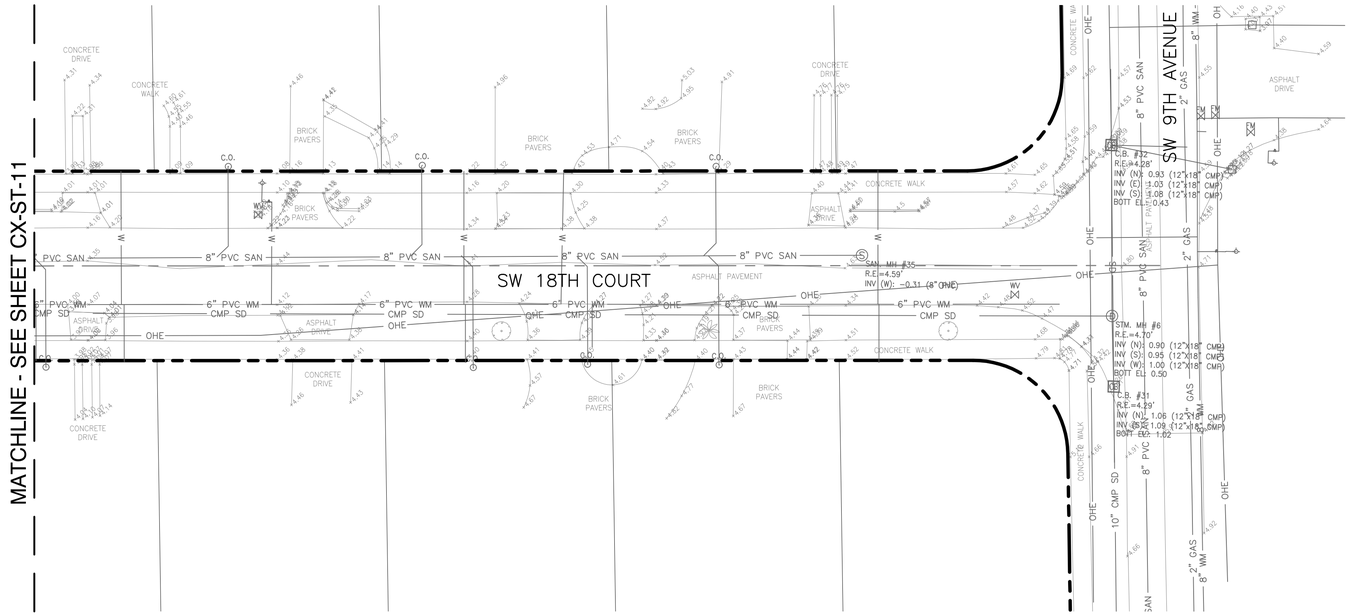
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

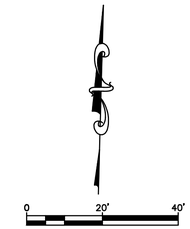
SHEET NO.
CX-ST-11

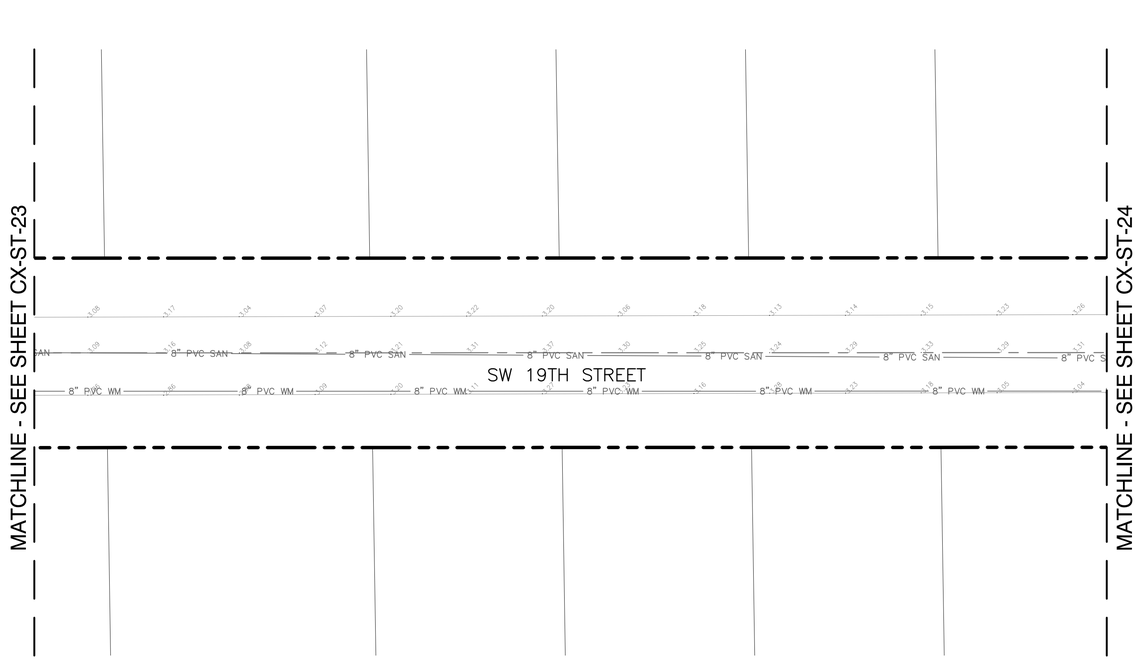
TOTAL: 255

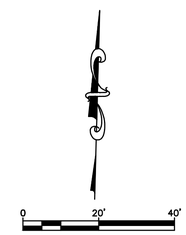
CAD FILE: 11868-CX-ST-A

DRAWING FILE NO. 4-142-42









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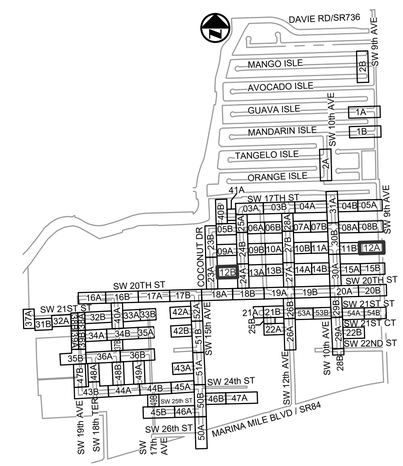

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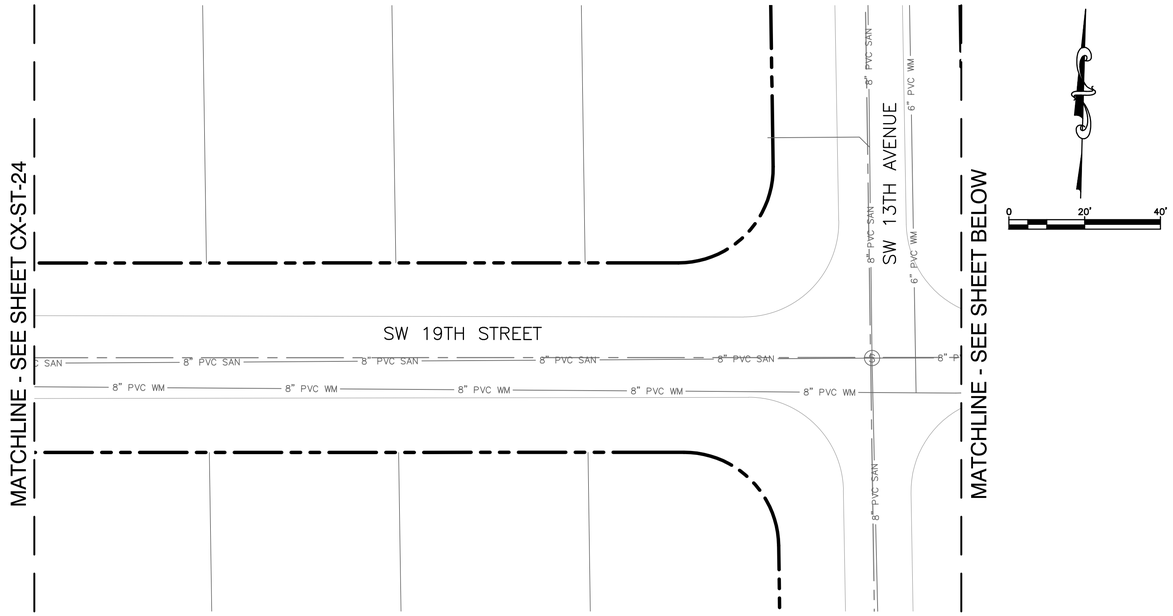
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

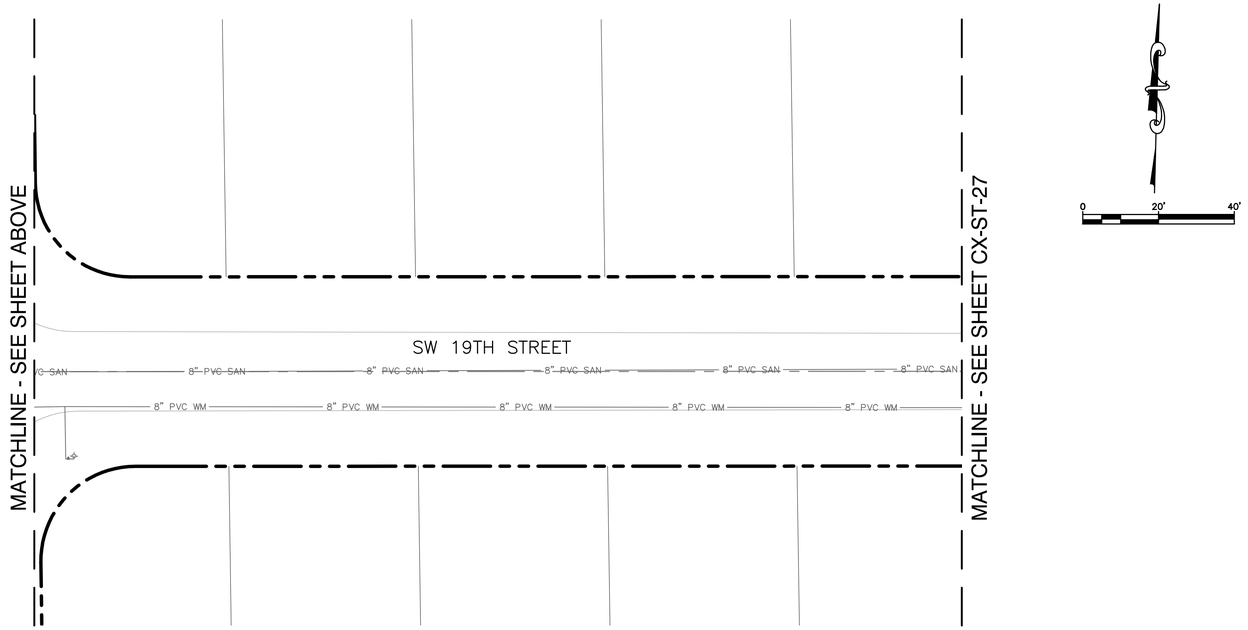
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

SHEET NO.
CX-ST-12
TOTAL: 255
CAD FILE: 11868-CX-ST-A
DRAWING FILE NO. 4-142-42





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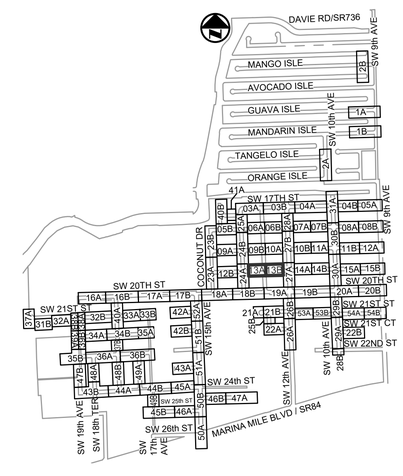

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PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

SHEET NO.
CX-ST-13

TOTAL: 255

CAD FILE: 11868-CX-ST-A

DRAWING FILE NO. 4-142-42

9/20/2022 9:05 AM

PLOT DATE: 8/26/2021 12:08 PM BY: MRODRIGUEZ XREFs= .\11868SURV,.\11868topo,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFNOTES,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFUTIL,.\11868TOPO,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFDEMO,.\11868SURVBND,.\11868SURVTBM,.\11868SURVPNTS,.\11868SURVTOPO,.\11868SURVCONTOUR,.\11868SURVTRAV,.\11868SURVPROFILE,.\11868SURVSECTION,.\11868SURVXSECTION,.\11868SURVTITLE,.\11868SURVTEXT,.\11868SURVLINE,.\11868SURVPOLY,.\11868SURVSYMB,.\11868SURVBLOCK,.\11868SURVTEMP,.\11868SURVTEMPTOPO,.\11868SURVTEMPCONTOUR,.\11868SURVTEMPTRAV,.\11868SURVTEMPPROFILE,.\11868SURVTEMPSECTION,.\11868SURVTEMPXSECTION,.\11868SURVTEMPTITLE,.\11868SURVTEMPTEXT,.\11868SURVTEMPLINE,.\11868SURVTEMPPOLY,.\11868SURVTEMPSYMB,.\11868SURVTEMPBLOCK,.\11868SURVTEMPTEMP,.\11868SURVTEMPTEMPTOPO,.\11868SURVTEMPTEMPCONTOUR,.\11868SURVTEMPTEMPTRAV,.\11868SURVTEMPTEMPPROFILE,.\11868SURVTEMPTEMPSECTION,.\11868SURVTEMPTEMPXSECTION,.\11868SURVTEMPTEMPTITLE,.\11868SURVTEMPTEMPTEXT,.\11868SURVTEMPTEMPLINE,.\11868SURVTEMPTEMPPOLY,.\11868SURVTEMPTEMPSYMB,.\11868SURVTEMPTEMPBLOCK,.\11868SURVTEMPTEMPTEMP,.\11868SURVTEMPTEMPTEMPTOPO,.\11868SURVTEMPTEMPTEMPCONTOUR,.\11868SURVTEMPTEMPTEMPTRAV,.\11868SURVTEMPTEMPTEMPPROFILE,.\11868SURVTEMPTEMPTEMPSECTION,.\11868SURVTEMPTEMPTEMPXSECTION,.\11868SURVTEMPTEMPTEMPTITLE,.\11868SURVTEMPTEMPTEMPTEXT,.\11868SURVTEMPTEMPTEMPLINE,.\11868SURVTEMPTEMPTEMPPOLY,.\11868SURVTEMPTEMPTEMPSYMB,.\11868SURVTEMPTEMPTEMPBLOCK,.\11868SURVTEMPTEMPTEMPTEMP,.\11868SURVTEMPTEMPTEMPTEMPTOPO,.\11868SURVTEMPTEMPTEMPTEMPCONTOUR,.\11868SURVTEMPTEMPTEMPTEMPTRAV,.\11868SURVTEMPTEMPTEMPTEMPPROFILE,.\11868SURVTEMPTEMPTEMPTEMPSECTION,.\11868SURVTEMPTEMPTEMPTEMPXSECTION,.\11868SURVTEMPTEMPTEMPTEMPTITLE,.\11868SURVTEMPTEMPTEMPTEMPTEXT,.\11868SURVTEMPTEMPTEMPTEMPLINE,.\11868SURVTEMPTEMPTEMPTEMPPOLY,.\11868SURVTEMPTEMPTEMPTEMPSYMB,.\11868SURVTEMPTEMPTEMPTEMPBLOCK,.\11868SURVTEMPTEMPTEMPTEMPTEMP,.\11868SURVTEMPTEMPTEMPTEMPTEMPTOPO,.\11868SURVTEMPTEMPTEMPTEMPTEMPCONTOUR,.\11868SURVTEMPTEMPTEMPTEMPTEMPTRAV,.\11868SURVTEMPTEMPTEMPTEMPTEMPPROFILE,.\11868SURVTEMPTEMPTEMPTEMPTEMPSECTION,.\11868SURVTEMPTEMPTEMPTEMPTEMPXSECTION,.\11868SURVTEMPTEMPTEMPTEMPTEMPTITLE,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEXT,.\11868SURVTEMPTEMPTEMPTEMPTEMPLINE,.\11868SURVTEMPTEMPTEMPTEMPTEMPPOLY,.\11868SURVTEMPTEMPTEMPTEMPTEMPSYMB,.\11868SURVTEMPTEMPTEMPTEMPTEMPBLOCK,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMP,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTOPO,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPCONTOUR,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTRAV,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPPROFILE,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPSECTION,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPXSECTION,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTITLE,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEXT,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPLINE,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPPOLY,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPSYMB,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPBLOCK,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMP,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTOPO,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPCONTOUR,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTRAV,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPPROFILE,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPSECTION,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPXSECTION,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTITLE,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEXT,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPLINE,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPPOLY,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPSYMB,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPBLOCK,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMP,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTOPO,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPCONTOUR,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTRAV,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPPROFILE,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPSECTION,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPXSECTION,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTITLE,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEXT,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPLINE,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPPOLY,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPSYMB,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPBLOCK,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMP,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTOPO,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPCONTOUR,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTRAV,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPPROFILE,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPSECTION,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPXSECTION,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTITLE,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEXT,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPLINE,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPPOLY,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPSYMB,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPBLOCK,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMP,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTOPO,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPCONTOUR,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTRAV,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPPROFILE,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPSECTION,.\11868SURVTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPTEMPXSECTION,.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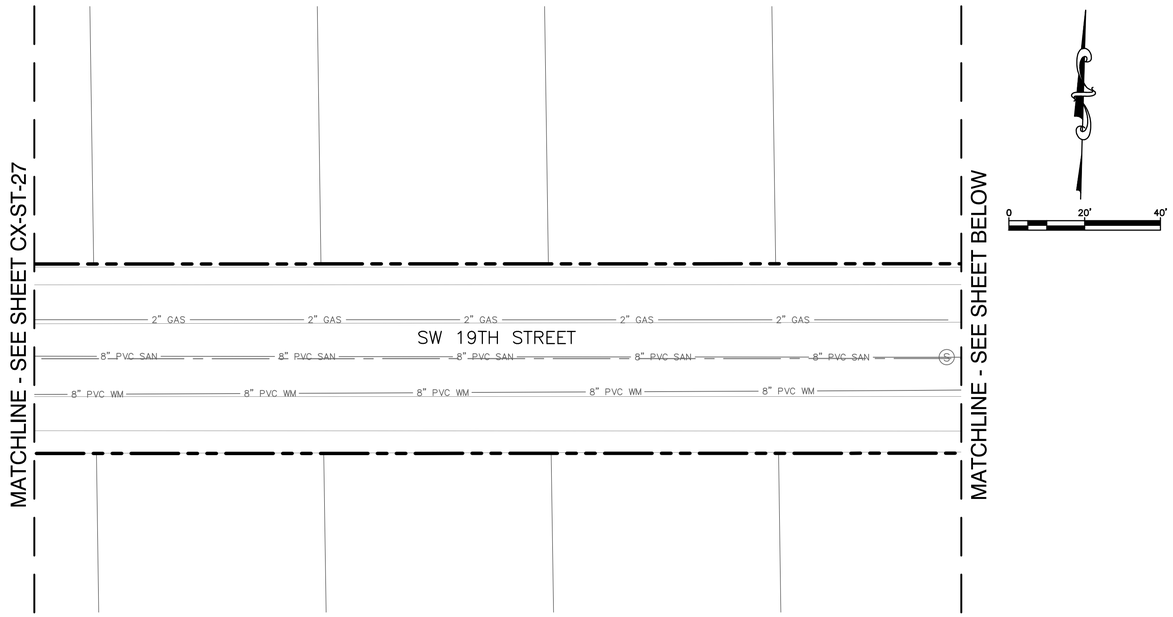

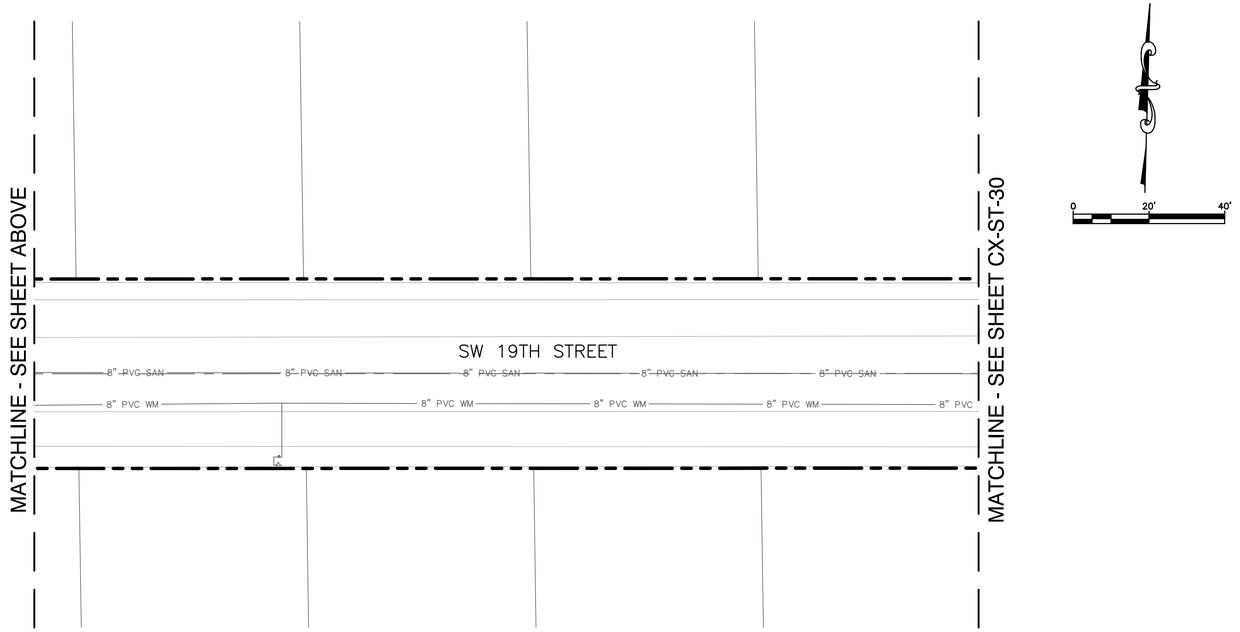

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

CRAVEN • THOMPSON AND ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL.: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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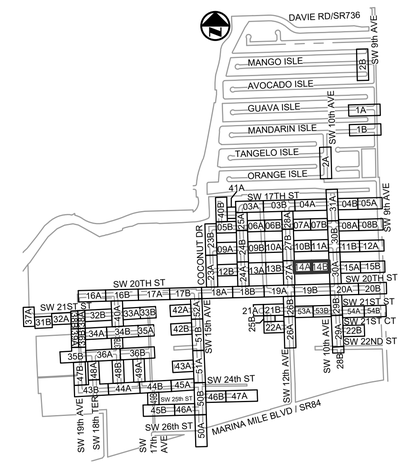

KEY MAP
N.T.S.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).
3. CONTRACTOR SHALL COORDINATE ALL ADJACENT TREE REMOVAL/RELOCATION WITH PROPERTY OWNER. AT OWNER'S DISCRETION CONTRACTOR SHALL MAKE TREE AVAILABLE OR PLAN/RELOCATE AT HOMEOWNER'S REQUEST WITH SIGNED WAIVER TO PLANT WITHIN PRIVATE PROPERTY.

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8/26/2021

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Sunshine811.com

CONSTRUCTION SET

ENGINEER:
PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX	DATE: 01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

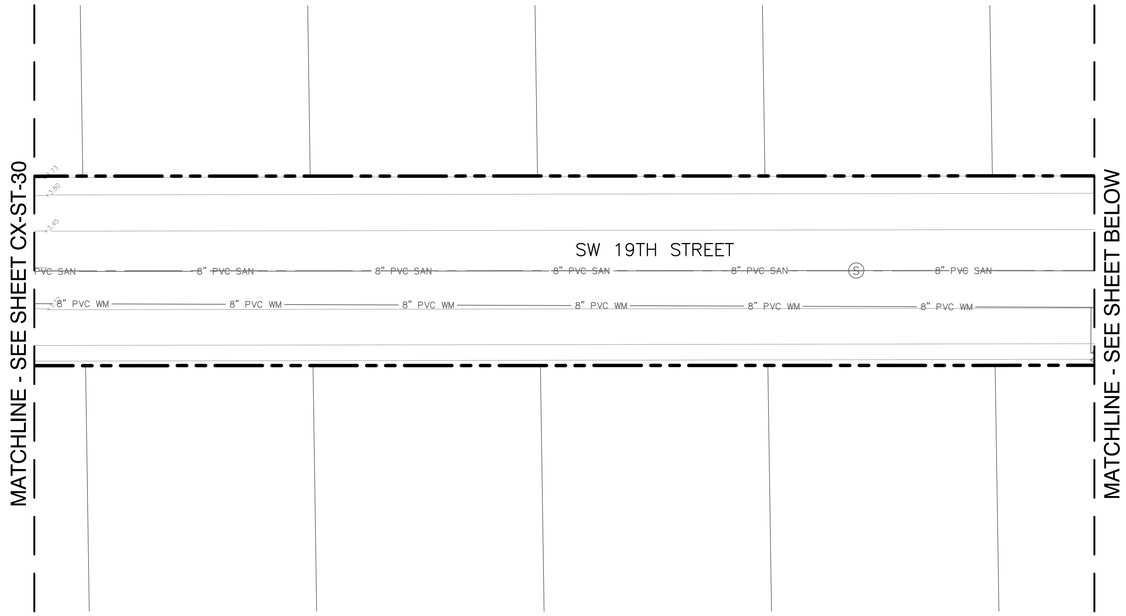
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

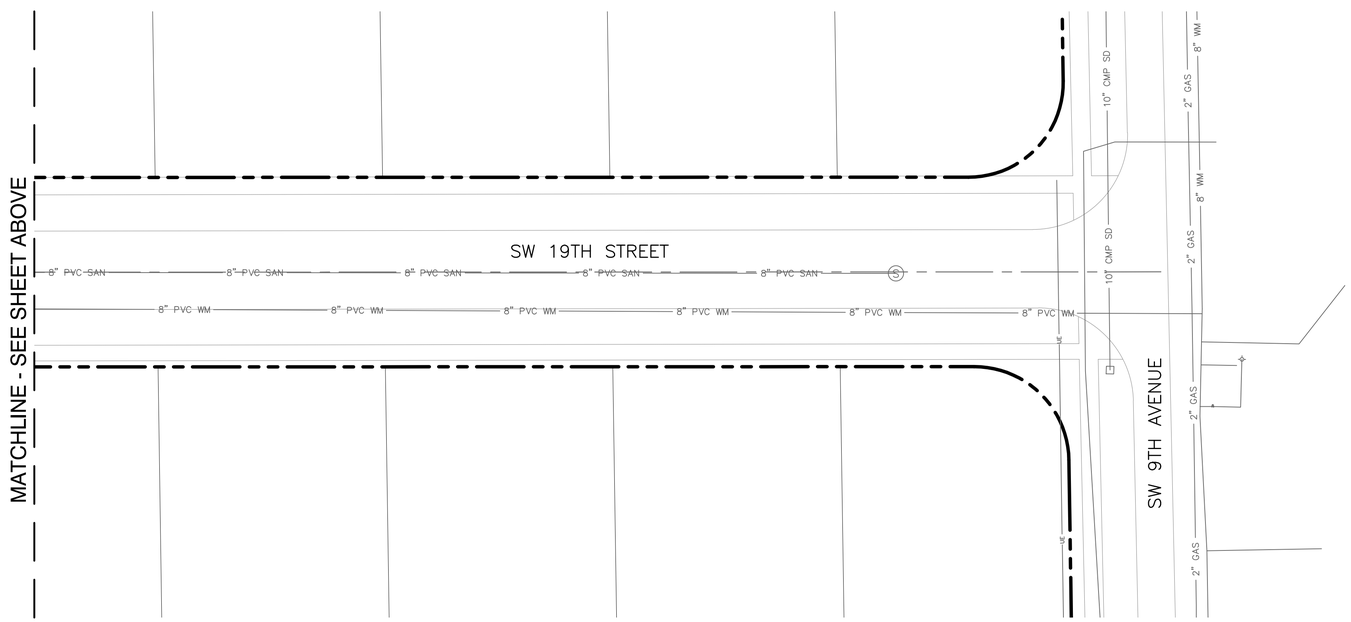
SHEET NO.
CX-ST-14

TOTAL: 255

CAD FILE: 11868-CX-ST-A

DRAWING FILE NO. 4-142-42





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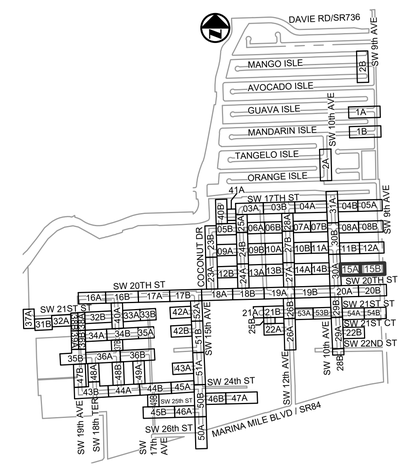

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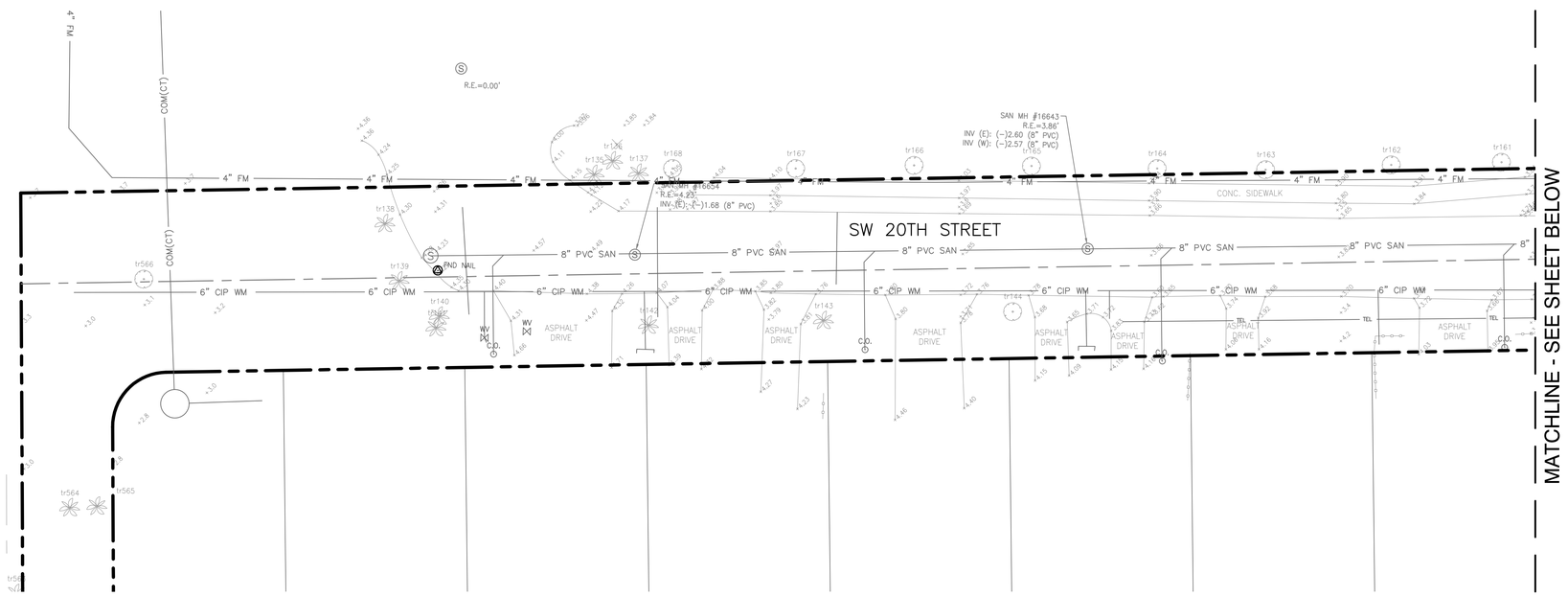
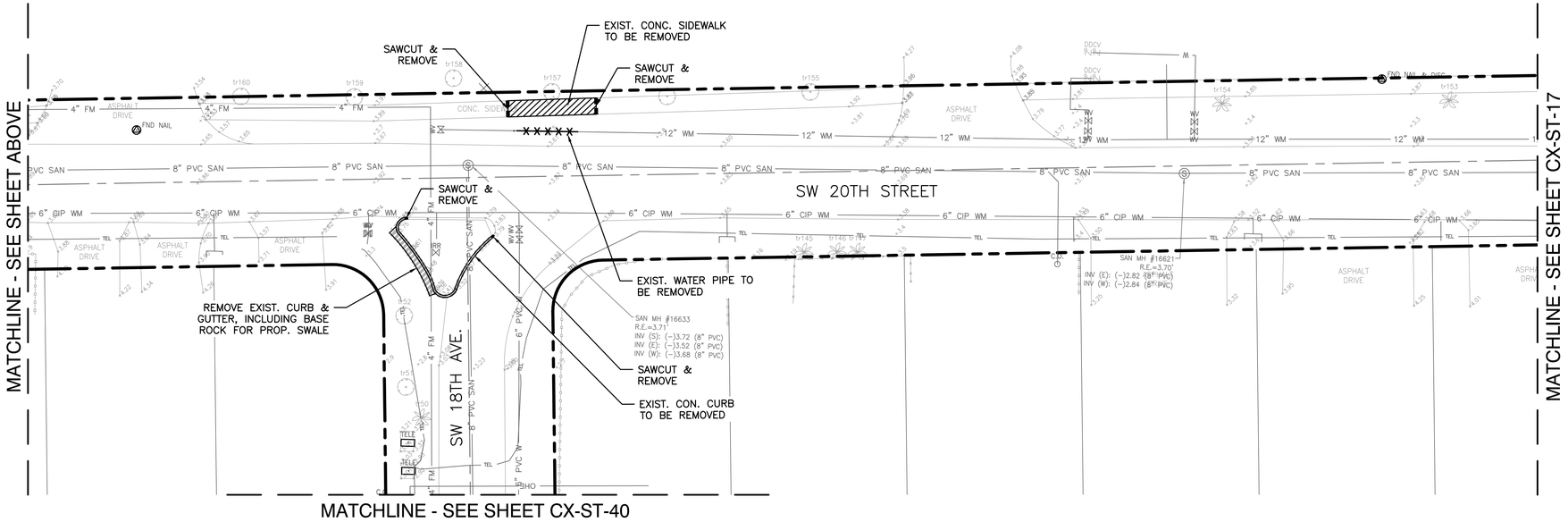
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

SHEET NO.
CX-ST-15
TOTAL: 255
CAD FILE: 11868-CX-ST-A
DRAWING FILE NO. 4-142-42





Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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FAX: (954) 739-6409 TEL.: (954) 739-6400
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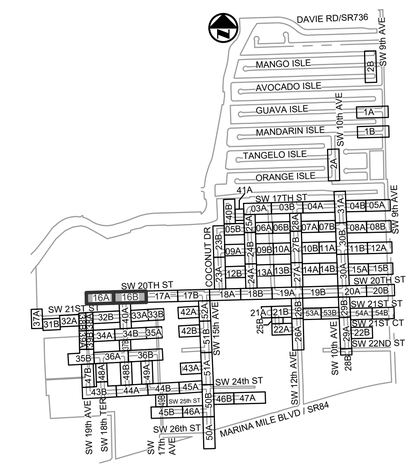

KEY MAP
N.T.S.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).
3. CONTRACTOR SHALL COORDINATE ALL ADJACENT TREE REMOVAL/RELOCATION WITH PROPERTY OWNER. AT OWNER'S DISCRETION CONTRACTOR SHALL MAKE TREE AVAILABLE OR PLAN/RELOCATE AT HOMEOWNER'S REQUEST WITH SIGNED WAIVER TO PLANT WITHIN PRIVATE PROPERTY.

0 20' 40'

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ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DATE: 01/07/2019	
DRAWN BY: XXX	SCALE: 1"=20'
DESIGNED BY: XXX	
CHECKED BY: XXX	
FIELD BOOK: XXXX	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

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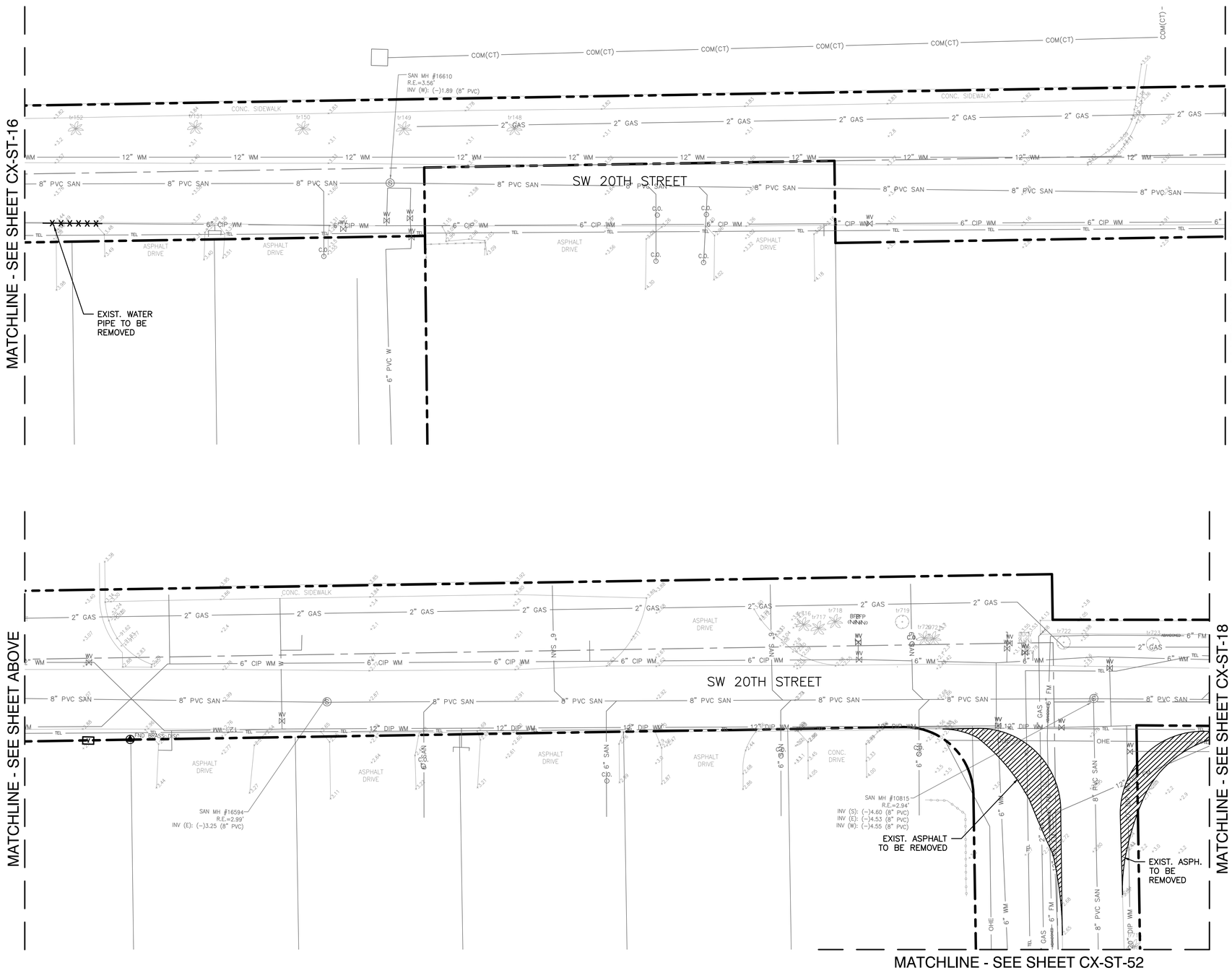
8/26/2021

CONSTRUCTION SET

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NO.
CX-ST-16
TOTAL: 255
CAD FILE: 11868-CX-ST-A
DRAWING FILE NO. 4-142-42



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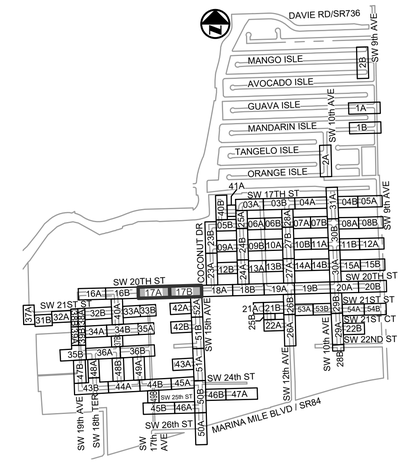

KEY MAP

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8/26/2021

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ENGINEER:
PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY:	DATE:
XXX	01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

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PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

CONSTRUCTION SET

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

SHEET NO.
CX-ST-17

TOTAL: 255

CAD FILE: 11868-CX-ST-A

DRAWING FILE NO. 4-142-42

9/20/2022 9:05 AM

PLOT DATE: 8/26/2021 12:10 PM BY: MRODRIGUEZ

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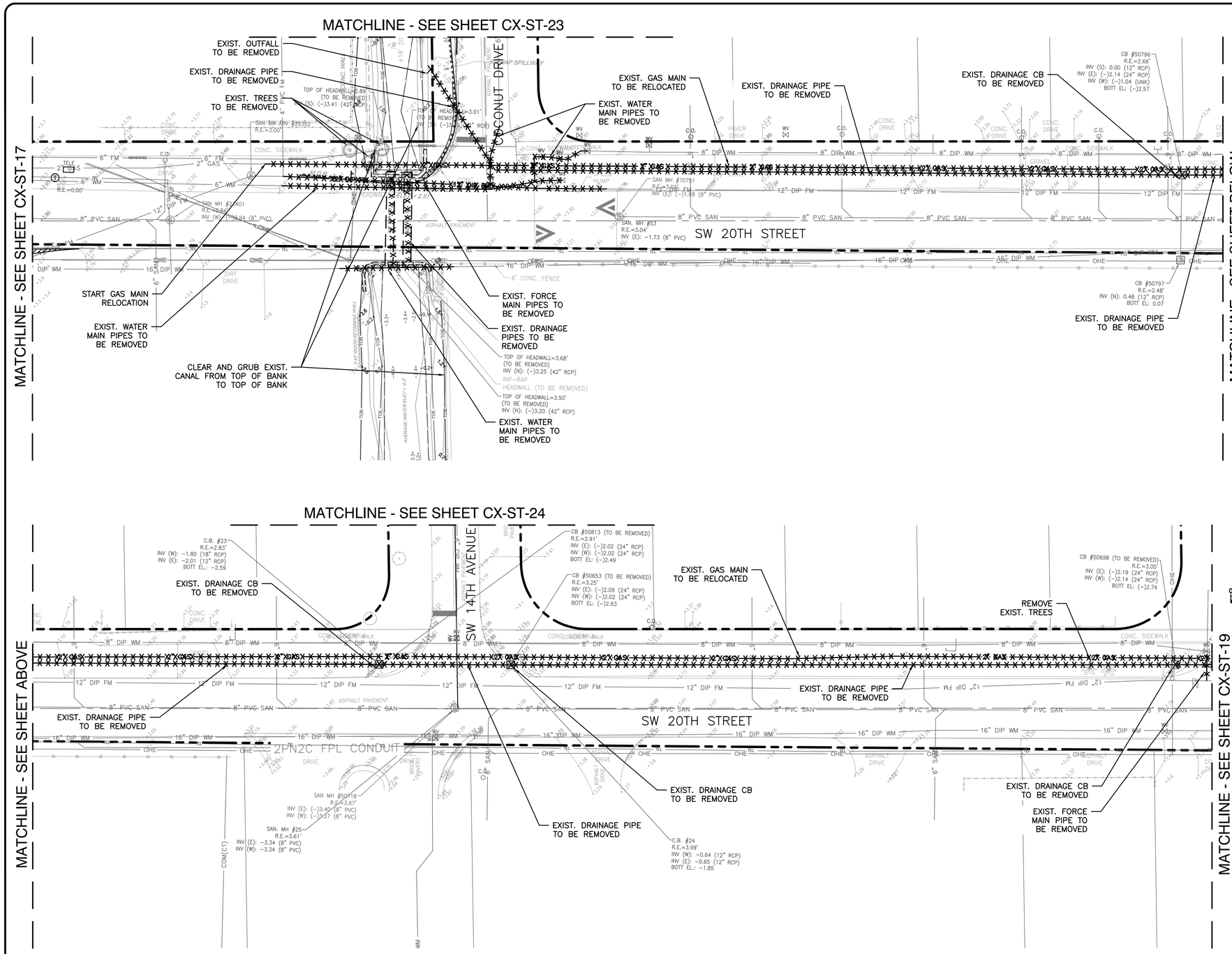

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HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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ENGINEERS · PLANNERS · SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL.: (954) 739-6400
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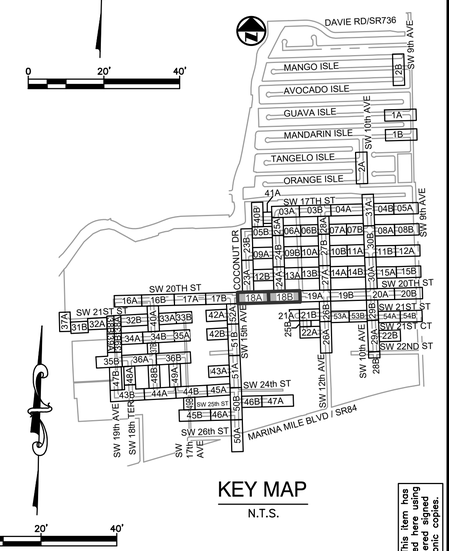

KEY MAP

N.T.S.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
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8/26/2021

CONSTRUCTION SET

ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX	DATE: 01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

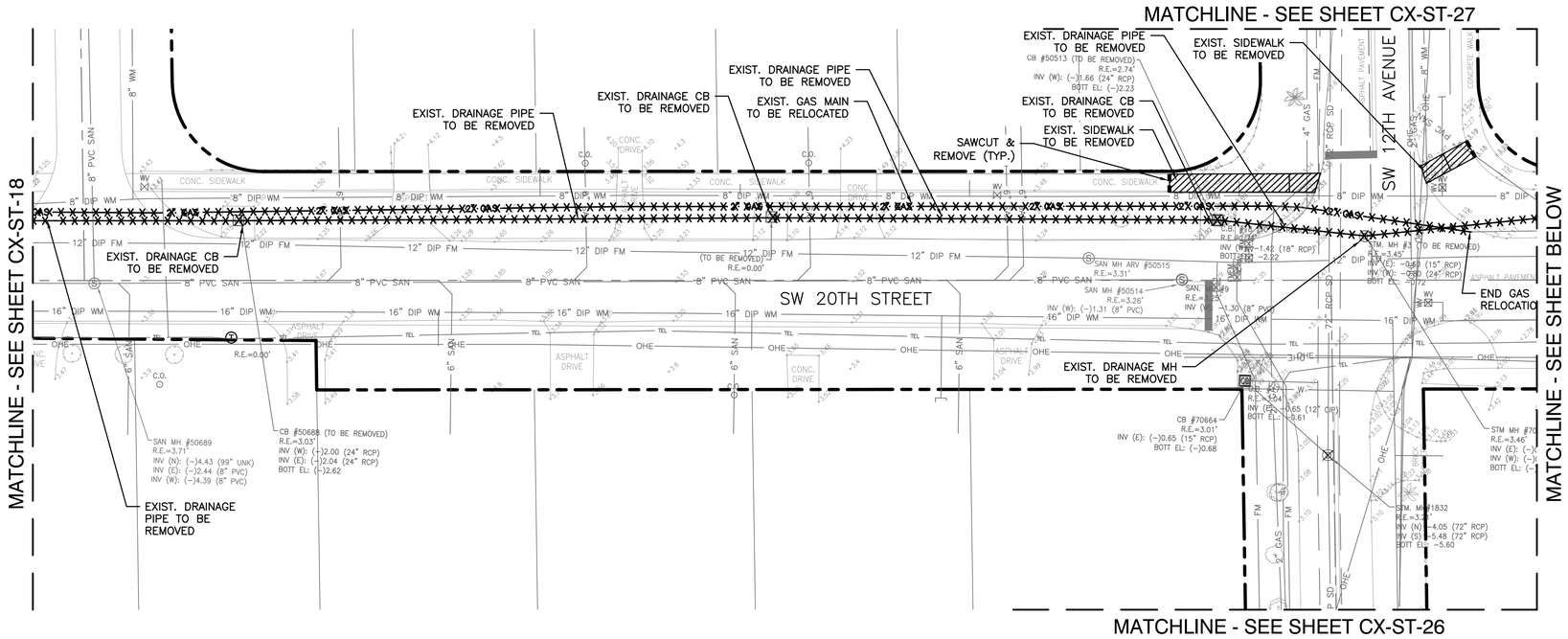
REVISIONS

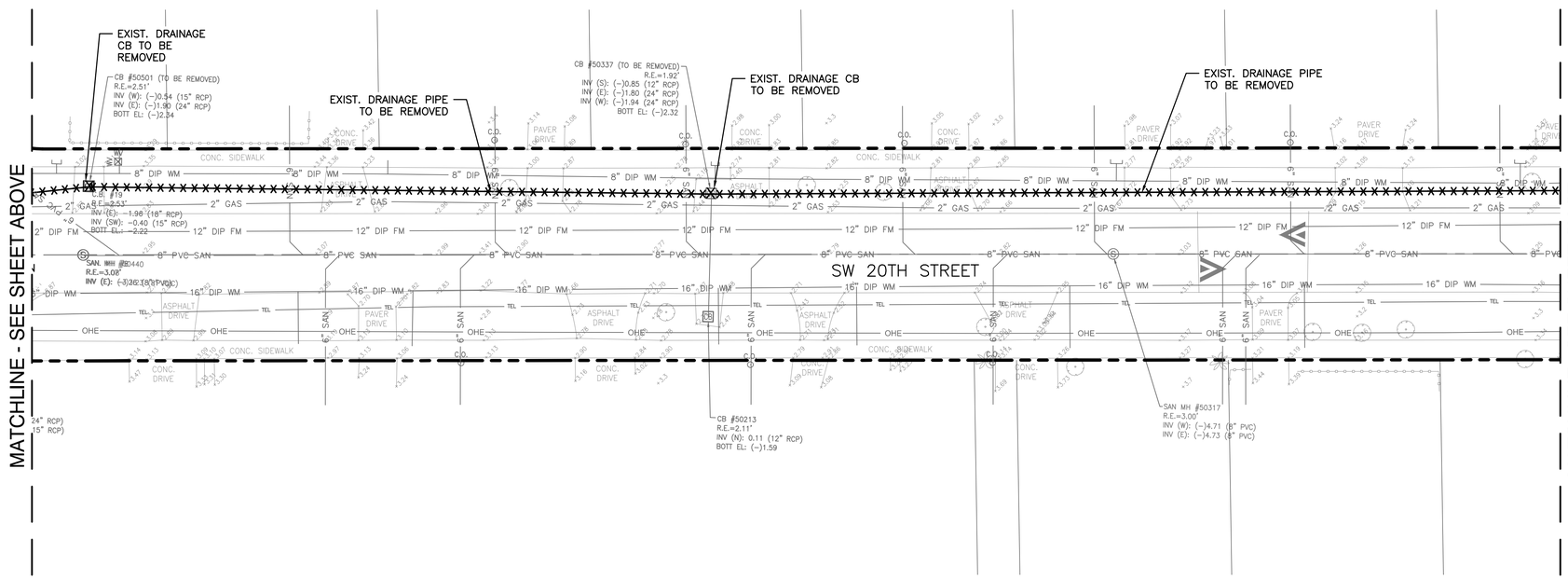
NO.	DATE	BY	CHK'D	DESCRIPTION

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

SHEET NO.
CX-ST-18
TOTAL: 255
CAD FILE: 11868-CX-ST-A
DRAWING FILE NO. 4-142-42





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4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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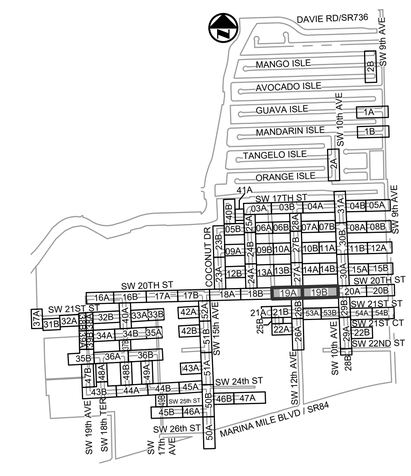

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ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY:	DATE:
XXX	01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

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CONSTRUCTION SET

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NO.
CX-ST-19
TOTAL: 255
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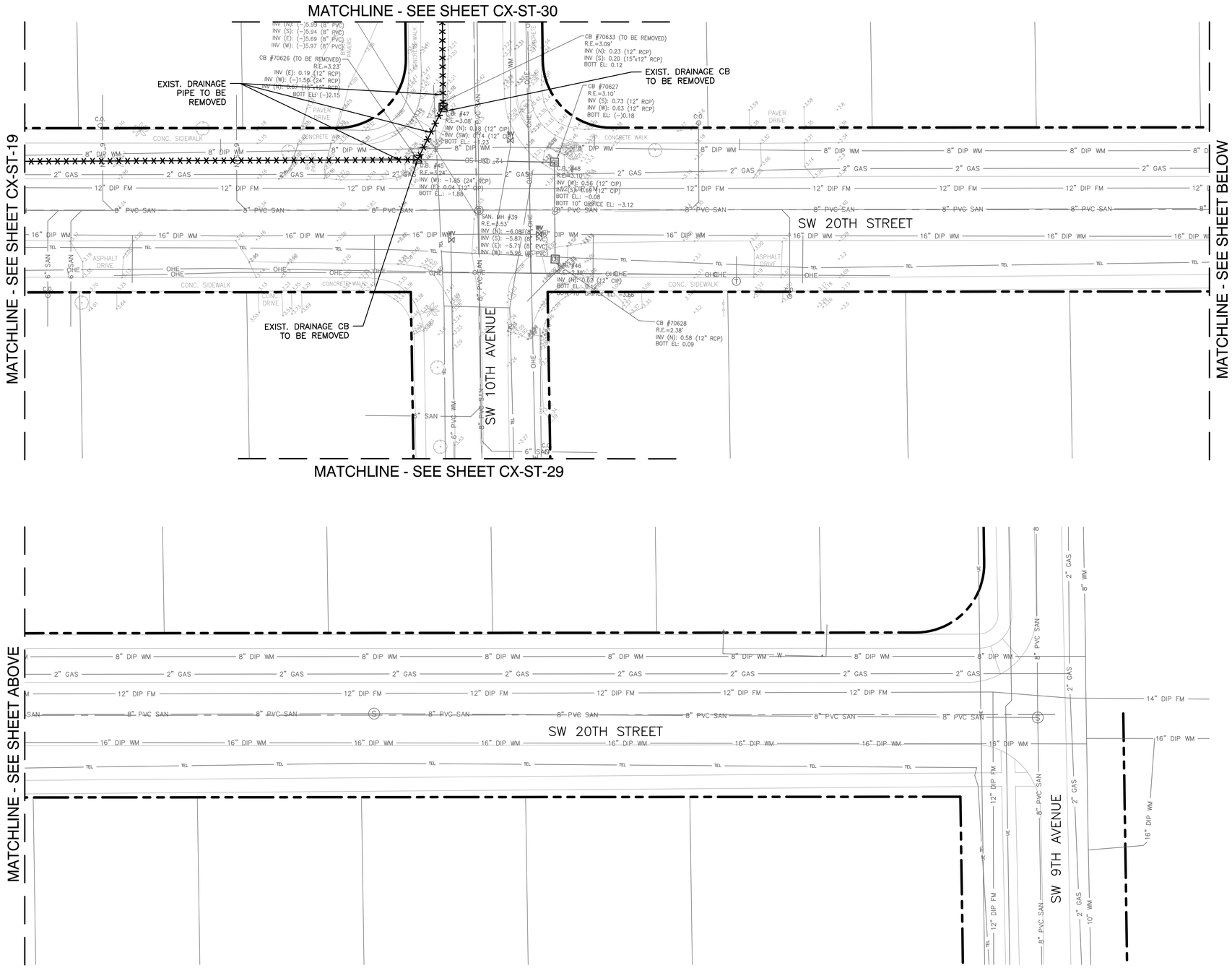

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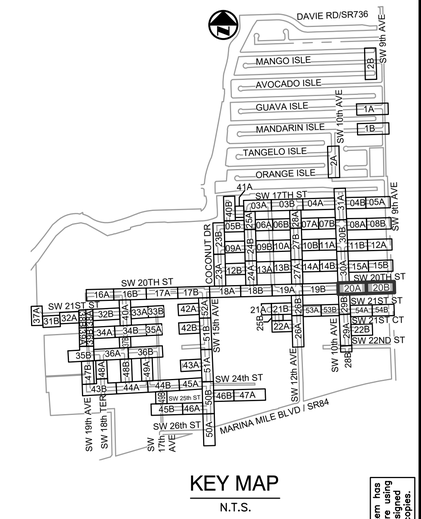

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PROJECT # 11868
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EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NO.
CX-ST-20
TOTAL: 255
CAD FILE: 11868-CX-ST-A
DRAWING FILE NO. 4-142-42

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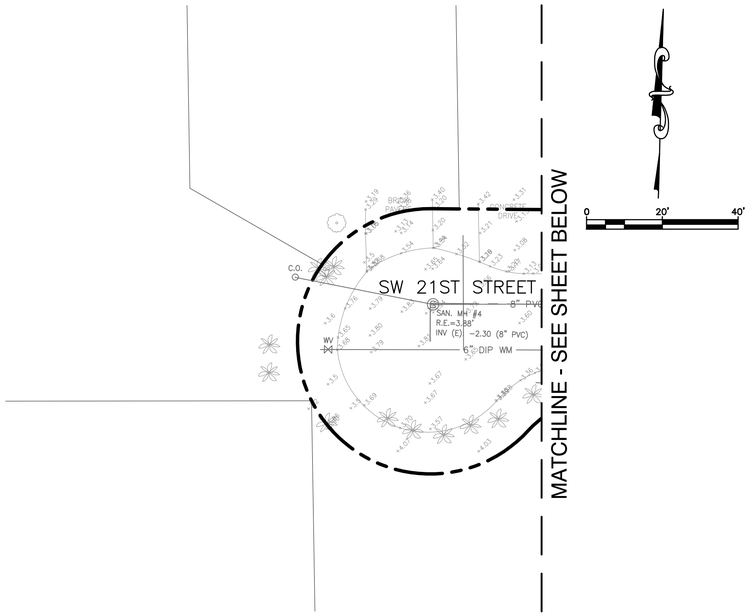

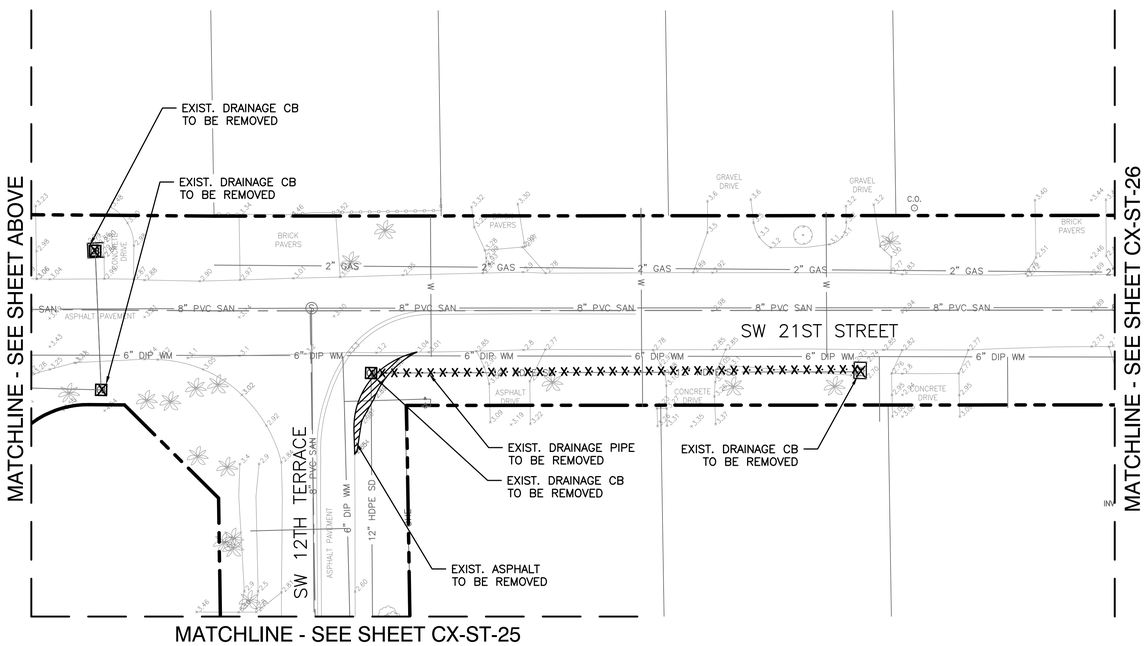

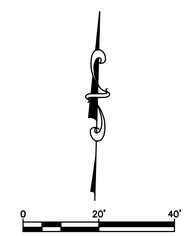

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

CRAVEN • THOMPSON AND ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL.: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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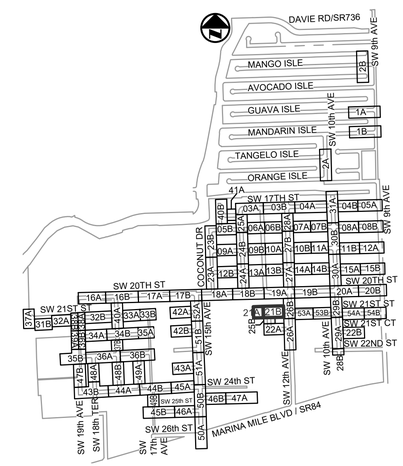


KEY MAP
N.T.S.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).
3. CONTRACTOR SHALL COORDINATE ALL ADJACENT TREE REMOVAL/RELOCATION WITH PROPERTY OWNER. AT OWNER'S DISCRETION CONTRACTOR SHALL MAKE TREE AVAILABLE OR PLAN/RELOCATE AT HOMEOWNER'S REQUEST WITH SIGNED WAIVER TO PLANT WITHIN PRIVATE PROPERTY.

Patrick J. Gibney, State of Florida, Professional Engineer, License No. 49428 This item has been electronically signed and sealed by Patrick J. Gibney on the date indicated here using an SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.
8/26/2021

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

CONSTRUCTION SET

ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX	DATE: 01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

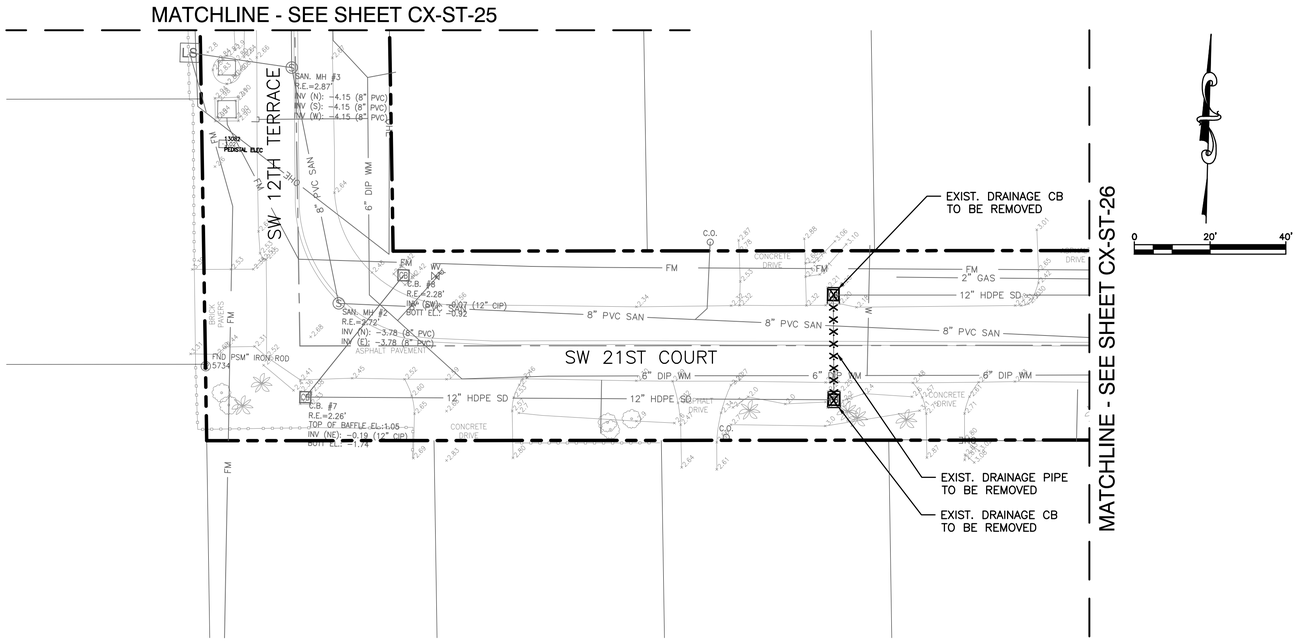
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

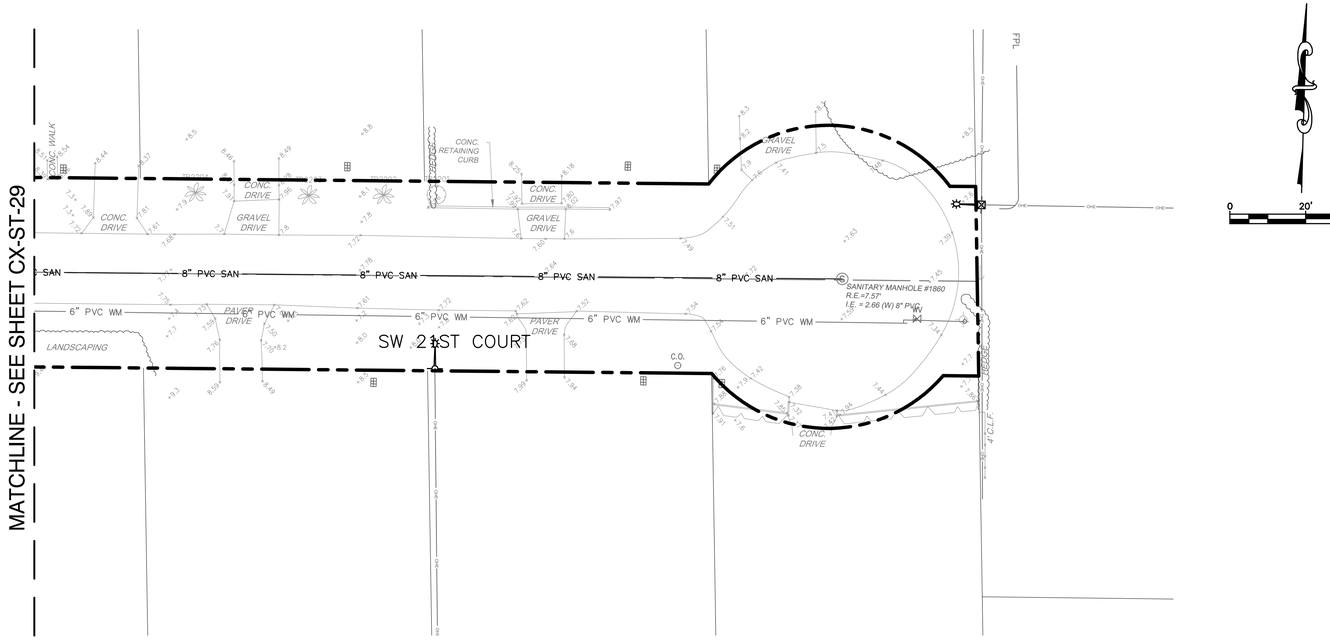
SHEET NO.
CX-ST-21

TOTAL: 255

CAD FILE: 11868-CX-ST-A

DRAWING FILE NO. 4-142-42





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FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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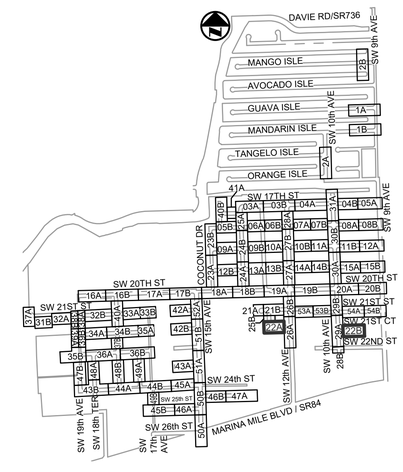

KEY MAP

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CONSTRUCTION SET

ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY:	DATE:
XXX	01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

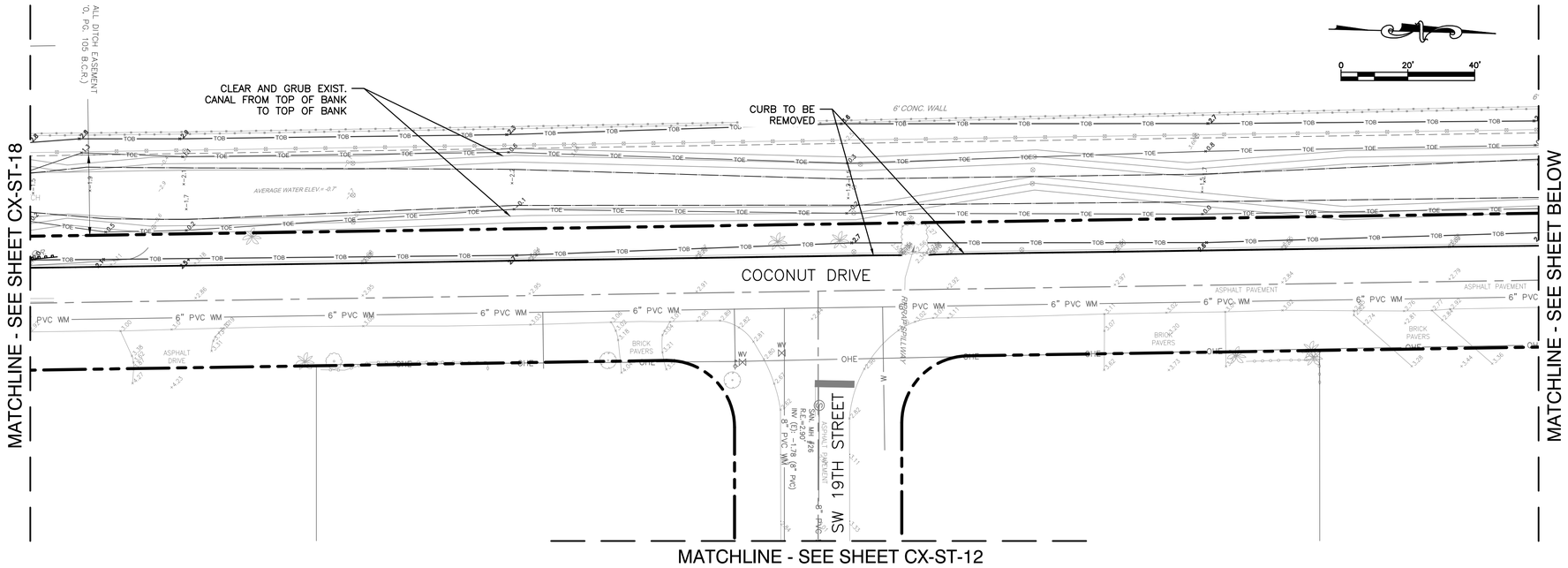
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

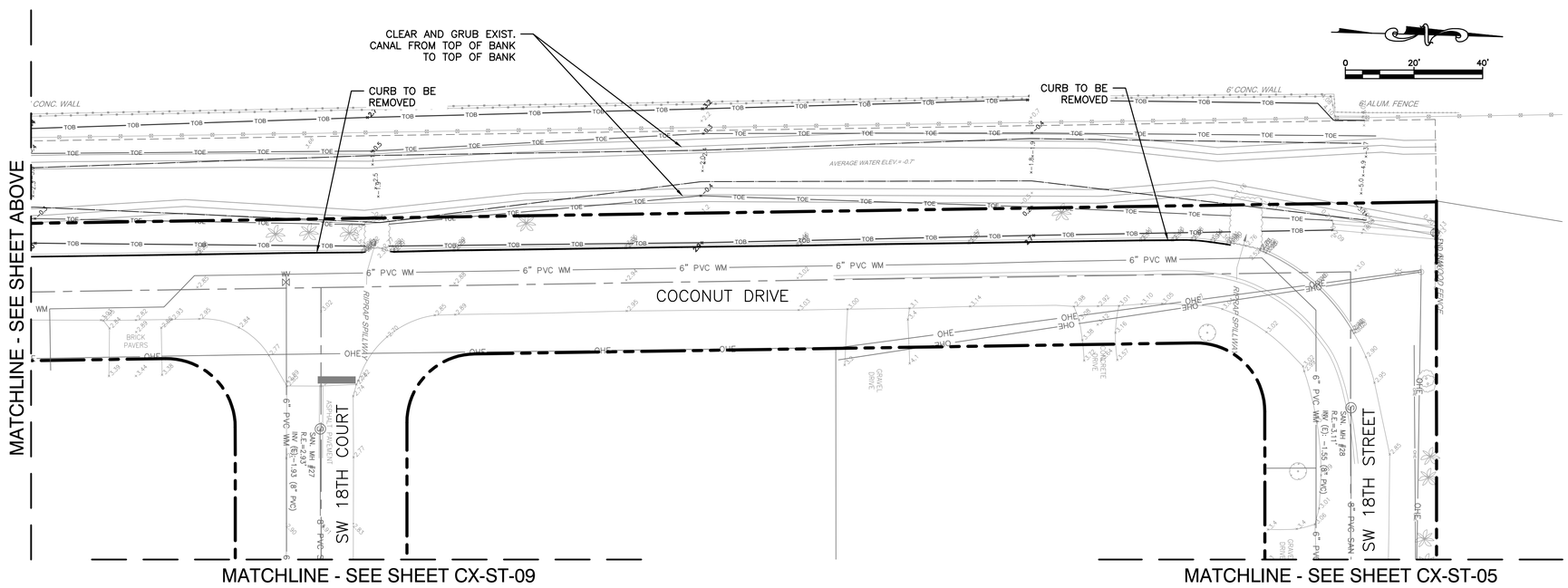
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NO.
CX-ST-22
TOTAL: 255
CAD FILE: 11868-CX-ST-A
DRAWING FILE NO. 4-142-42





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HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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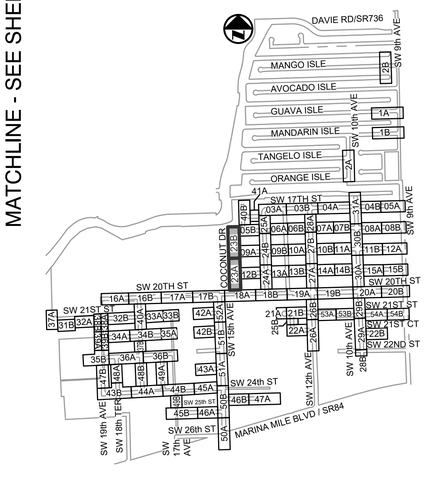

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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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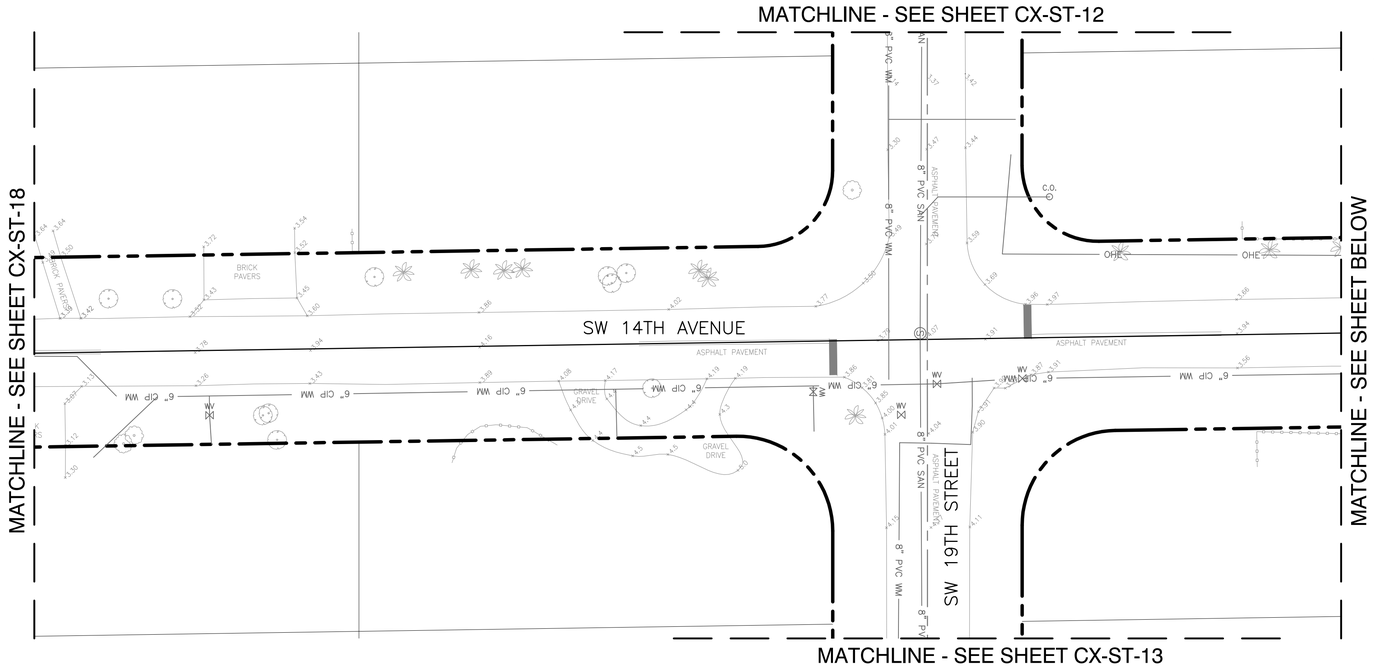
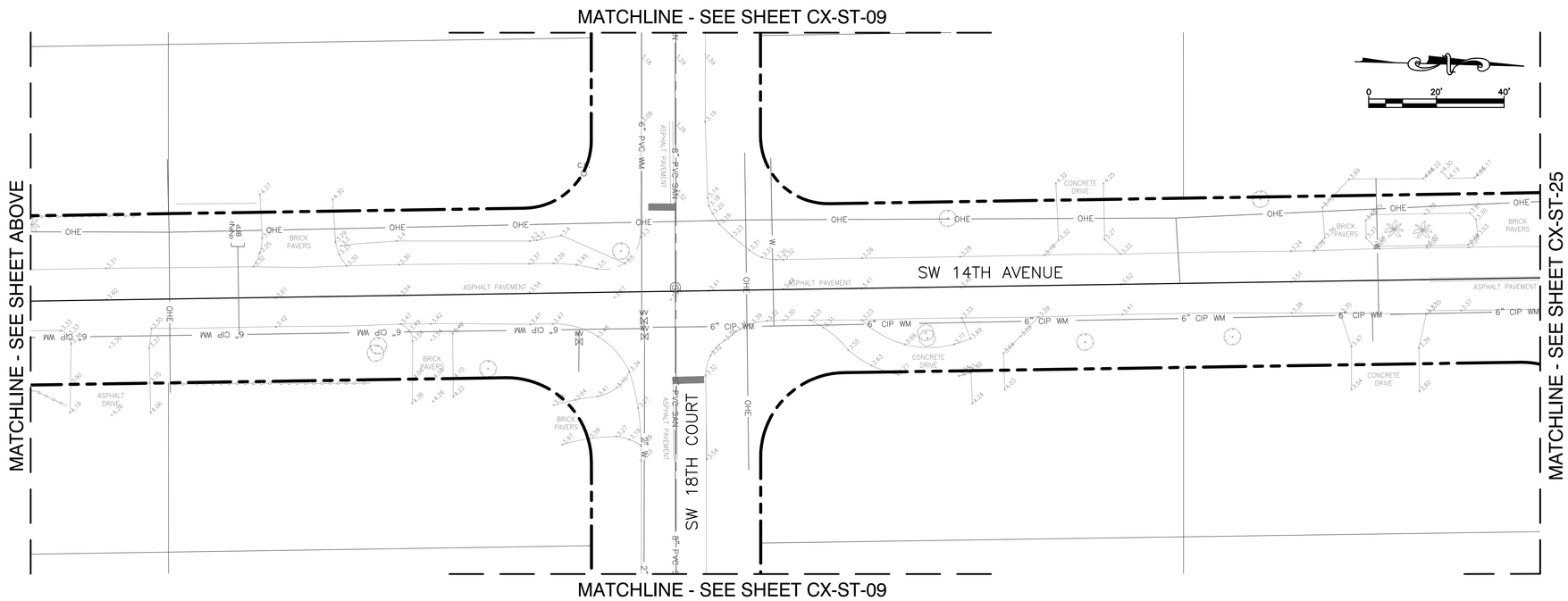
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NO.
CX-ST-23
TOTAL: 255
CAD FILE: 11868-CX-ST-A
DRAWING FILE NO. 4-142-42





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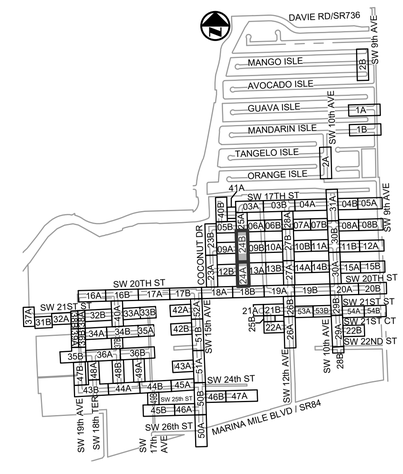

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NO.	DATE	BY	CHK'D	DESCRIPTION

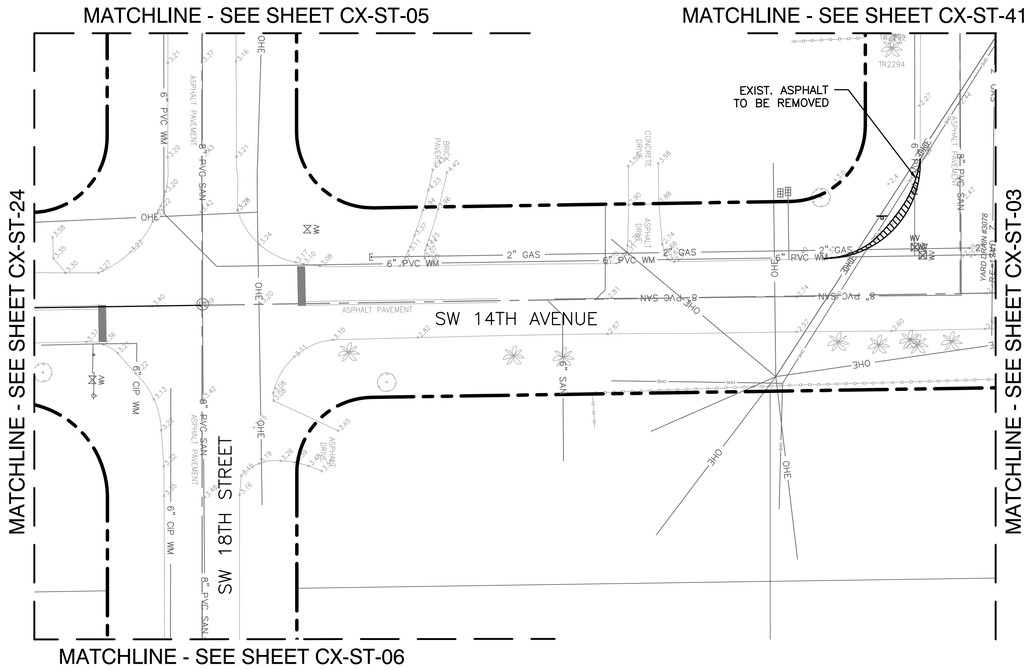
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

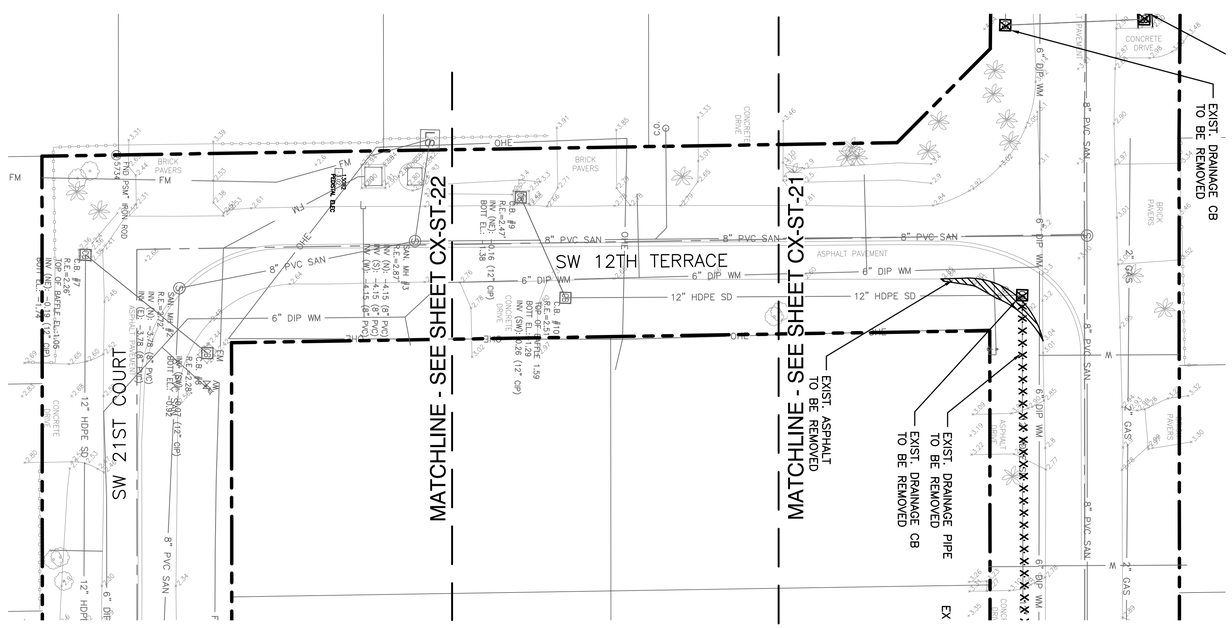
SHEET NO.
CX-ST-24

TOTAL: 255

CAD FILE: 11868-CX-ST-A

DRAWING FILE NO. 4-142-42





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FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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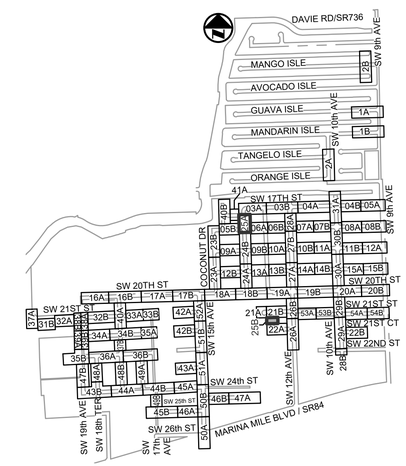

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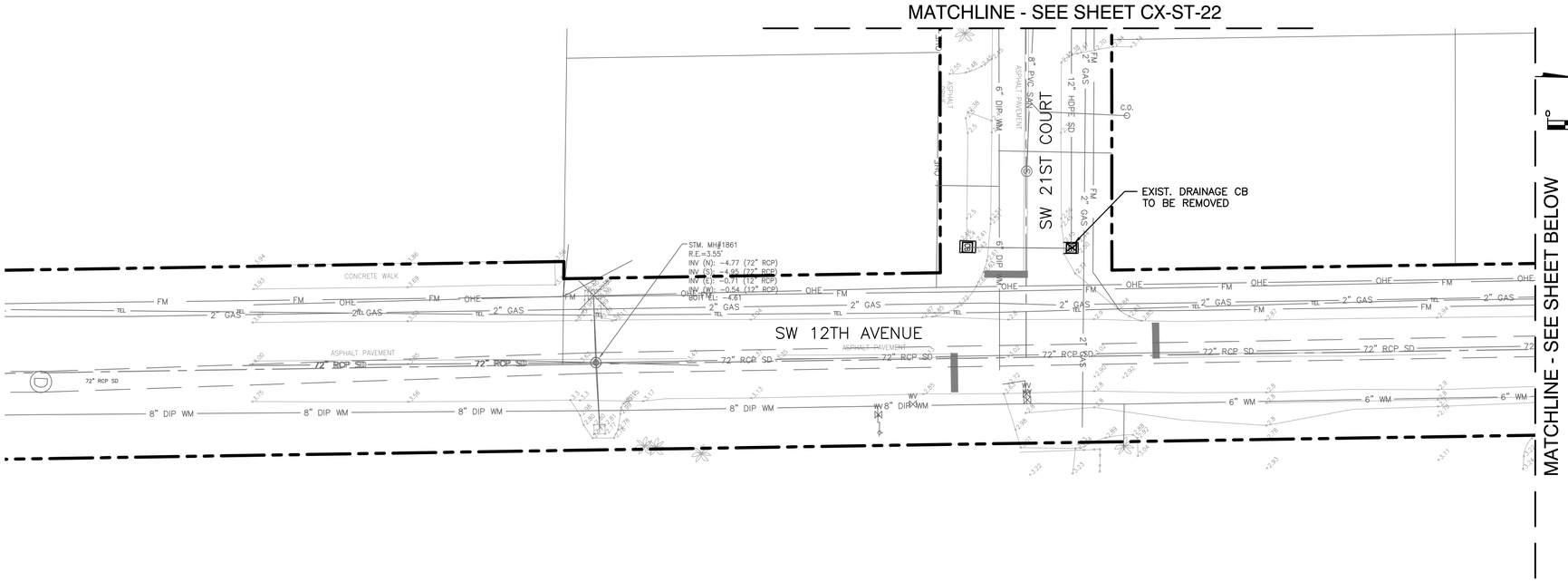
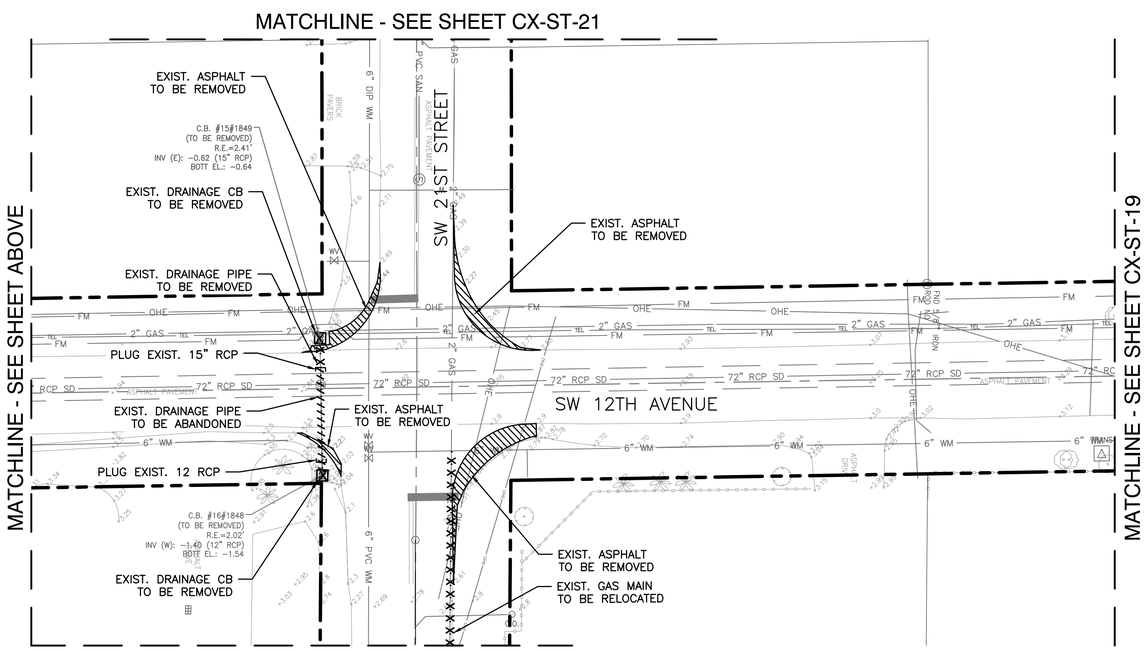
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NO.
CX-ST-25
TOTAL: 255
CAD FILE: 11868-CX-ST-A
DRAWING FILE NO. 4-142-42





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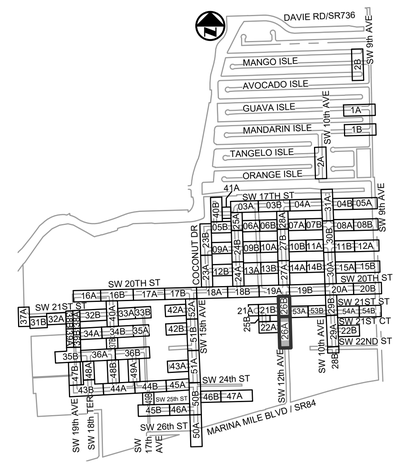

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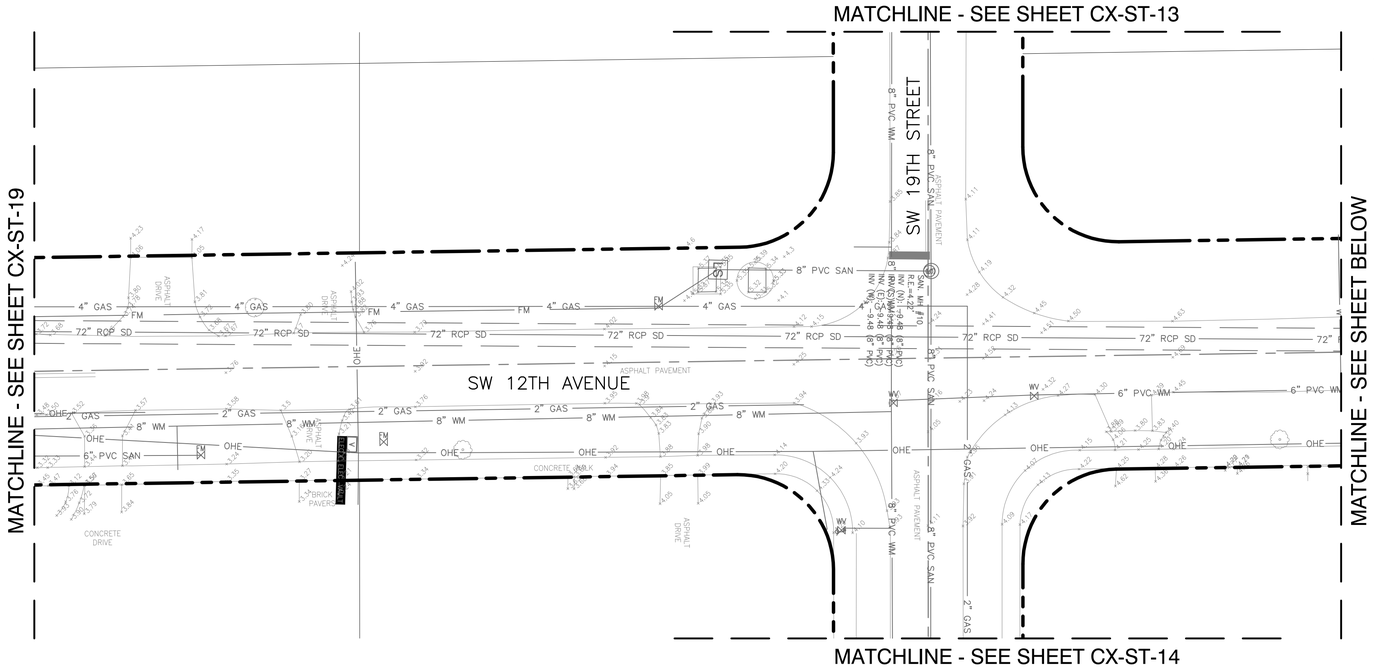
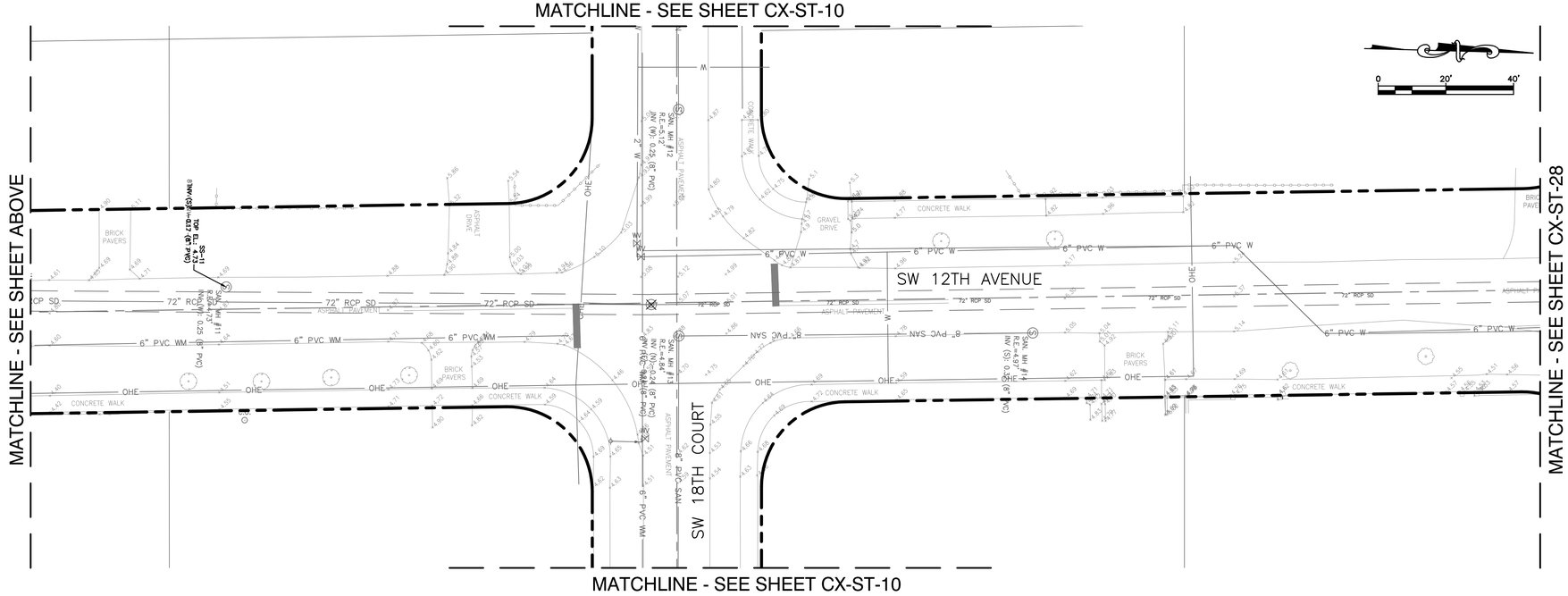
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NO.
CX-ST-26
TOTAL: 255
CAD FILE: 11868-CX-ST-A
DRAWING FILE NO. 4-142-42





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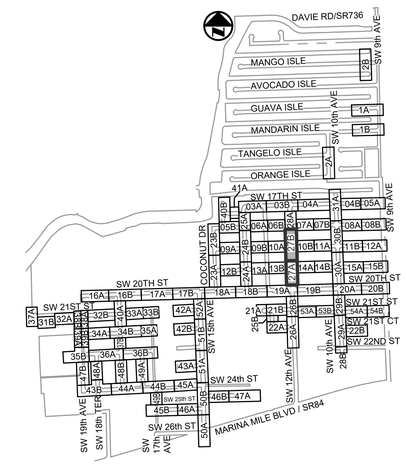

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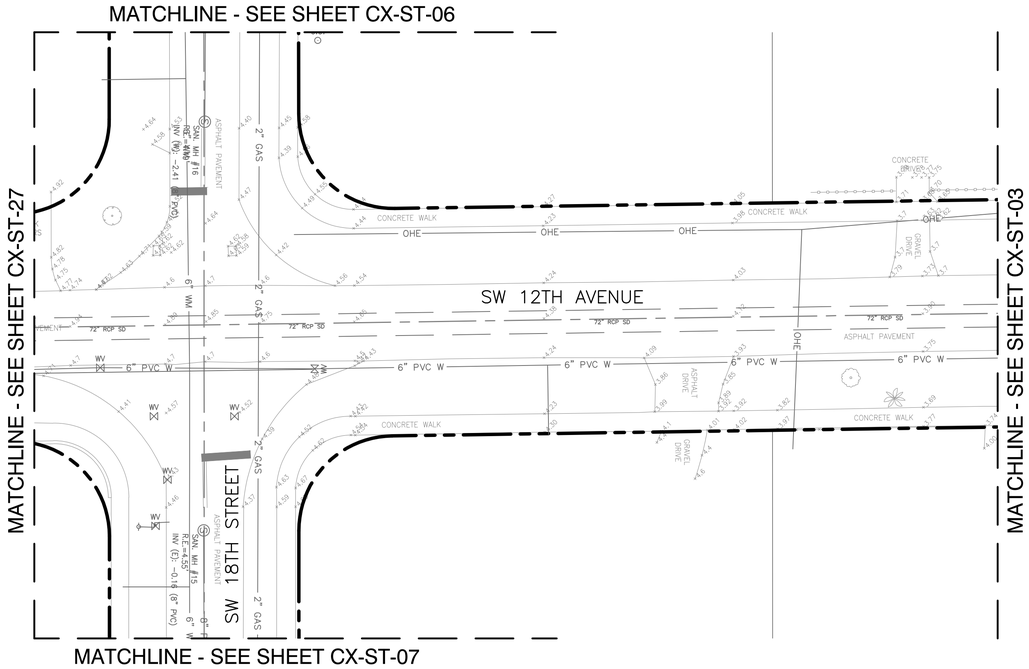
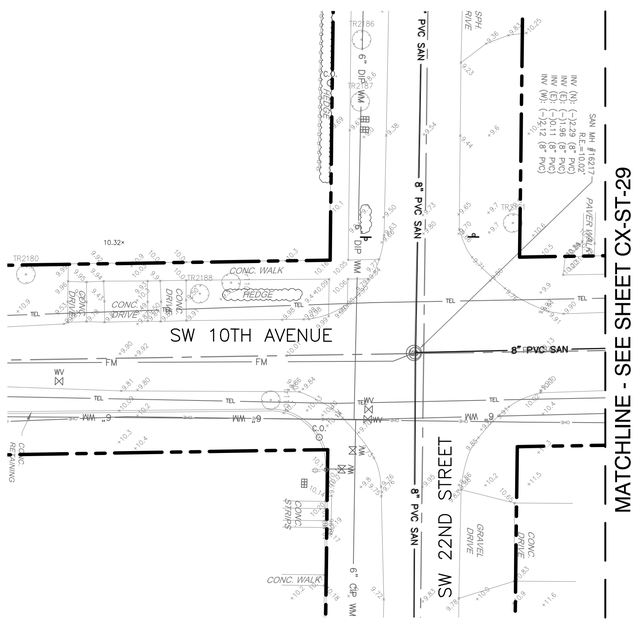
SHEET NO.
CX-ST-27

TOTAL: 255

CAD FILE: 11868-CX-ST-A

DRAWING FILE NO. 4-142-42





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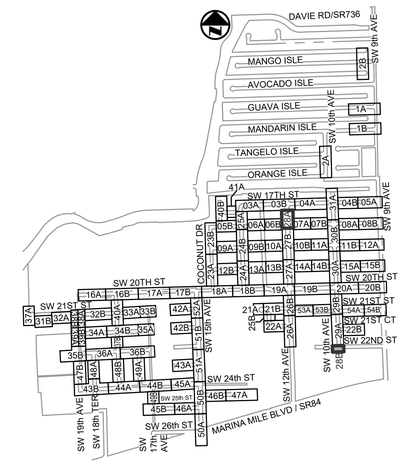

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8/26/2021

CONSTRUCTION SET

ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX	DATE: 01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

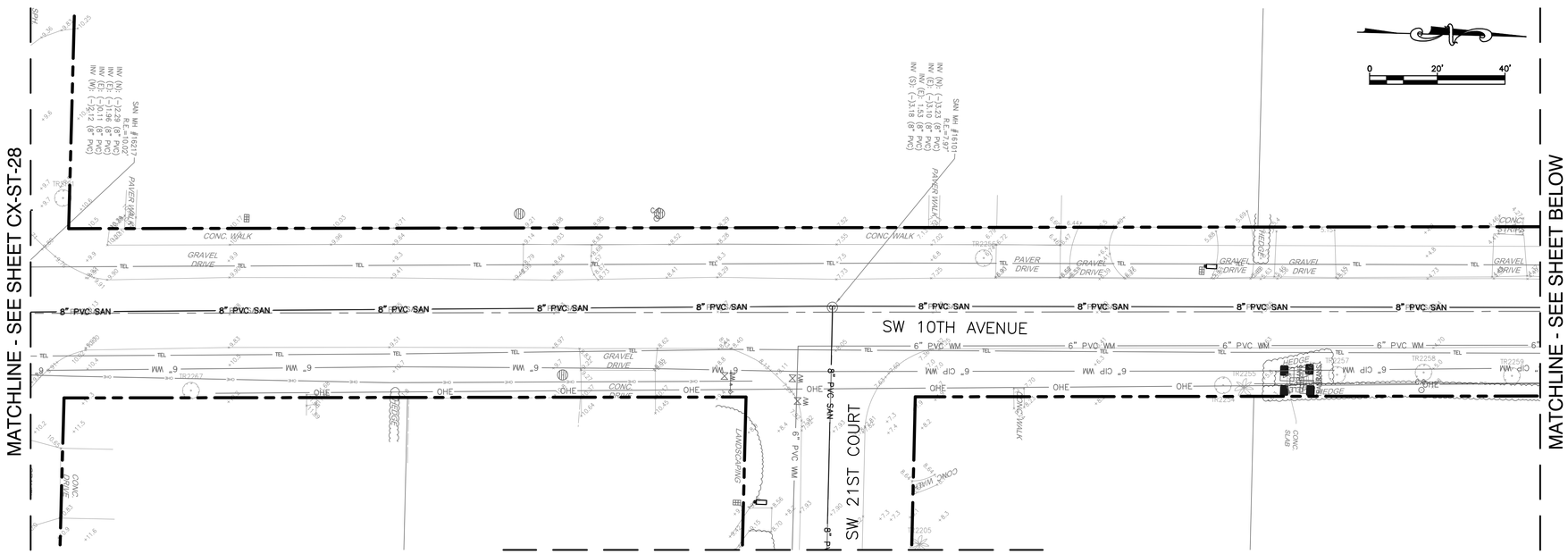
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

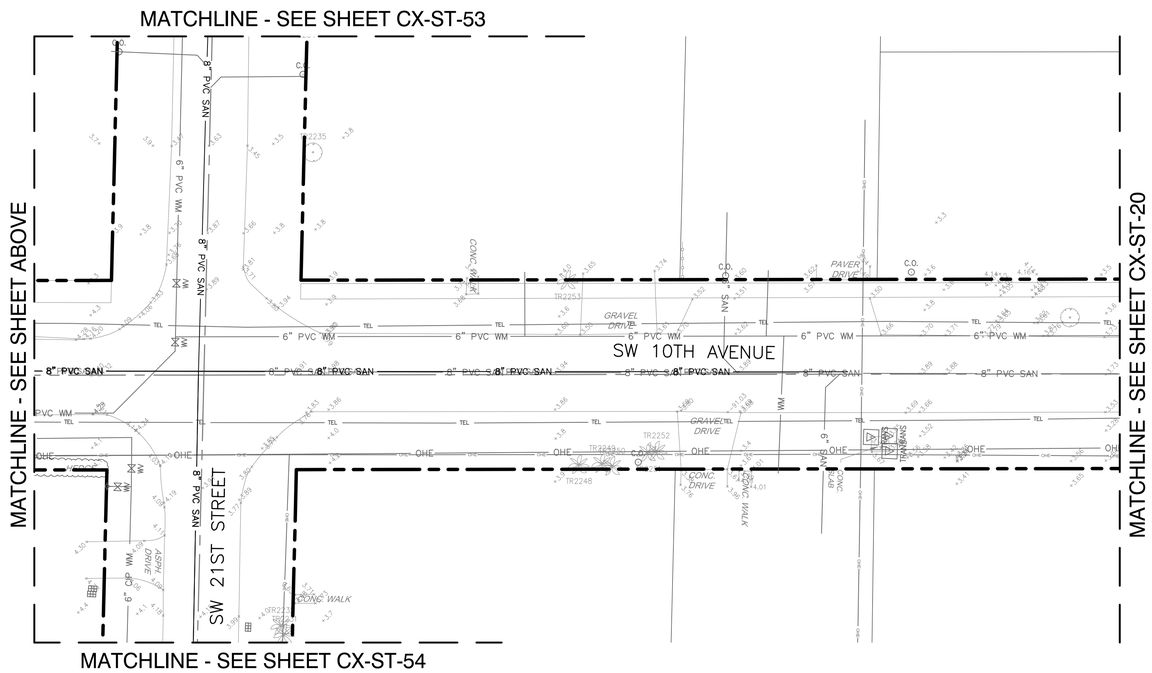
REVISIONS

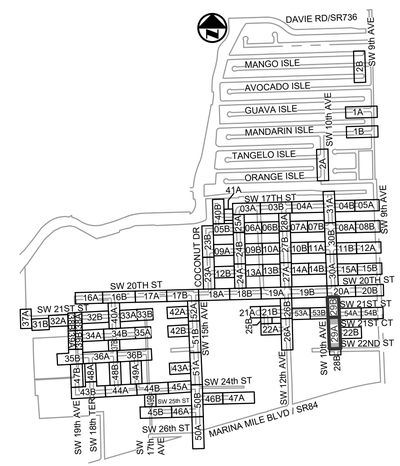
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NO.
CX-ST-28
TOTAL: 255
CAD FILE: 11868-CX-ST-A
DRAWING FILE NO. 4-142-42







KEY MAP

N.T.S.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

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HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL.: (954) 739-6400
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XXX	01/07/2019
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CHECKED BY: XXX	
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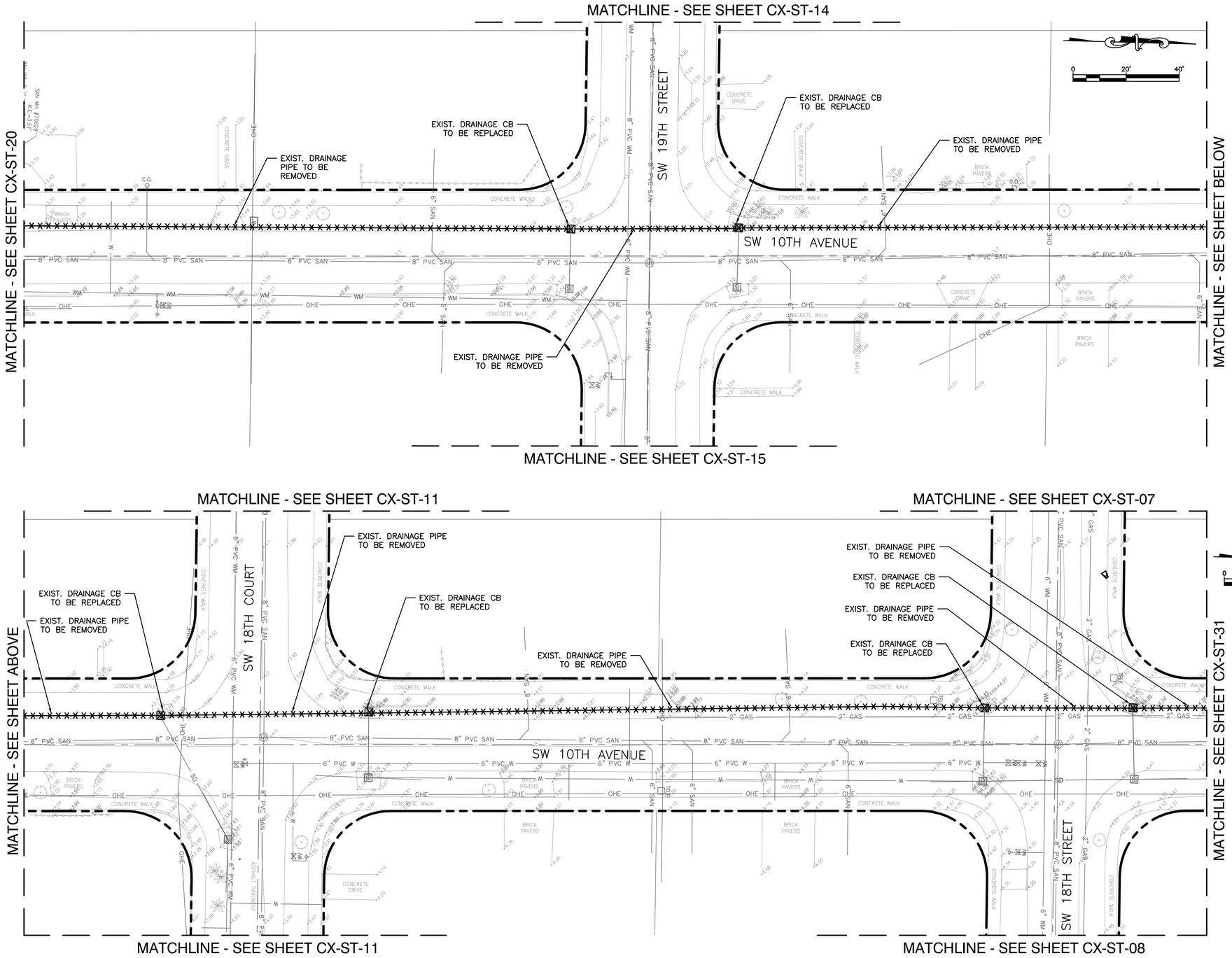
8/26/2021

CONSTRUCTION SET

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

SHEET NO.
CX-ST-29
TOTAL: 255
CAD FILE: 11868-CX-ST-A
DRAWING FILE NO. 4-142-42



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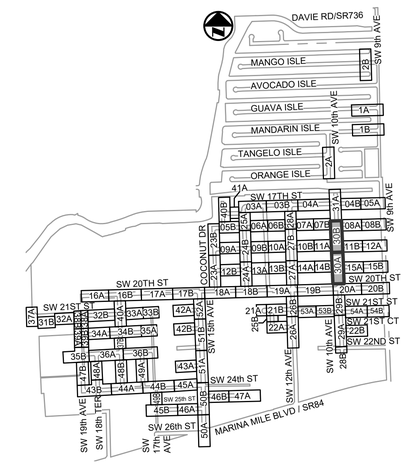

KEY MAP
N.T.S.

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TEL: 954-987-0066
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DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
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CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

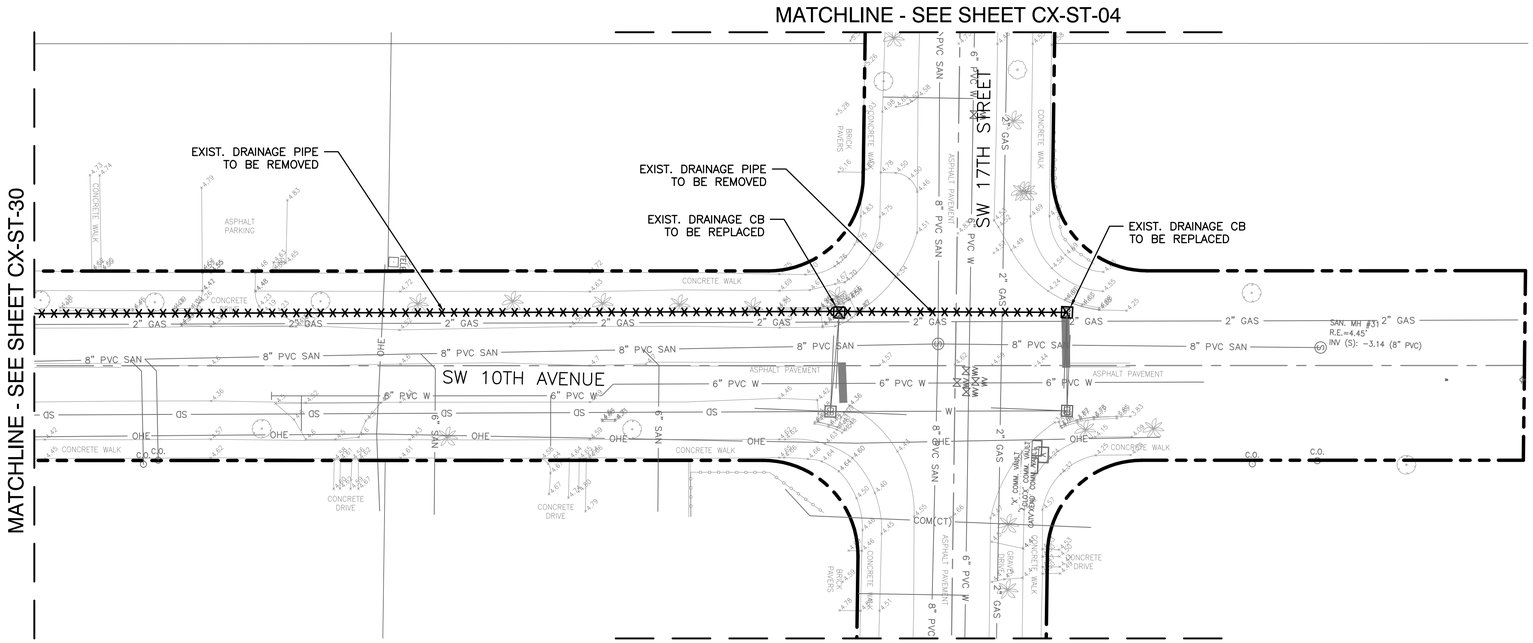
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

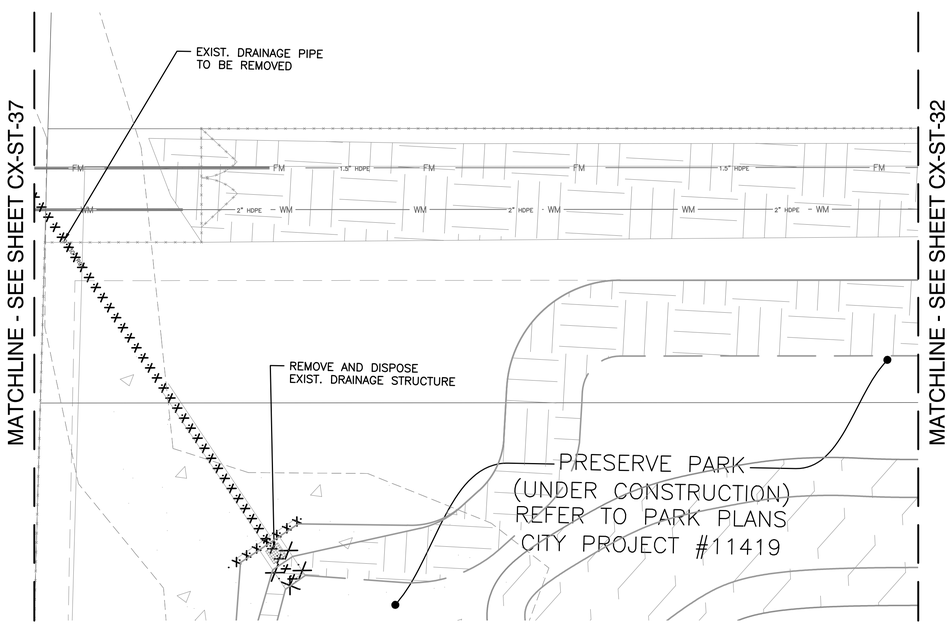
SHEET NO.
CX-ST-30

TOTAL: 255

CAD FILE: 11868-CX-ST-A

DRAWING FILE NO. 4-142-42





0 20' 40'

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HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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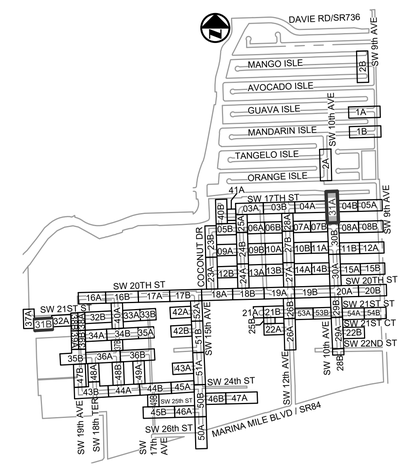

KEY MAP
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CONSTRUCTION SET

ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

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DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

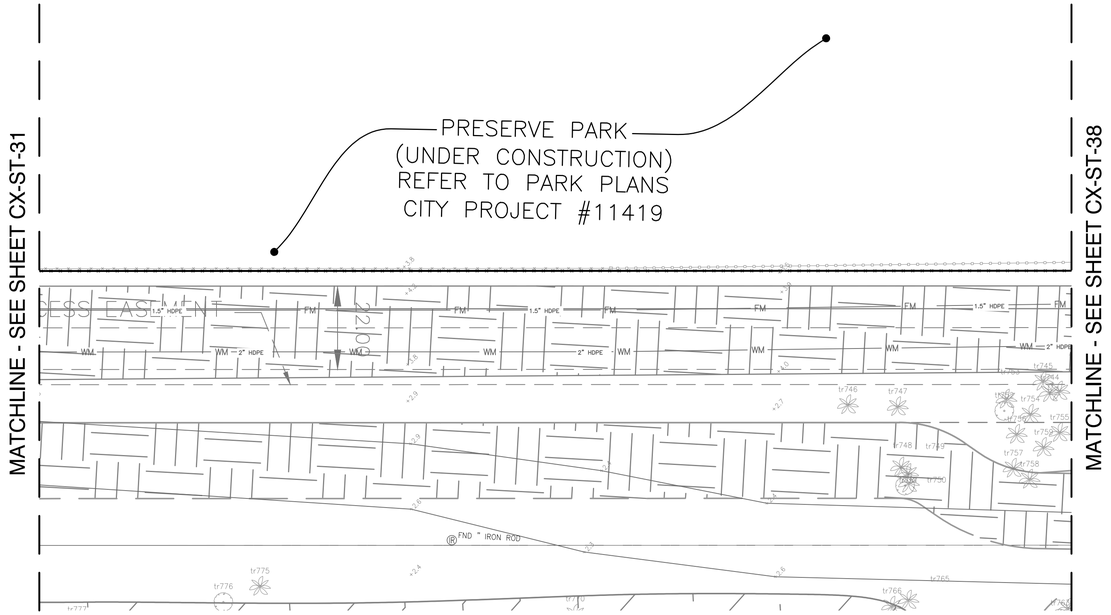
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS & DEMOLITION PLAN

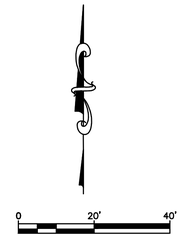
SHEET NO.
CX-ST-31

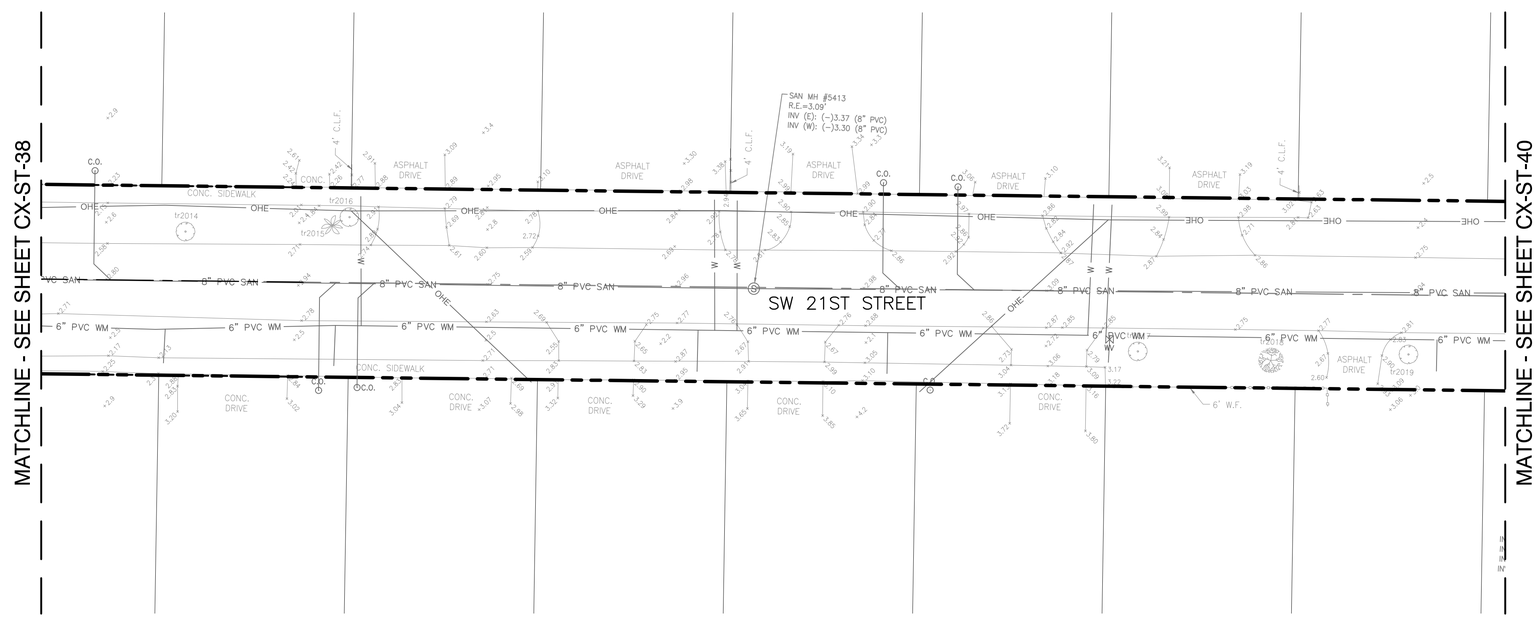
TOTAL: 255

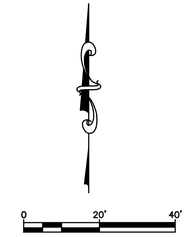
CAD FILE: 11868-CX-ST-A

DRAWING FILE NO. 4-142-42









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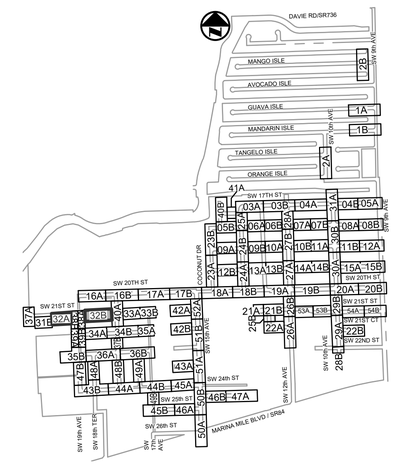

KEY MAP

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CONSTRUCTION SET

ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
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TEL: 954-987-0066
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DRAWN BY: XXX	DATE: 01/07/2019
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FIELD BOOK: XXXX	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

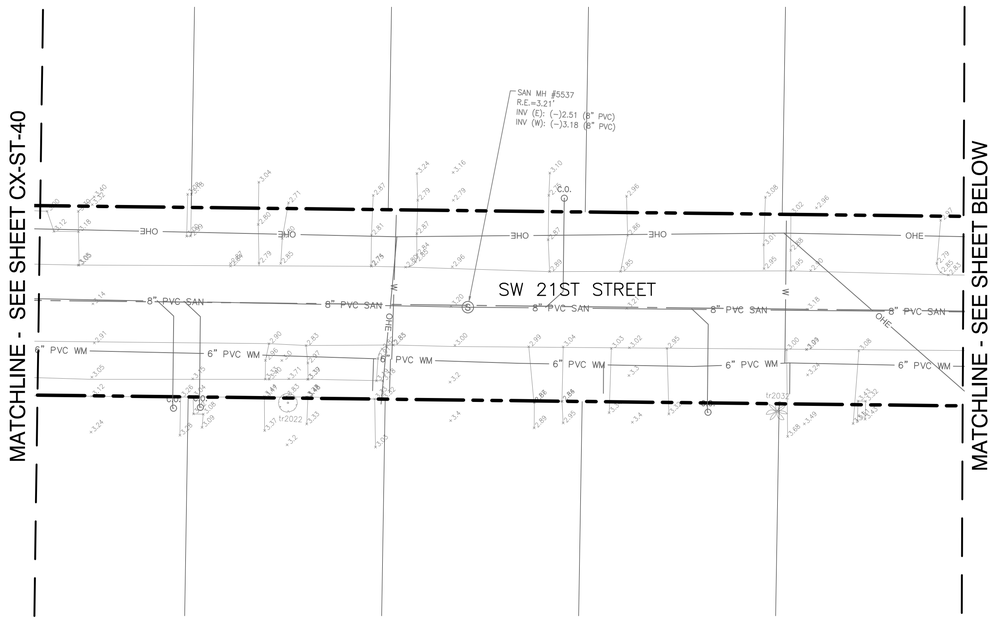
SHEET NO.
CX-ST-32

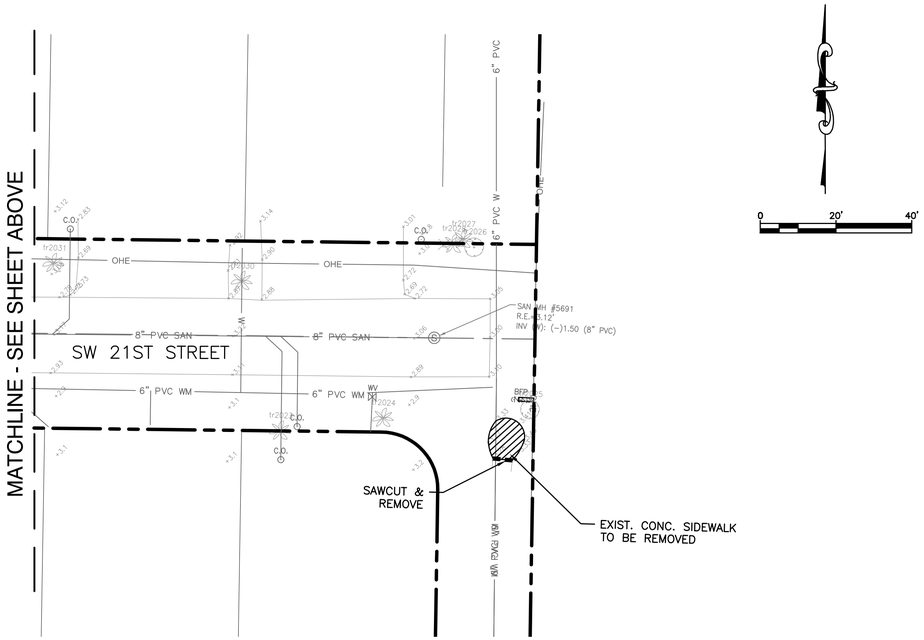
TOTAL: 255

CAD FILE: 11868-CX-ST-B

DRAWING FILE NO. 4-142-42

CAM #22-0947





Hazen

HAZEN AND SAWYER
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Certificate of Authorization No: 2771

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KEY MAP
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RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

SHEET NO.
CX-ST-33
TOTAL: 255
CAD FILE: 11868-CX-ST-B
DRAWING FILE NO. 4-142-42

PLOT DATE: 8/26/2021 12:22 PM BY: MRODRIGUEZ
XREFs= .\11868SURV,.\11868topo,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFNOTES,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFUTIL,.\11868TOP,.\11868SITE,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master 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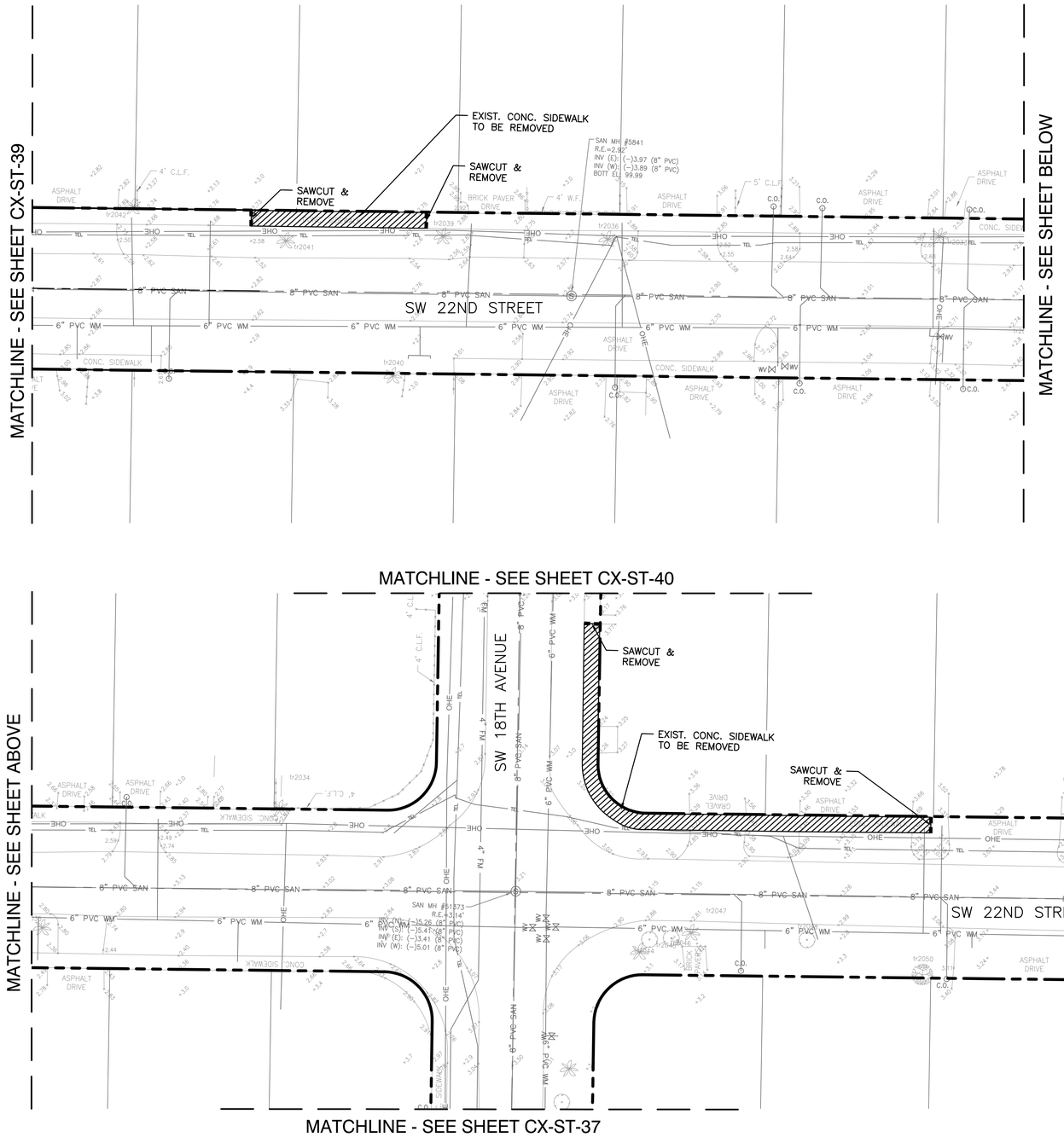

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KEY MAP
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0 20' 40'

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8/26/2021

CONSTRUCTION SET

ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX	DATE: 01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: CX-ST-34	
FIELD BOOK: XXXX	

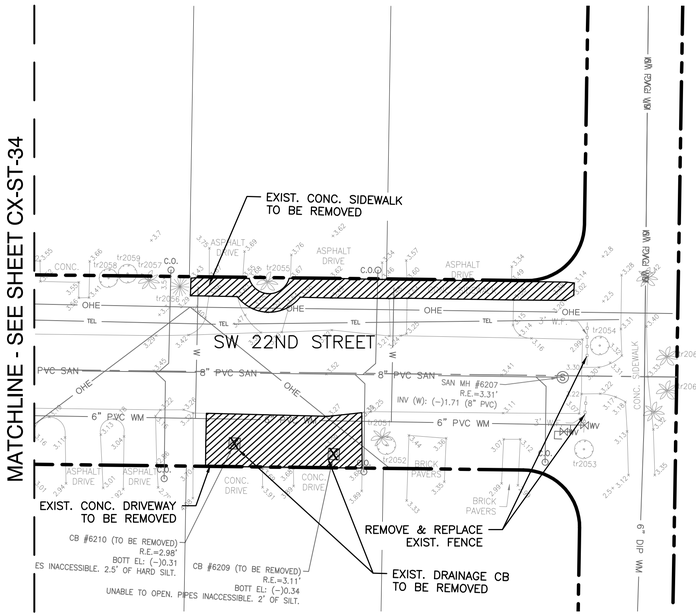
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

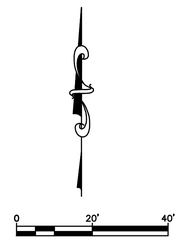
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

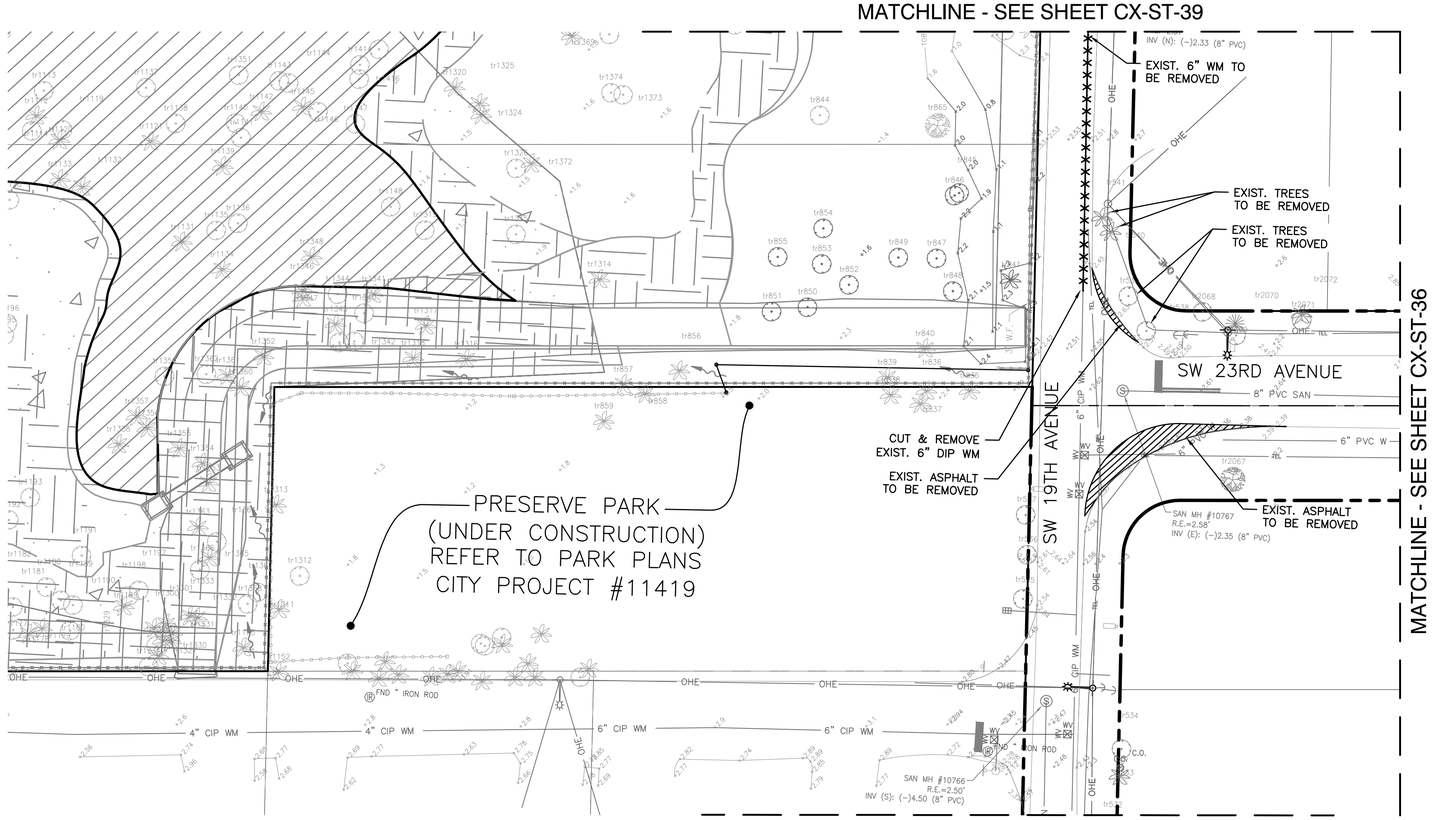
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

SHEET NO.
CX-ST-34
TOTAL: 255
CAD FILE: 11868-CX-ST-B
DRAWING FILE NO. 4-142-42





MATCHLINE - SEE SHEET CX-ST-39



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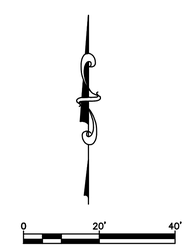

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL.: (954) 739-6400
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FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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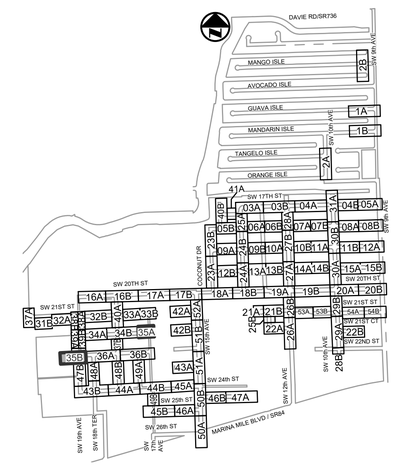

KEY MAP
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CONSTRUCTION SET

ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX	DATE: 01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: CX-ST-35	
FIELD BOOK: XXXX	

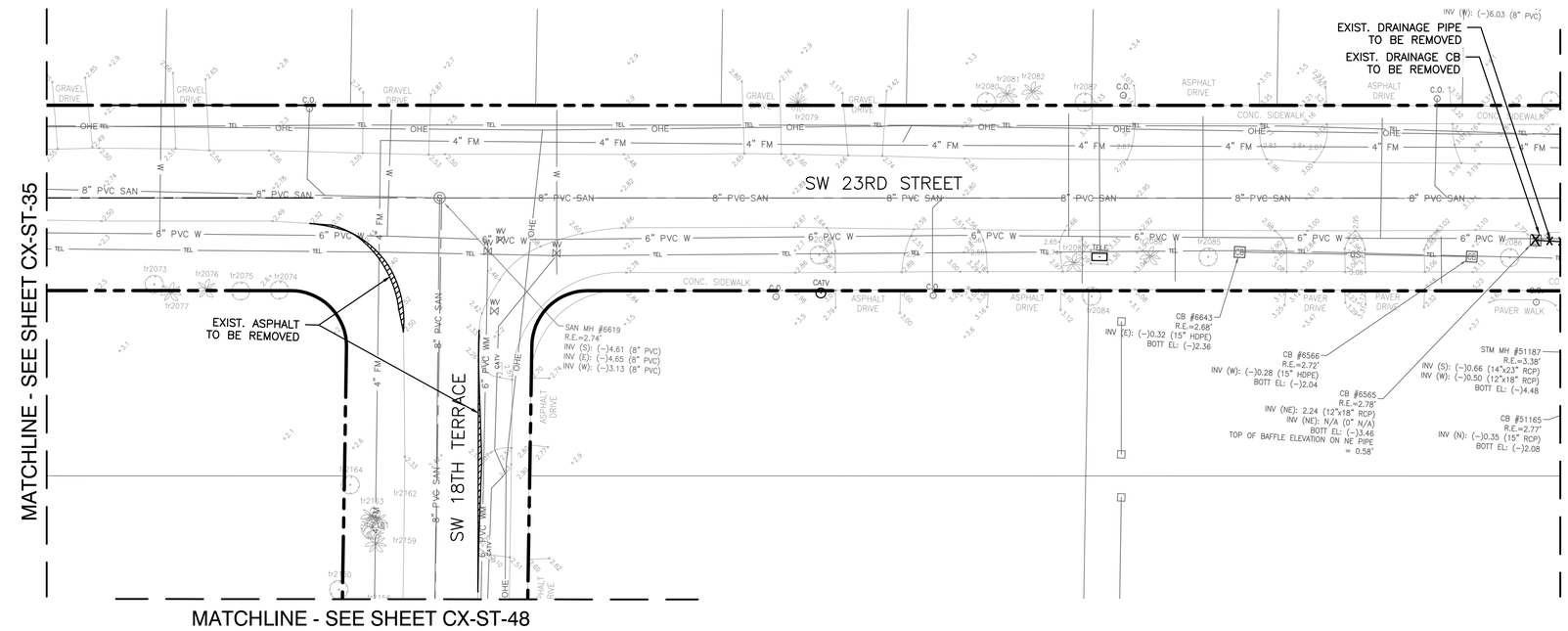
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

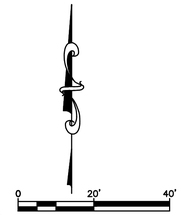
REVISIONS

NO.	DATE	BY	CHKD	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NO.
CX-ST-35
TOTAL: 255
CAD FILE: 11868-CX-ST-B
DRAWING FILE NO. 4-142-42





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HAZEN AND SAWYER
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HOLLYWOOD, FLORIDA 33021

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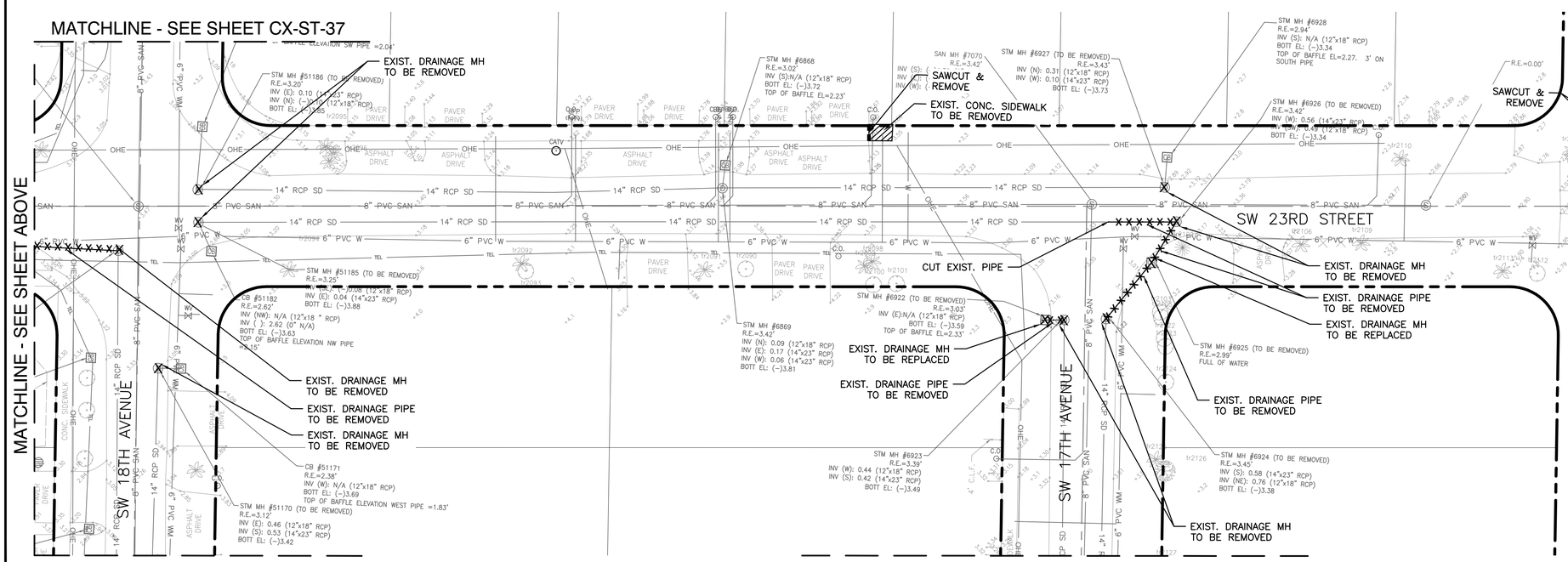

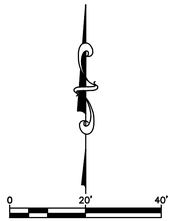

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FAX: 954-987-2949

DATE:	DRAWN BY:	DESIGNED BY:	CHECKED BY:	FIELD BOOK:
01/07/2019	XXX	XXX	XXX	XXXX

SCALE: 1"=20'

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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8/26/2021

CONSTRUCTION SET

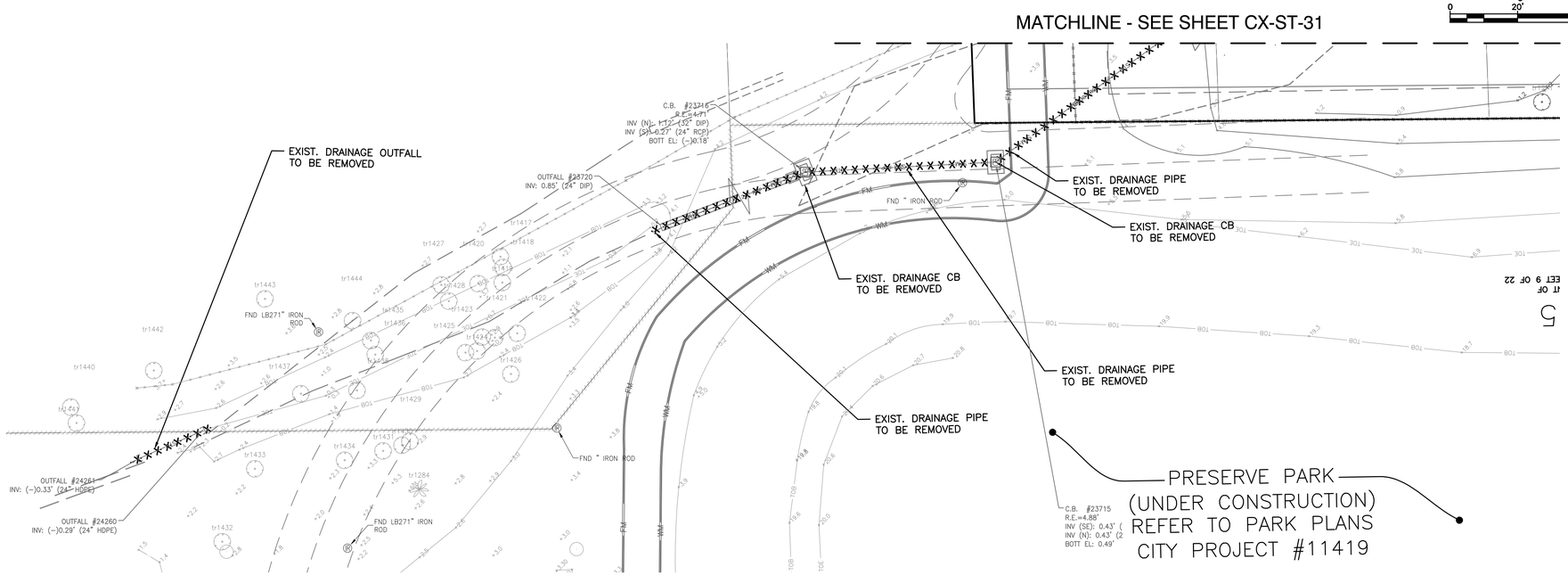
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS & DEMOLITION PLAN

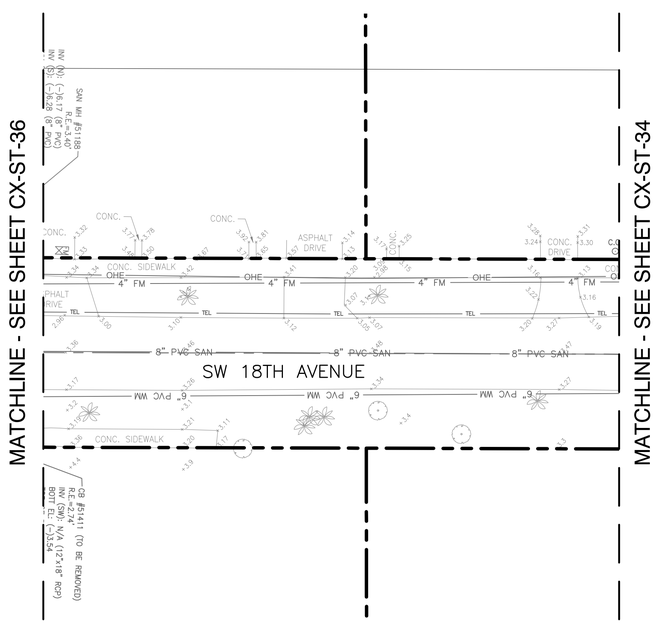
SHEET NO.
CX-ST-36

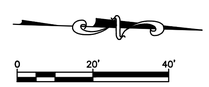
TOTAL: 255

CAD FILE: 11868-CX-ST-B

DRAWING FILE NO. 4-142-42







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ENGINEER: PATRICK J. GIBNEY
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TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX	DATE: 01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
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PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

SHEET NO.
CX-ST-37

TOTAL: 255

CAD FILE: 11868-CX-ST-B

DRAWING FILE NO. 4-142-42

PLOT DATE: 8/26/2021 12:26 PM BY: MRODRIGUEZ
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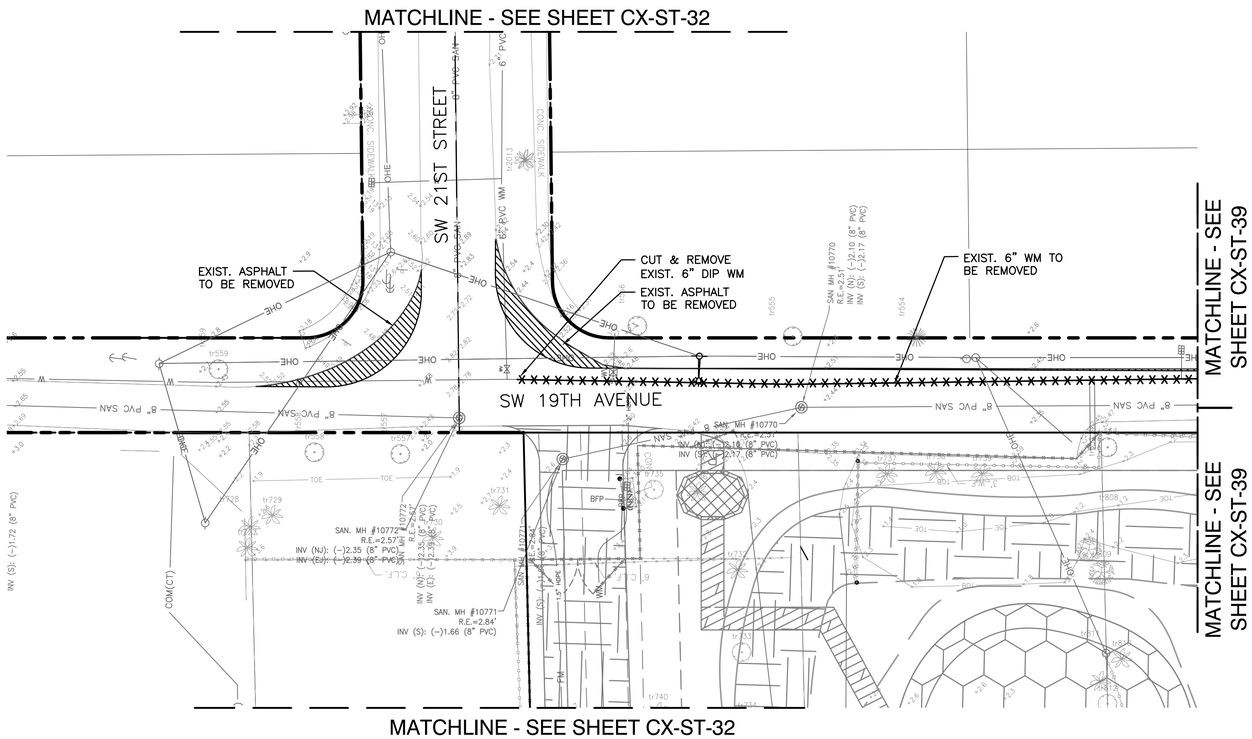

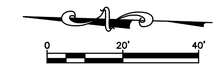

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ENGINEER: PATRICK J. GIBNEY
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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

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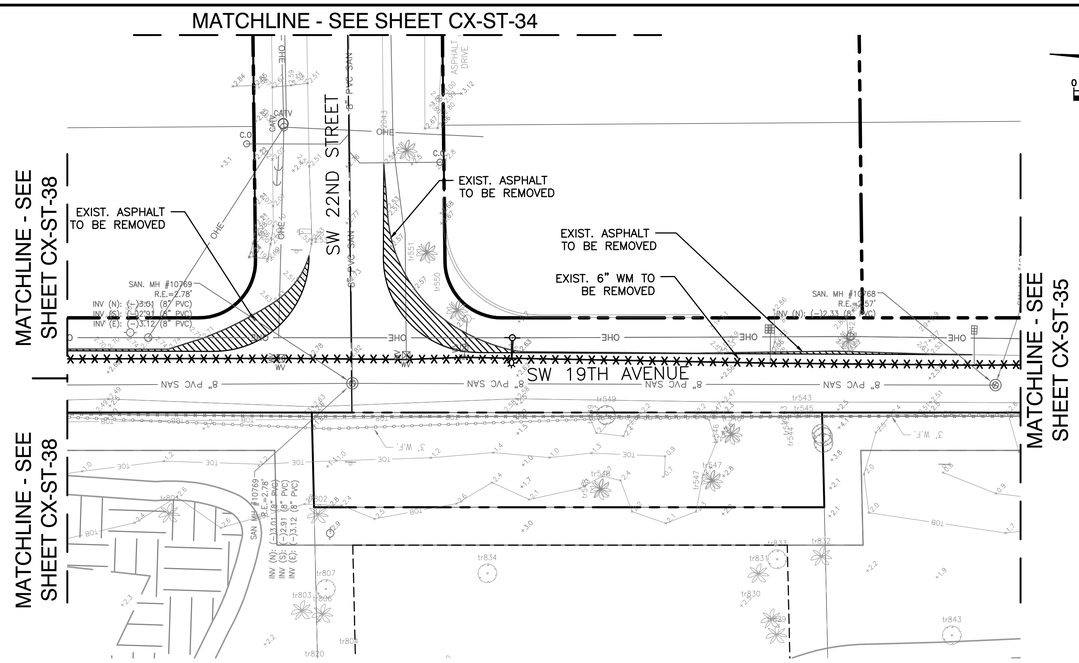
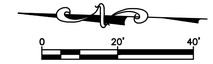
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NO.
CX-ST-38
TOTAL: 255
CAD FILE: 11868-CX-ST-B
DRAWING FILE NO. 4-142-42





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CX-ST-39
TOTAL: 255
CAD FILE: 11868-CX-ST-B
DRAWING FILE NO. 4-142-42

9/20/2022 9:05 AM
PLOT DATE: 8/26/2021 12:26 PM BY: MRODRIGUEZ
XREFs= .\11868SURV,.\11868topo,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFNOTES,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFUTIL,.\11868TOP,.\Eng\11868,2016-16-0042-001-01 FORT LAUDERDALE STORMWATER MASTER 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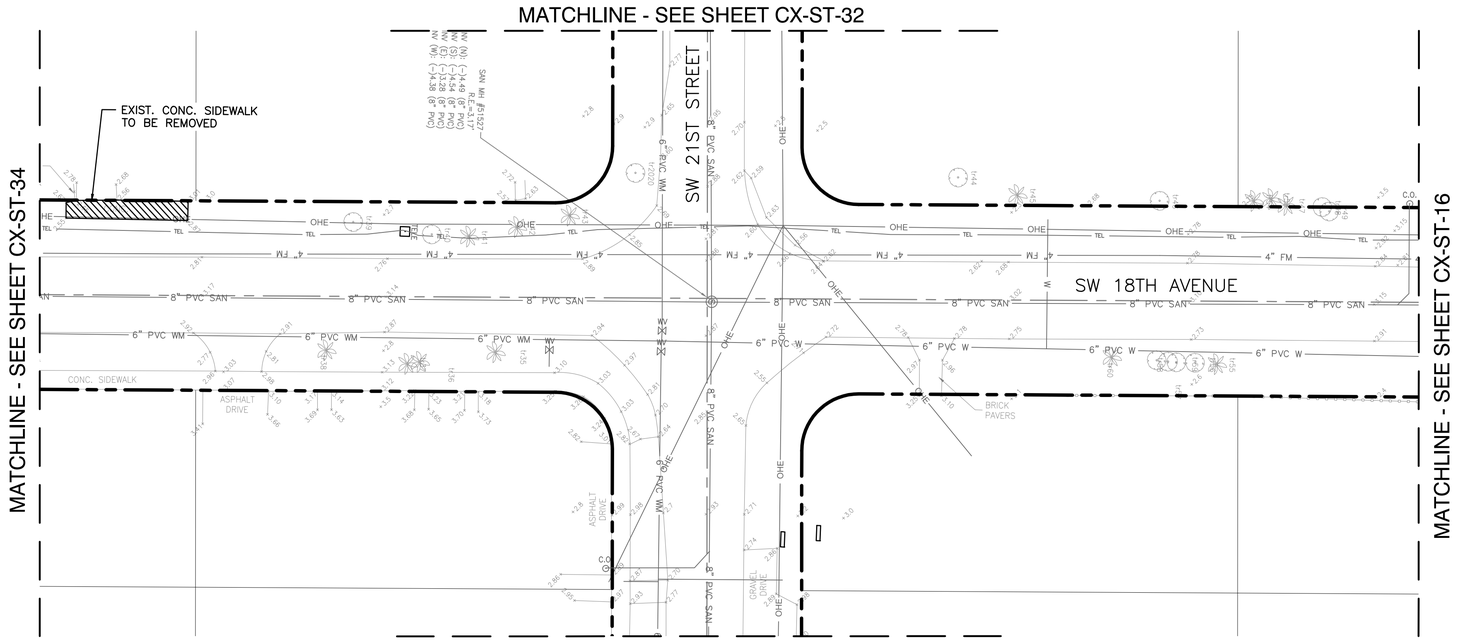

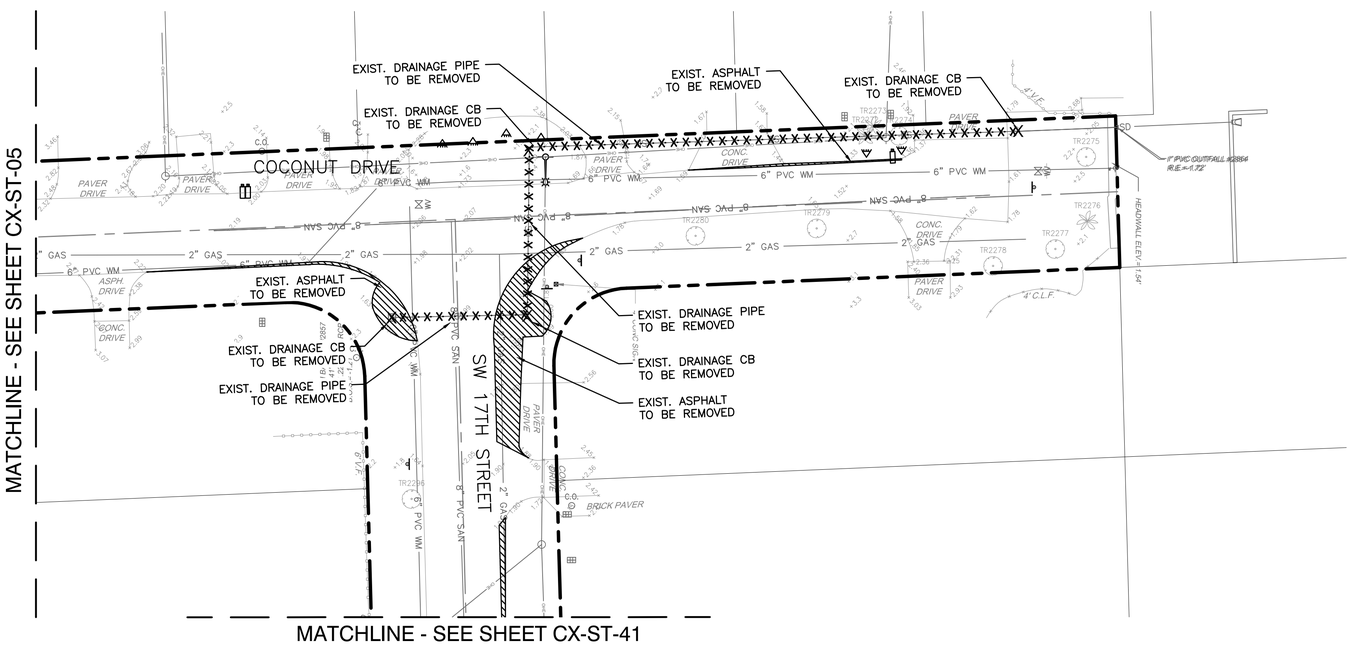

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HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

CRAVEN • THOMPSON AND ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
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FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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KEY MAP

N.T.S.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).
3. CONTRACTOR SHALL COORDINATE ALL ADJACENT TREE REMOVAL/RELOCATION WITH PROPERTY OWNER. AT OWNER'S DISCRETION CONTRACTOR SHALL MAKE TREE AVAILABLE OR PLAN/RELOCATE AT HOMEOWNER'S REQUEST WITH SIGNED WAIVER TO PLANT WITHIN PRIVATE PROPERTY.

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CONSTRUCTION SET

ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY:	DATE:
XXX	01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

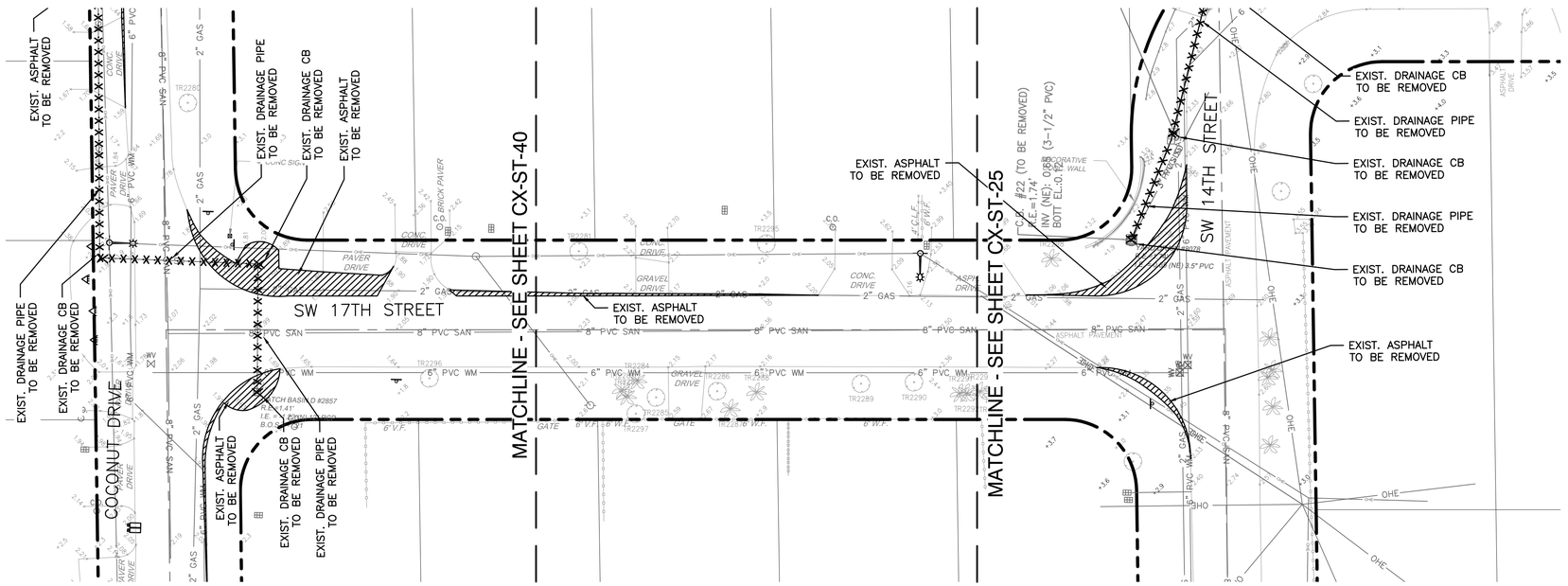
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

SHEET NO.
CX-ST-40

TOTAL: 255

CAD FILE: 11868-CX-ST-B

DRAWING FILE NO. 4-142-42



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HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL.: (954) 739-6400
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FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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KEY MAP
N.T.S.

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NOTES:

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DRAWN BY: XXX	DATE: 01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

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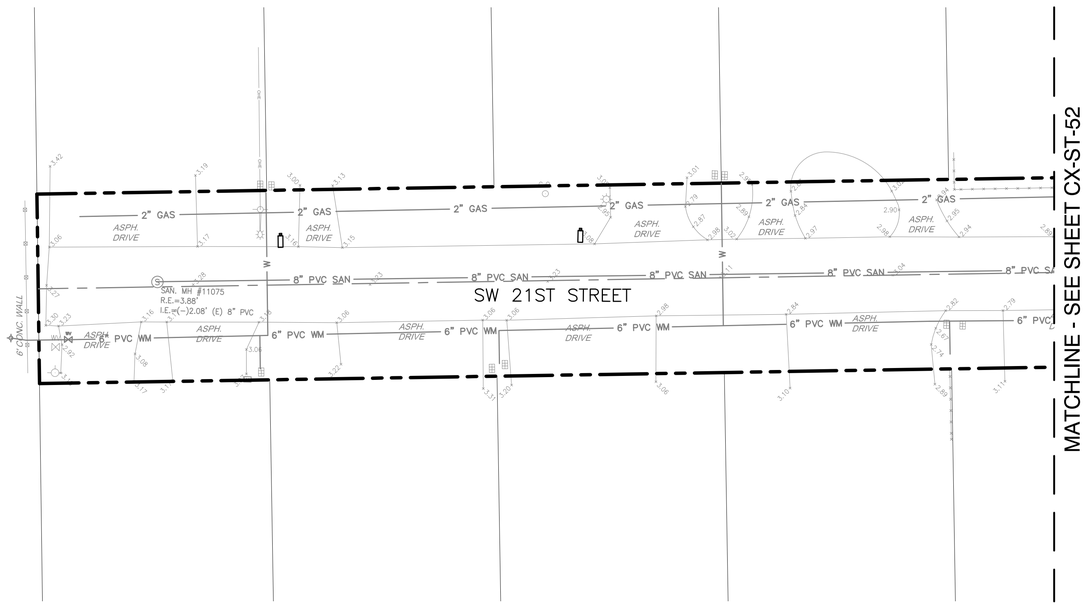
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

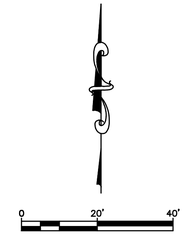
REVISIONS

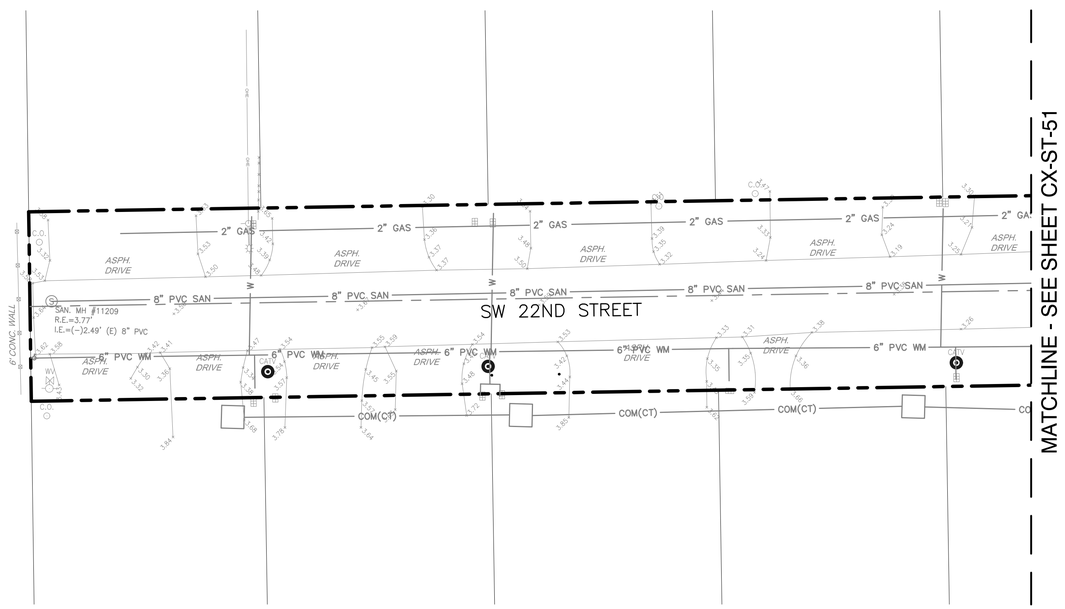
NO.	DATE	BY	CHK'D	DESCRIPTION

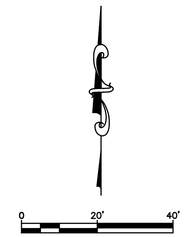
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NO.
CX-ST-41
TOTAL: 255
CAD FILE: 11868-CX-ST-B
DRAWING FILE NO. 4-142-42









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DRAWN BY:	DATE:
XXX	01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

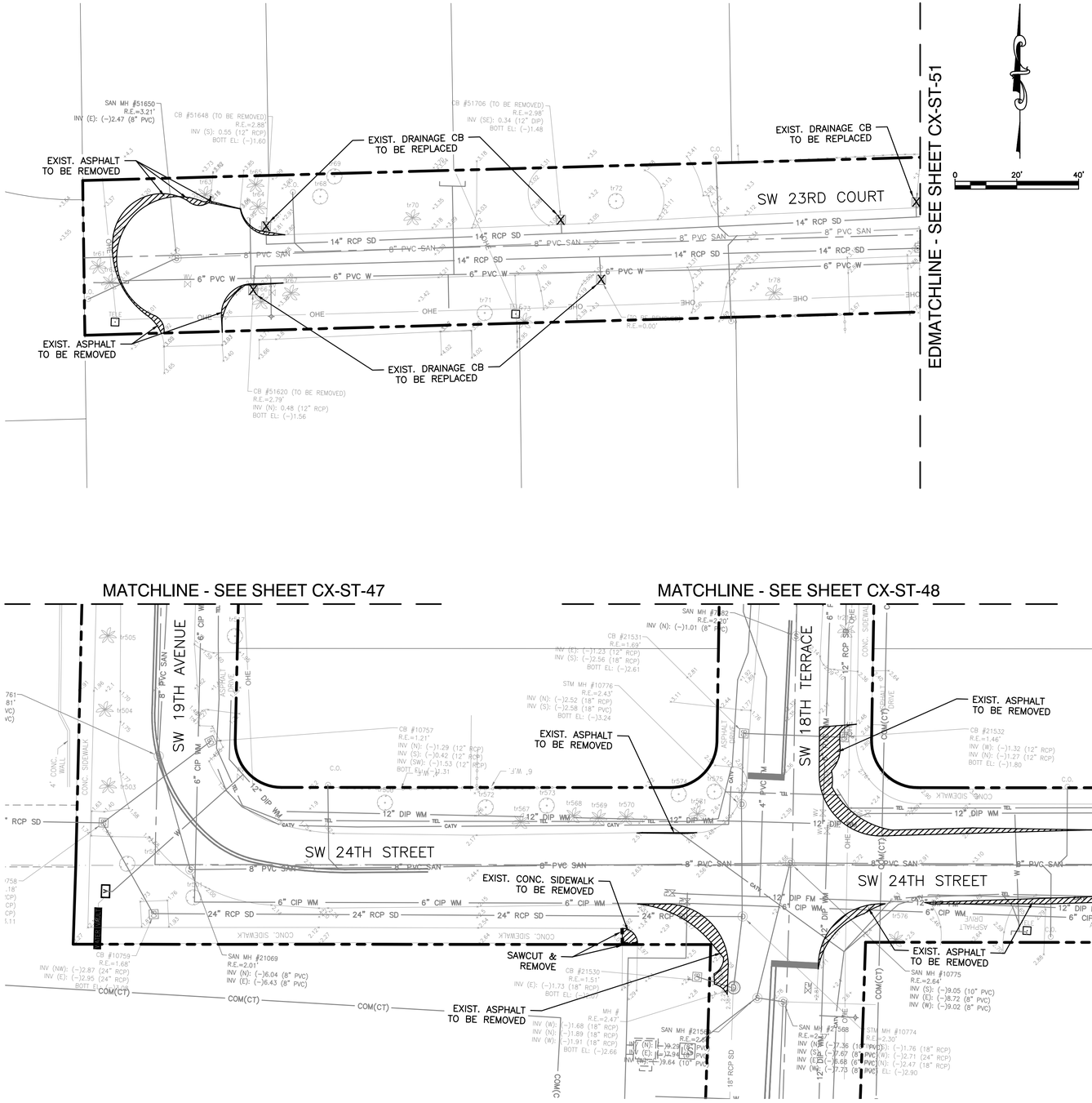
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

SHEET NO.
CX-ST-42
TOTAL: 255
CAD FILE: 11868-CX-ST-C
DRAWING FILE NO. 4-142-42



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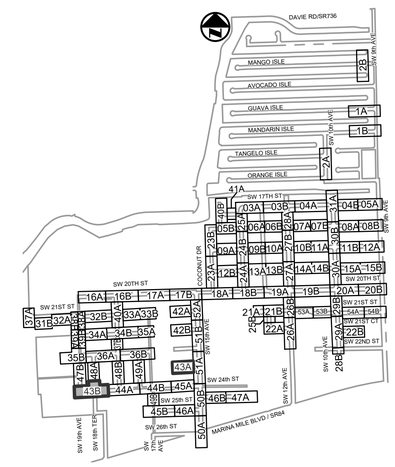

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FAX: 954-987-2949

DRAWN BY:	DATE:
XXX	01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

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PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

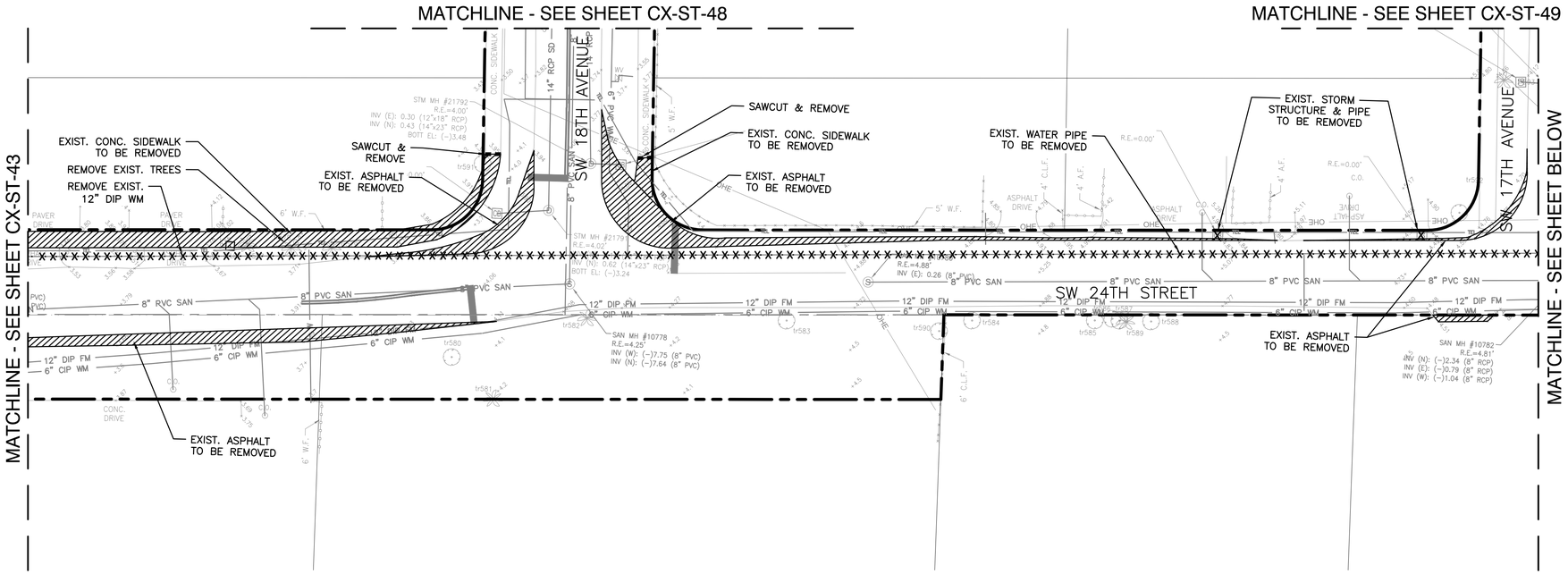
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

SHEET NO.
CX-ST-43

TOTAL: 255

CAD FILE: 11868-CX-ST-C

DRAWING FILE NO. 4-142-42



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Certificate of Authorization No: 2771

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FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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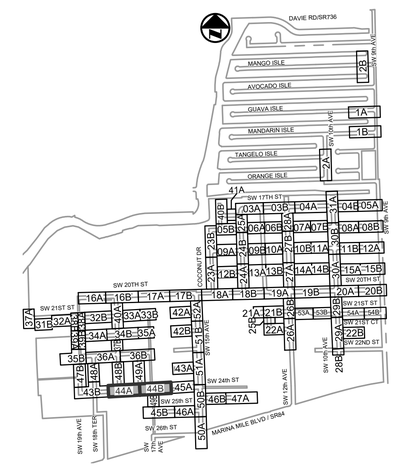

KEY MAP
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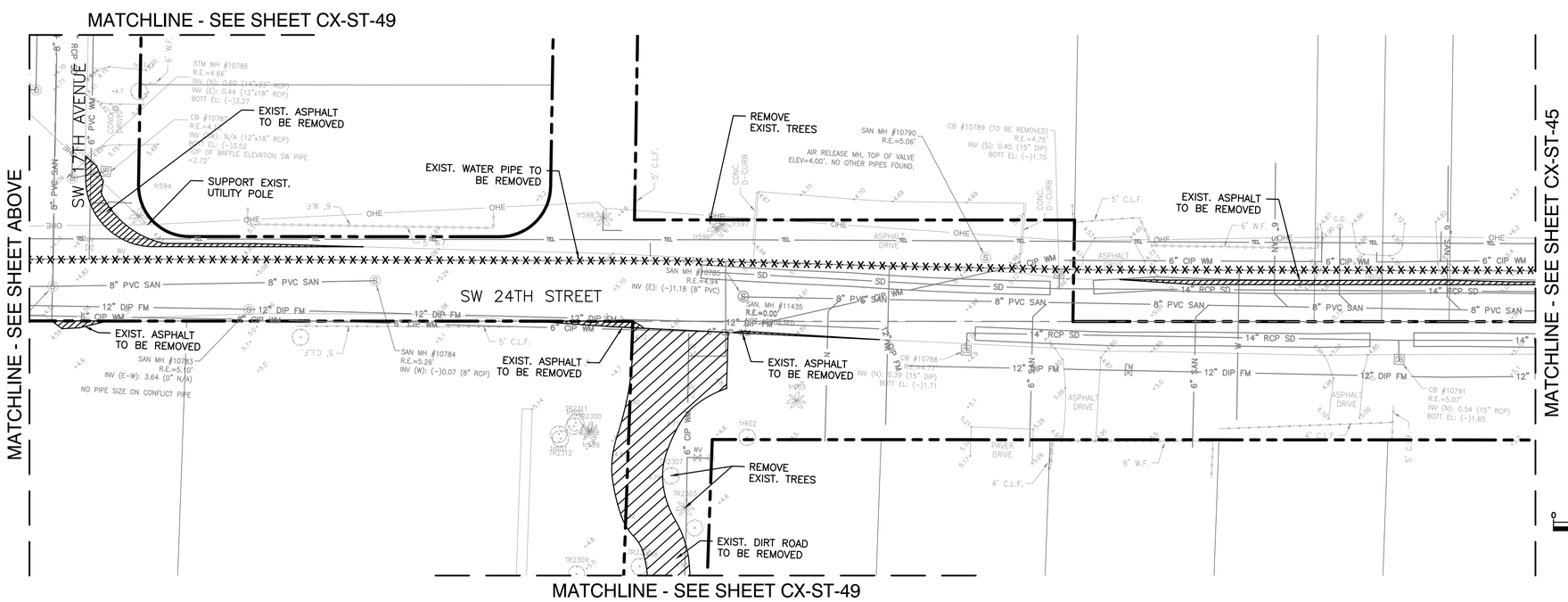

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ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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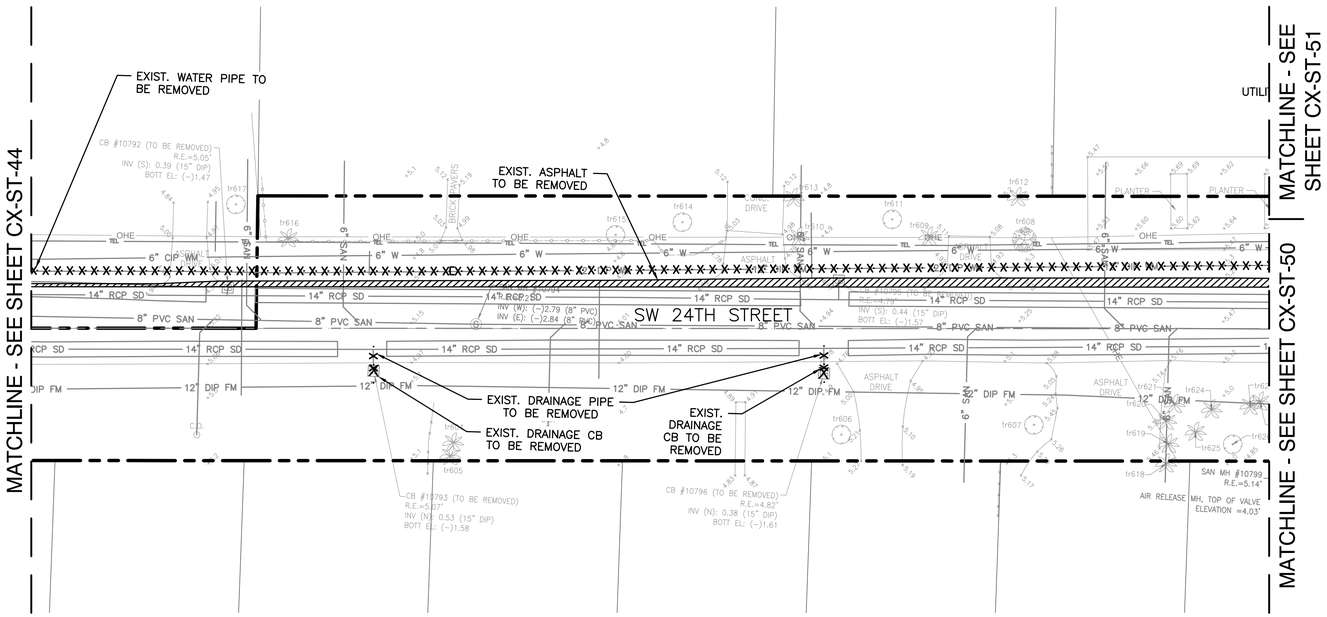
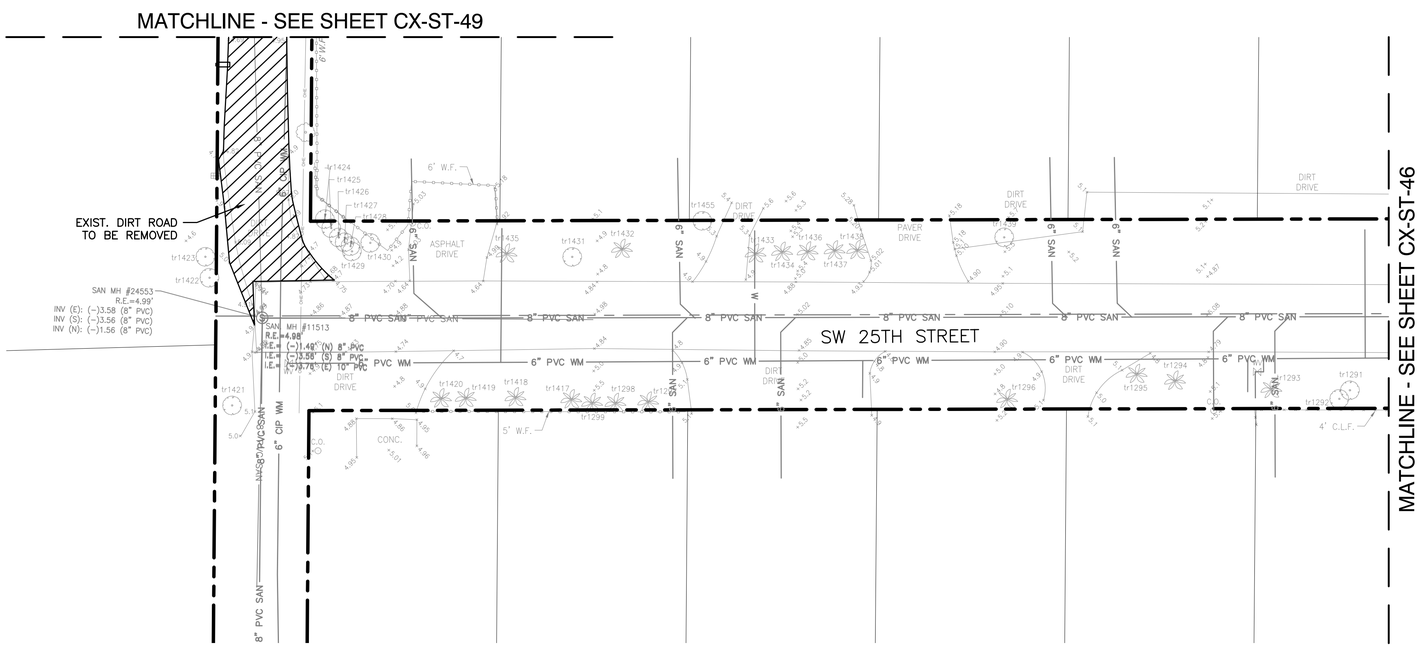
8/26/2021

CONSTRUCTION SET

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NO.
CX-ST-44
TOTAL: 255
CAD FILE: 11868-CX-ST-C
DRAWING FILE NO. 4-142-42





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4000 HOLLYWOOD BLVD, SUITE 750N
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Certificate of Authorization No: 2771

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FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NO.
CX-ST-45
TOTAL: 255
CAD FILE: 11868-CX-ST-C
DRAWING FILE NO. 4-142-42

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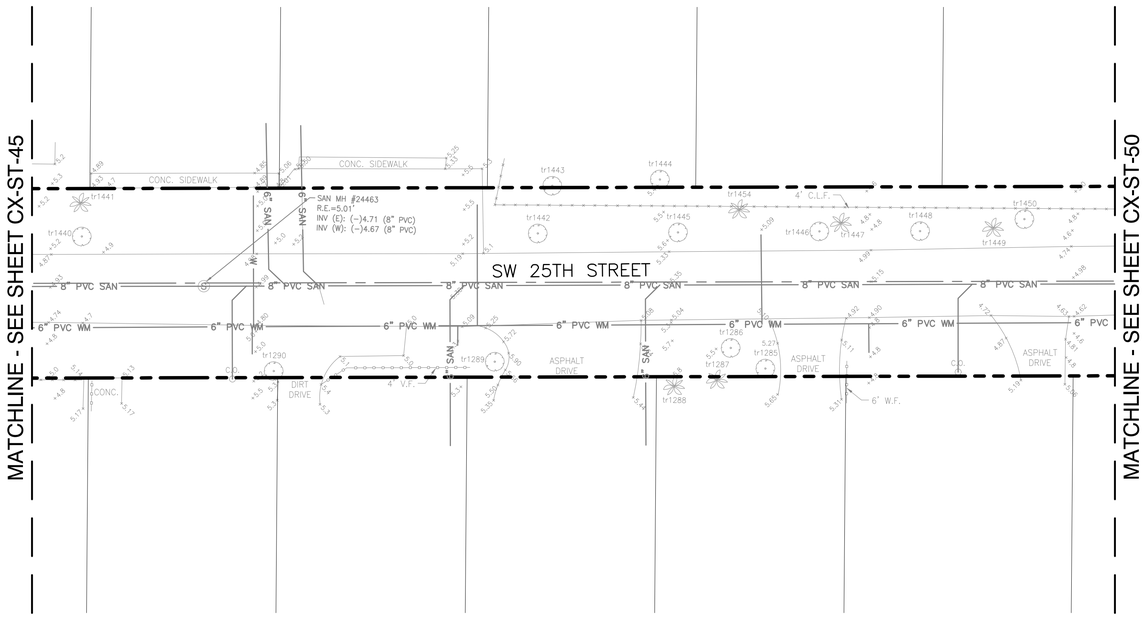

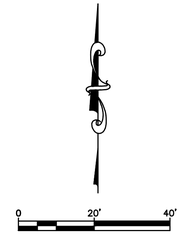

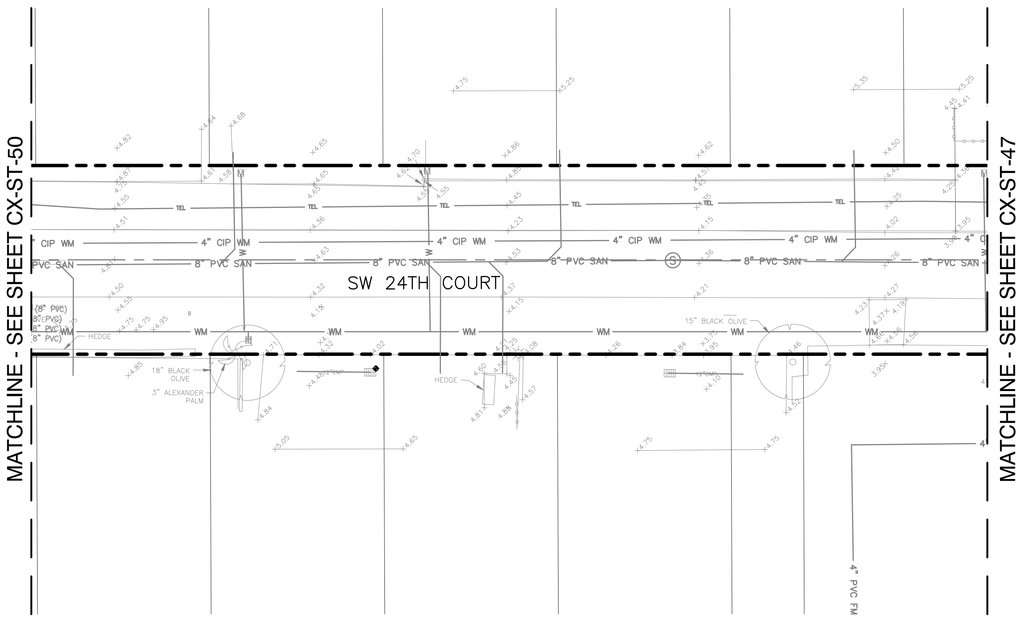

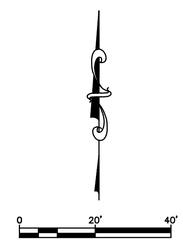

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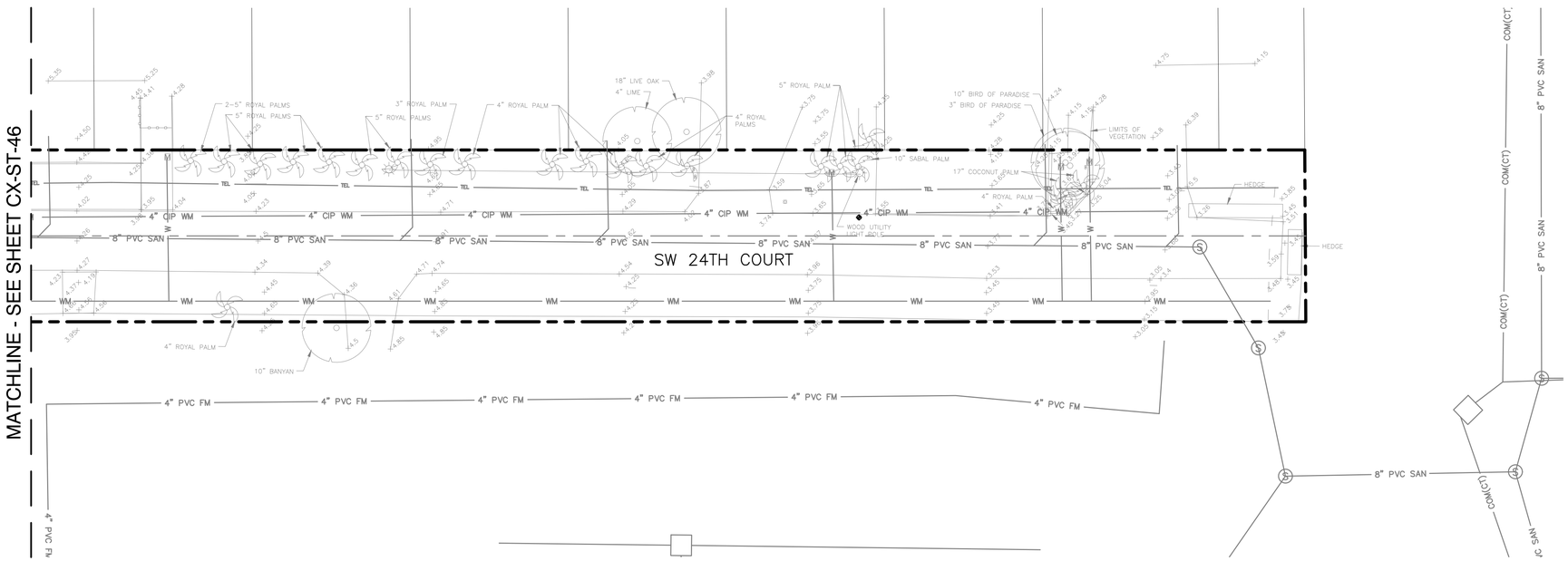
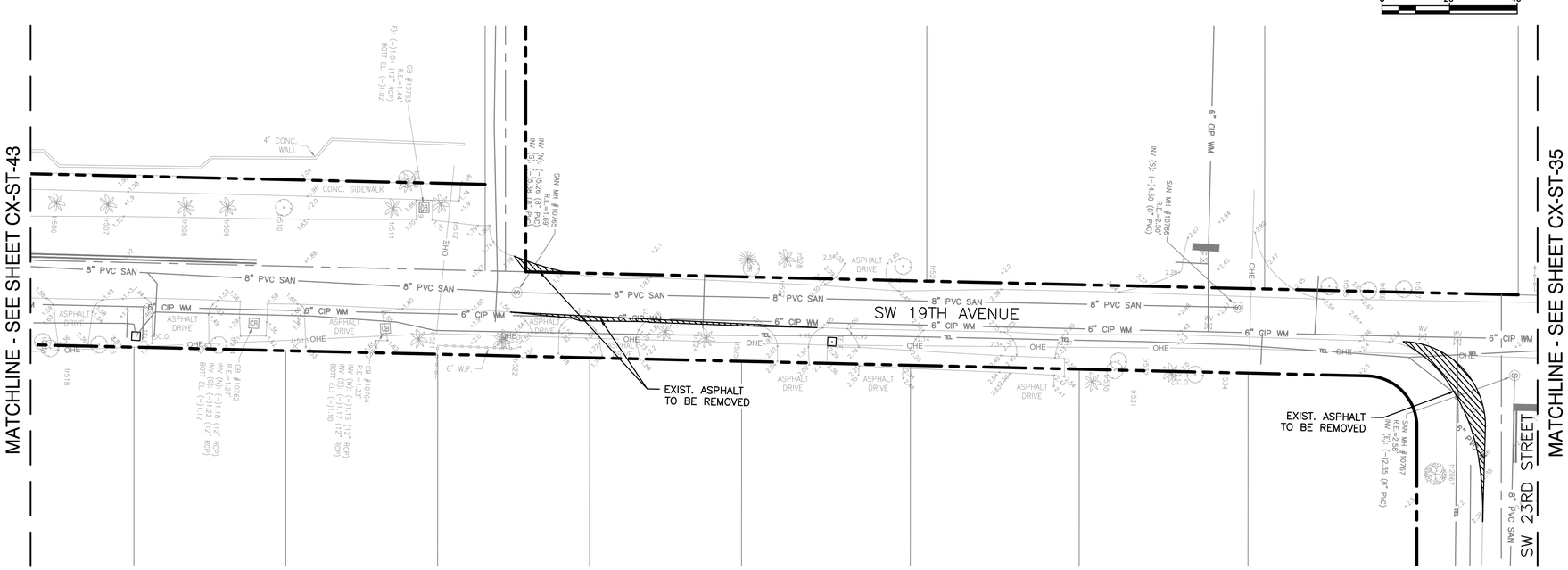
EXISTING CONDITIONS &
DEMOLITION PLAN

SHEET NO.
CX-ST-46
TOTAL: 255
CAD FILE: 11868-CX-ST-C
DRAWING FILE NO. 4-142-42





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Certificate of Authorization No: 2771

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FAX: (954) 739-6409 TEL.: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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KEY MAP
N.T.S.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

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ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX | DATE: 01/07/2019
DESIGNED BY: XXX | SCALE: 1"=20'
CHECKED BY: XXX | FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

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CONSTRUCTION SET

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

SHEET NO.
CX-ST-47
TOTAL: 255
CAD FILE: 11868-CX-ST-C
DRAWING FILE NO. 4-142-42

9/20/2022 9:05 AM
PLOT DATE: 8/26/2021 12:35 PM BY: MRODRIGUEZ
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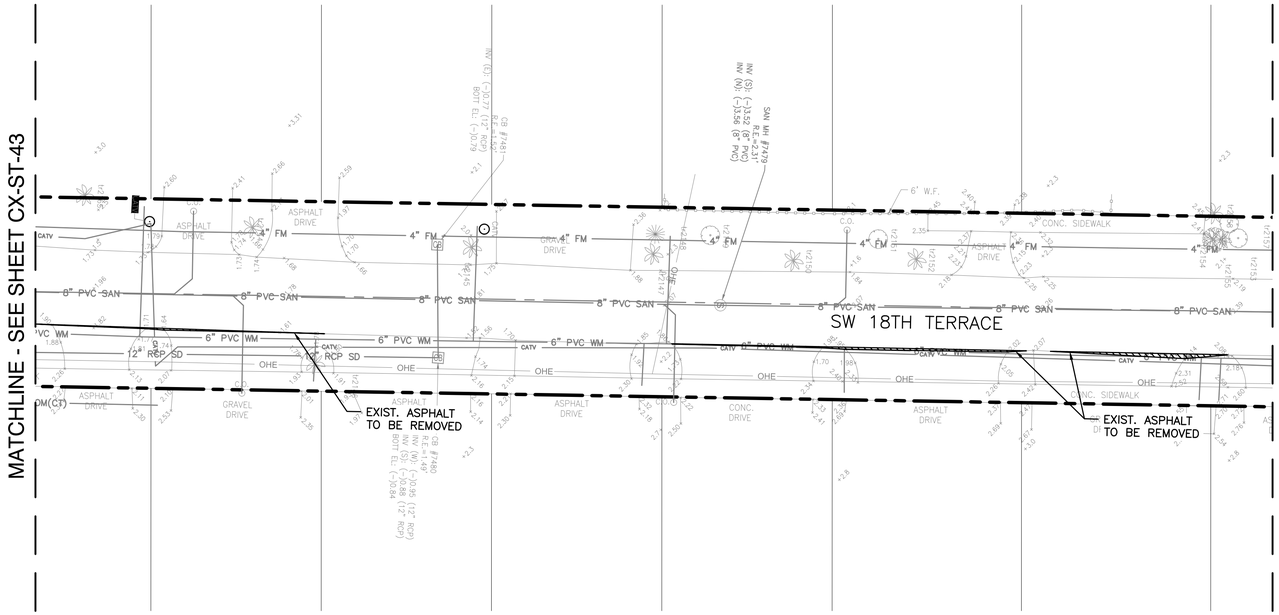

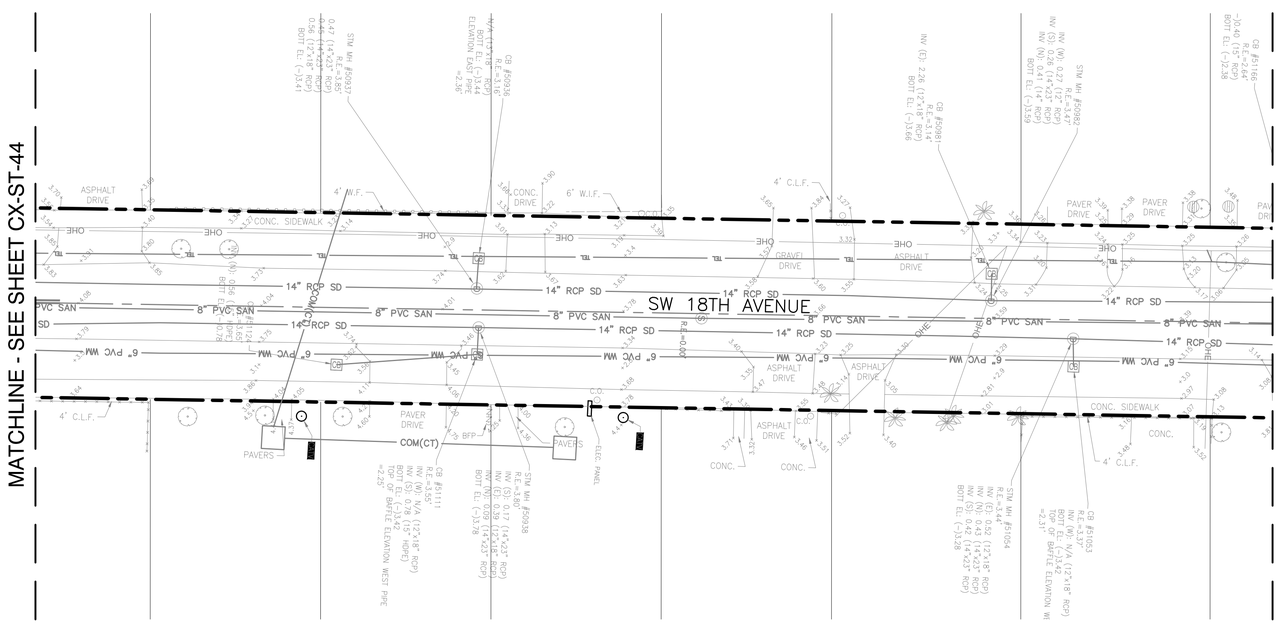

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HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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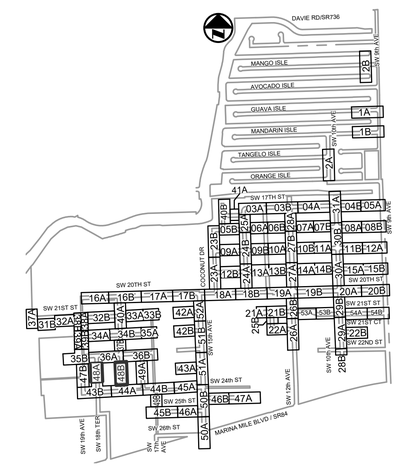

KEY MAP
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CONSTRUCTION SET

ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX	DATE: 01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

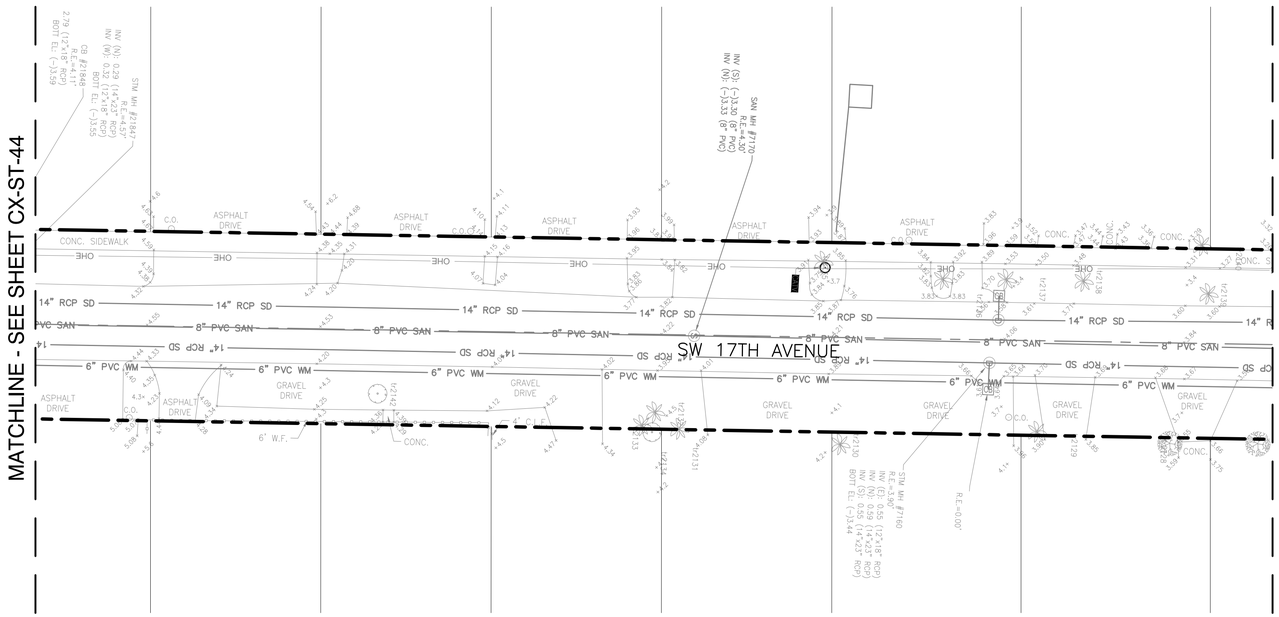
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

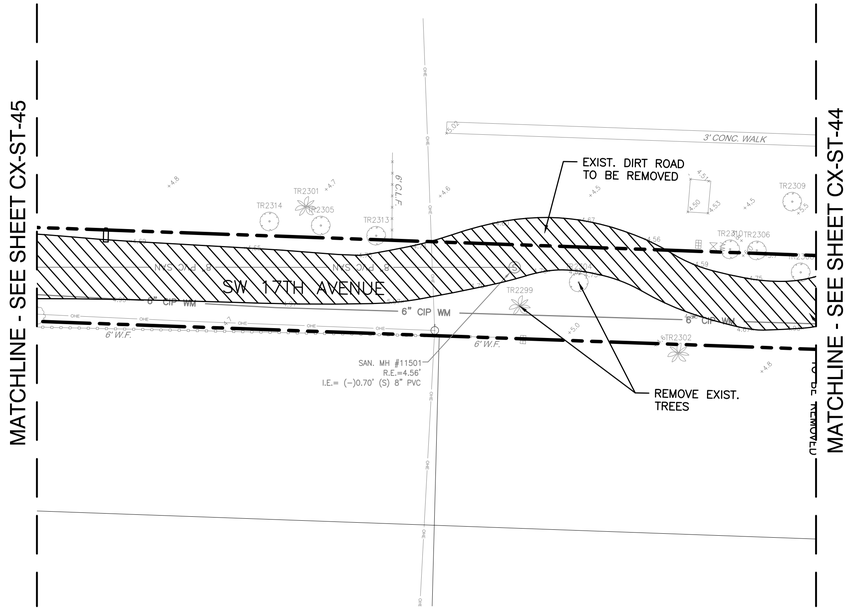
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

SHEET NO.
CX-ST-48
TOTAL: 255
CAD FILE: 11868-CX-ST-C
DRAWING FILE NO. 4-142-42





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4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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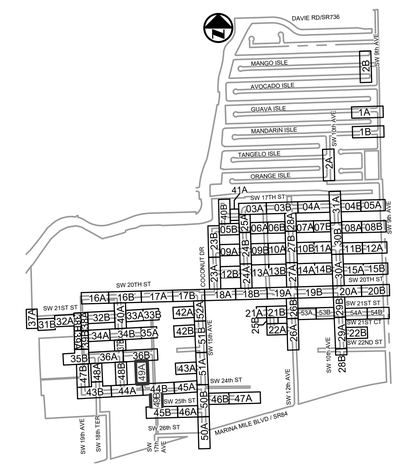

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REG. No: 49428
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TEL: 954-987-0066
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DRAWN BY:	DATE:
XXX	01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

CITY OF FORT LAUDERDALE
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ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

SHEET NO.
CX-ST-49
TOTAL: 255
CAD FILE: 11868-CX-ST-C
DRAWING FILE NO. 4-142-42

9/20/2022 9:05 AM

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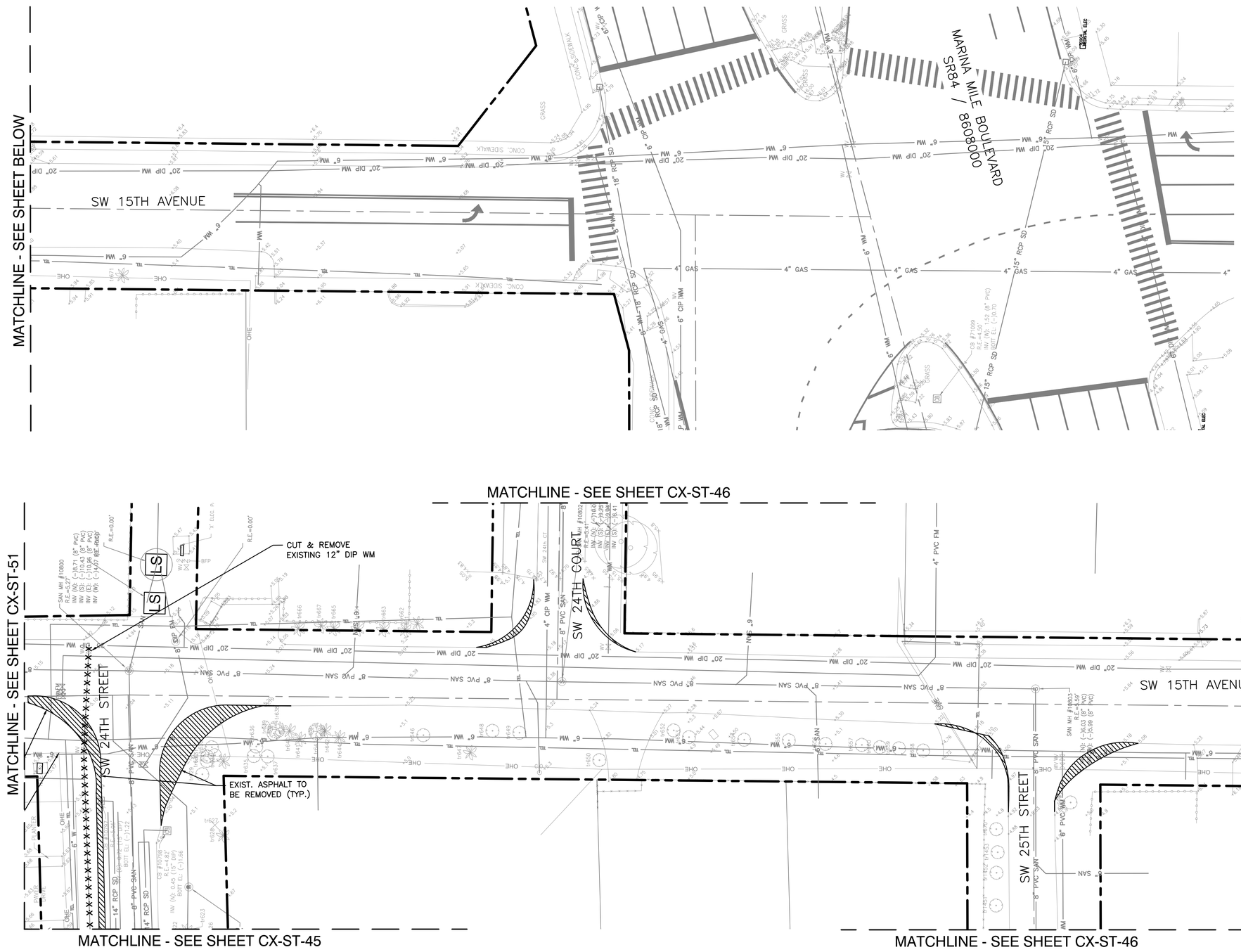

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0 20' 40'

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FAX: 954-987-2949

DRAWN BY: XXX	DATE: 01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY:	FIELD BOOK: XXXX

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ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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NO.	DATE	BY	CHK'D	DESCRIPTION

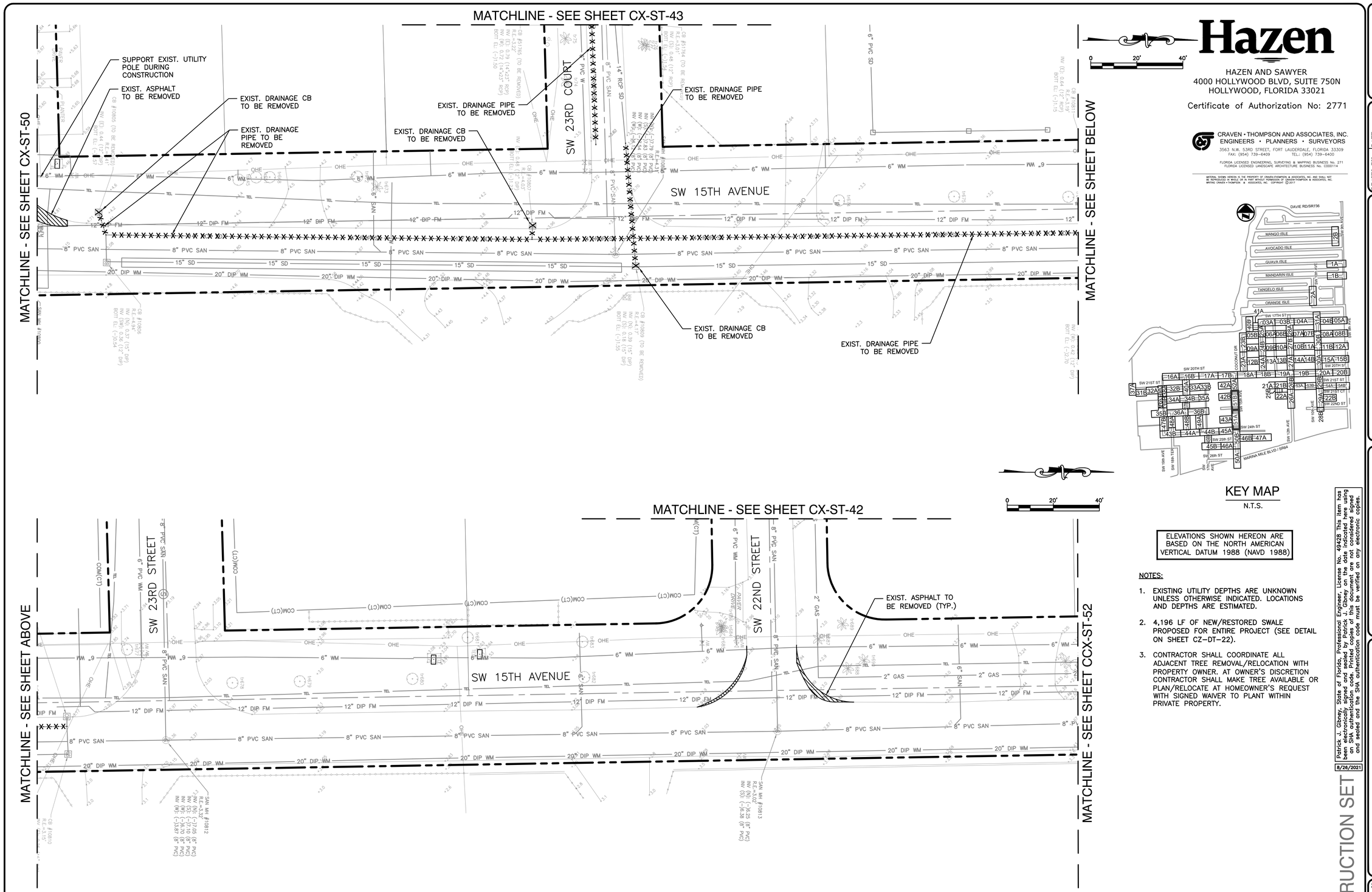
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NO.
CX-ST-50

TOTAL: 255

CAD FILE: 11868-CX-ST-C

DRAWING FILE NO. 4-142-42



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FIELD BOOK: XXXX	

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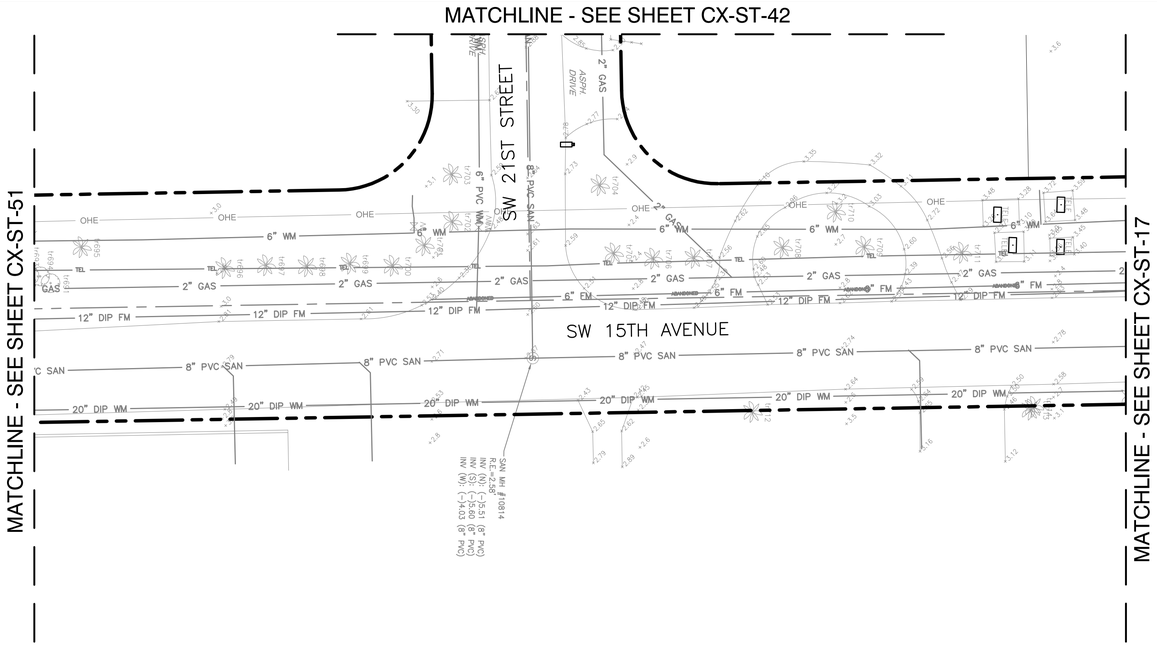
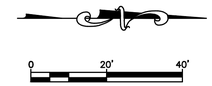
CONSTRUCTION SET

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NO.
CX-ST-51
TOTAL: 255
CAD FILE: 11868-CX-ST-C
DRAWING FILE NO. 4-142-42





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KEY MAP
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FAX: 954-987-2949

DRAWN BY: XXX	DATE: 01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

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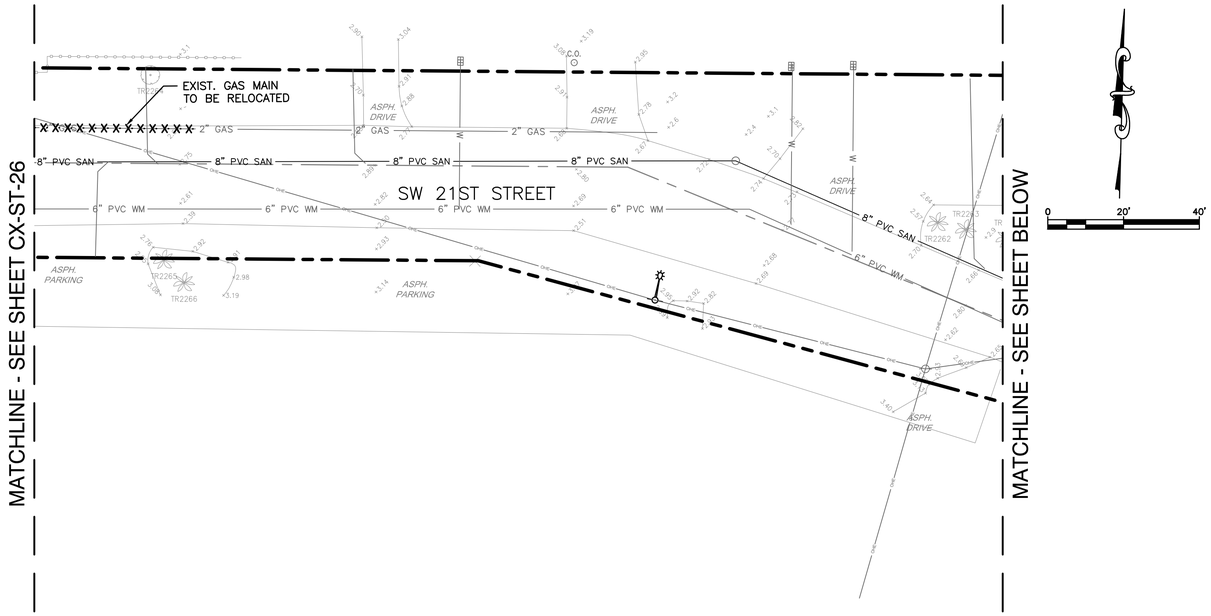
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

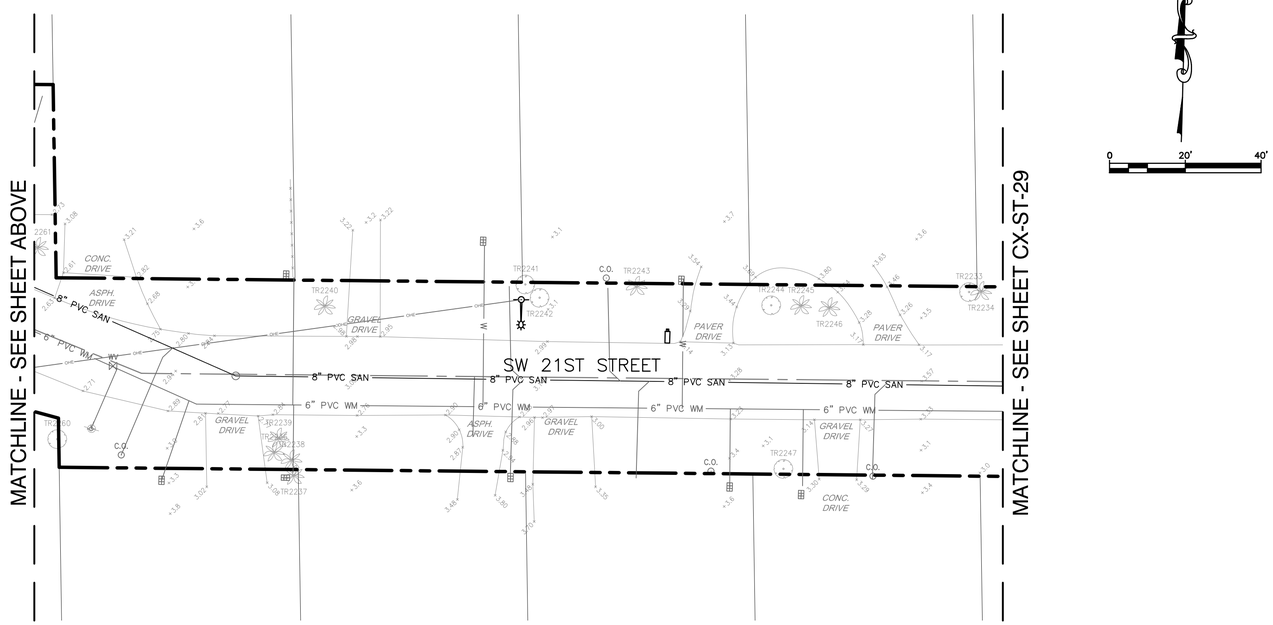
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NO.
CX-ST-52
TOTAL: 255
CAD FILE: 11868-CX-ST-C
DRAWING FILE NO. 4-142-42





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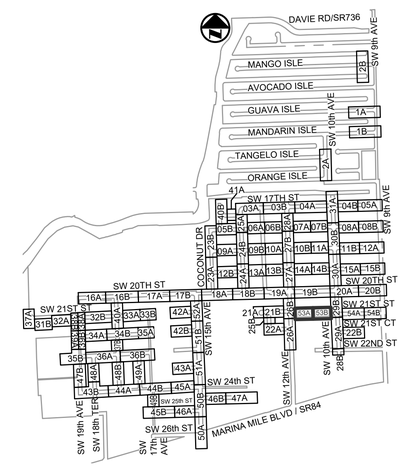

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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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NO.	DATE	BY	CHK'D	DESCRIPTION

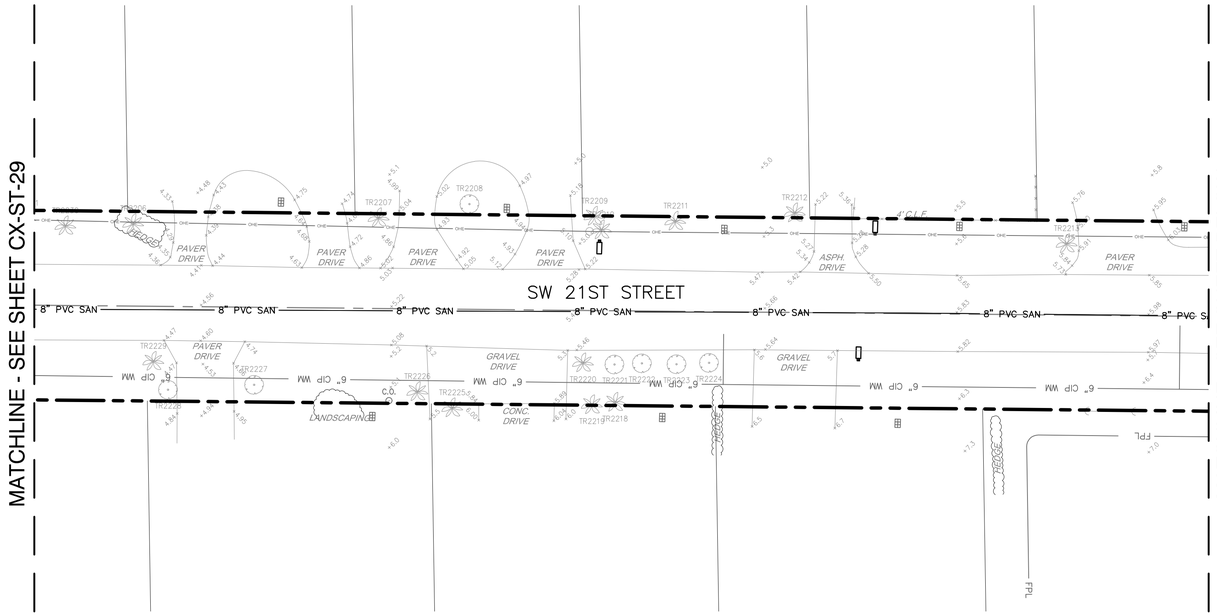
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS & DEMOLITION PLAN

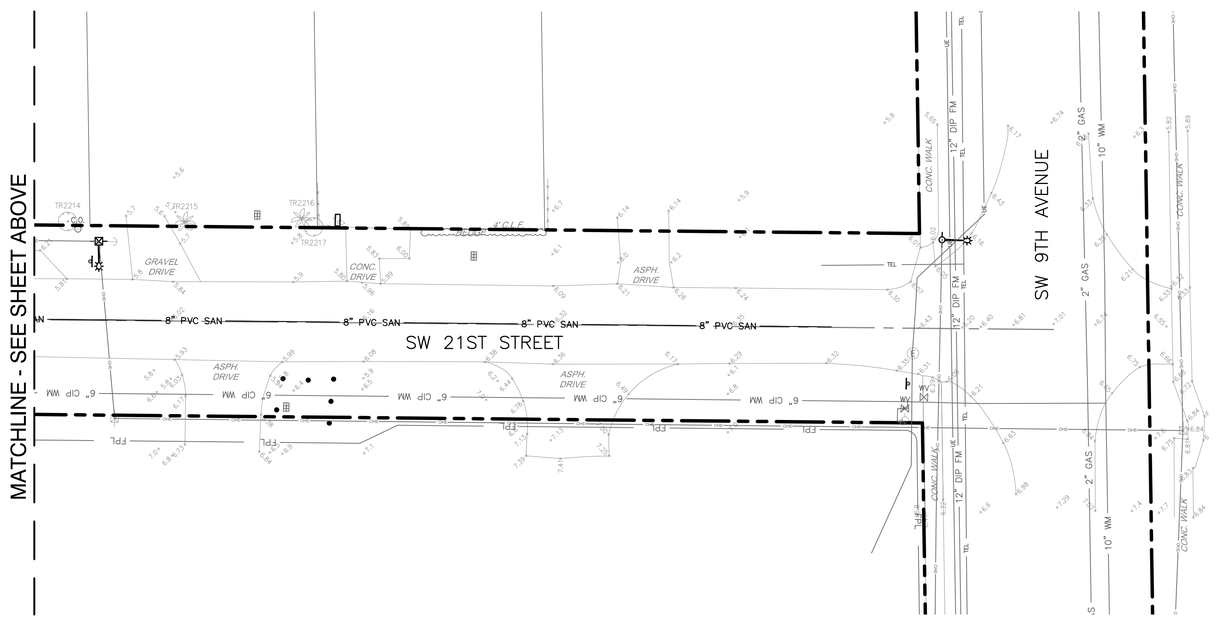
SHEET NO.
CX-ST-53

TOTAL: 255

CAD FILE: 11868-CX-ST-A

DRAWING FILE NO. 4-142-42





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FAX: (954) 739-6409 TEL.: (954) 739-6400
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FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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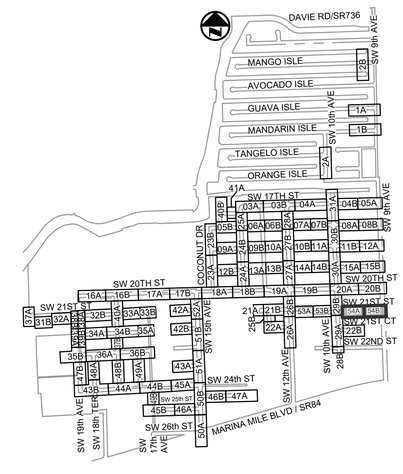

KEY MAP

N.T.S.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).
3. CONTRACTOR SHALL COORDINATE ALL ADJACENT TREE REMOVAL/RELOCATION WITH PROPERTY OWNER. AT OWNER'S DISCRETION CONTRACTOR SHALL MAKE TREE AVAILABLE OR PLAN/RELOCATE AT HOMEOWNER'S REQUEST WITH SIGNED WAIVER TO PLANT WITHIN PRIVATE PROPERTY.

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CONSTRUCTION SET

ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

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CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
EXISTING CONDITIONS &
DEMOLITION PLAN

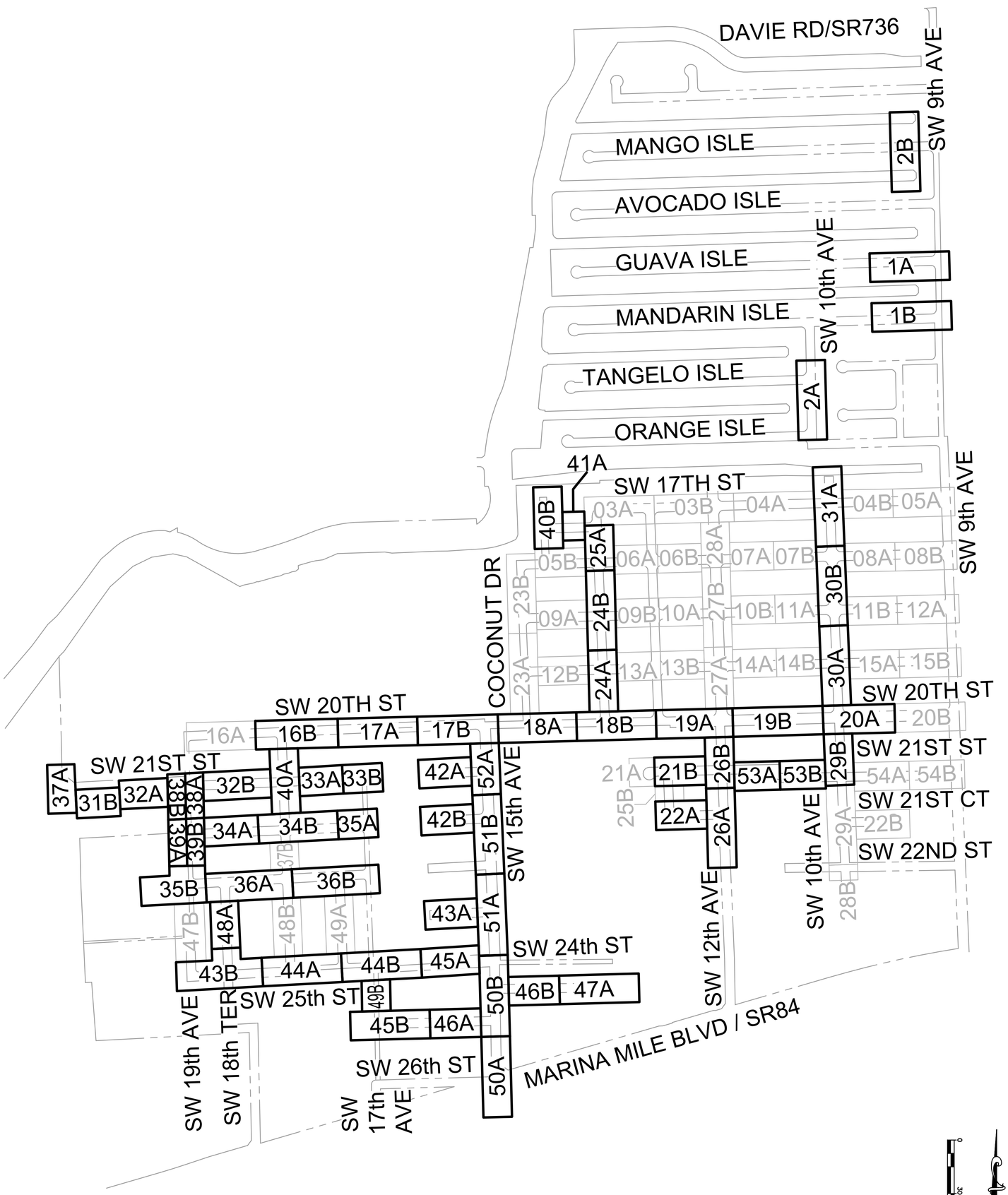
SHEET NO.
CX-ST-54

TOTAL: 255

CAD FILE: 11868-CX-ST-A

DRAWING FILE NO. 4-142-42

PLOT DATE: 8/26/2021 12:43 PM BY: MRODRIGUEZ



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8/26/2021

SHEET NO.
CU-KY-01

TOTAL: 255

CAD FILE: 11868-CU-KY01

DRAWING FILE NO. 4-142-42

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN SITE KEY MAP

REVISIONS

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ENGINEER:
PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021

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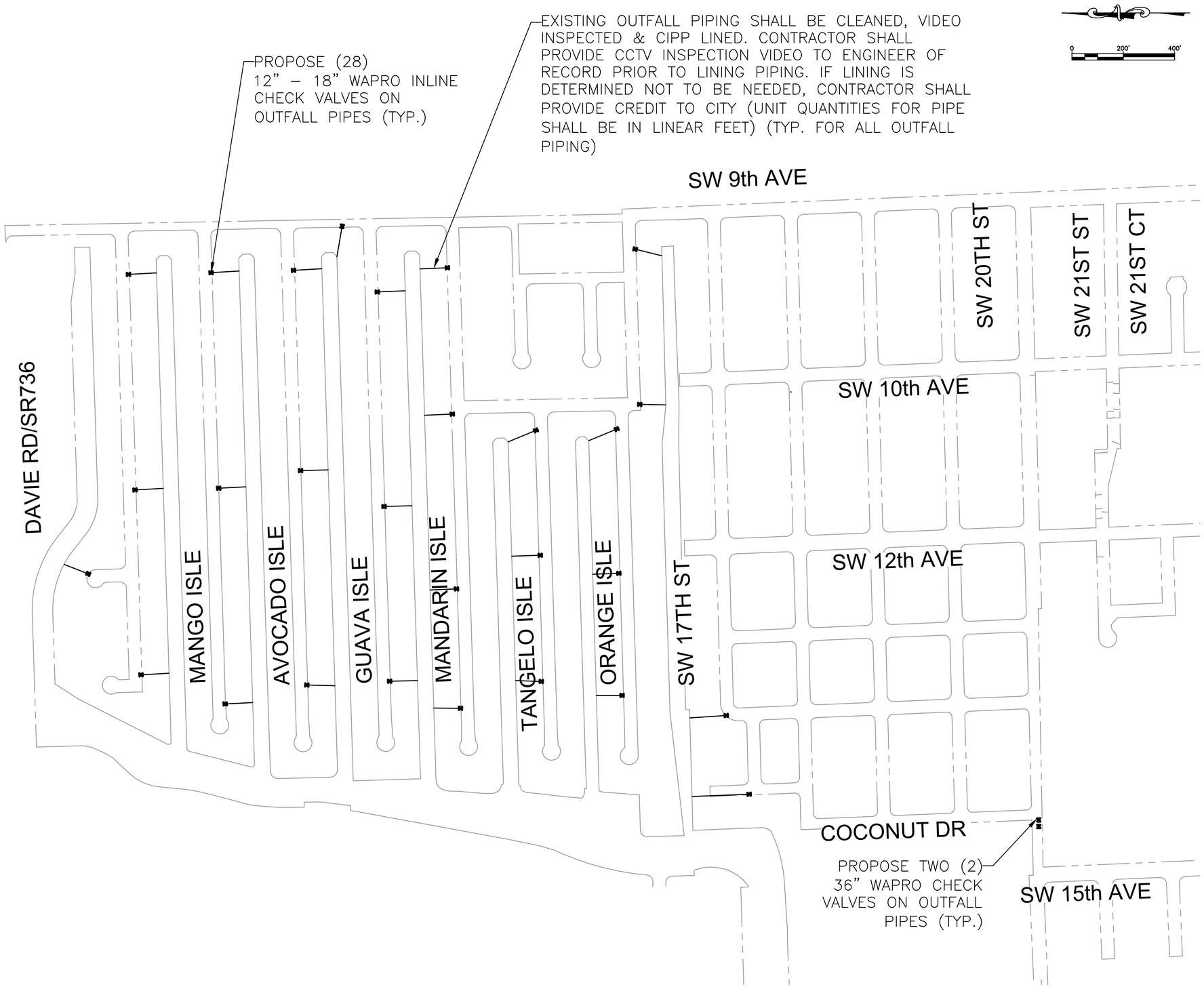
FAX: 954-987-2949

City of Fort Lauderdale

Bid 12712-123



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CONSTRUCTION SET

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
CHECK VALVE & PIPE LINING
OVERALL PLAN

SHEET NO.
CU-CV-01
TOTAL: 255
CAD FILE: 11868-CU-CV01
DRAWING FILE NO. 4-142-42

SUMMARY OF STORMWATER PIPES

Name	Description	Start Structure	Start Invert Elevation	End Structure	End Invert Elevation	Pipe Length
P2	15" RCP	S4	-0.70'	S3	-0.70'	26.77'
P3	18" RCP	S3	-0.90'	S7	-0.90'	270.49'
P4	18" RCP	S7	-0.75'	S9	-0.75'	243.93'
P5	18" RCP	S9	-1.13'		-1.13'	82.94'
P6	15" RCP	S8	-0.75'	S9	-0.75'	29.68'
P7	15" RCP	S6	-0.60'	S7	-0.60'	26.12'
P32	24" RCP	S156	-3.30'	S317	-3.30'	160.22'
P33	24" RCP	S317	-3.30'	S157	-3.30'	126.03'
P35	24" RCP	S157	-3.95'	S159	-3.95'	177.64'
P36	24" RCP	S159	-2.21'	S160	-2.21'	17.06'
P51	66" RCP	S66	-5.37'	S392	-5.37'	155.76'
P51 (2) (1)	66" RCP	S392	-6.00'	S418	-6.00'	174.04'
P52	66" RCP	S311	-5.54'	S52	-5.54'	29.30'
P53	66" RCP	S52	-8.00'	S51	-8.00'	161.26'
P54	66" RCP	S51	-8.00'	S49	-8.00'	161.31'
P57	66" RCP	S49	-8.00'	S47	-8.00'	193.44'
P58	66" RCP	S47	-7.00'	S46	-7.00'	195.77'
P59	66" RCP	S46	-7.00'	S45	-7.00'	101.74'
P60	66" RCP	S45	-7.50'	S359	-7.50'	275.55'
P60 (1)	66" RCP	S357	-8.00'	S44	-9.00'	161.43'
P60 (2)	66" RCP	S358	-8.00'	S357	-8.00'	134.92'
P60 (3)	66" RCP	S359	-5.50'	S358	-7.00'	79.66'
P61 (1)	66" RCP	S44	-9.00'	S42	-9.00'	269.69'
P62	66" RCP	S42	-8.50'	S324	-8.50'	236.79'
P62 (1)	66" RCP	S324	-8.50'	S171	-8.50'	191.51'
P65 (1)	66" RCP	S171	-8.50'	S320	-8.50'	22.13'
P65 (1) (1) (1)	66" RCP	S321	-7.00'	S72	-7.00'	205.10'
P65 (1) (1) (2)	66" RCP	S320	-10.70'	S321	-10.70'	72.26'
P66	66" RCP	S72	-7.00'	S73	-7.00'	213.56'
P68	72" RCP	S73	-6.50'	S75	-6.50'	368.46'
P69	72" RCP	S75	-6.50'	S378	-6.50'	43.65'
P73	18" RCP	S85	-3.02'	S86	-3.02'	204.44'
P74	24" RCP	S86	-3.37'	S89	-3.37'	205.61'
P76	24" RCP	S89	-3.79'	S103	-3.79'	59.70'
P85	24" RCP	S104	-5.11'	S397	-5.11'	22.07'
P85 (2)	24" RCP	S397	-5.11'	S105	-5.11'	8.84'
P86	24" RCP	S105	-3.50'	S106	-3.50'	301.75'
P87	24" RCP	S106	-3.72'	S107	-3.72'	189.39'
P88	24" RCP	S107	-4.34'	S108	-4.34'	120.31'
P89	24" RCP	S108	-4.25'	S112	-4.25'	45.46'
P90	24" RCP	S112	-4.22'	S110	-4.22'	159.32'
P91	24" DIP	S111	-3.60'	S110	-3.60'	67.94'
P92	36" RCP	S110	-5.27'	S398	-5.27'	143.67'
P92 (2)	36" RCP	S352	-2.50'	S454	-3.00'	14.45'
P92 (2) (1)	36" RCP	S454	-6.00'	S441	-6.37'	12.50'
P92 (4)	36" RCP	S398	-2.50'	S352	-2.50'	22.27'
P95	18" RCP	S202	-1.20'	S112	-1.20'	13.37'
P96	15" RCP	S119	-2.00'	S116	-2.00'	16.98'
P97	18" RCP	S120	-4.00'	S116	-4.00'	22.80'
P98	24" RCP	S312	-1.77'	S374	-1.77'	185.01'
P98 (1)	24" RCP	S374	-2.00'	S122	-2.00'	44.20'
P99	24" RCP	S122	-2.00'	S137	-2.00'	205.99'
P99 (1)	24" RCP	S137	-2.00'	S123	-2.00'	55.46'
P100	18" RCP	S130	-3.59'	S111	-3.59'	21.93'
P101	24" RCP	S116	-2.05'	S111	-2.05'	177.48'
P102	24" RCP	S127	-3.67'	S316	-3.67'	191.00'
P103	24" RCP	S316	-2.05'	S116	-2.05'	43.05'
P104	18" RCP	S129	-3.78'	S316	-3.78'	22.04'
P105	18" RCP	S126	-3.50'	S127	-4.00'	20.31'
P106	24" RCP	S128	-2.43'	S127	-2.43'	87.86'
P107	18" RCP	S124	-3.83'	S128	-3.83'	20.45'
P108	24" RCP	S123	-3.27'	S128	-3.27'	201.35'
P109	24" RCP	S125	-3.50'	S469	-3.50'	23.40'
P109 (1)	24" RCP	S469	-4.00'	S123	-4.00'	23.64'
P110	18" RCP	S135	-0.75'	S136	-0.75'	12.90'
P111	18" RCP	S136	-2.65'	S122	-2.65'	41.48'
P112	19"X30" ELLIPTICAL RCP (24" EQV.)	S138	-1.75'	S140	-3.00'	48.13'
P113	15" RCP	S139	-2.40'	S429	-2.02'	29.68'
P113 (1)	24" RCP	S429	-3.25'	S140	-3.50'	14.12'
P114	24" RCP	S429	-3.25'	S141	-3.25'	228.11'

Name	Description	Start Structure	Start Invert Elevation	End Structure	End Invert Elevation	Pipe Length
P118	18" RCP	S144	-3.00'	S150	-3.20'	210.20'
P120	18" RCP	S150	-3.00'	S148	-3.00'	197.51'
P121	18" RCP	S148	-3.05'	S141	-3.05'	31.65'
P122	18" RCP	S147	-5.49'	S148	-5.49'	30.15'
P123	18" RCP	S145	-0.81'	S150	-0.81'	32.48'
P124	19"X30" ELLIPTICAL RCP (24" EQV.)	S141	-2.75'	S408	-3.25'	38.77'
P124 (1)	24" RCP	S408	-3.50'	S407	-4.00'	305.50'
P125	24" RCP	S407	-4.00'	S402	-4.50'	173.21'
P126 (1)	24" RCP	S333	-3.50'	S322	-3.50'	244.54'
P127 (1)	24" RCP	S322	-1.50'	S155	-1.50'	246.37'
P129	24" RCP	S160	-3.81'	S155	-3.81'	33.52'
P139	15" RCP	S297	-2.58'	S317	-2.58'	10.43'
P140	15" RCP	S184	-2.25'	S183	-2.25'	30.20'
P141	15" RCP	S183	-2.25'	S180	-2.25'	85.87'
P143	18" RCP	S176	-2.75'	S156	-2.75'	60.12'
P144	18" RCP	S186	-0.96'	S176	-0.96'	10.23'
P147	18" RCP	S188	-2.25'	S156	-2.25'	18.78'
P148	18" RCP	S190	-0.75'	S189	-0.75'	12.33'
P150	18" RCP	S181	-0.71'	S182	-0.71'	12.94'
P157	15" RCP	S197	-0.87'	S103	-0.87'	12.04'
P158	15" RCP	S198	-3.04'	S103	-3.04'	26.25'
P159	12"X18" ELLIP. RCP (15" EQV.)	S199	-2.87'	S89	-1.55'	26.38'
P161	24" RCP	S218	-3.62'	S217	-3.62'	389.89'
P163	36" RCP	S217	-5.10'	S215	-5.10'	176.48'
P164	36" RCP	S215	-4.75'	S422	-4.75'	77.24'
P164 (1)	36" RCP	S422	-4.75'	S211	-4.75'	11.19'
P165	36" RCP	S211	-5.00'	S212	-5.00'	21.83'
P166	36" RCP	S212	-4.20'	S214	-4.20'	122.58'
P167	36" RCP	S214	-4.05'	S213	-4.05'	146.95'
P168	29"X45" ELLIPTICAL RCP (36" EQV.)	S213	-2.77'	S209	-2.95'	70.76'
P170	36" RCP	S209	-4.00'	S208	-4.00'	250.79'
P171	36" RCP	S208	-2.58'	S206	-2.58'	24.71'
P172	36" RCP	S206	-2.83'	S207	-2.83'	25.48'
P173	36" RCP	S207	-4.25'	S205	-4.25'	146.75'
P174	36" RCP	S205	-4.80'	S393	-4.80'	209.42'
P176	15" RCP	S222	-2.00'	S221	-2.00'	34.79'
P177	18" RCP	S221	-2.30'	S223	-2.30'	28.88'
P178	15" RCP	S219	0.00'	S220	0.00'	31.72'
P179	15" RCP	S220	-0.75'	S223	-0.75'	13.54'
P180	18" RCP	S223	-2.53'	S224	-2.53'	276.00'
P181	18" RCP	S224	-2.55'	S225	-2.55'	29.46'
P182	18" RCP	S225	-3.78'	S218	-3.78'	45.56'
P183	18" RCP	S342	-1.68'	S341	-1.68'	60.08'
P183 (1)	18" RCP	S338	-2.28'	S337	-2.28'	78.62'
P183 (2)	18" RCP	S339	-1.98'	S338	-1.98'	232.28'
P183 (3)	18" RCP	S340	-1.68'	S339	-1.68'	55.97'
P183 (4)	18" RCP	S341	-1.41'	S340	-1.41'	240.25'
P184 (1)	18" RCP	S335	-2.46'	S334	-2.46'	237.55'
P184 (2)	18" RCP	S336	-3.33'	S335	-3.33'	63.25'
P184 (3)	18" RCP	S337	-2.43'	S336	-2.43'	229.06'
P185	24" RCP	S334	-3.75'	S218	-3.75'	21.18'
P186	18" RCP	S228	-1.92'	S496	-3.35'	230.13'
P187	24" RCP	S496	-3.85'	S211	-4.15'	299.70'
P188	18" RCP	S417	-2.57'	S230	-3.23'	132.79'
P190	18" RCP	S412	-2.80'	S228	-2.80'	24.14'
P192	12"X18" ELLIP. RCP (15" EQV.)	S232	-1.50'	S233	-2.35'	36.42'
P193	18" RCP	S233	-2.74'	S375	-2.74'	143.39'
P204	18" RCP	S242	-2.65'	S408	-2.65'	24.58'
P205 (2)	18" RCP	S401	-2.75'	S244	-2.75'	144.70'
P206	18" RCP	S244	-3.28'	S453	-3.28'	50.10'
P206 (1)	18" RCP	S453	-3.28'	S278	-3.28'	20.36'
P208	18" RCP	S278	-3.37'	S280	-3.37'	60.58'
P211	24" RCP	S254	-1.25'	S206	-3.25'	264.64'
P216	18" RCP	S249	-2.10'	S250	-2.10'	38.77'
P217	18" RCP	S248	-2.11'	S249	-2.11'	34.77'
P218	18" RCP	S256	-1.65'	S254	-1.65'	19.63'
P219	18" RCP	S255	-0.75'	S254	-0.75'	16.25'
P221	18" RCP	S250	-1.00'	S405	-1.00'	241.54'
P221 (2) (1)	18" RCP	S402	-1.50'	S255	-2.38'	43.68'
P244	18" RCP	S282	-4.31'	S283	-4.31'	32.90'

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CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHKD	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
SUMMARY OF STORMWATER PIPES

SHEET NO.
CU-SP-01
TOTAL: 255
CAD FILE: 11868-CU-CV01
DRAWING FILE NO. 4-142-42

SUMMARY OF STORMWATER PIPES

Name	Description	Start Structure	Start Invert Elevation	End Structure	End Invert Elevation	Pipe Length
P245	15" RCP	S283	0.42'	S392	0.42'	8.43'
P246	18" RCP	S284	-6.33'	S285	-6.33'	31.82'
P248	18" RCP	S287	-3.49'	S288	-3.49'	57.71'
P249	14"X23" ELLIP. RCP (18" EQV.)	S288	-2.90'	S289	-3.00'	43.26'
P251	18" RCP	S292	-3.76'	S290	-3.76'	31.28'
P257	12"X18" ELLIPTICAL RCP (15" EQV.)	S415	-1.38'	S416	-1.74'	71.63'
P258	15" RCP	S296	-1.50'	S86	-1.50'	10.27'
P260	12"X18" ELLIPTICAL RCP (15" EQV.)	S418	-3.37'	S419	-1.01'	27.73'
P267	24" RCP	S95	-3.87'	S423	-3.74'	145.36'
P268	12"X18" ELLIP. RCP (15" EQV)	S424	-1.83'	S423	-1.83'	24.15'
P269	18" RCP	S307	-1.61'	S95	-1.61'	10.08'
P271	24" RCP	S103	-3.85'	S95	-3.87'	323.91'
P272	15" RCP	S309	-1.75'	S85	-1.75'	22.13'
P273	66" (INSTALLED BY OPEN TRENCH)	S421	-6.68'	S77	-6.71'	228.13'
P274	66" RCP	S66	-4.20'	S315	-4.20'	295.19'
P276 (1)	24" RCP	S322	-1.34'	S323	-2.00'	26.64'
P277	36" RCP	S155	-3.83'	S377	-3.83'	25.71'
P280	72" RCP	S346	-6.00'	S350	-6.00'	102.67'
P284	72" RCP	S350	-6.00'	S379	-6.00'	79.64'
P285	72" RCP	S378	-6.50'	S390	-6.50'	48.44'
P288	24" RCP	S75	0.00'	S361	0.00'	26.27'
P290	15" RCP	S366	-2.00'	S111	-2.00'	17.91'
P312	24" RCP	S312	-3.84'	S403	-3.84'	10.28'
P330	72" RCP	S379	-7.25'	S380	-7.25'	40.61'
P330 (1)	72" RCP	S380	-5.24'		-5.24'	90.27'
P360	15" RCP	S106	-4.50'	S392	-4.50'	36.95'
P360	18" RCP	S394	-1.00'	S393	-1.00'	279.25'
P363	36" RCP	S393	-4.80'	S399	-4.80'	43.30'
P363	24" RCP	S393	-1.00'	S392	-1.00'	343.18'
P363 (1)	36" RCP	S399	-4.80'	S353	-4.80'	26.85'
P369	18" RCP	S396	-2.25'	S394	-2.25'	26.20'
P371	18" RCP	S395	-1.50'	S393	-1.50'	25.78'
P373	24" RCP	S138	-1.75'	S397	-1.75'	313.47'
P373	15" RCP	S401	0.00'	S51	0.00'	12.64'
P374	18" RCP	S242	-2.65'	S410	-2.65'	41.85'
P374	18" RCP	S152	-2.50'	S402	-2.80'	8.64'
P374 (2)	24" RCP	S402	-4.00'	S391	-4.00'	25.00'
P375	18" RCP	S410	-2.65'	S401	-2.65'	38.30'
P376	18" RCP	S402	-0.75'	S405	-0.75'	11.77'
P376 (1)	15" RCP	S405	-1.50'	S403	-1.30'	25.54'
P377	18" RCP	S248	-2.11'	S407	-2.11'	25.17'
P377	24" RCP	S403	-1.00'	S311	-1.00'	38.56'
P382	15" RCP	S404	-2.25'	S374	-2.25'	19.00'
P386	15" RCP	S407	0.00'	S408	0.00'	265.17'
P386	24" RCP	S391	-4.00'	S333	-4.00'	26.43'
P388	15" RCP	S407	0.00'	S409	0.00'	20.38'
P388	15" RCP	S407	-5.20'	S405	-4.68'	21.81'
P389	15" RCP	S406	-0.50'	S125	-0.50'	31.17'
P390	15" RCP	S407	-1.75'	S151	-1.75'	8.72'
P392	15" RCP	S243	-0.50'	S408	-0.50'	14.36'
P393	15" RCP	S408	-2.68'	S411	-2.68'	32.16'
P394	15" RCP	S409	0.40'	S401	0.40'	6.58'
P396	15" RCP	S144	-3.00'	S420	-2.72'	27.78'
P398	15" RCP	S51	0.00'	S412	0.00'	8.12'
P400	15" RCP	S49	-0.12'	S414	-0.12'	7.45'
P401	36" RCP	S353	-5.43'	S441	-6.37'	20.33'
P401	24" RCP	S322	-3.70'	S423	-3.50'	40.38'
P404	15" RCP	S95	-2.25'	S426	-2.25'	22.83'
P405	15" RCP	S89	-5.23'	S427	-5.23'	11.47'
P408	15" RCP	S86	-0.95'	S428	-0.95'	22.92'
P409	24" DIP	S110	-3.60'		-3.60'	64.94'
P409	66" RCP	S171	-8.50'		-8.50'	23.06'
P417	15" RCP	S159	-3.00'	S430	-3.00'	7.73'
P418	15" RCP	S317	-2.70'	S431	-2.70'	20.56'
P435	15" RCP	S156	-2.92'	S432	-2.50'	6.63'
P436	15" RCP	S188	-1.24'	S178	-0.28'	38.17'
P438	15" RCP	S423	-1.75'	S305	-1.75'	10.46'
P448	66" RCP	S418	-6.00'	S311	-6.00'	13.60'
P449	24" RCP	S429	-3.25'		-3.25'	228.35'
P450	15" RCP	S417	-4.27'	S434	-4.27'	35.42'

Name	Description	Start Structure	Start Invert Elevation	End Structure	End Invert Elevation	Pipe Length
P451	12"X18" ELLIP. RCP (15" EQV.)	S159	-1.00'	S435	-1.00'	32.88'
P457	15" RCP	S157	-2.71'	S436	-2.71'	29.21'
P462	8'X4' REINFORCED CONCRETE BOX CULVERT		-6.62'	S441	-6.62'	25.26'
P462 (1)	8'X4' REINFORCED CONCRETE BOX CULVERT	S441	-6.62'		-6.62'	22.74'
P463	24" DIP	S398	-1.50'	S438	-1.10'	16.71'
P464	24" DIP	S438	-1.10'	S440	-1.10'	73.65'
P468	24" DIP	S440	-1.10'	S399	-1.50'	15.08'
P470	8'X4' REINFORCED CONCRETE BOX CULVERT	S442	-6.62'	S443	-6.62'	48.00'
P470	66" RCP (PLUG-COORD CONNECTION WITH EDGEWOOD PROJECT)	S421	-6.06'	S315	-6.06'	4.86'
P471	42" RCP		-3.83'		-3.83'	5.00'
P473	36" RCP		-3.83'		-3.83'	5.00'
P482	8'X4' REINFORCED CONCRETE BOX CULVERT	S442	-6.62'	S443	-6.62'	48.00'
P482	72" RCP		-6.00'		-6.00'	5.00'
P483	24" DIP		-1.10'		-1.10'	73.65'
P483	72" RCP		-6.50'		-6.50'	5.00'
P489	15" RCP	S444	-3.00'	S499	-3.00'	50.00'
P489 (2)	15" RCP	S499	-3.00'	S447	-3.00'	79.66'
P492	24" RCP	S429	-3.25'		-3.50'	14.12'
P493	15" RCP	S429	-2.02'		-2.40'	29.68'
P495	15" RCP	S447	-5.50'	S449	-5.50'	40.23'
P495	66" RCP	S171	-8.50'		-8.50'	191.51'
P503	12" DIP	S449	-1.75'	S452	-3.00'	43.09'
P504	15" RCP	S449	-3.00'	S453	-3.16'	252.43'
P505	15" RCP	S122	0.00'	S433	0.00'	14.46'
P510	15" RCP	S135	-2.00'	S445	-2.00'	10.00'
P511	12" RCP	S448	0.48'	S455	0.48'	10.78'
P522	12" RCP	S456	0.00'	S457	0.00'	11.46'
P524	12" RCP	S459	0.34'		0.34'	5.63'
P527	12" RCP	S461	0.55'		0.55'	5.44'
P528	12" RCP	S463	0.48'		0.48'	6.02'
P541	15" RCP	S462	-2.30'	S182	-2.30'	9.78'
P542	15" RCP	S137	-0.75'	S467	-0.75'	20.00'
P543	15" RCP	S468	-1.00'	S469	-1.00'	29.85'
P544	18" RCP	S137	-0.75'	S466	-0.75'	15.18'
P545	15" RCP	S471	-0.62'	S128	-0.62'	14.22'
P547	15" RCP	S126	-3.00'	S472	-2.75'	16.96'
P548	15" RCP	S472	-2.75'	S473	-2.00'	199.46'
P556	15" RCP	S473	-2.00'	S474	-2.00'	95.93'
P557	15" RCP	S474	-0.77'	S475	-0.77'	30.83'
P558	15" RCP	S473	-0.50'	S476	-2.25'	32.52'
P561	18" RCP	S182	-2.54'	S464	-2.54'	30.26'
P562	15" RCP	S478	-1.50'	S479	-1.50'	25.70'
P569	15" RCP	S479	-2.00'	S480	-2.00'	174.57'
P572	15" RCP	S480	-1.50'	S481	-1.50'	32.88'
P593	15" RCP	S480	-2.00'	S120	-3.00'	145.80'
P595	24" RCP	S110	-4.22'		-4.22'	155.80'
P597	36" RCP	S110	-5.27'		-5.27'	141.30'
P628	15" RCP	S224	-2.00'	S465	-2.00'	10.71'
P648	15" RCP	S3	-0.78'	S487	-0.62'	50.84'
P655	15" RCP	S487	-1.50'	S488	-1.50'	92.15'
P663	24" HDPE (SINGLE WALLED FLEXIBLE PIPE) (TEMPORARY BYPASS LINE TO BE ABANDONED AFTER PUMP STATION IS OPERATIONAL)		-10.00'		-10.00'	25.82'
P663 (1) (1)	24" HDPE (TEMPORARY BYPASS LINE TO BE REMOVED AND REPLACED BY SINGLE WALLED HDPE DURING CONSTRUCTION OF 72" RCP & ABANDONED AFTER PUMP STATION IS OPERATIONAL)	S361	-1.00'	S482	-1.00'	48.80'
P674	24" RCP	S484	-3.50'	S485	-4.00'	15.80'
P675	24" RCP	S485	-3.85'	S486	-3.85'	25.63'
P704	24" RCP	S486	-5.00'	S491	-5.00'	25.98'
P705	24" HDPE (TEMPORARY BYPASS LINE TO BE ABANDONED AFTER PUMP STATION IS OPERATIONAL)	S482	-1.00'	S483	-1.00'	222.01'
P706	15" RCP	S488	-3.00'	S492	-3.00'	19.19'
P711	24" RCP	S489	-2.50'	S490	-2.00'	101.74'
P714	24" RCP	S490	-2.00'	S221	-1.50'	294.79'
P716	24" RCP	S491	-5.00'	S494	-5.00'	15.00'
P722	24" RCP	S486	-3.85'	S489	-2.50'	209.11'
P727	15" RCP	S493	-1.49'	S495	-1.49'	19.10'
P729	24" RCP	S230	-3.69'	S496	-3.69'	18.68'
P730	15" RCP	S495	-1.50'	S497	-1.50'	87.12'
P731	24" RCP	S496	-3.70'	S485	-3.70'	26.77'
P732	15" RCP	S497	-1.50'	S488	-1.50'	79.65'
P733	12" RCP	S499	-4.90'	S500	-4.88'	21.61'

Hazen

HAZEN AND SAWYER
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8/26/2021

CONSTRUCTION SET

ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
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DATE: 01/07/2019
DRAWN BY: XXX
DESIGNED BY: XXX
SCALE: 1"=300'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHKD	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
SUMMARY OF STORMWATER PIPES

SHEET NO.
CU-SP-02
TOTAL: 255
CAD FILE: 11868-CU-CV01
DRAWING FILE NO. 4-142-42

SUMMARY OF STORMWATER STRUCTURES

Name	Description	Insertion Northing	Insertion Easting	Insertion Rim Elevation	Connected Pipes
S3	4' Ø EC CB	639876.4361'	930962.3799'	4.54'	3
S4	TYPE "C" DITCH BOTTOM	639850.8237'	930954.5960'	4.44'	1
S6	TYPE "C" DITCH BOTTOM	639858.1860'	931233.6516'	4.53'	1
S7	CB 4'X4'	639884.2900'	931232.7559'	4.53'	3
S8	TYPE "C" DITCH BOTTOM	639861.5172'	931477.2486'	4.52'	1
S9	CB 4'X4'	639891.1921'	931476.5850'	4.50'	3
S42	MH 8'X8'	640419.1128'	930054.1689'	2.10'	2
S44	MH 8'X8'	640149.5883'	930063.7393'	2.53'	2
S45	8'X8' CONFLICT STRUCTURE	640195.2505'	930713.6066'	4.84'	4
S46	MH 8'X8'	640201.3857'	930815.1655'	5.17'	2
S47	TYPE "J" BOTTOM W/ EC 2'x3' GRATE	640205.9466'	931010.8820'	4.50'	2
S49	MH 8'X8'	640213.0426'	931204.1944'	4.87'	3
S51	MH 8'X8'	640220.1133'	931365.3479'	4.91'	4
S52	TYPE "J" BOTTOM W/ EC 2'x3' GRATE	640234.2467'	931525.9881'	4.73'	2
S66	MH 8'X8'	639893.4070'	931562.9965'	5.52'	2
S72	MH 9' Ø	640939.1074'	929808.5975'	3.11'	2
S73	MH 10'X10'	641152.5222'	929800.6007'	2.49'	2
S75	MH 10' Ø	641130.4847'	929432.8014'	3.75'	3
S77	MH 8' Ø	639366.0888'	931587.6582'	5.85'	2
S85	CB 4'X4'	640984.7415'	930829.2664'	2.74'	2
S86	MH 6' Ø	640969.5432'	930625.3961'	3.35'	4
S89	MH 6' Ø	640960.7464'	930419.9742'	3.07'	4
S95	MH 5' Ø	640944.3338'	930036.7091'	2.63'	4
S103	MH 6' Ø	640958.1921'	930360.3264'	3.00'	4
S104	CB 3.5'X3.5'	641497.8195'	930706.5475'	3.11'	1
S105	CB 4'X4'	641528.7108'	930705.4867'	2.98'	2
S106	CB 5' DIA.	641539.7321'	931007.0310'	2.54'	3
S107	CB 5' DIA.	641546.6687'	931196.2987'	2.71'	2
S108	CB 5' DIA.	641549.5332'	931316.5718'	2.38'	2
S110	MH 7' DIA.	641536.8082'	931518.0731'	2.97'	3
S110	MH 7' Ø	641536.8082'	931518.0731'	2.97'	3
S111	MH 6' Ø	641468.9261'	931520.9927'	2.96'	4
S112	MH 6' DIA.	641532.7161'	931358.8088'	2.84'	3
S116	MH 6' Ø	641291.6283'	931528.9768'	2.68'	4
S119	8'X8' EC CONFLICT STRUCTURE WITH 2'X3' CB INLET GRATE	641290.5838'	931545.9270'	2.40'	3
S120	CB 5' DIA.	641297.4252'	931506.9283'	2.34'	2
S122	MH 6'X6'	640507.7040'	931563.6998'	4.28'	4
S123	MH 5' Ø	640768.9370'	931553.2061'	3.44'	3
S124	CB 4'X4'	640969.5577'	931524.6479'	2.44'	1
S125	CB 4'X4'	640771.7643'	931506.2545'	2.78'	2
S126	CB 4' DIA.	641047.4540'	931523.4724'	2.75'	2
S127	MH 6' Ø	641057.8807'	931540.8922'	2.83'	3
S128	MH 5' Ø	640970.1185'	931545.0894'	3.08'	4
S129	TYPE "D" DITCH	641248.2791'	931508.9072'	2.36'	1
S130	CB 4' DIA.	641467.9911'	931499.0855'	2.38'	1
S135	MH 4'X4'	640490.1630'	931523.2889'	3.79'	3
S136	MH 4'X4'	640503.0361'	931522.4847'	3.72'	3
S137	MH 6' Ø	640713.5229'	931555.3981'	3.41'	4
S138	CB EC 5' DIA.	641514.0846'	930392.3707'	3.19'	2
S139	CB 4' DIA.	641476.1640'	930350.9433'	2.96'	1
S140	CB 4' DIA.	641465.9743'	930392.6737'	2.58'	2
S141	MH 5' Ø	641237.3284'	930385.7914'	2.79'	3
S144	CB 4'X4'	641253.7651'	930824.8175'	2.60'	2
S145	TYPE "C" DITCH BOTTOM	641215.0341'	930614.8262'	2.72'	1
S147	TYPE "C" DITCH BOTTOM	641209.6228'	930420.7117'	2.32'	1
S148	CB 5' DIA.	641239.5875'	930417.3558'	2.39'	3
S150	CB 5' DIA.	641247.5105'	930614.7117'	2.73'	3
S151	TYPE "C" DITCH BOTTOM	641223.4799'	930041.9122'	2.34'	1
S152	TYPE "C" DITCH BOTTOM	641215.9776'	929869.0963'	2.32'	1
S155	MH 6' Ø	640689.6131'	929857.6738'	2.52'	3
S156	MH 5' Ø	640683.5460'	930358.1052'	3.10'	4
S157	MH 5' Ø	640671.0511'	930072.1263'	2.73'	3
S159	MH 6' Ø	640663.5717'	929894.6432'	2.47'	4
S160	MH 6' Ø	640662.6696'	929877.6070'	2.56'	2
S171	MH 9'X9'	640649.5243'	929853.3039'	2.64'	2
S171	MH 9'X9'	640649.5243'	929853.3039'	2.64'	2
S176	MH 5' Ø	640687.2767'	930418.1137'	3.27'	4
S178	MH 4' Ø	640666.9255'	930394.8099'	3.41'	2
S180	MH 5' Ø	640704.2246'	930718.1504'	3.40'	3
S181	MH 4' Ø	640661.4391'	930689.2626'	3.50'	3

Name	Description	Insertion Northing	Insertion Easting	Insertion Rim Elevation	Connected Pipes
S182	MH 4' Ø	640662.4119'	930702.1630'	3.40'	4
S183	CB 4' DIA.	640715.1901'	930803.3222'	2.45'	2
S184	TYPE "C" DITCH BOTTOM	640685.2669'	930807.4382'	2.41'	1
S186	MH 5' Ø	640677.0588'	930418.6442'	3.25'	3
S188	CB 4' DIA.	640664.8167'	930356.7068'	2.63'	2
S189	MH 4' Ø	640630.5003'	930396.5808'	3.34'	3
S190	CB 4' DIA.	640630.6259'	930408.9095'	3.00'	3
S197	TYPE "C" DITCH BOTTOM	640970.2222'	930359.8112'	2.51'	1
S198	TYPE "C" DITCH BOTTOM	640931.9638'	930361.4496'	2.54'	1
S199	TYPE "C" DITCH BOTTOM	640934.4262'	930421.1013'	2.52'	1
S202	CB 3.5'X3.5'	641519.3602'	931359.4770'	2.60'	1
S205	CB 5' DIA.	641561.3503'	932006.9414'	2.83'	3
S206	MH 6' DIA.	641564.9008'	932179.1322'	3.38'	3
S207	CB 5' DIA.	641564.3570'	932153.6584'	2.87'	2
S208	CB 5' DIA.	641565.6006'	932203.8364'	3.10'	2
S209	CB 5' DIA.	641572.2455'	932454.5378'	2.96'	2
S211	MH 6' DIA.	641582.5458'	932816.5040'	3.24'	3
S212	CB 5' DIA.	641581.4301'	932794.7000'	2.59'	2
S213	CB 5' DIA.	641574.1265'	932525.2710'	2.89'	2
S214	CB 5' DIA.	641578.8512'	932672.1469'	2.69'	2
S215	CB 5' DIA.	641587.0805'	932904.7300'	2.43'	2
S217	CB 5' DIA.	641589.7201'	933081.1899'	1.90'	3
S218	CB 6' DIA.	641601.6470'	933470.8991'	3.01'	4
S219	CB 4'X4'	641237.7281'	933529.0562'	3.96'	1
S220	CB 4' DIA.	641269.4258'	933527.7848'	3.73'	2
S221	CB 4' DIA.	641269.4258'	933485.3801'	3.72'	3
S222	CB 4'X4'	641234.8465'	933489.2172'	3.90'	1
S223	MH 4' DIA.	641269.9094'	933514.2516'	3.96'	3
S224	MH 4' DIA.	641545.6521'	933502.4457'	3.30'	3
S225	CB 5' DIA.	641556.2652'	933474.9634'	3.23'	2
S228	MH 4' DIA.	641053.2931'	932840.8114'	3.08'	2
S230	CB 4' DIA.	641272.7203'	932812.3421'	2.31'	2
S232	CB 4'X4'	643320.5874'	933320.5092'	3.03'	1
S233	CB 4'X4'	643320.7052'	933356.9195'	3.43'	2
S242	CB 4' DIA.	642435.2975'	932166.9971'	2.91'	2
S243	TYPE "C" DITCH BOTTOM	642428.5807'	932128.6466'	3.06'	1
S244	TYPE "C" DITCH BOTTOM	642620.3957'	932121.9814'	2.21'	2
S248	CB 4'X4'	642167.0601'	932179.0557'	3.05'	2
S249	CB 4' DIA.	642132.3149'	932180.4100'	3.05'	2
S250	CB 5' DIA.	642113.6968'	932146.3972'	3.02'	2
S254	MH 5' DIA.	641829.2986'	932168.0386'	3.97'	3
S255	CB 4'X4'	641829.2986'	932151.7878'	3.61'	2
S256	CB 4'X4'	641829.2986'	932187.6674'	3.84'	1
S278	CB 4' DIA.	642690.8230'	932119.9725'	2.15'	2
S280	CB 4' DIA.	642750.3500'	932131.2299'	1.90'	2
S282	CB 4'X4'	644800.1100'	933853.2501'	2.54'	1
S283	CB 4'X4'	644767.2699'	933855.1799'	2.05'	2
S284	CB 4'X4'	644152.7190'	933778.8929'	2.09'	1
S285	CB 4'X4'	644120.9201'	933779.9500'	2.35'	2
S287	CB 4'X4'	644183.2938'	934044.5819'	2.91'	1
S288	CB 4' DIA.	644125.5987'	934043.3278'	2.96'	2
S289	MH 4' Ø	644130.9230'	934086.2546'	3.09'	3
S290	CB 4'X4'	643833.5998'	933874.6500'	2.53'	2
S292	CB 4'X4'	643802.6467'	933879.1845'	2.51'	1
S296	TYPE "C" DITCH BOTTOM	640979.8109'	930625.1740'	2.87'	1
S297	TYPE "C" DITCH BOTTOM	640687.0173'	930197.5365'	2.30'	1
S305	TYPE "C" DITCH BOTTOM	640948.5674'	929891.2569'	2.09'	1
S307	TYPE "C" DITCH BOTTOM	640954.4129'	930036.5205'	2.17'	1
S309	TYPE "C" DITCH BOTTOM	640963.9780'	930836.9118'	2.75'	1
S311	MH 8'X8'	640236.6845'	931555.1888'	5.16'	3
S312	MH 6' Ø	640278.5410'	931568.1260'	5.04'	3
S315	MH 8' Ø	639598.2639'	931568.1458'	5.15'	2
S316	MH 5' Ø	641248.6250'	931530.9450'	2.71'	3
S317	MH 5' Ø	640676.6010'	930198.0387'	2.93'	4
S320	MH 8' Ø	640671.6421'	929852.5323'	2.52'	2
S321	MH 8' Ø	640734.1520'	929816.2772'	1.63'	2
S322	MH 6' Ø	640936.3872'	929851.1415'	2.87'	4
S323	TYPE "C" DITCH BOTTOM	640928.4934'	929825.7072'	1.14'	1
S324	MH 8'X8'	640655.7127'	930044.7134'	2.83'	2
S333	MH 5' Ø	641180.9820'	929843.1973'	2.78'	2

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PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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8/26/2021

CONSTRUCTION SET

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
SUMMARY OF STORMWATER STRUCTURES

SHEET NO.
CU-SS-01
TOTAL: 255
CAD FILE: 11868-CU-CV01
DRAWING FILE NO. 4-142-42

SUMMARY OF STORMWATER STRUCTURES

Name	Description	Insertion Northing	Insertion Easting	Insertion Rim Elevation	Connected Pipes
S334	CB 4' DIA.	641620.9301'	933479.6701'	2.93'	2
S335	CB 4' DIA.	641858.3337'	933471.3373'	2.86'	3
S336	CB 4' DIA.	641921.5183'	933468.4285'	3.01'	3
S337	CB 5' DIA.	642150.3330'	933457.8946'	3.43'	3
S338	CB 5' DIA.	642228.8759'	933454.3066'	3.37'	3
S339	CB 4' DIA.	642460.8771'	933442.9374'	3.70'	3
S340	CB 4' DIA.	642516.7984'	933440.5042'	3.97'	3
S341	CB 4' DIA.	642756.8240'	933430.0604'	3.90'	3
S342	CB 4' DIA.	642816.8575'	933427.8076'	3.84'	2
S346	MH 10'X10'	641079.7571'	929190.2015'	10.00'	2
S350	MH 10' Ø	641182.4312'	929190.2015'	7.25'	2
S352	12'x18' WATER QUALITY STRUCTURE VORTECH VX-16000 (OR APPROVED EQUAL)	641541.2825'	931683.8700'	3.46'	2
S353	12'x18' WATER QUALITY STRUCTURE VORTECH VX-16000 (OR APPROVED EQUAL)	641542.6052'	931731.1032'	3.25'	2
S357	MH 8'X8'	640160.0901'	930224.8241'	3.27'	2
S358	MH 8'X8'	640173.4351'	930359.0861'	3.81'	2
S359	MH 8'X8'	640178.3253'	930438.5816'	4.27'	2
S361	TYPE "K" DITCH BOTTOM INLET (PER FDOT INDEX 425-055)	641105.6902'	929441.4837'	3.40'	2
S366	8' MH EC CONFLICT STRUCTURE WITH 2'X3' CB INLET GRATE	641465.2427'	931538.5232'	2.39'	3
S374	MH 5' Ø	640463.5142'	931564.5533'	4.40'	3
S375	CB 4' DIA.	643464.0349'	933352.7563'	3.27'	2
S377	WATER QUALITY STRUCTURE CDS4045-8-C	640684.5135'	929832.4725'	4.00'	2
S378	WATER QUALITY STRUCTURE VORTECH CDS-92100 (OR APPROVED EQUAL) WITH 9'X14' DIVERSION BYPASS VAULT	641106.5487'	929396.3045'	4.00'	2
S379	MH 10' Ø	641231.9358'	929127.8167'	4.96'	2
S380	MH 10'X10'	641272.5366'	929126.8048'	3.68'	2
S390	MH 10' Ø	641079.9854'	929355.8014'	3.75'	2
S391	CB 4'X4'	641182.3484'	929869.6551'	2.24'	2
S392	CB 3.5'X3.5'	641502.8145'	931008.6119'	2.95'	1
S392	MH 8'X8'	640049.1641'	931562.0054'	5.26'	3
S393	CB 5' DIA.	641557.0594'	931797.5637'	2.63'	2
S393	CB 5' DIA.	640053.2767'	931905.1584'	3.85'	3
S394	CB 4'X4'	640055.5336'	932184.4035'	2.88'	2
S395	TYPE "C" DITCH BOTTOM	640078.7226'	931909.2795'	3.86'	1
S396	TYPE "C" DITCH BOTTOM	640081.7316'	932184.0915'	2.86'	1
S397	MH 5' DIA.	641519.8731'	930705.7911'	3.60'	3
S398	MH 8' DIA.	641538.9519'	931661.7241'	3.16'	3
S399	MH 8' DIA.	641539.8841'	931757.8184'	3.10'	3
S401	CB 4'X4'	642475.7789'	932127.0066'	2.97'	2
S401	MH 6'X6'	640207.8269'	931362.3810'	5.02'	4
S402	CB 4'X4'	641872.8899'	932154.4354'	3.52'	2
S402	MH 5' Ø	641207.3439'	929869.2333'	2.62'	3
S403	CB 4'X4'	641872.8924'	932191.7427'	3.73'	1
S403	CB 5' DIA.	640275.1109'	931558.4328'	4.71'	2
S404	CB DITCH 5'X7'	640463.6397'	931545.5536'	3.20'	1
S405	MH 5' DIA.	641872.9753'	932166.2060'	3.98'	3
S405	TYPE "C" DITCH BOTTOM	641194.4546'	930050.1910'	2.25'	1
S406	CB 4'X4'	640740.5926'	931506.4364'	2.82'	1
S407	MH 5' DIA.	642166.1203'	932153.9062'	3.48'	3
S407	MH 5' Ø	641214.7697'	930042.2859'	2.69'	4
S408	MH 5' DIA.	642431.0578'	932142.7900'	3.46'	3
S408	CB 5' DIA.	641236.1110'	930347.0426'	2.40'	3
S409	CB 4'X4'	642167.8983'	932133.6017'	3.00'	1
S409	TYPE "C" DITCH BOTTOM	640201.2589'	931362.8233'	4.52'	1
S410	CB 4'X4'	642477.1151'	932165.2806'	2.96'	2
S411	TYPE "C" DITCH BOTTOM	641205.0709'	930355.4689'	2.37'	1
S412	CB 4'X4'	641053.1929'	932816.6743'	2.03'	3
S412	TYPE "C" DITCH BOTTOM	640228.2203'	931364.9073'	4.46'	1
S414	TYPE "C" DITCH BOTTOM	640220.4916'	931203.9239'	4.88'	1
S415	TYPE "C" DITCH BOTTOM	641260.2317'	932479.4751'	2.80'	2
S416	CB 4' DIA.	641266.1890'	932550.8531'	2.72'	3
S417	CB 5' DIA.	641270.3288'	932679.5800'	2.54'	3
S418	CB 4'X4'	641022.1765'	932685.9967'	1.98'	2
S418	8'X8' CONFLICT STRUCTURE	640223.0858'	931555.4992'	5.17'	4
S419	CB 4'X4'	641049.7890'	932685.0975'	1.95'	2
S420	TYPE "C" DITCH BOTTOM	641226.0059'	930825.7493'	2.51'	1
S422	12'X6' CONFLICT STRUCTURE	641581.8448'	932827.6684'	3.48'	5
S423	MH 5' Ø	640938.1148'	929891.4840'	2.57'	4
S424	TYPE "C" DITCH BOTTOM	640913.9706'	929892.0087'	2.15'	1
S426	TYPE "C" DITCH BOTTOM	640921.5066'	930037.0601'	2.25'	1
S427	TYPE "C" DITCH BOTTOM	640972.2101'	930419.4833'	2.74'	1
S428	TYPE "C" DITCH BOTTOM	640946.6316'	930626.1202'	2.66'	1
S429	MH 5' DIA.	641465.3230'	930378.5704'	3.28'	3
S429	MH 5' Ø	641465.3230'	930378.5704'	3.28'	3
S430	TYPE "C" DITCH BOTTOM	640671.2969'	929894.3592'	2.07'	1
S431	TYPE "C" DITCH BOTTOM	640657.2451'	930191.0959'	2.34'	1
S432	TYPE "C" DITCH BOTTOM	640690.1544'	930357.8351'	2.64'	1
S433	10'X10' EC CONFLICT STRUCTURE WITH 2'X3' CB INLET GRATE	640509.0670'	931578.0972'	3.91'	5
S434	TYPE "C" DITCH BOTTOM	641302.3962'	932694.6215'	2.47'	1
S435	CB 4' DIA.	640637.6135'	929914.8210'	2.04'	1
S436	TYPE "C" DITCH BOTTOM	640641.8638'	930073.2733'	2.35'	1
S444	CB 4'X4'	642793.4886'	931819.6333'	2.98'	2
S445	TYPE "C" DITCH BOTTOM	640480.1824'	931523.9123'	3.08'	1
S446	CONVERT EXISTING CB TO MH (REPLACE EXISTING TOP SLAB AND FRAME AND GRATE WITH STD MANHOLE COVER)	640487.1664'	931471.3134'	3.30'	0
S447	CB 4'X4'	642664.0986'	931827.9673'	1.51'	2
S448	TYPE "D" DITCH	640507.7852'	931469.6220'	2.79'	1
S449	CB 4'X4'	642665.8299'	931868.1650'	1.53'	3
S450	EXIST. DITCH BOTTOM INLET (TO BE REMOVED)	640501.9051'	931469.9191'	3.15'	0
S451	EXIST. DITCH BOTTOM INLET (TO BE REMOVED)	640463.6232'	931559.3444'	4.20'	1
S452	TYPE "C" DITCH BOTTOM	642622.7932'	931866.3395'	1.52'	1
S453	MH 4'X4'	642670.4748'	932120.5529'	2.47'	3
S454	MH 5'X5'	641541.6532'	931698.3101'	3.39'	2
S455	MH 4' Ø	640497.0094'	931469.9191'	3.21'	3
S456	MH 4' Ø	640488.7323'	931355.1439'	3.16'	3
S457	TYPE "D" DITCH	640500.1854'	931354.8804'	2.76'	1
S458	EXIST. DITCH BOTTOM INLET (TO BE REMOVED)	640493.2119'	931355.1439'	3.11'	0
S459	TYPE "D" DITCH	640468.7476'	931370.5697'	2.78'	1
S460	TYPE "C" DITCH BOTTOM	640661.0450'	930683.2839'	3.00'	1
S461	TYPE "D" DITCH	640493.1126'	931262.7025'	2.78'	1
S462	TYPE "C" DITCH BOTTOM	640663.1218'	930711.9130'	2.99'	1
S463	TYPE "D" DITCH	640461.9291'	931254.4695'	2.75'	1
S464	MH 5' Ø	640692.6490'	930701.0419'	3.46'	2
S465	TYPE "C" DITCH BOTTOM	641550.5409'	933511.9785'	3.08'	1
S466	8'X8' EC CONFLICT STRUCTURE WITH 2'X3' CB INLET GRATE	640714.4094'	931570.5539'	2.88'	4
S467	TYPE "D" DITCH	640712.6701'	931535.4163'	2.66'	1
S468	TYPE "D" DITCH	640800.1995'	931528.9939'	2.67'	1
S469	MH 4'X4'	640770.3577'	931529.6138'	3.28'	3
S471	8'X8' EC CONFLICT STRUCTURE WITH 2'X3' CB INLET GRATE	640970.5085'	931559.3049'	2.76'	3
S472	MH 5' Ø	641031.1214'	931518.9183'	3.13'	2
S473	CB 4'X4'	641025.1143'	931319.5493'	3.02'	3
S474	CB 4'X4'	641020.0715'	931223.7522'	2.91'	2
S475	TYPE "C" DITCH BOTTOM	640989.2695'	931225.0670'	2.94'	1
S476	TYPE "C" DITCH BOTTOM	640992.8637'	931323.3216'	3.01'	1
S478	TYPE "C" DITCH BOTTOM	641257.1065'	931186.6993'	2.75'	1
S479	CB 4'X4'	641282.8020'	931186.8910'	2.77'	2
S480	CB 4'X4'	641290.7835'	931361.2820'	2.78'	3
S481	TYPE "C" DITCH BOTTOM	641257.9285'	931362.6842'	2.76'	1
S482	MH 5' Ø	641154.4821'	929442.4725'	4.00'	2
S483	EXIST. C.B. #23715 (CORE DRILL & CONNECT TEMP. 24" BYPASS PIPE)	641143.5363'	929220.7281'	4.98'	1
S484	CB 4'X4'	641266.3803'	932861.5202'	2.06'	1
S485	MH 5'X5'	641284.5122'	932862.1314'	2.67'	3
S486	MH 5'X5'	641285.3496'	932887.7482'	2.83'	3
S487	MH 4' Ø	639876.1225'	930911.5384'	4.63'	2
S488	TYPE "C" DITCH BOTTOM	639968.2746'	930911.5384'	4.40'	3
S489	MH 5' DIA.	641289.1261'	933096.8179'	2.82'	2
S490	MH 5' DIA.	641251.0545'	933191.1649'	2.98'	2
S491	WATER QUALITY STRUCTURE CDS4045-8-C	641311.3219'	932887.2583'	3.08'	2
S492	TYPE "C" DITCH BOTTOM	639968.2746'	930892.3487'	4.38'	1
S493	TYPE "C" DITCH BOTTOM	640133.3280'	930890.3866'	4.24'	1
S494	7' DIA. WET-WELL PUMP STATION 3C	641311.0390'	932872.2610'	3.00'	2
S495	TYPE "C" DITCH BOTTOM	640133.3280'	930909.4819'	4.22'	2
S496	15'X5' CONFLICT STRUCTURE (72" RCP CONTINUOUS THROUGH STRUCTURE)	641283.3894'	932835.3867'	2.97'	6
S497	MH 4' Ø	640046.8782'	930898.6660'	4.85'	2
S499	CB 4'X4'	642743.5928'	931822.8735'	1.52'	3
S500	CB 4'X4'	642748.5719'	931843.8997'	1.50'	1

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REVISIONS

NO.	DATE	BY	CHKD	DESCRIPTION

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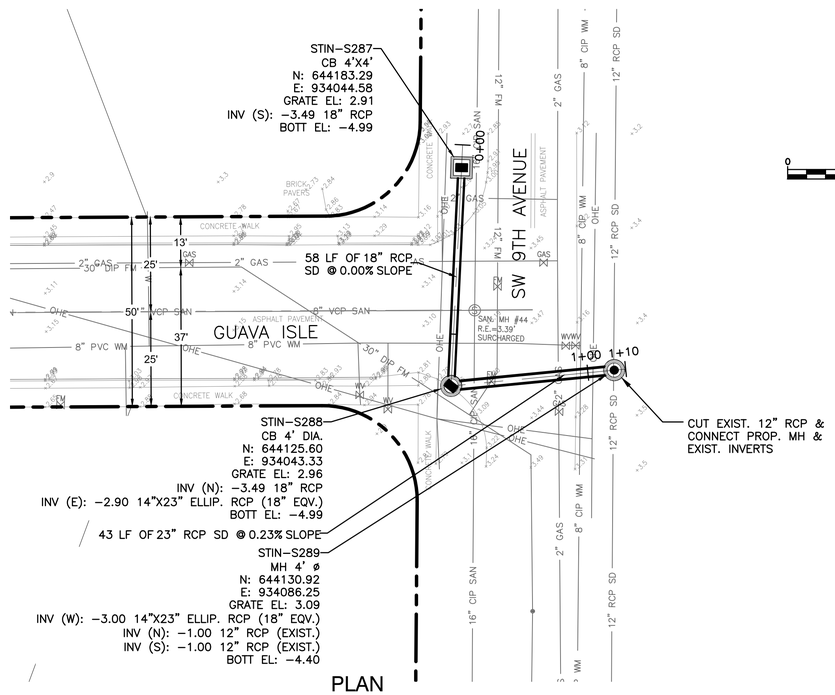
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
SUMMARY OF STORMWATER STRUCTURES

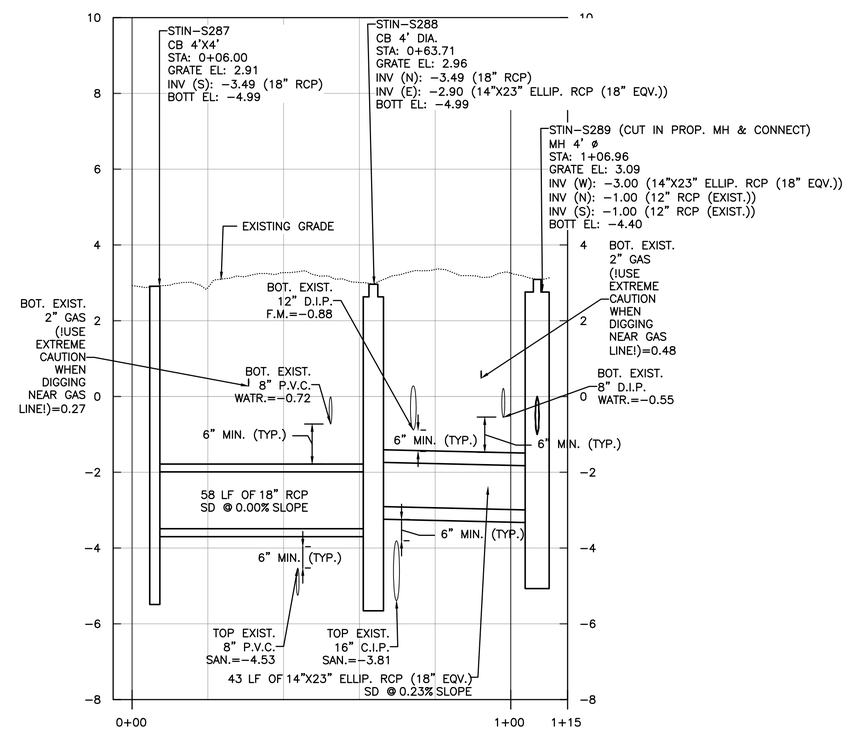
CONSTRUCTION SET

SHEET NO.
CU-SS-02
TOTAL: 255
CAD FILE: 11868-CU-CV01
DRAWING FILE NO. 4-142-42



PLAN

SCALE: 1"=20'



PROFILE

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

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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FAX: (954) 739-6409 TEL.: (954) 739-6400
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FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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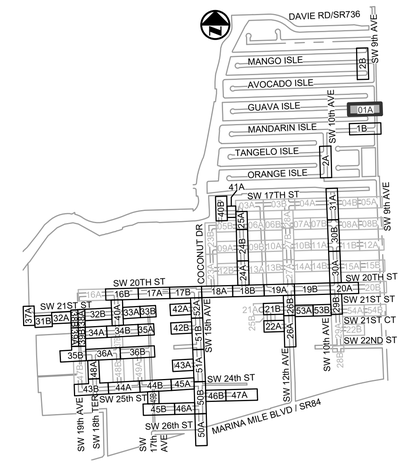

KEY MAP

N.T.S.

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NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).

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8/26/2021

CONSTRUCTION SET

ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX	DATE: 01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

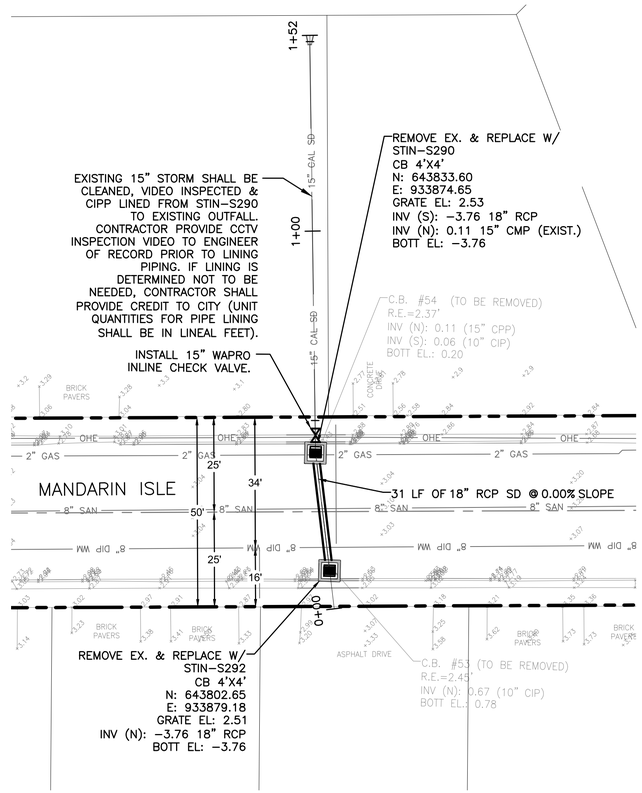
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

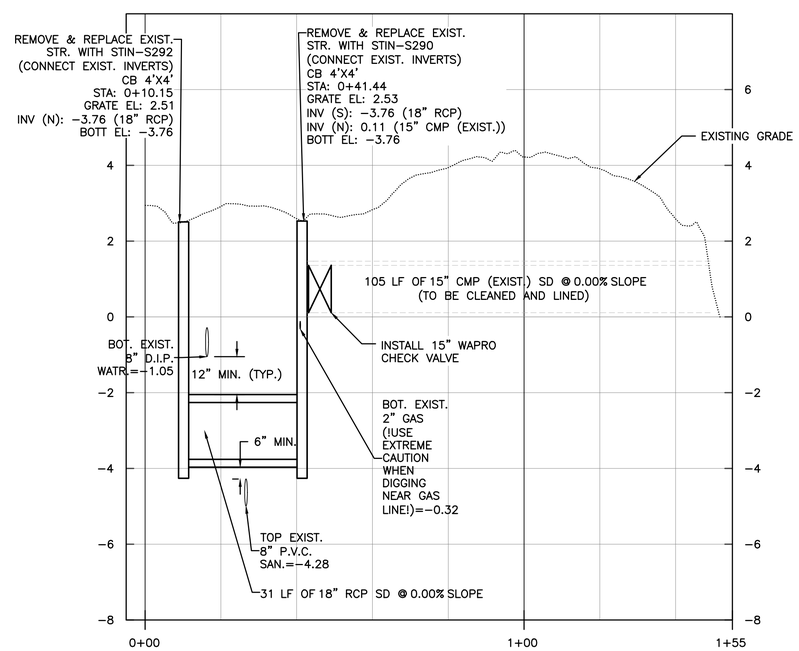
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-01A
TOTAL: 255
CAD FILE: 11868-CU-ST-D
DRAWING FILE NO. 4-142-42



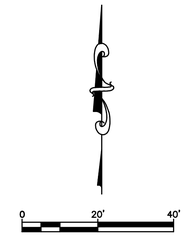
PLAN

SCALE: 1"=20'



PROFILE

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



Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
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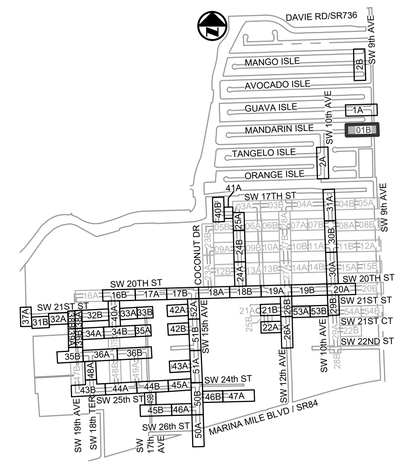

KEY MAP

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CONSTRUCTION SET

ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX	DATE: 01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

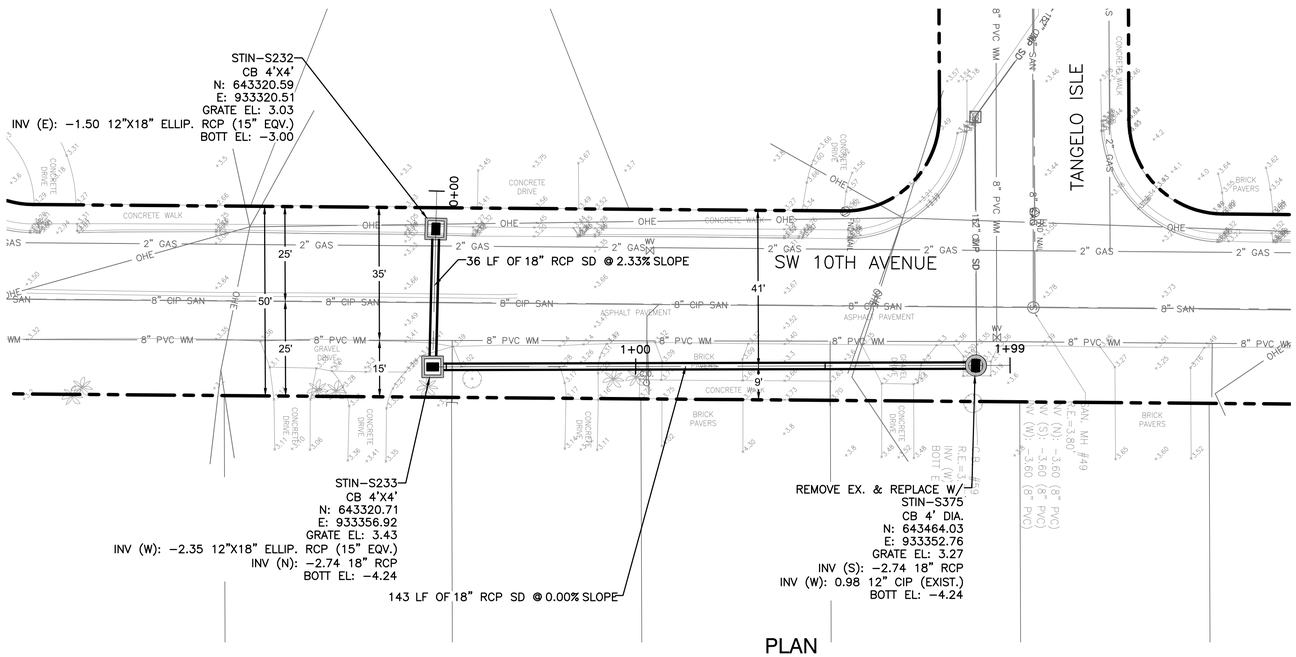
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-01B

TOTAL: 255

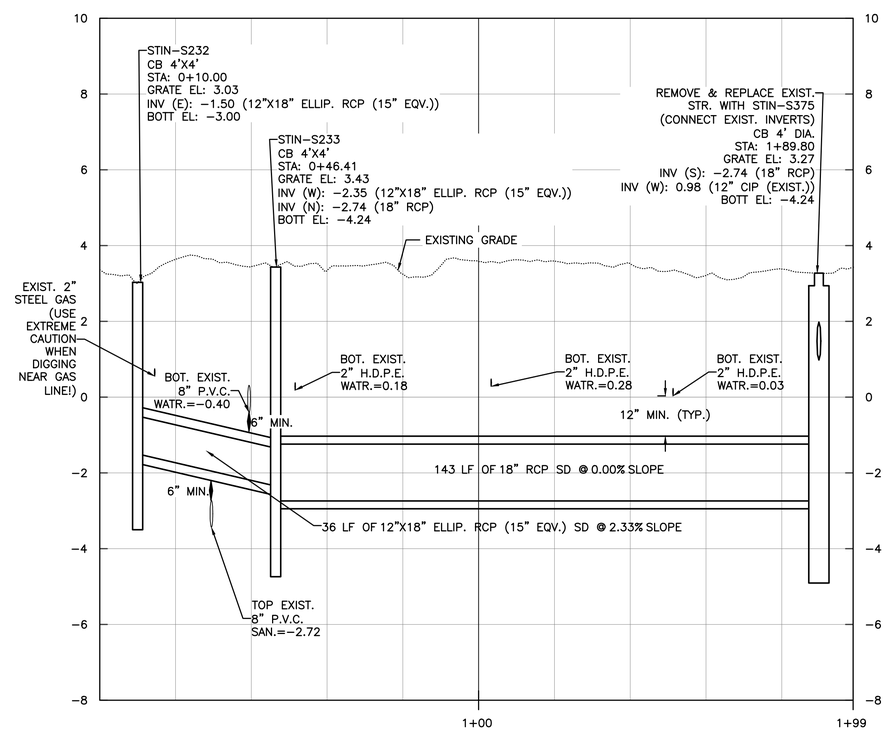
CAD FILE: 11868-CU-ST-D

DRAWING FILE NO. 4-142-42



PLAN

SCALE: 1"=20'



PROFILE

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

Hazen

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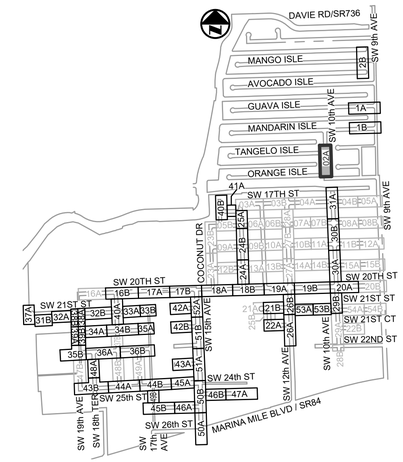

KEY MAP

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XXX	01/07/2019	XXX	1"=20'	XXX	XXXX

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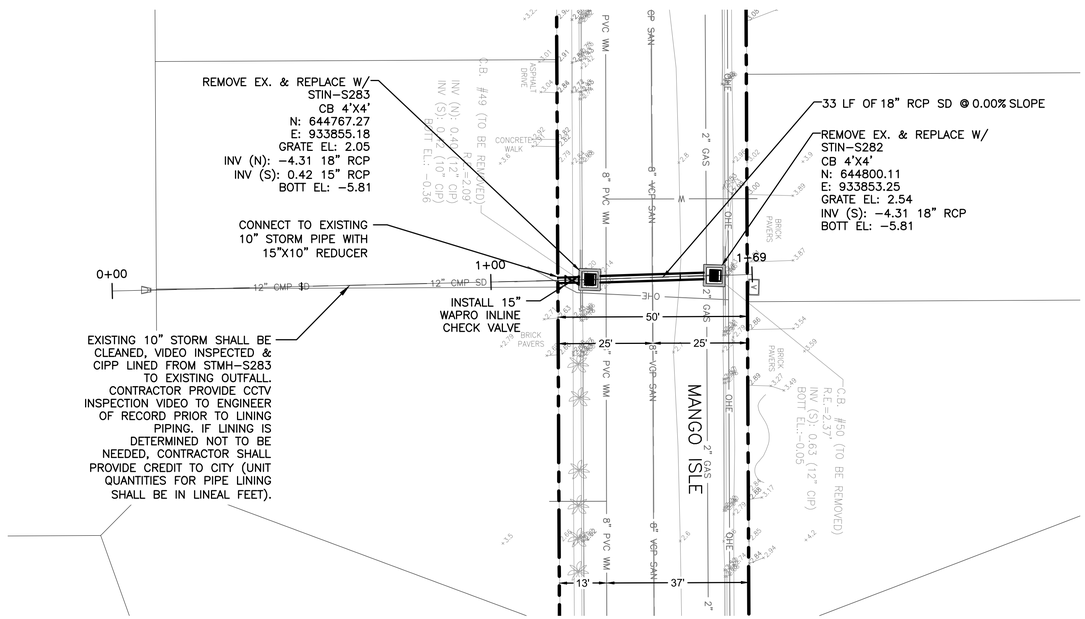
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

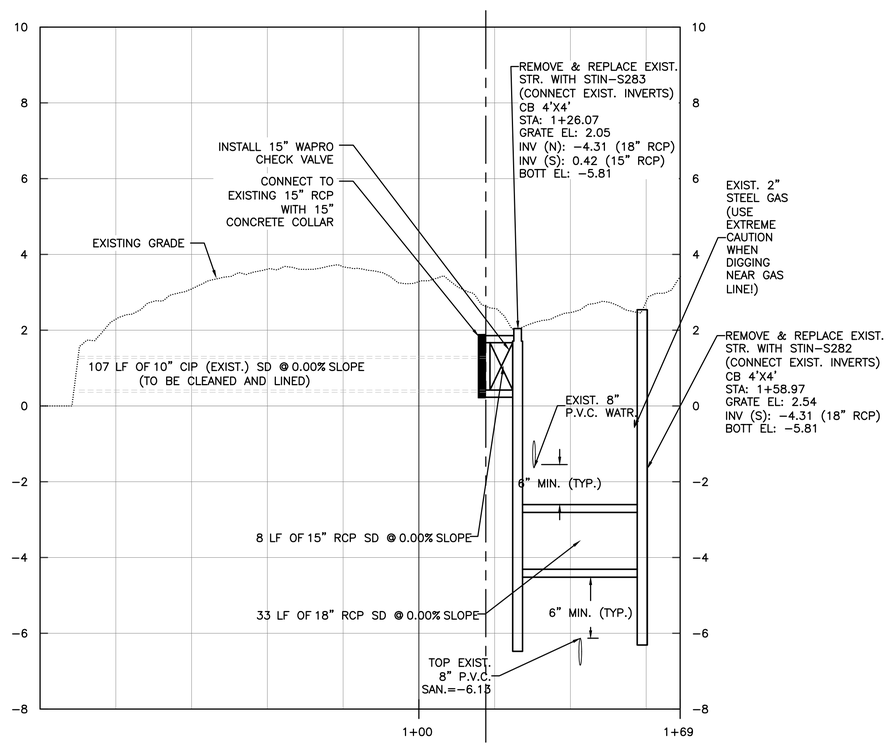
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-02A
TOTAL: 255
CAD FILE: 11868-CU-ST-D
DRAWING FILE NO. 4-142-42
CAM #22-0947



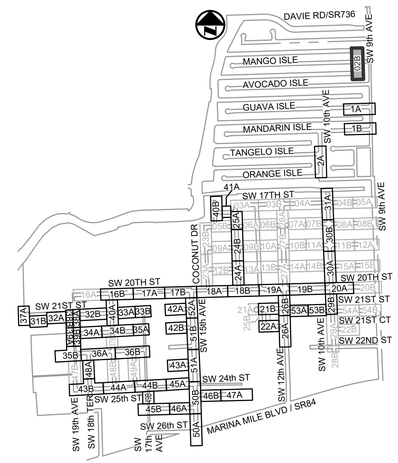
PLAN

SCALE: 1"=20'



PROFILE

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



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DRAWN BY:	DATE:	DESIGNED BY:	SCALE:	CHECKED BY:	FIELD BOOK:
XXX	01/07/2019	XXX	1"=20'	XXX	XXXX

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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

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RIVER OAKS NEIGHBORHOOD
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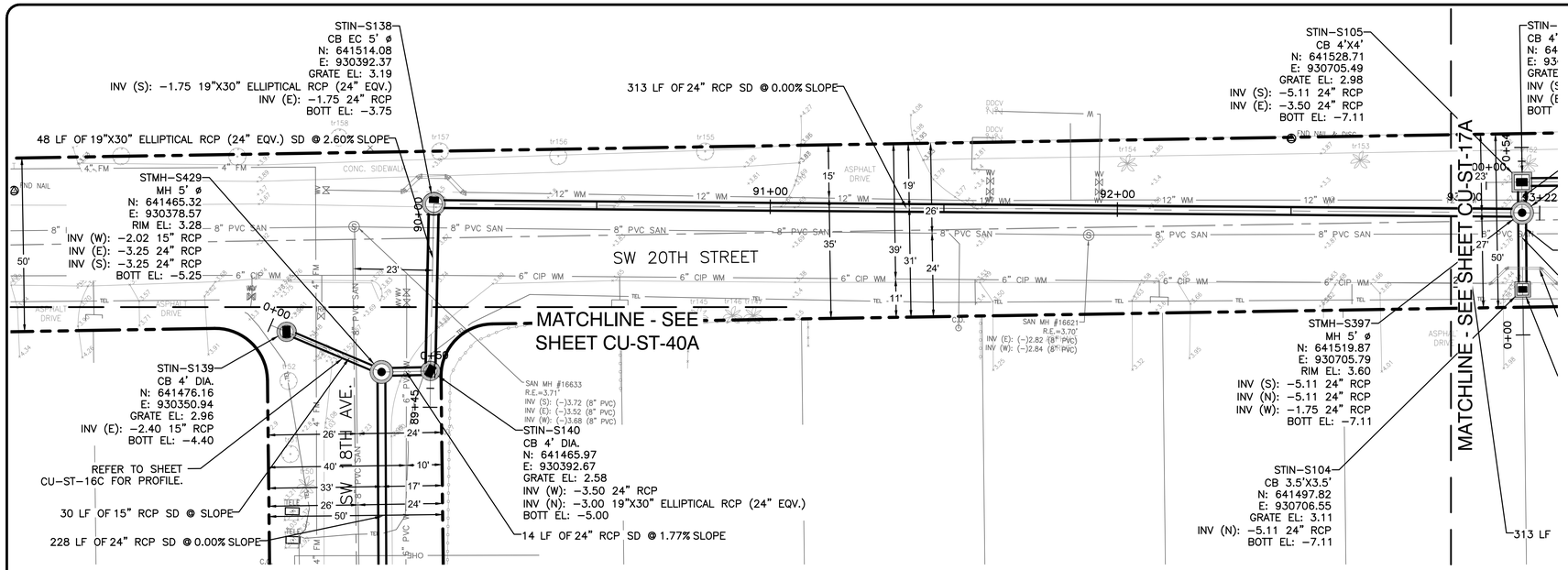
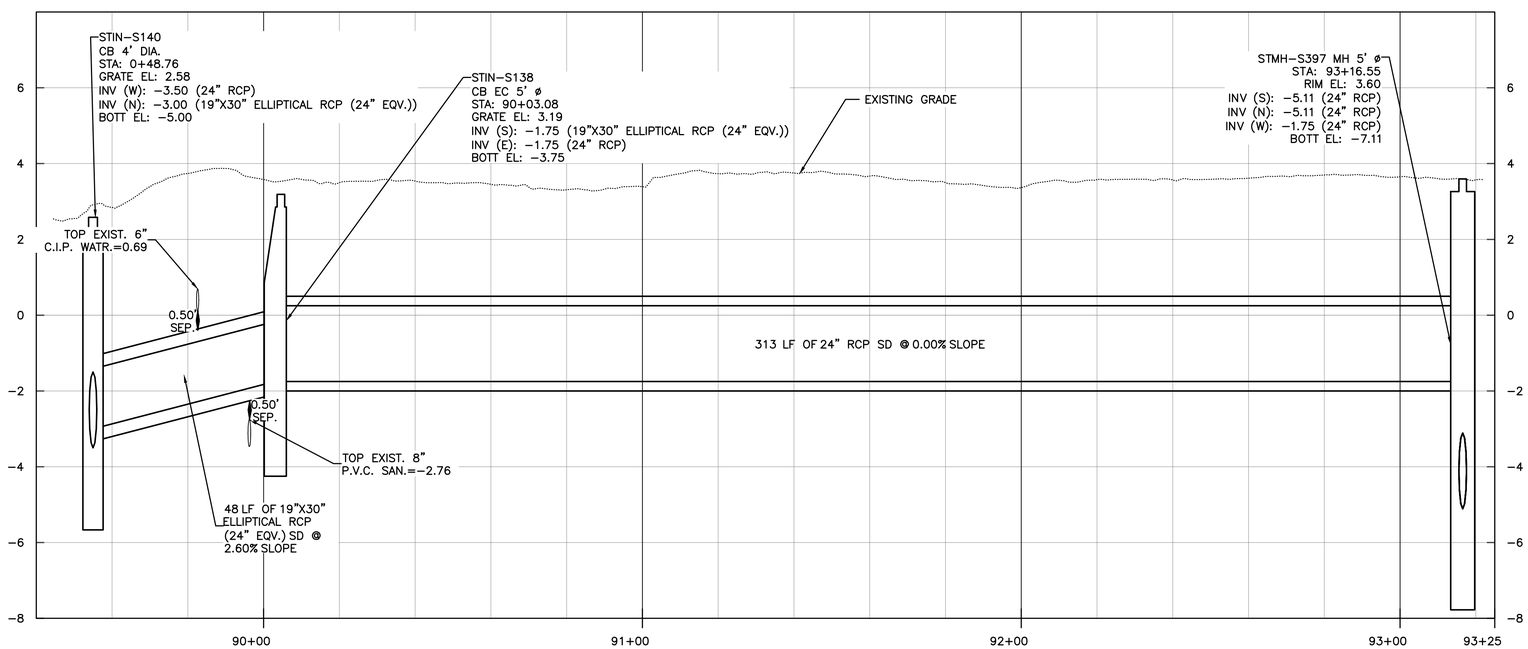
SHEET NO.
CU-ST-02B
TOTAL: 255
CAD FILE: 11868-CU-ST-D
DRAWING FILE NO. 4-142-42



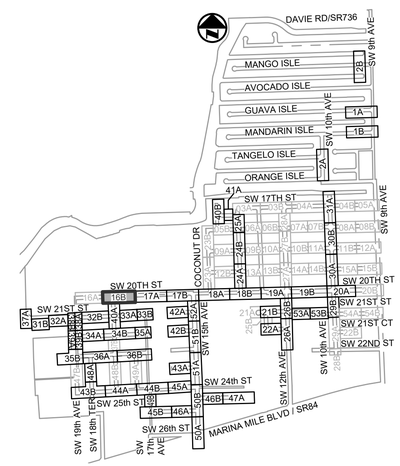
PLAN

SCALE: 1"=20'



PROFILE

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



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TEL: 954–987–0066
FAX: 954–987–2949

DATE: 01/07/2019	DRAWN BY: XXX
DESIGNED BY: XXX	SCALE: HOR: 1"=20' VERT: 1"=2'
CHECKED BY: XXX	FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-16B
TOTAL: 255
CAD FILE: 11868–CU–ST–A
DRAWING FILE NO. 4–142–42

9/20/2022 9:05 AM
PLOT DATE: 8/26/2021 12:59 PM BY: MRODRIGUEZ
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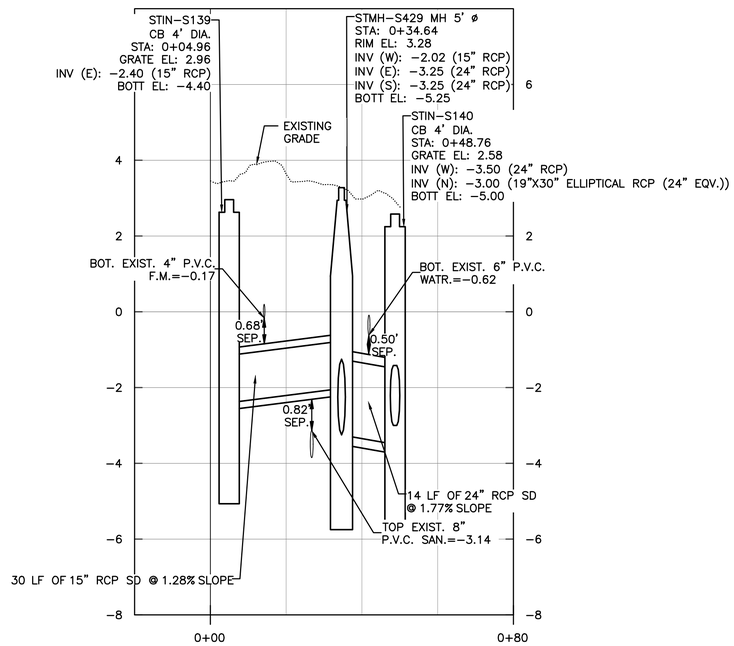

PROFILE

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

S.W. 18TH AVE.
(SEE SHEET CU-ST-16B)
STA: 1002+41

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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FAX: (954) 739-6409 TEL.: (954) 739-6400
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FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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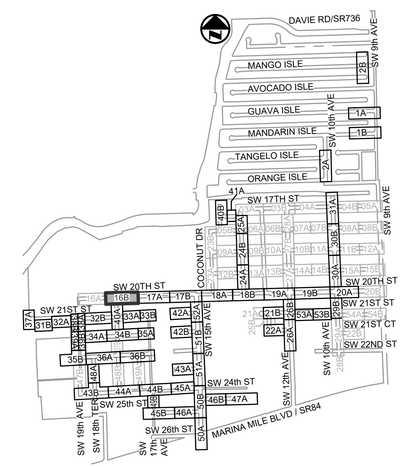

KEY MAP

N.T.S.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).

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8/26/2021

CONSTRUCTION SET

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ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX	DATE: 01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

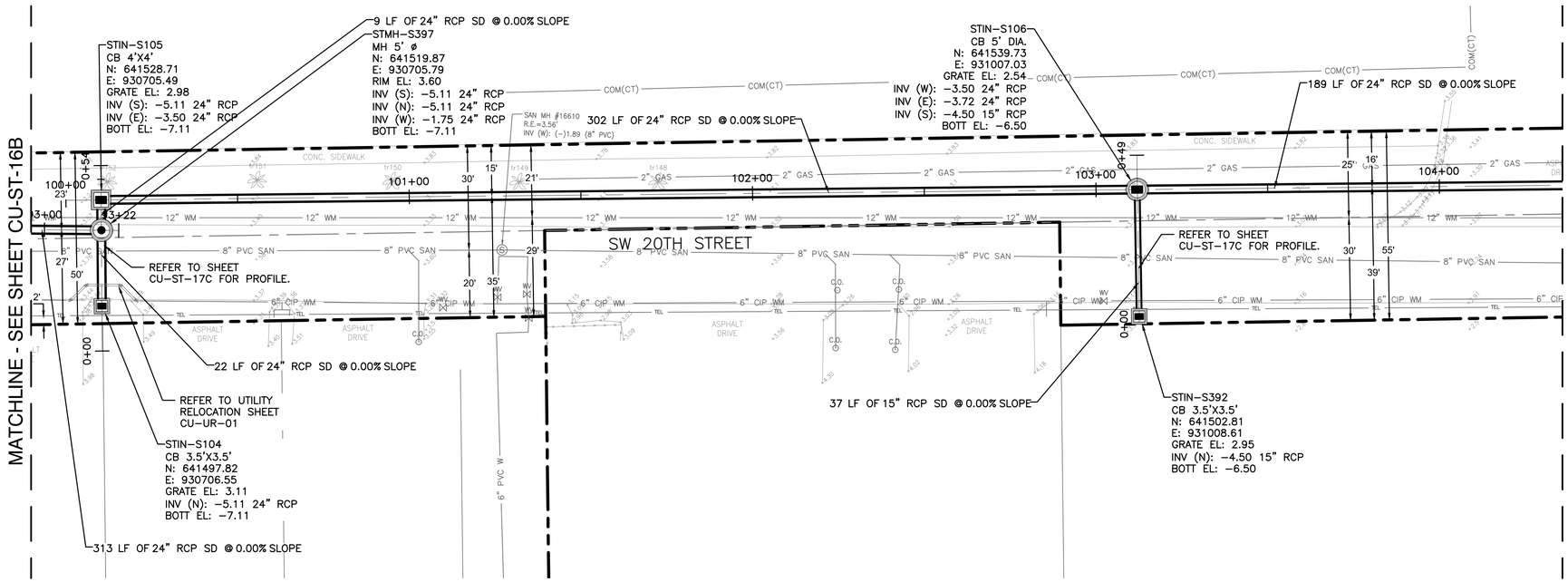
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-16C

TOTAL: 255

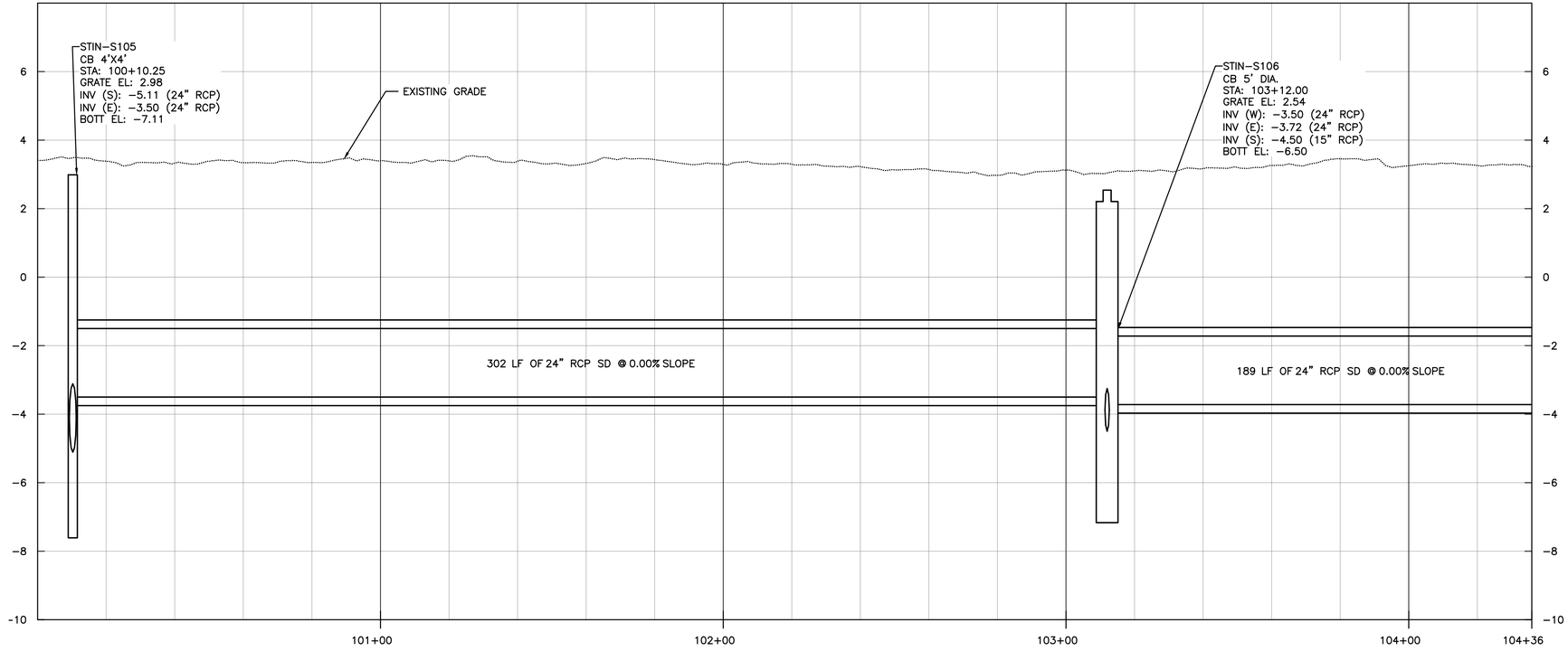
CAD FILE: 11868-CU-ST-A

DRAWING FILE NO. 4-142-42



PLAN

SCALE: 1"=20'



PROFILE

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

Hazen

HAZEN AND SAWYER
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HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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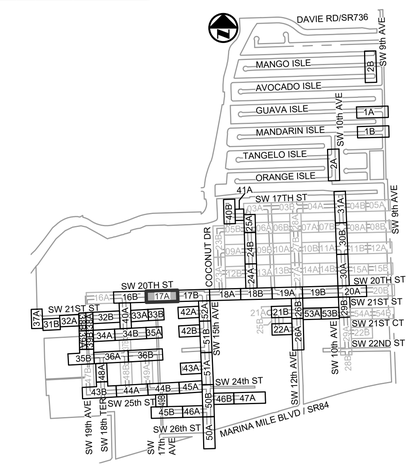

KEY MAP

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ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX	DATE: 01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

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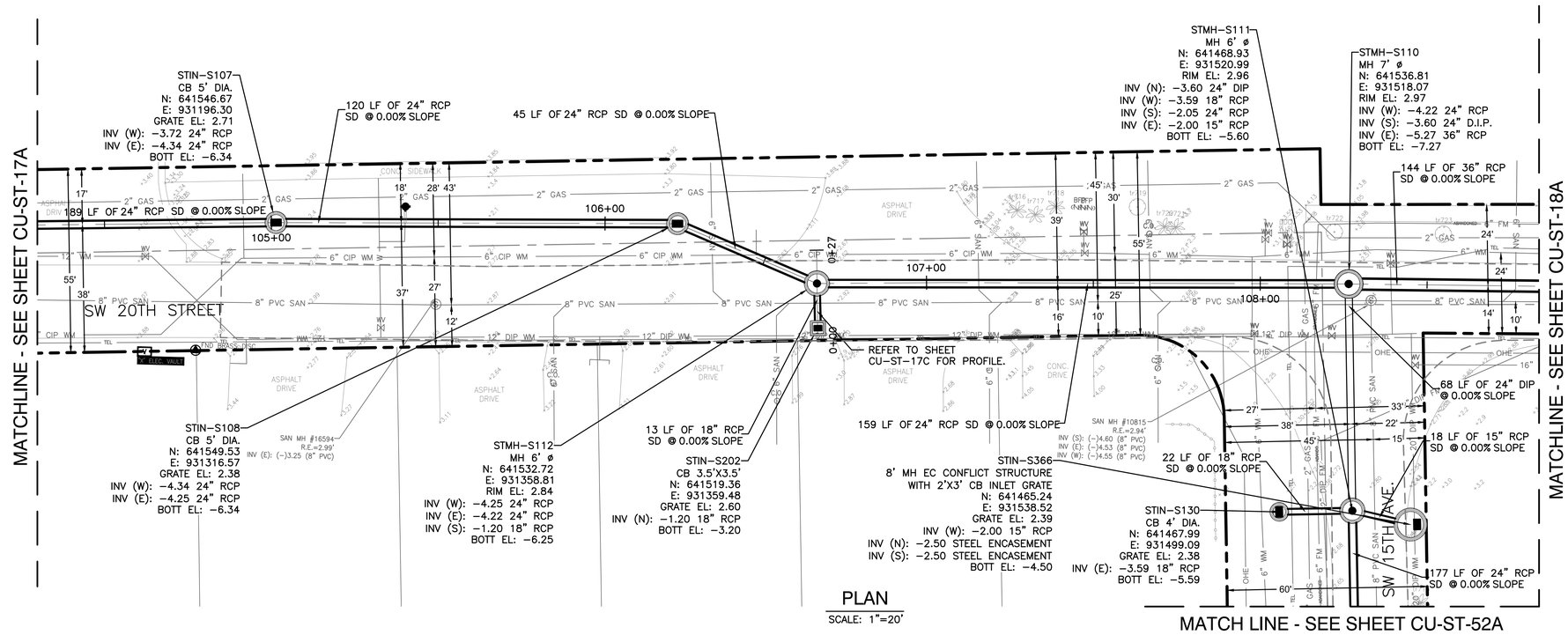
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

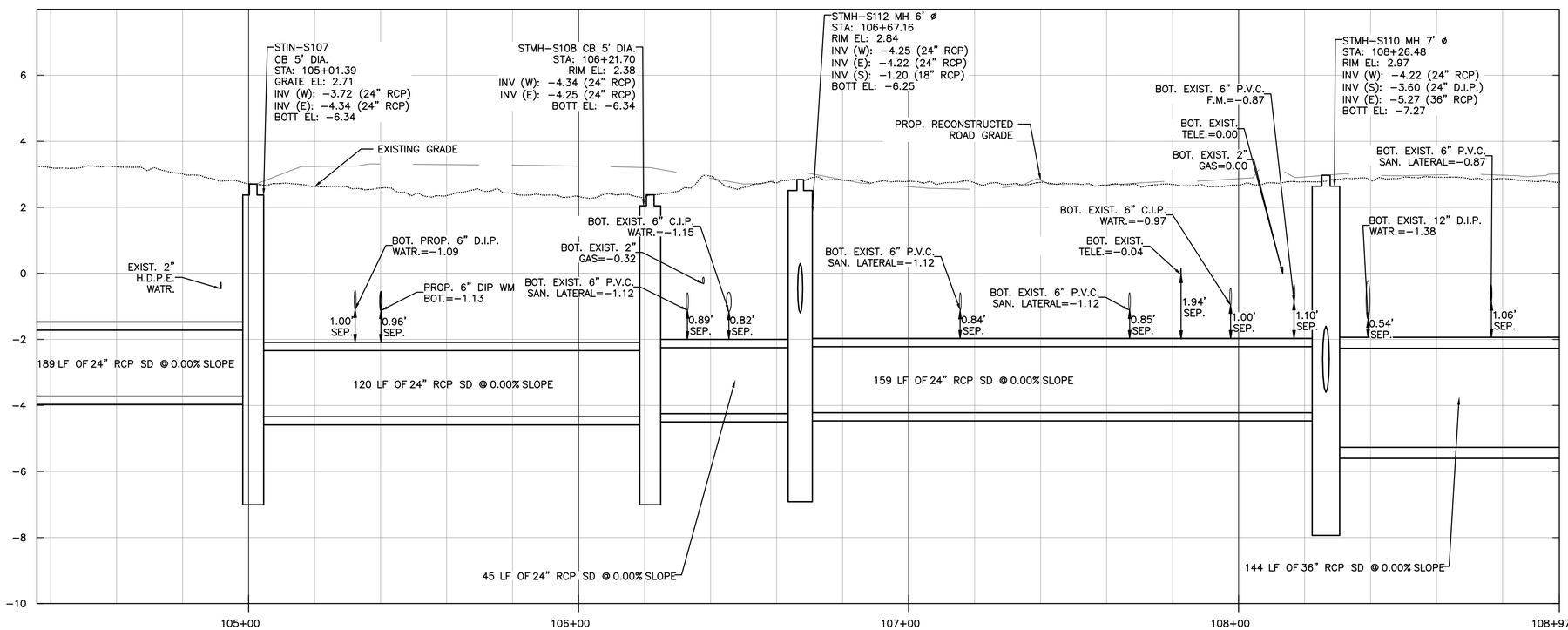
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-17A
TOTAL: 255
CAD FILE: 11868-CU-ST-A
DRAWING FILE NO. 4-142-42



PLAN

SCALE: 1"=20'



PROFILE

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

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Hazen

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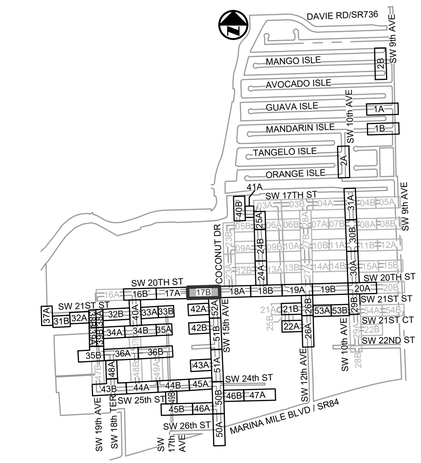

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TEL: 954-987-0066
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DRAWN BY: XXX	DATE: 01/07/2019
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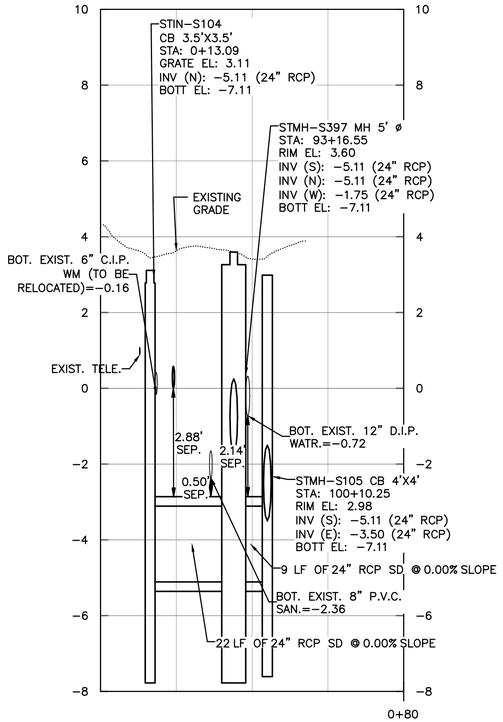
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

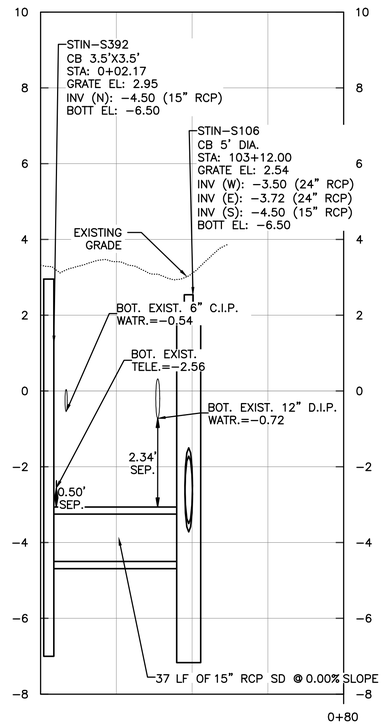
SHEET NO.
CU-ST-17B
TOTAL: 255
CAD FILE: 11868-CU-ST-A
DRAWING FILE NO. 4-142-42



PROFILE

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

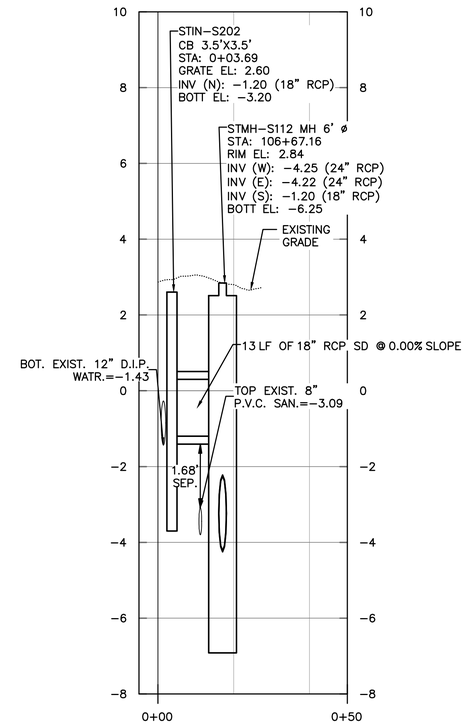
S.W. 20TH STREET
(SEE SHEET CU-ST-17A)
STA: 93+22



PROFILE

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

S.W. 20TH STREET
(SEE SHEET CU-ST-17A)
STA: 103+10



PROFILE

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

S.W. 20TH STREET
(SEE SHEET CU-ST-17B)
STA: 106+60

Hazen

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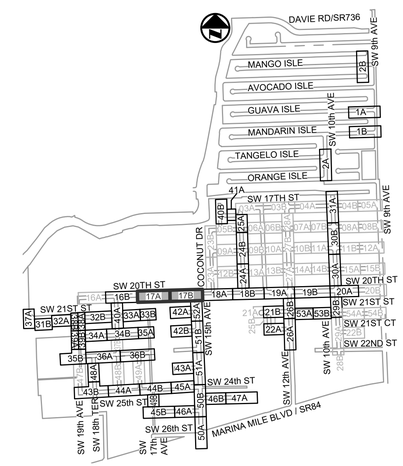

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DRAWN BY: XXX	DATE: 01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

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PUBLIC WORKS DEPARTMENT
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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-17C

TOTAL: 255

CAD FILE: 11868-CU-ST-A

DRAWING FILE NO. 4-142-42

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PLOT DATE: 8/26/2021 1:05 PM BY: MRODRIGUEZ XREFs= .\11868XREFGRAD,.\11868SURV,.\11868topo,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFNOTES,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFLEGEND,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFTITLE,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFLEGEND-PROPA-PROPB-PROPC,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFLEGEND-PROPA-PROPB-PROPC-PROPD-PROPE-PROPF,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFLEGEND-PROPA-PROPB-PROPC-PROPD-PROPE-PROPF-PROPG,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master 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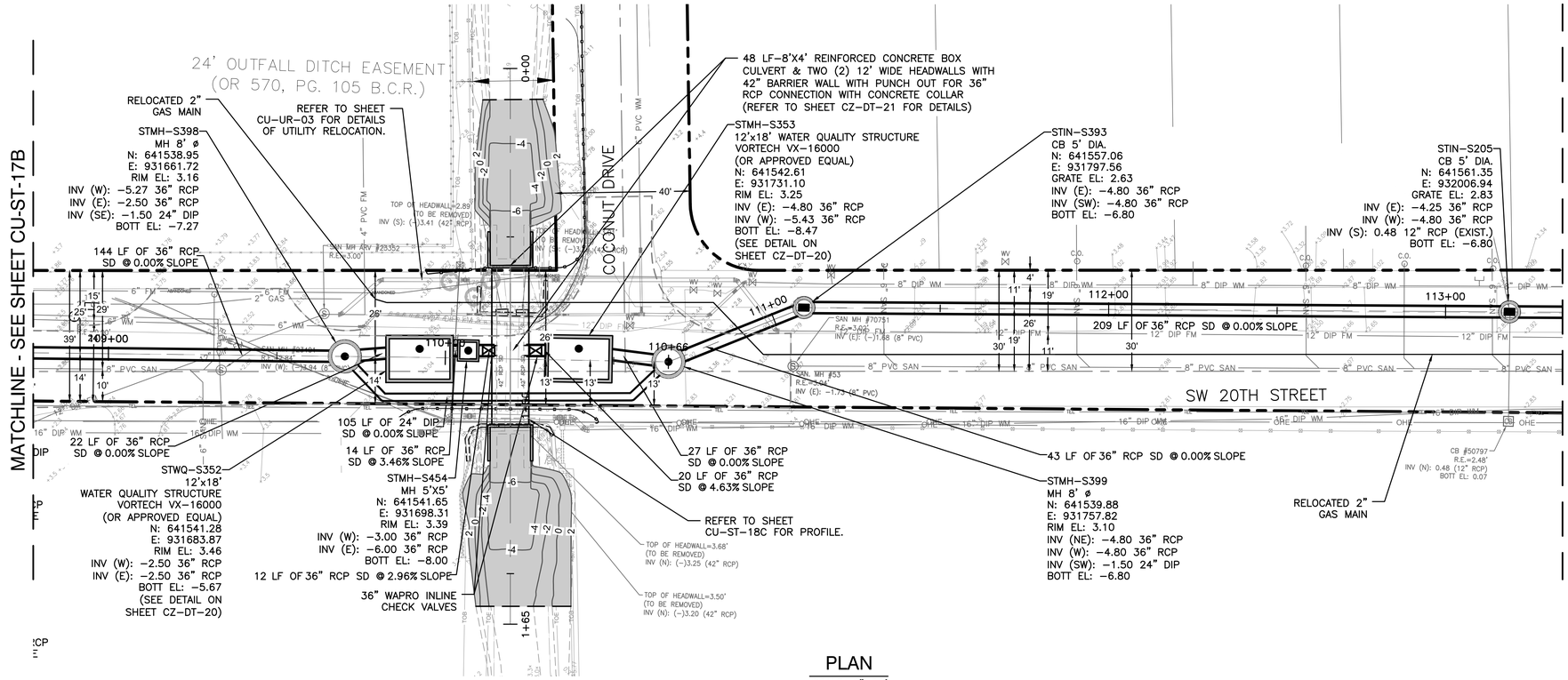

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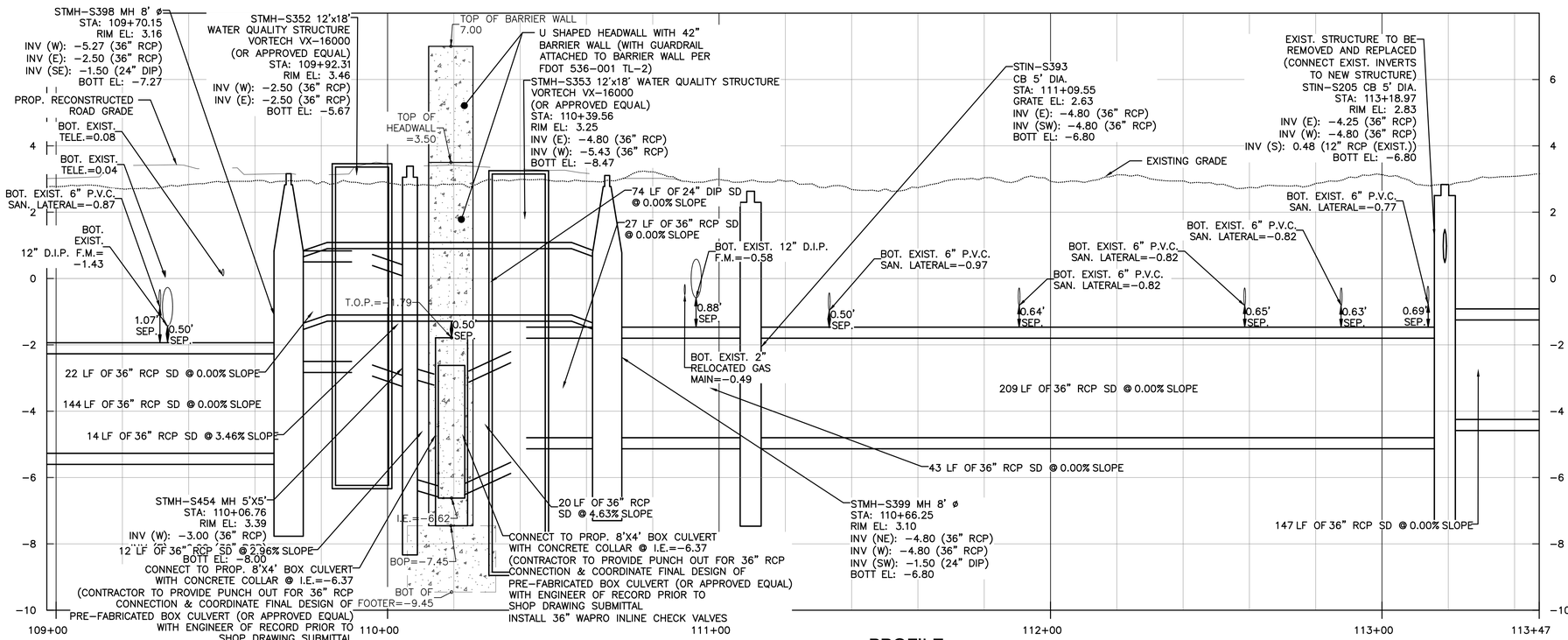

PROFILE

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

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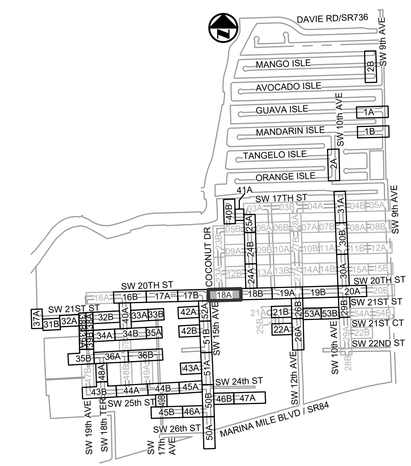

KEY MAP

N.T.S.

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8/26/2021

ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DATE:	DRAWN BY:	DESIGNED BY:	CHECKED BY:	SCALE:	FIELD BOOK:
01/07/2019	XXX	XXX	XXX	1"=20'	XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

CONSTRUCTION SET

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-18A

TOTAL: 255

CAD FILE: 11868-CU-ST-A

DRAWING FILE NO. 4-142-42

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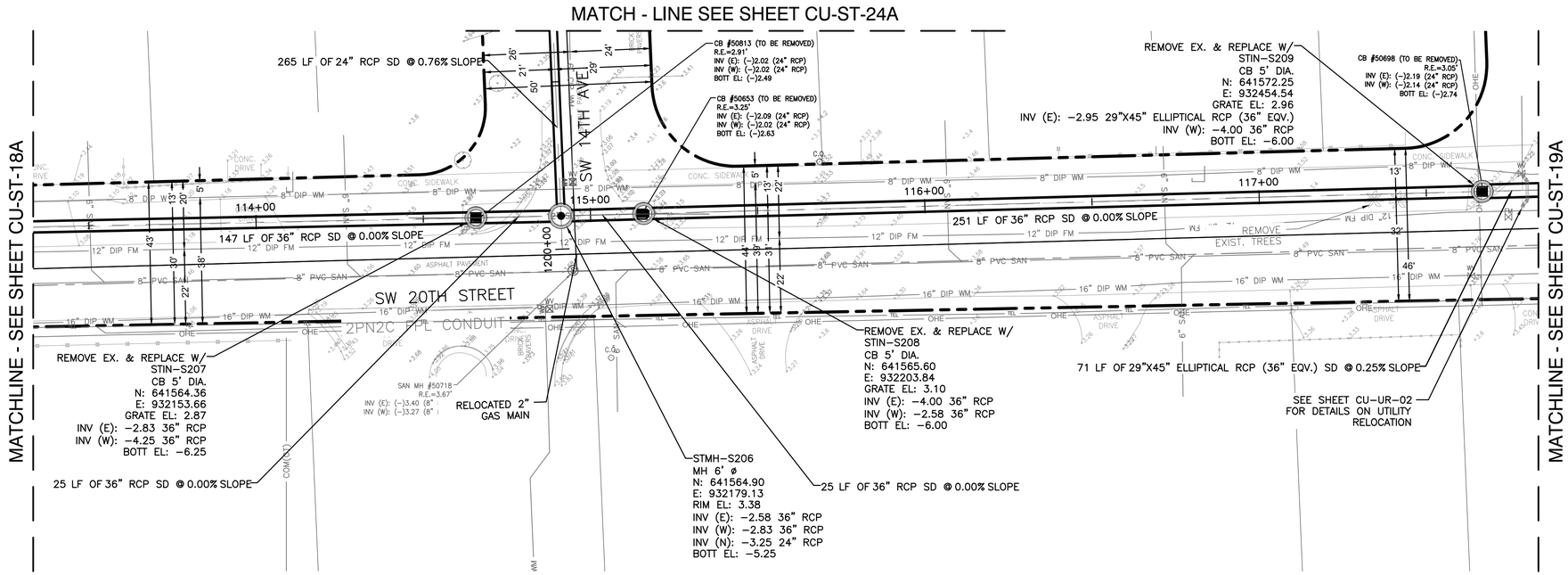
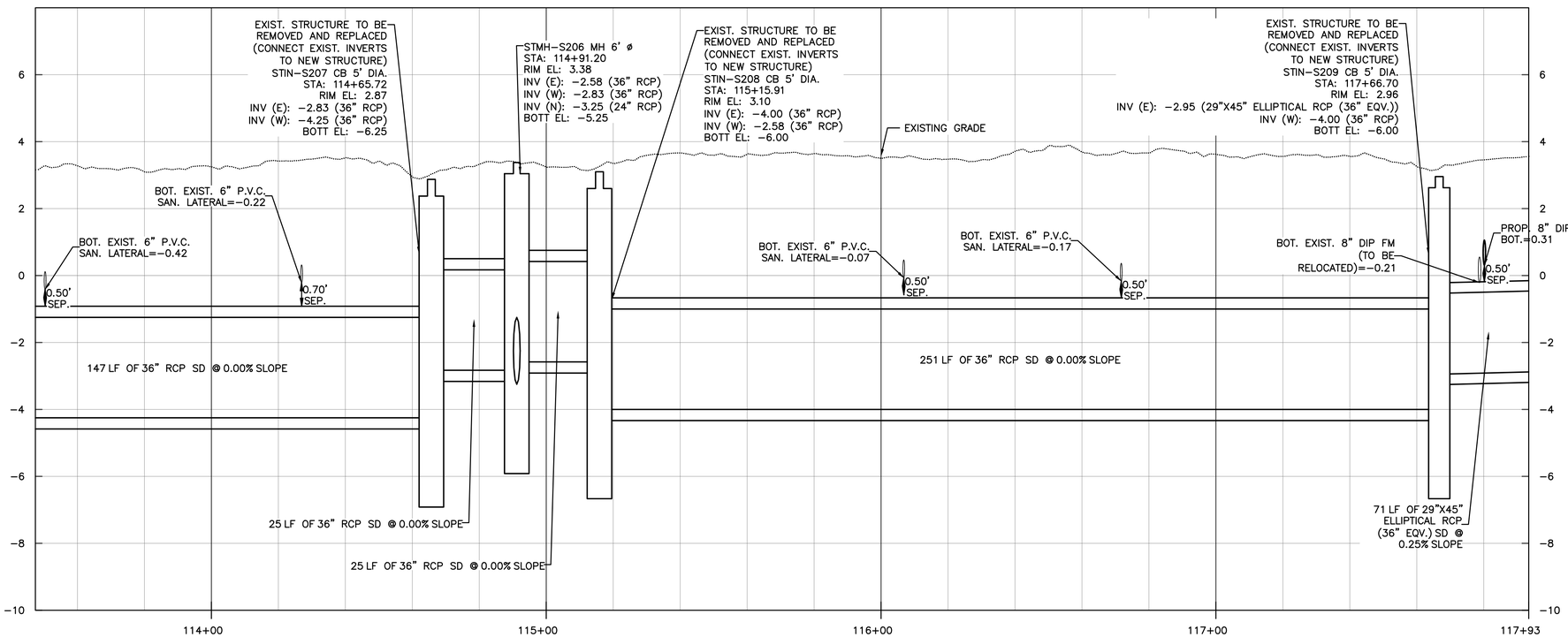
Sunshine811.com



PLAN

SCALE: 1"=20'



PROFILE

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

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Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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01/07/2019	XXX	XXX	XXX	XXXX

SCALE: 1"=20'

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REVISIONS

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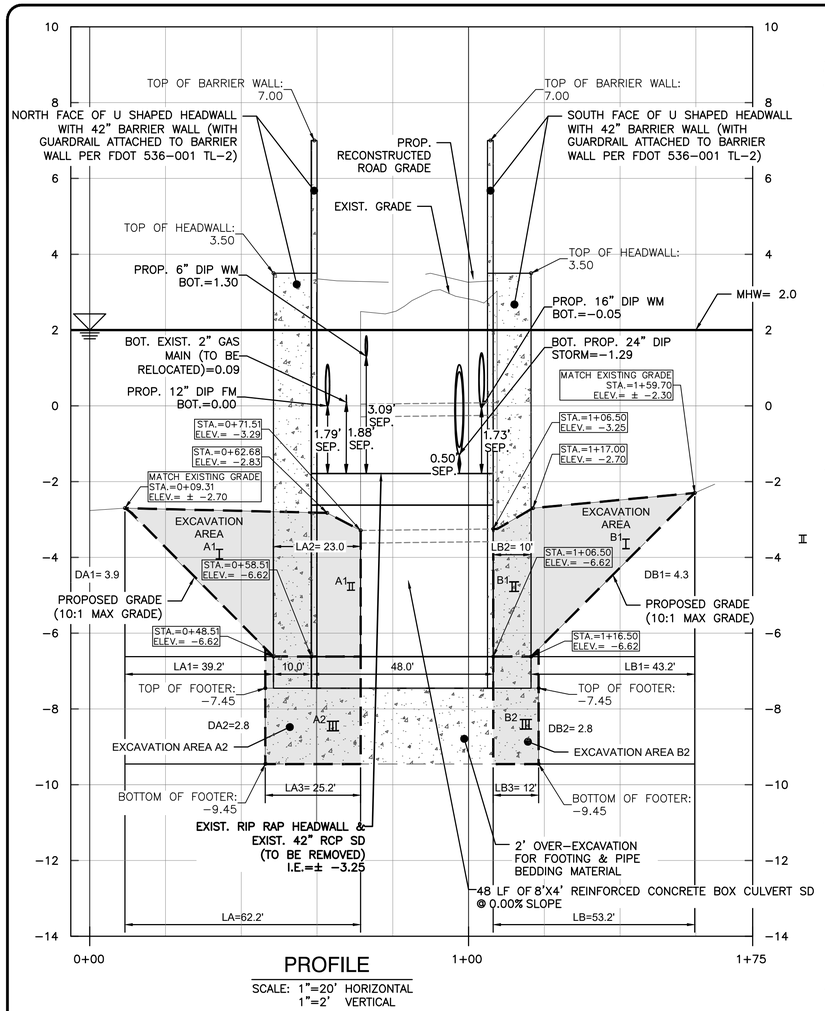
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-18B
TOTAL: 255
CAD FILE: 11868-CU-ST-A
DRAWING FILE NO. 4-142-42



PROFILE

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

S.W. 20TH STREET
(SEE SHEET CU-ST-18A)
STA: 110+20

EXCAVATION VOLUME A1:

I = CROSS SECTIONAL AREA

A1=(I⊿ + II□) X CANAL WIDTH (AVG.)

⊿ I = $\frac{LA1 \times DA1}{2}$ X CANAL WIDTH (AVG.) = $\frac{(39.2' \times 3.9')}{2}$ X 25' = 1911 CF

□ II = (LA2 X DA1) X CANAL WIDTH (AVG.)= (23' X 3.9') X 25' = 2242.5 CF

A1 = 1911 CF + 2243 CF = $\frac{4154\ CF * 1\ CY}{27\ CF}$ = 153.8 CY ≈ **154 CY**

EXCAVATION VOLUME A2:

A2 = III□

□ III = (LA3 X DA2) X CANAL WIDTH (AVG.)

□ III =(25.2' X 2.8') X 25' = 1764 CF = $\frac{1764\ CF * 1\ CY}{27\ CF}$ = 65.3 CY ≈ **66 CY**

TOTAL EXCAVATION VOLUME A = A1 + A2 = 154 CY + 66 CY = 220 CY

EXCAVATION AREA B1:

I = CROSS SECTIONAL AREA

B1 = I⊿ + II□

⊿ I = $\frac{LB1*DB1}{2}$ X CANAL WIDTH (AVG.) = $\frac{(43.2' \times 4.3')}{2}$ X 25' = 2322 CF

□ II = LB2*DB1 X CANAL WIDTH (AVG.)= (10' X 4.3') X 25' = 1075 CF

B1 = 2322 CF + 1075 CF = $\frac{3397\ CF * 1\ CY}{27\ CF}$ = 125.8 CY ≈ **126 CY**

EXCAVATION AREA B2 :

B2 = III□

□III = (LB3 X DB2) X CANAL WIDTH (AVG.)

□III = (12' X 2.8') X 25' = 840 CF = $\frac{840\ CF * 1\ CY}{27\ CF}$ = 31.1 CY ≈ **32 CY**

TOTAL EXCAVATION VOLUME B = B1 + B2 = 126 CY + 32 CY = 158 CY

TOTAL EXCAVATION VOLUME:

A+B = 220 CY + 158 CY = 378 TOTAL CY

TOTAL MANGROVE CANOPY DISTURBED:

3,006 SF

Hazen

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HOLLYWOOD, FLORIDA 33021

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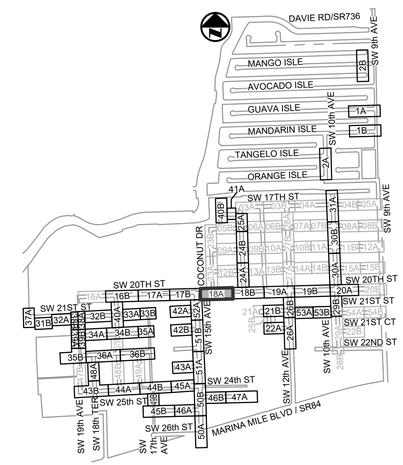

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DRAWN BY: XXX
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SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

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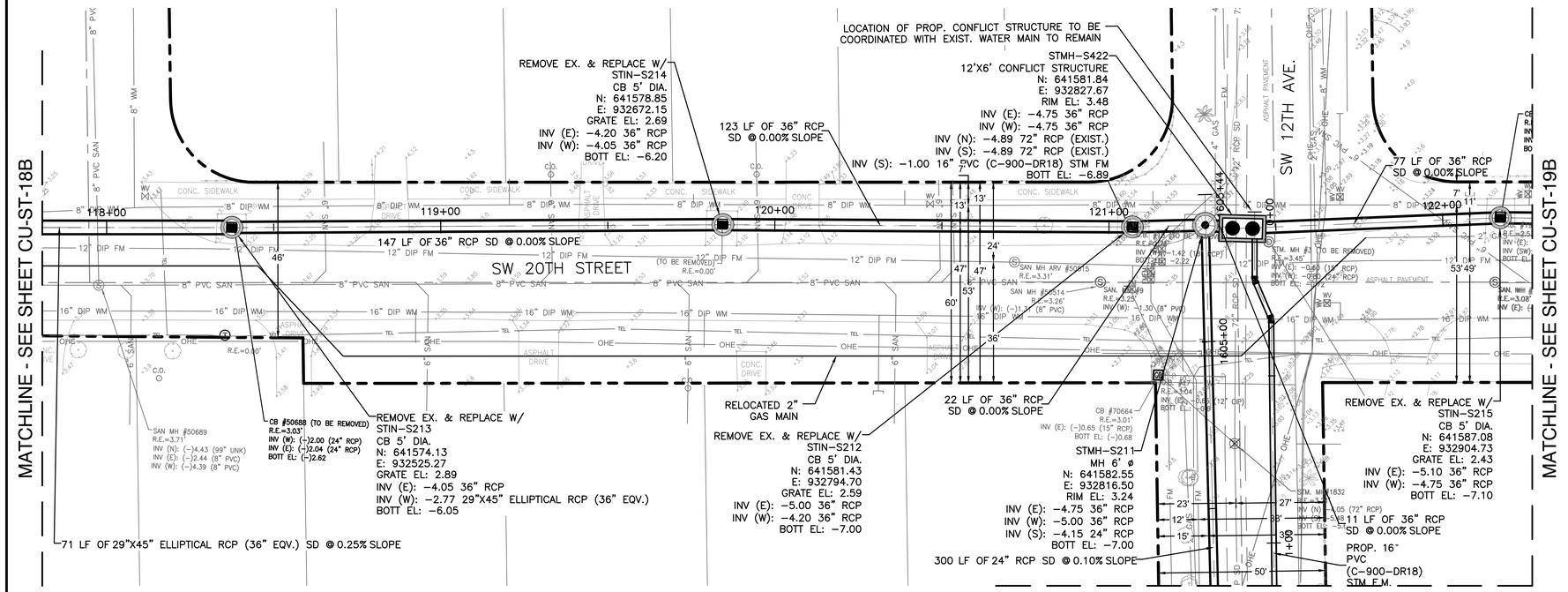
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-18C

TOTAL: 255

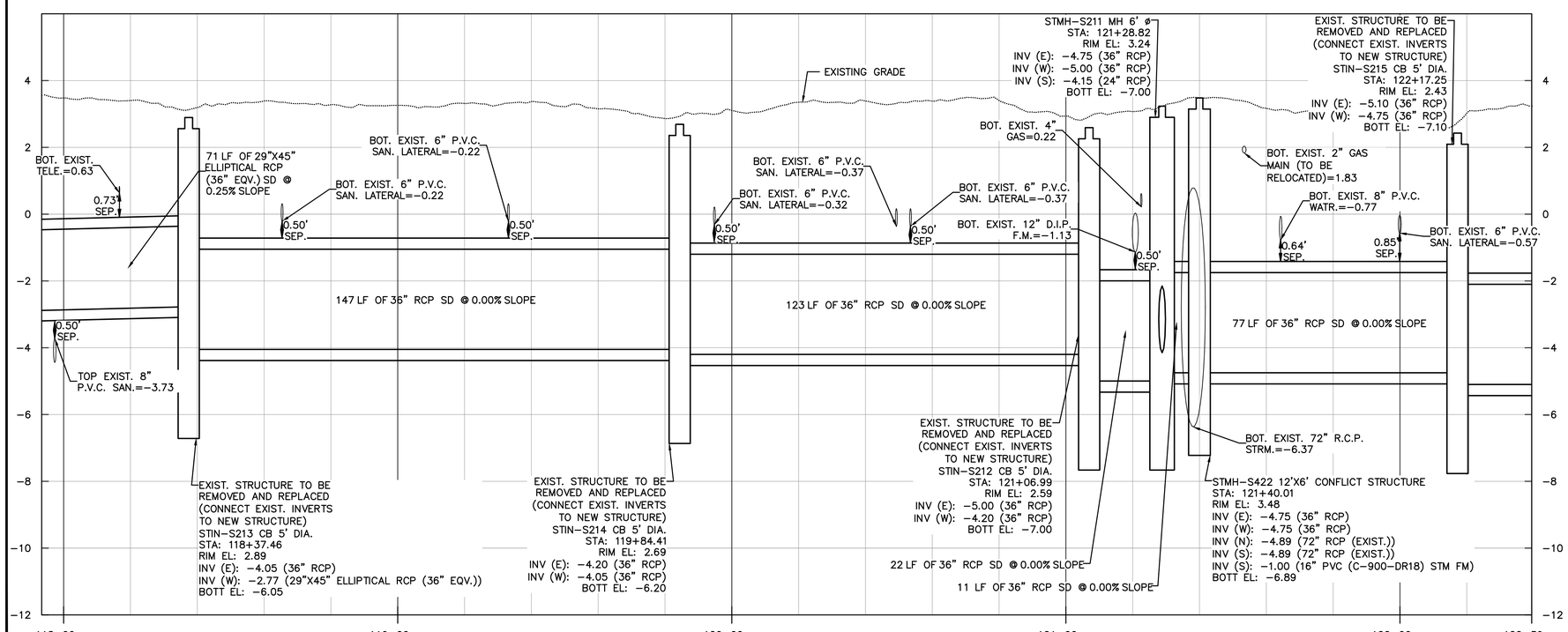
CAD FILE: 11868-CU-ST-A

DRAWING FILE NO. 4-142-42



PLAN

SCALE: 1"=20'



PROFILE

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

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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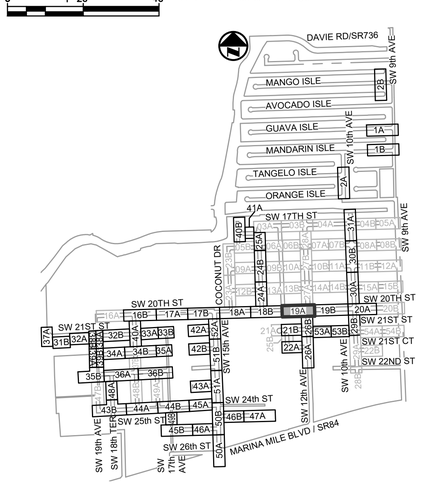

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DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
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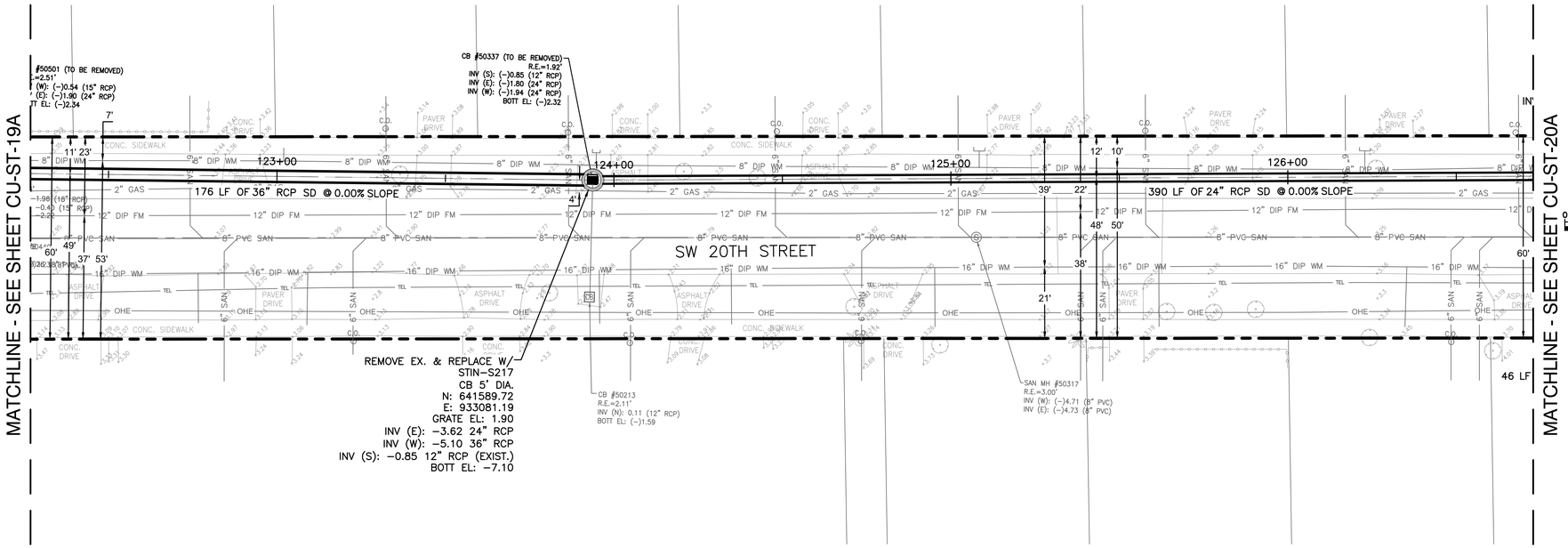

PLAN

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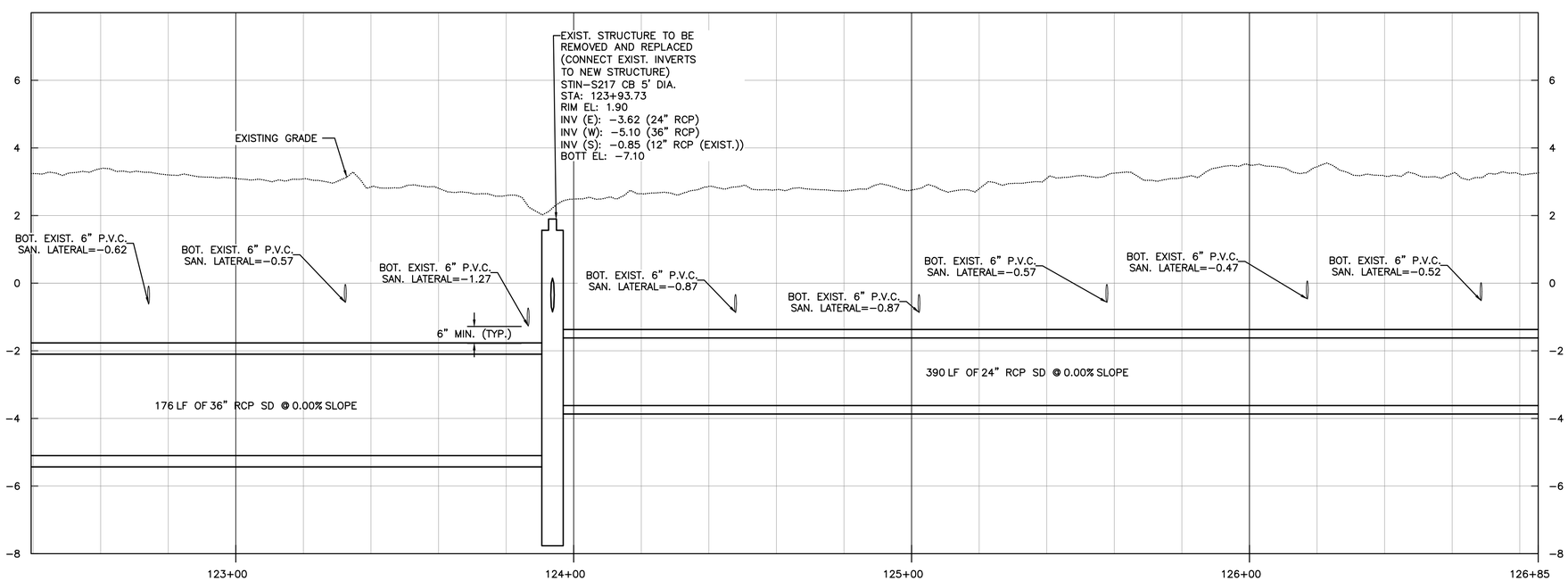

PROFILE

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

Hazen

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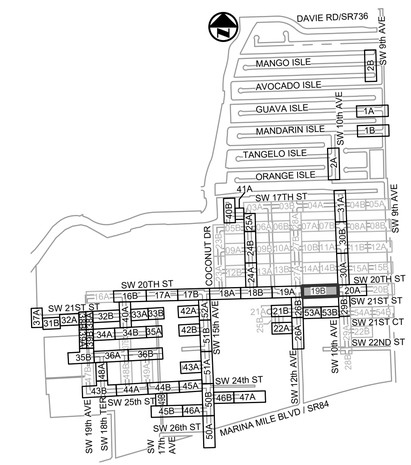

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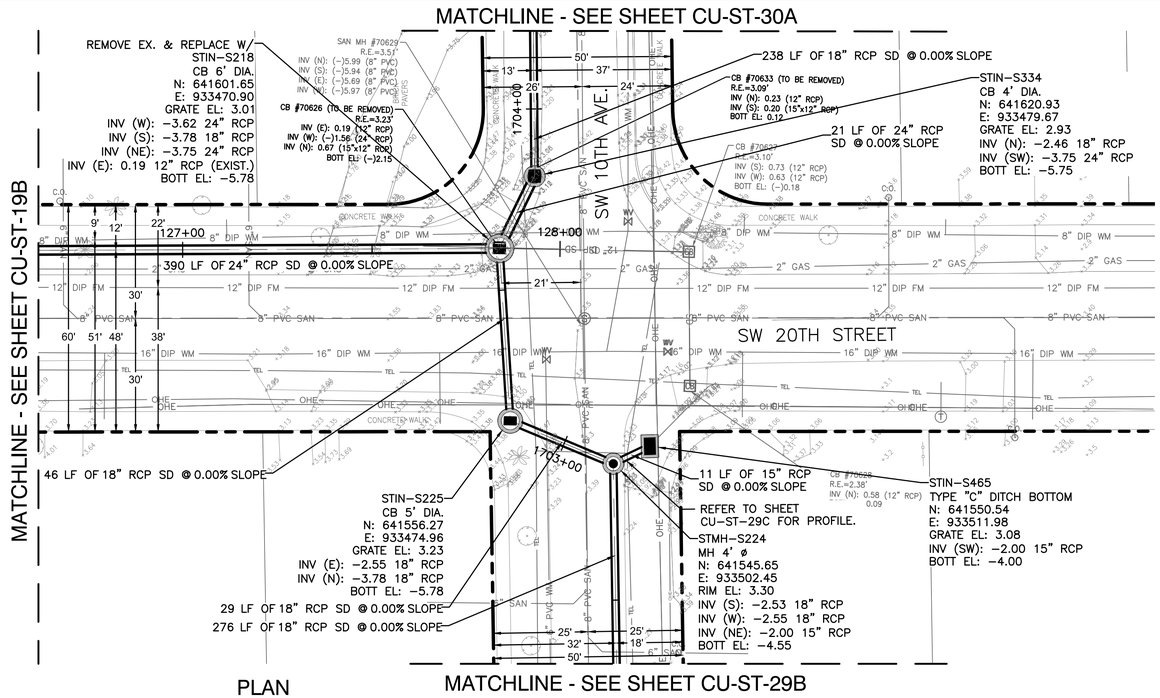

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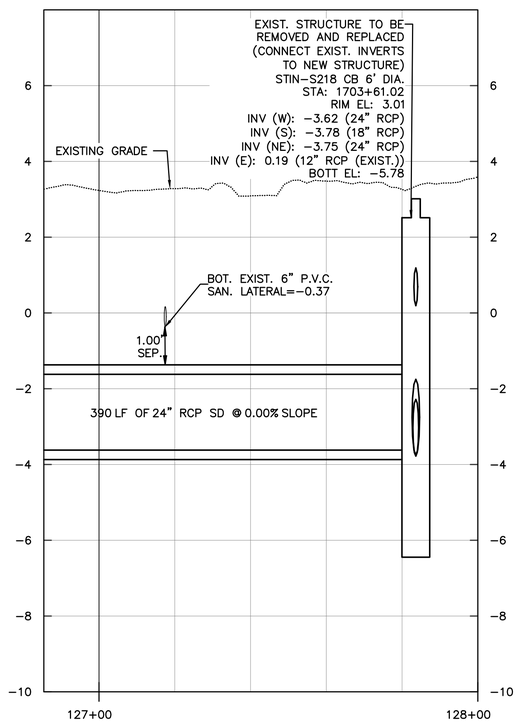

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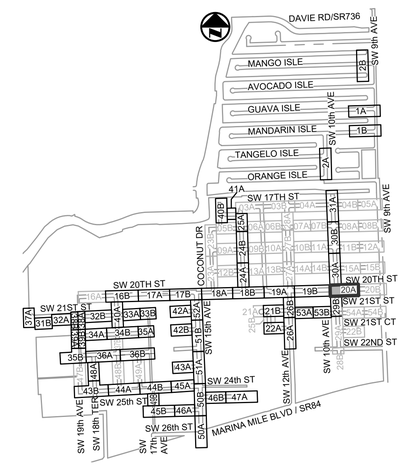

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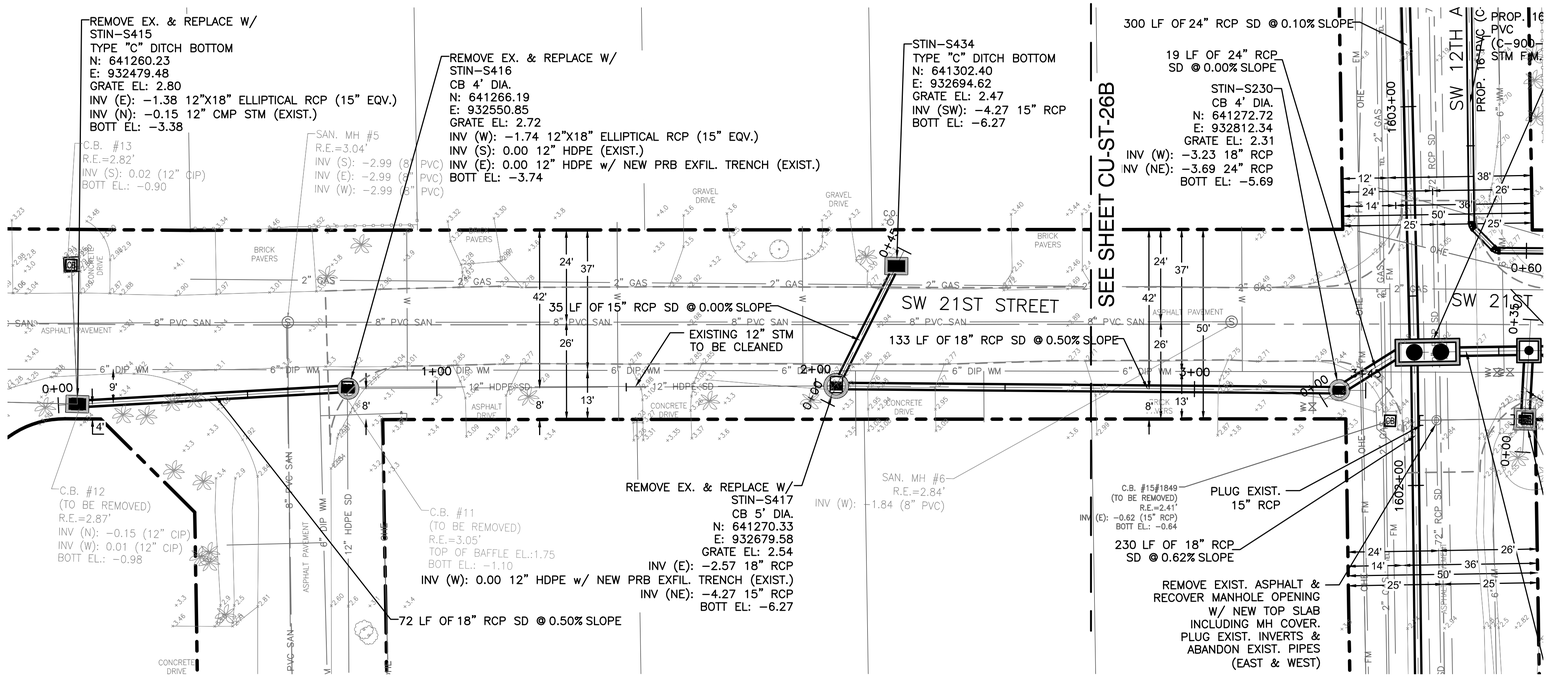

PLAN

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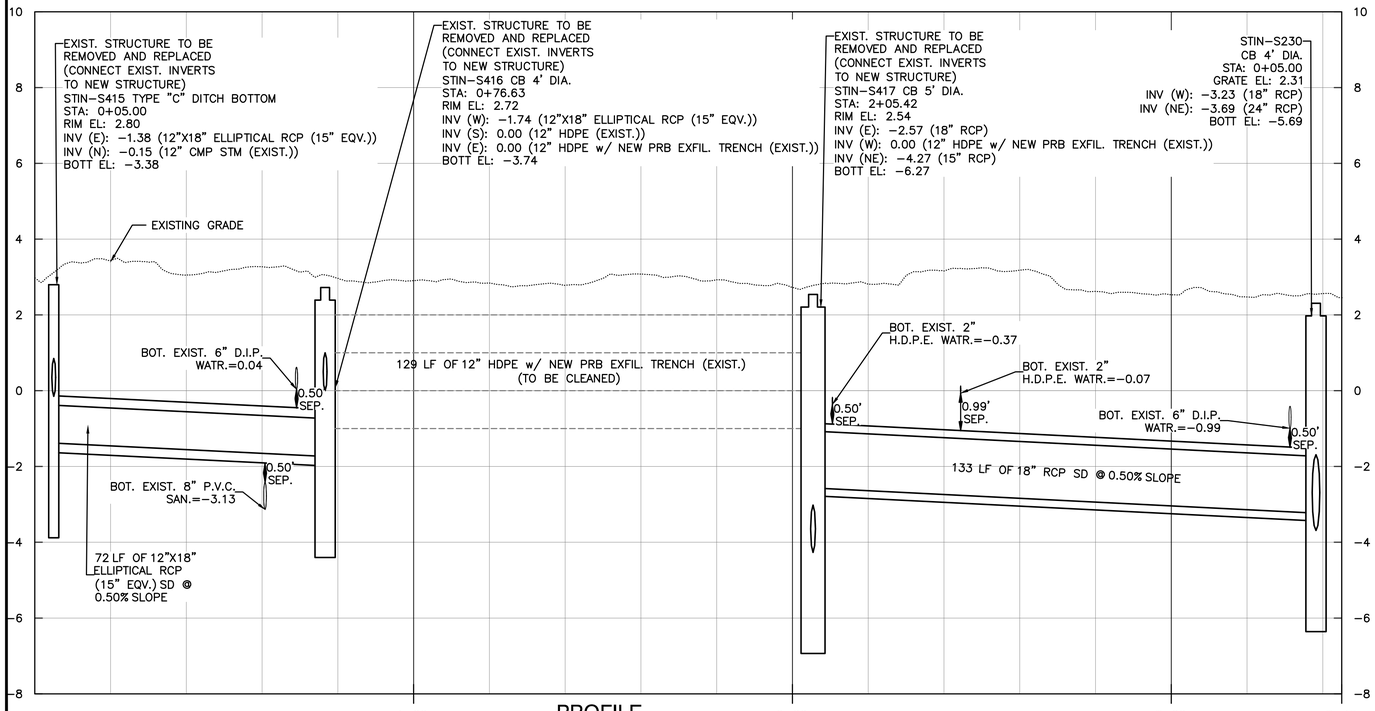

PROFILE

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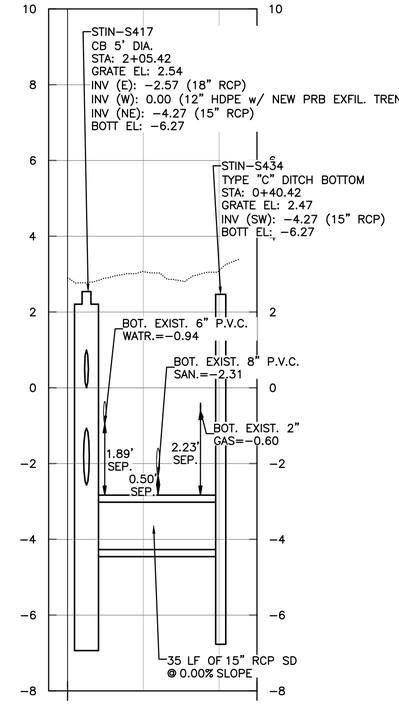

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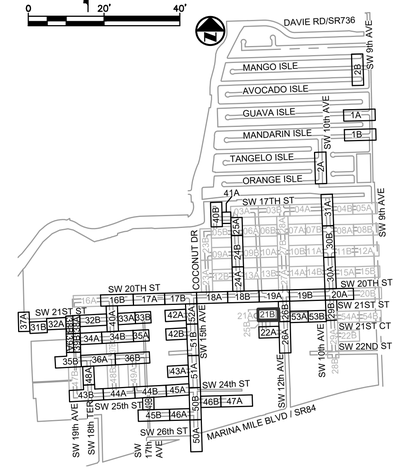

KEY MAP

N.T.S.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

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8/26/2021

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CONSTRUCTION SET

ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY:	DATE:	DESIGNED BY:	SCALE:	CHECKED BY:	FIELD BOOK:
XXX	01/07/2019	XXX	1"=20'	XXX	XXXX

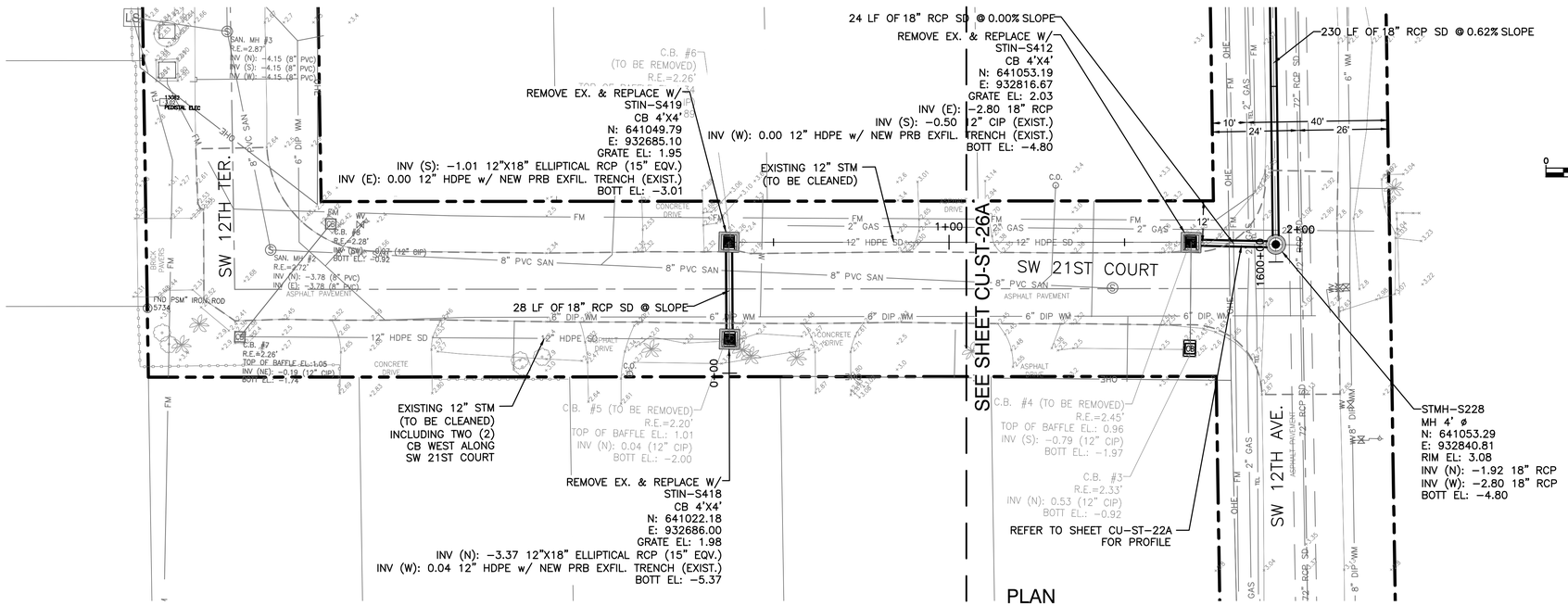
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-21B
TOTAL: 255
CAD FILE: 11868-CU-ST-A
DRAWING FILE NO. 4-142-42



PLAN

SCALE: 1"=20'

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

CRAVEN · THOMPSON AND ASSOCIATES, INC.
ENGINEERS · PLANNERS · SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL.: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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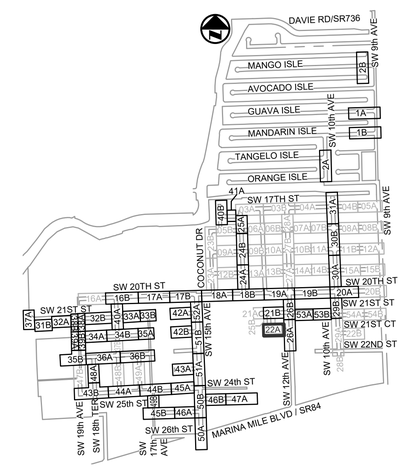
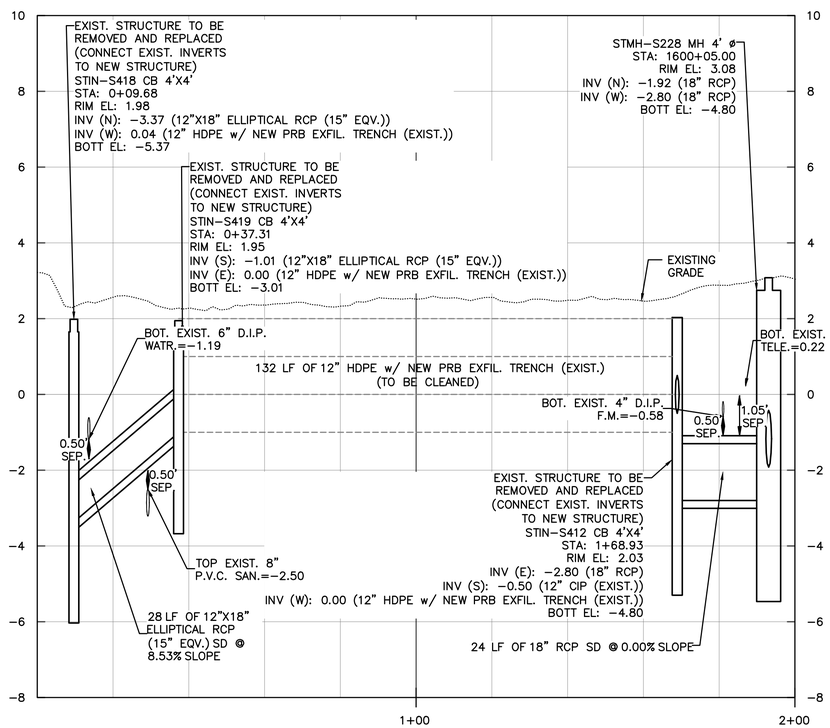


KEY MAP

N.T.S.



PROFILE

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

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DRAWN BY: XXX	DATE: 01/07/2019
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FIELD BOOK: XXXX	

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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

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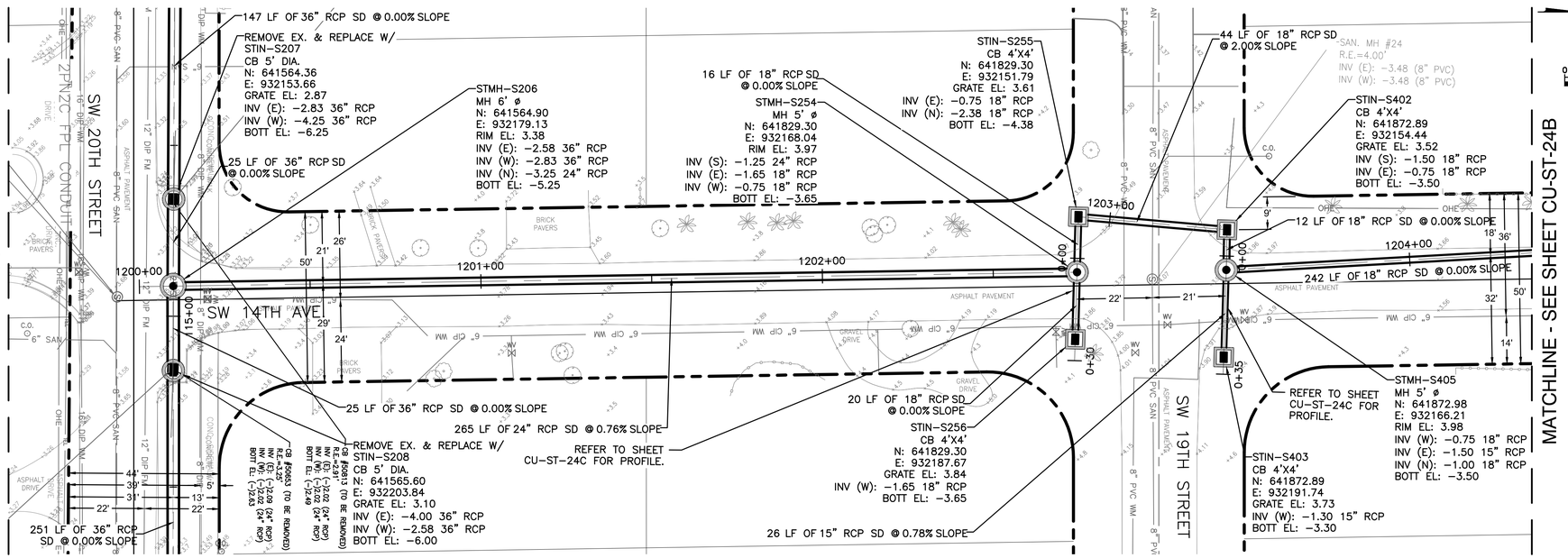
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-22A

TOTAL: 255

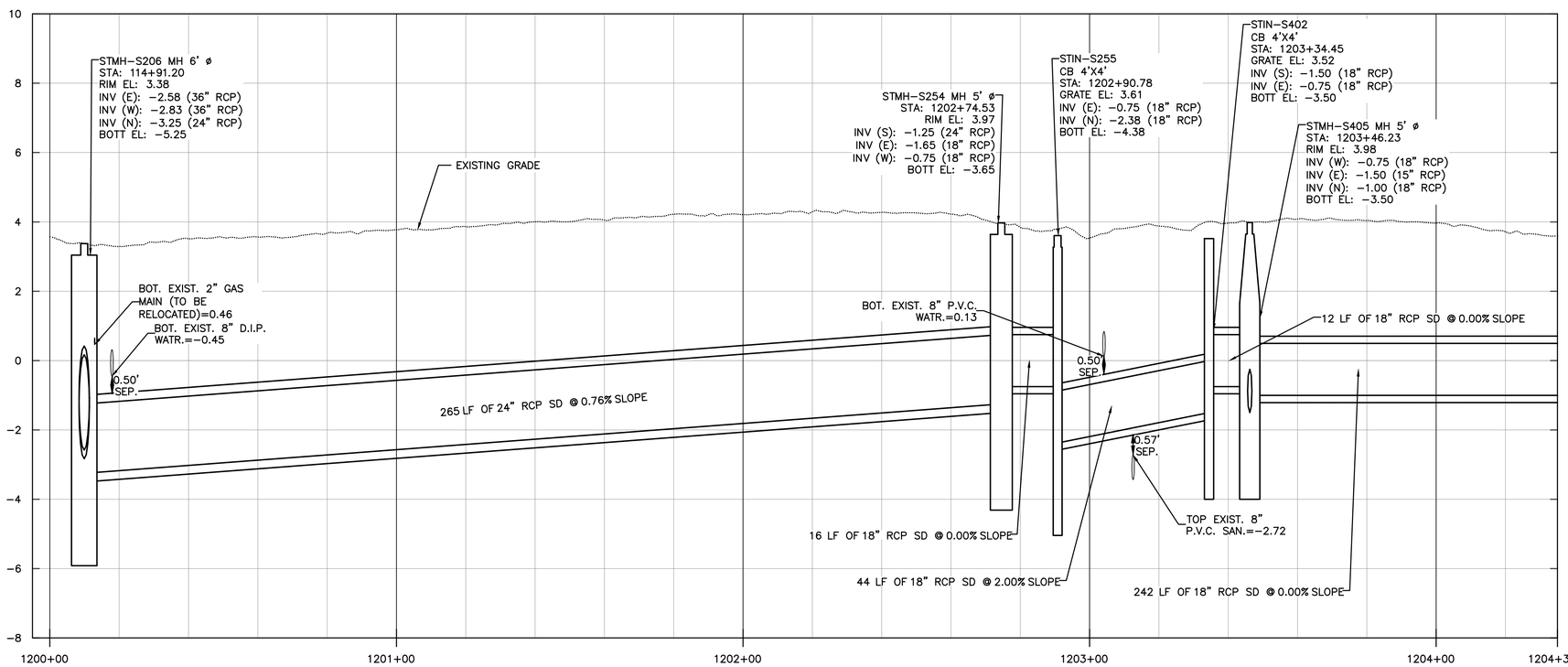
CAD FILE: 11868-CU-ST-A

DRAWING FILE NO. 4-142-42



PLAN

SCALE: 1"=20'



PROFILE

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

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

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
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Certificate of Authorization No: 2771

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KEY MAP

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DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

CITY OF FORT LAUDERDALE
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ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-24A
TOTAL: 255
CAD FILE: 11868-CU-ST-A
DRAWING FILE NO. 4-142-42

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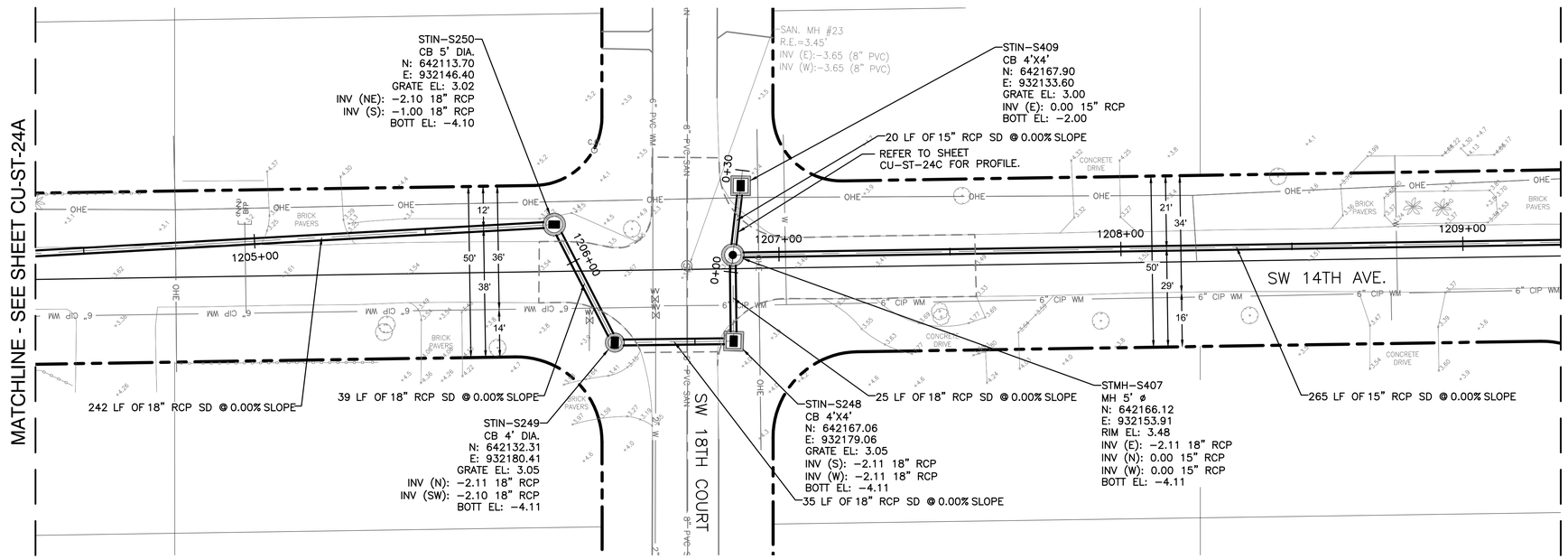
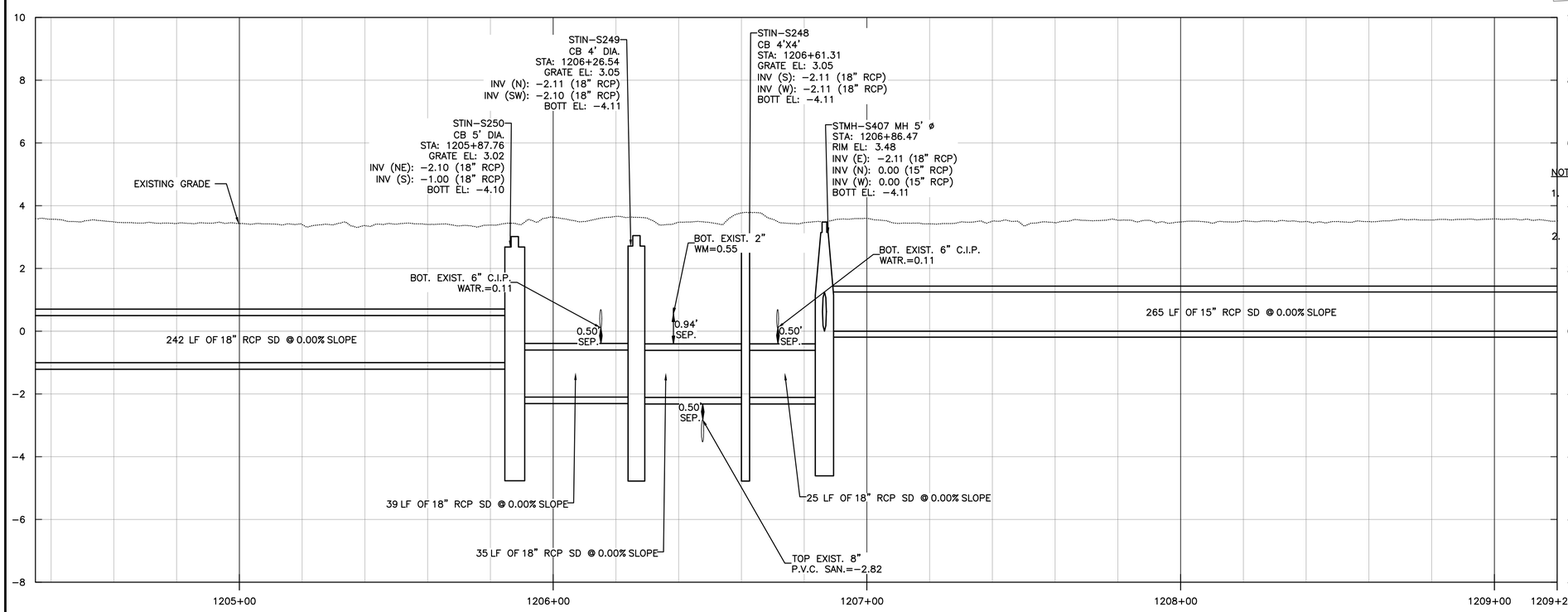


PLAN

SCALE: 1"=20'



PROFILE

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

Hazen

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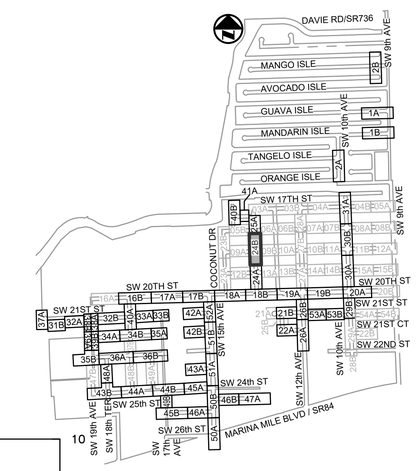

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TEL: 954-987-0066
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DRAWN BY: XXX	DATE: 01/07/2019
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FIELD BOOK: XXXX	

CITY OF FORT LAUDERDALE
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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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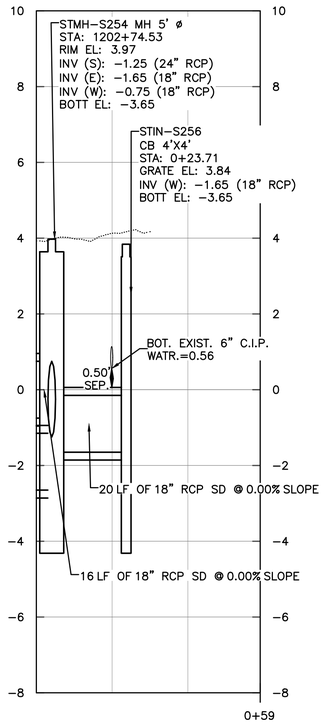
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-24B

TOTAL: 255

CAD FILE: 11868-CU-ST-A

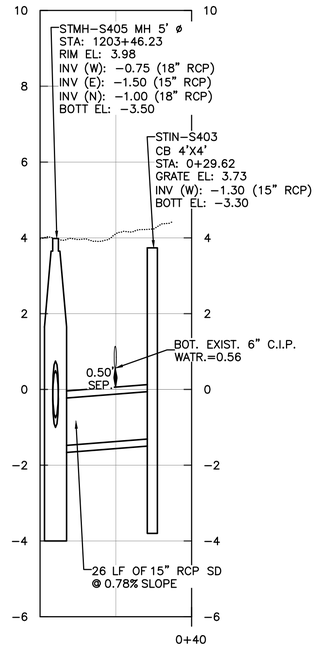
DRAWING FILE NO. 4-142-42



PROFILE

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

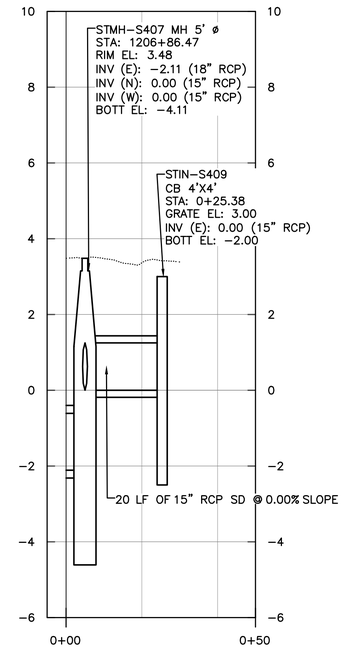
S.W. 14TH AVENUE
(SEE SHEET CU-ST-24A)
STA: 1202+70



PROFILE

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

S.W. 14TH AVE.
(SEE SHEET CU-ST-24A)
STA: 1203+50



PROFILE

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

S.W. 18TH CT.
(SEE SHEET CU-ST-24B)
STA: 1206+90

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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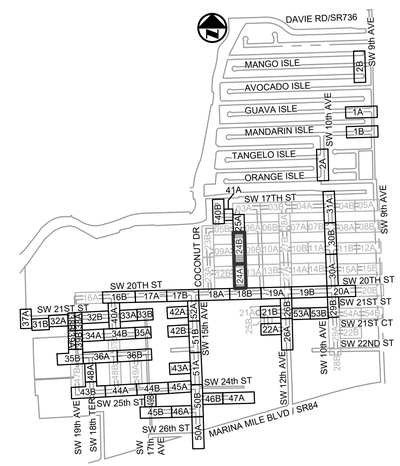

KEY MAP

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FAX: 954-987-2949

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DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

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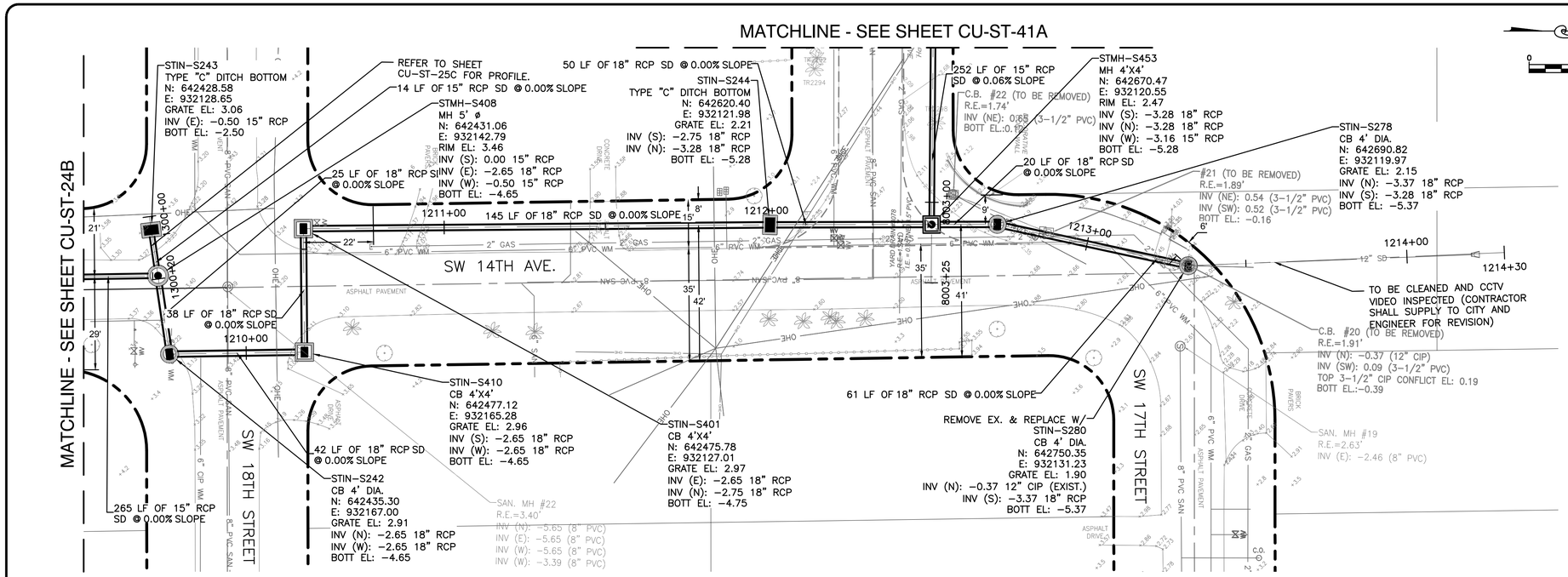
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

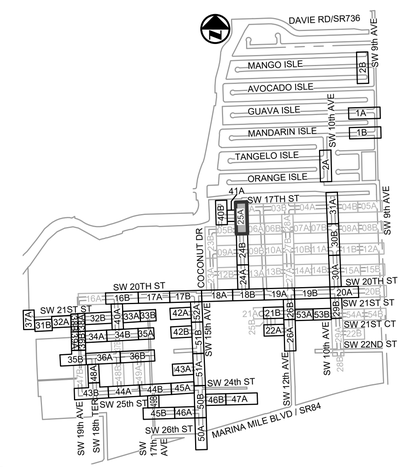
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-24C
TOTAL: 255
CAD FILE: 11868–CU–ST–A
DRAWING FILE NO. 4–142–42



PLAN

SCALE: 1"=20'



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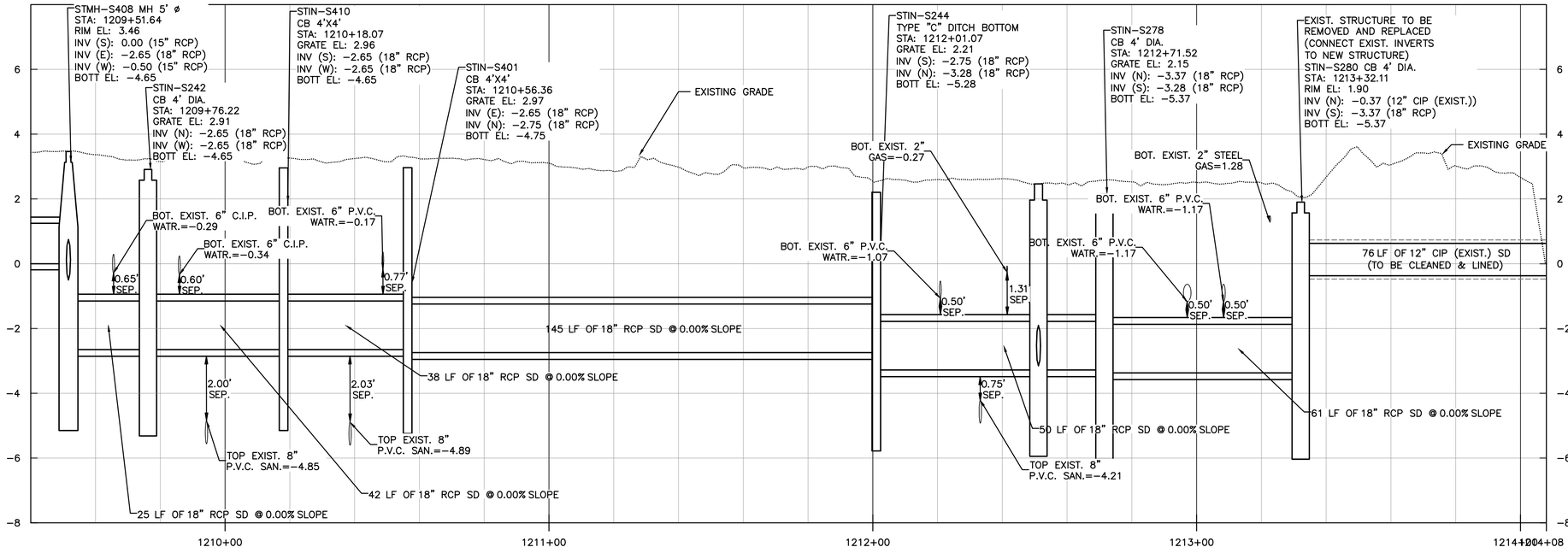

PROFILE

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

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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

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RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-25A
TOTAL: 255
CAD FILE: 11868-CU-ST-A
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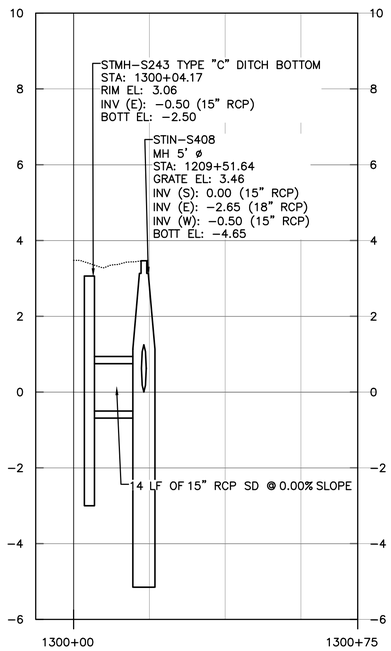

PROFILE

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

S.W. 14TH ST.
(SEE SHEET CU-ST-25A)
STA: 1209+50

Hazen

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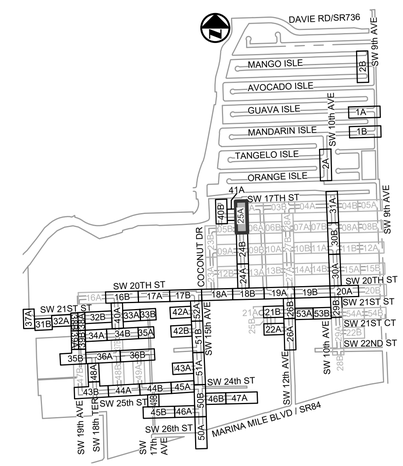

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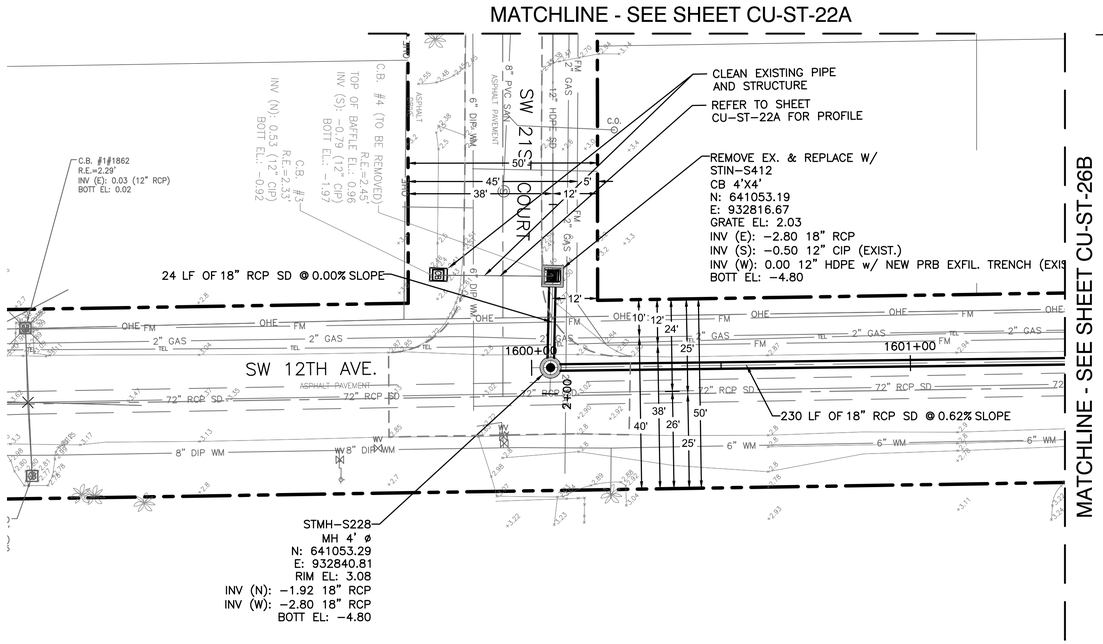
SHEET NO.
CU-ST-25C

TOTAL: 255

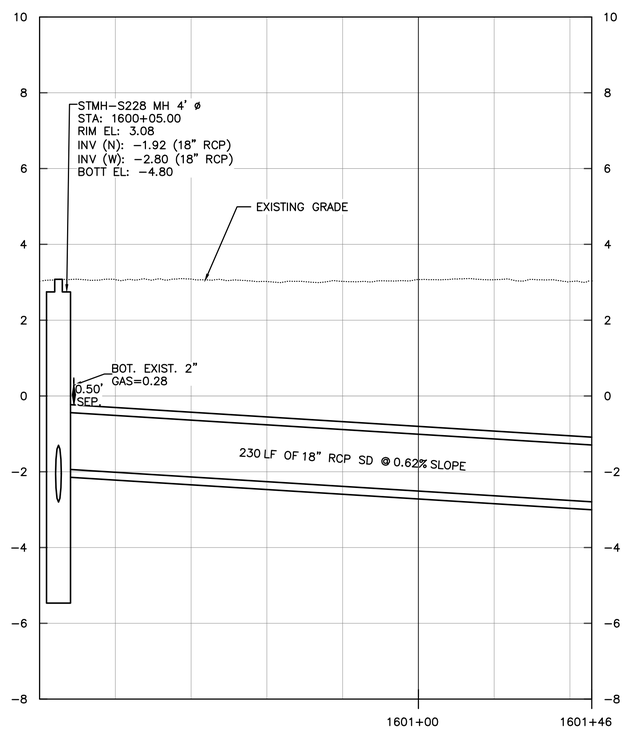
CAD FILE: 11868-CU-ST-A

DRAWING FILE NO. 4-142-42



PLAN

SCALE: 1"=20'



PROFILE

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

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

CRAVEN · THOMPSON AND ASSOCIATES, INC.
ENGINEERS · PLANNERS · SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL.: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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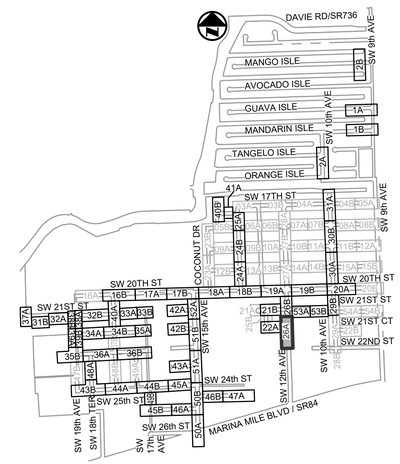


KEY MAP

N.T.S.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

Patrick J. Gibney, State of Florida, Professional Engineer, License No. 49428 This item has been electronically signed and sealed by Patrick J. Gibney on the date indicated here using an SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.
8/26/2021

CONSTRUCTION SET

ENGINEER: PATRICK J. GIBNEY
REG. No: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY:	DATE:
XXX	01/07/2019
DESIGNED BY: XXX	SCALE: 1"=20'
CHECKED BY: XXX	
FIELD BOOK: XXXX	

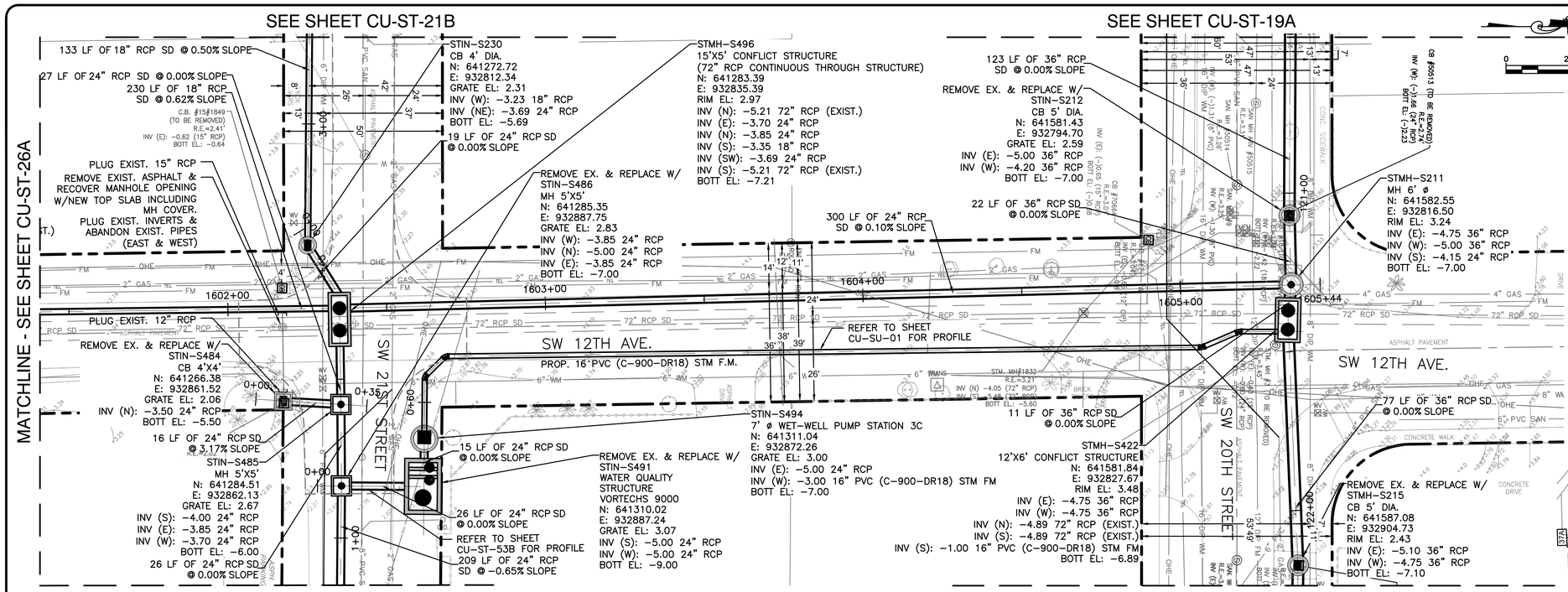
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-26A
TOTAL: 255
CAD FILE: 11868-CU-ST-A
DRAWING FILE NO. 4-142-42



PLAN

SCALE: 1"=20'

KEY MAP

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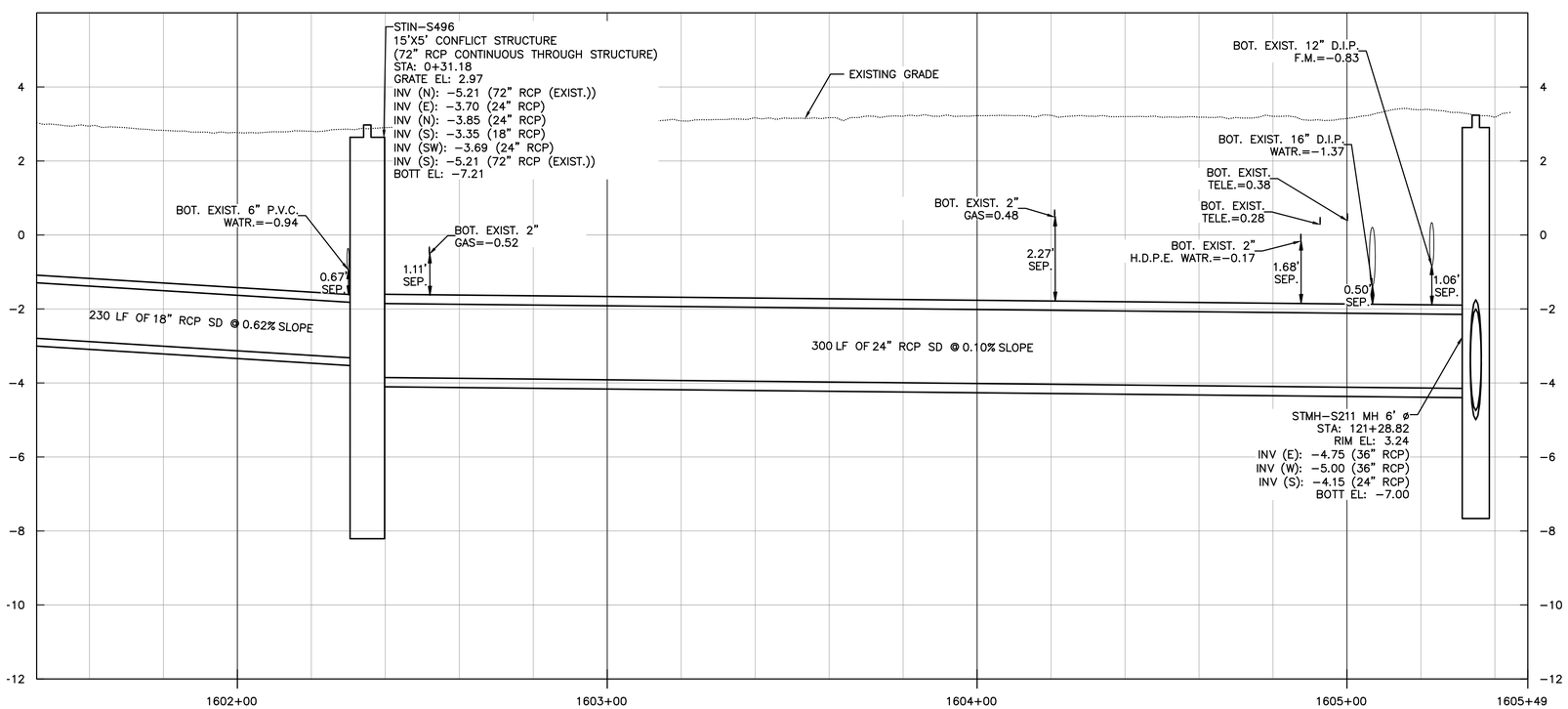

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