



# New Fire Station #50 Coconut Creek, Florida

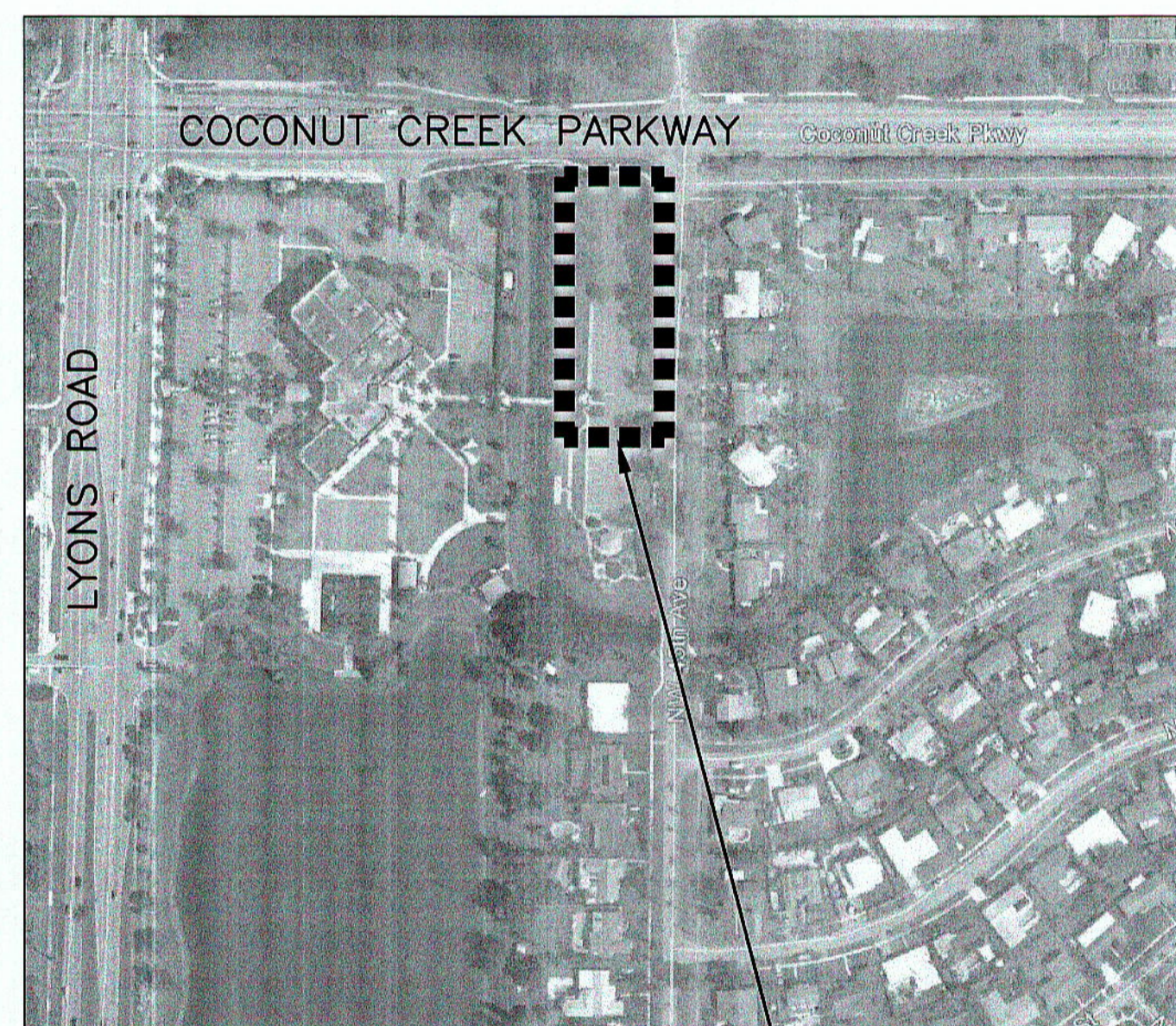
## SITE SUBMITTAL SET

February 7, 2014

Anticipated Project Start Time = FALL 2014  
Anticipated Project Completion Time = FALL 2015



Perspective View



Location Plan

SITE LOCATION

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- L2.01 Landscape Plan
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- L2.03 Landscape Details
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- L3.03 Irrigation Specifications

### SITE LIGHTING

- E1.1 LEED Site Photometric Plan
- E1.2 Site Photometric Plan

NO. REVISION	DATE
SITE SUBMITTAL	2-7-2014
DRC COMMENTS	3-17-14
DRC COMMENT#2	4-17-14

CONSULTANT:

PROPOSED NEW FIRE STATION 50  
NW 45 AVE. & COCONUT CREEK PARKWAY  
COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.

4316 WEST BROWARD BOULEVARD  
PLANTATION, FLORIDA 33317  
PHONE: (954) 792-8525 FAX: (954) 337-0359  
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DRAWING TITLE:  
Cover Sheet

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SCALE		AS NOTED
PROJECT NO.		12208
SHEET:		

COV  
of:

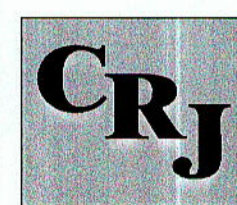
CHRIS P. ZIMMERMAN, A.I.A.  
REGISTERED ARCHITECT NO. 10,995  
STATE OF FLORIDA  
DATE: 7-24-14



**CHEN-MOORE**  
& ASSOCIATES  
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CERTIFICATES OF AUTHORIZATION  
EB0004593 LC26000425



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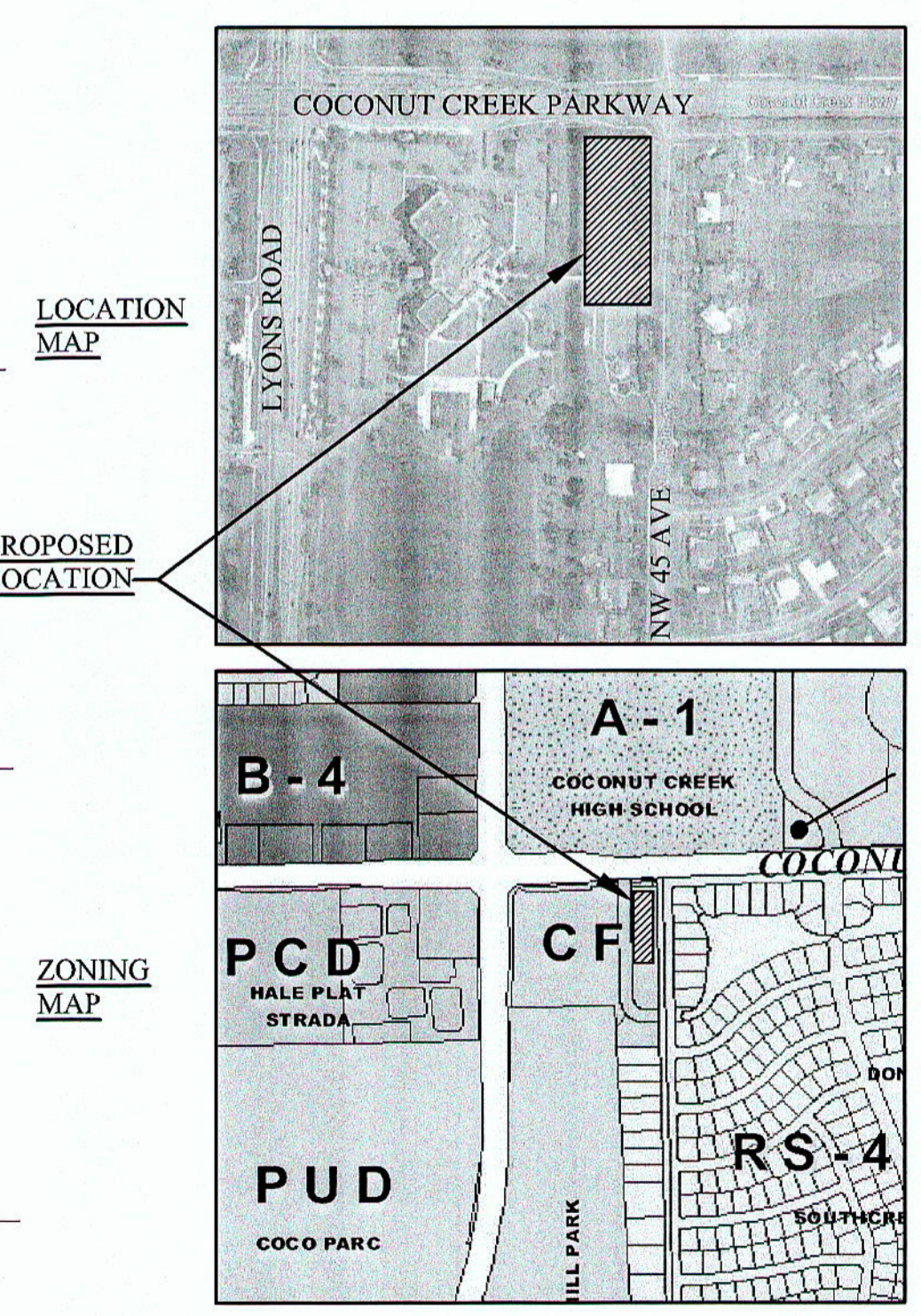
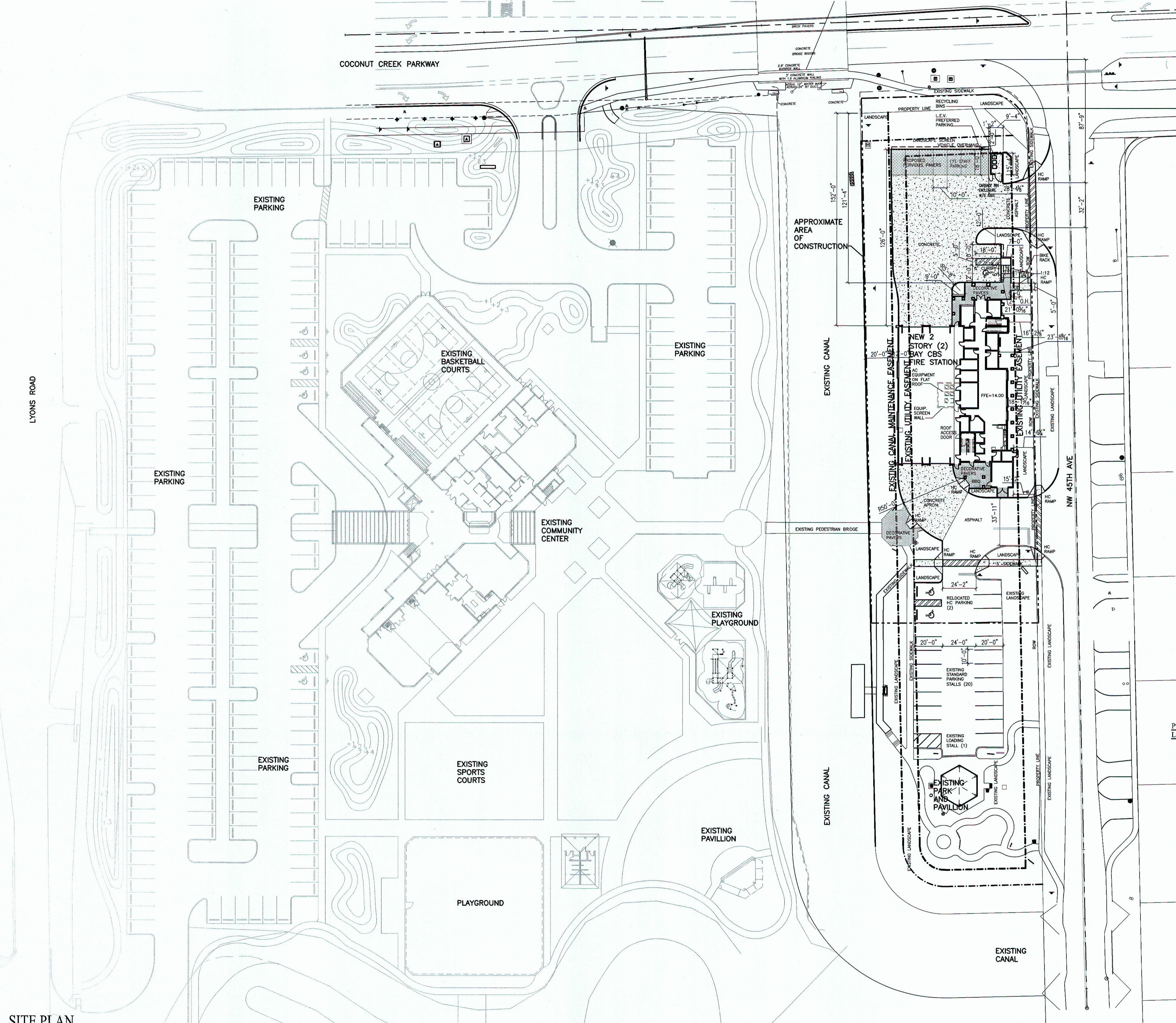


**CRJ & Associates, Inc.**  
Consulting Engineers and Planners  
Florida Authorization # 0008245  
2999 Shering Road, Suite B-201, Ft. Lauderdale, Florida 33312  
Tel. (954) 239-4330 - Fax (954) 239-4331



1407 West Newport Center Drive  
Deerfield, Florida 33442  
Phone 954.949.2200 Fax 954.949.2201  
engineering@kammconsulting.com  
Certification of Authorization #1689

SITE DATA:	EXISTING		PROPOSED	
	S.F.	% OF SITE	S.F.	% OF SITE
EXISTING ZONING	OF		OF	
EXISTING LAND USE	OFFICE PROFESSIONAL		OFFICE PROFESSIONAL	
SITE AREA (GROSS)	357,327 SF	8.5 ACRES	357,327 SF	8.5 ACRES
BUILDING COVERAGE:				
COMMUNITY CENTER	25,347		25,347	
RESTROOM BUILDING	805		805	
PAVILION 1	538		538	
PAVILION 2	357		357	
PAVILION 3	546		546	
NEW FIRE STATION (FOOTPRINT)	---		8,585	
TOTAL BUILDING COVERAGE	27,593	7.7%	36,178	10%
V U AREA + GRASS PARKING	121,750	34.2%	115,755	32.3%
JOGGING PATH	14,154	3.9%	14,154	3.9%
PAVED AREA (SIDEWALKS, SPORTS CT, SKATE PARK, PLAY AREAS)	56,378	15.7%	57,567	16.1%
LANDSCAPE/OPEN SPACE	137,454	38.4%	132,449	37.7%
TOTAL PERVIOUS AREA	137,454	38.5%	132,449	37.7%
TOTAL IMPERVIOUS AREA	219,873	61.5%	224,878	62.3%
PARKING DATA	CALCULATION	# OF SPACES	PROPOSED CALCULATION	# OF SPACES
GYMNASIUM	90 SEATS / 5 40 USERS / 2	20		20
COMM. ROOM	3,142.70 SF			
PUBLIC LOUNGE	578.70 SF			
SENIOR LOUNGE	1,489.00 SF			
TEEN ACTIVITY	1,400.40 SF			
CLASS ROOM	2,472.70 SF			
FITNESS ROOM	1,492.80 SF			
TOTAL	10,576.30 SF/200	53		53
NEW FIRE STATION	---	---	9 DORMS + DISP	10
OFFICE/KITCHEN	2,887.40 SF /300	10		10
JOGGING TRAIL	14,154.00SF /5,000	3		3
PASSIVE AREA A	47,531.00SF /5,000	10		10
PASSIVE AREA B	17,407.00SF /5,000	4		4
TOTAL PARKING SPACES REQ.		119	PROPOSED TOTAL PARKING SPACES REQ.	129
TOTAL PARKING SPACES PROVIDED		300	PROPOSED TOTAL PARKING SPACES PROVIDED	259
TOTAL HC PARKING SPACES REQ.		8		8
TOTAL HC PARKING SPACES PROVIDED		8		8



SITE PLAN

CHRIS P. ZIMMERMAN, A.I.A.  
 REGISTERED ARCHITECT NO. 10,995  
 STATE OF FLORIDA

DATE: 4-24-14  
 SCALE: 1/32" = 1'-0"

PROPOSED NEW FIRE STATION 50  
 NW 45 AVE.  
 NW 45 AVE. & COCONUT CREEK PARKWAY  
 COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.  
 816 WEST BROWARD BOULEVARD  
 FORT LAUDERDALE, FL 33304  
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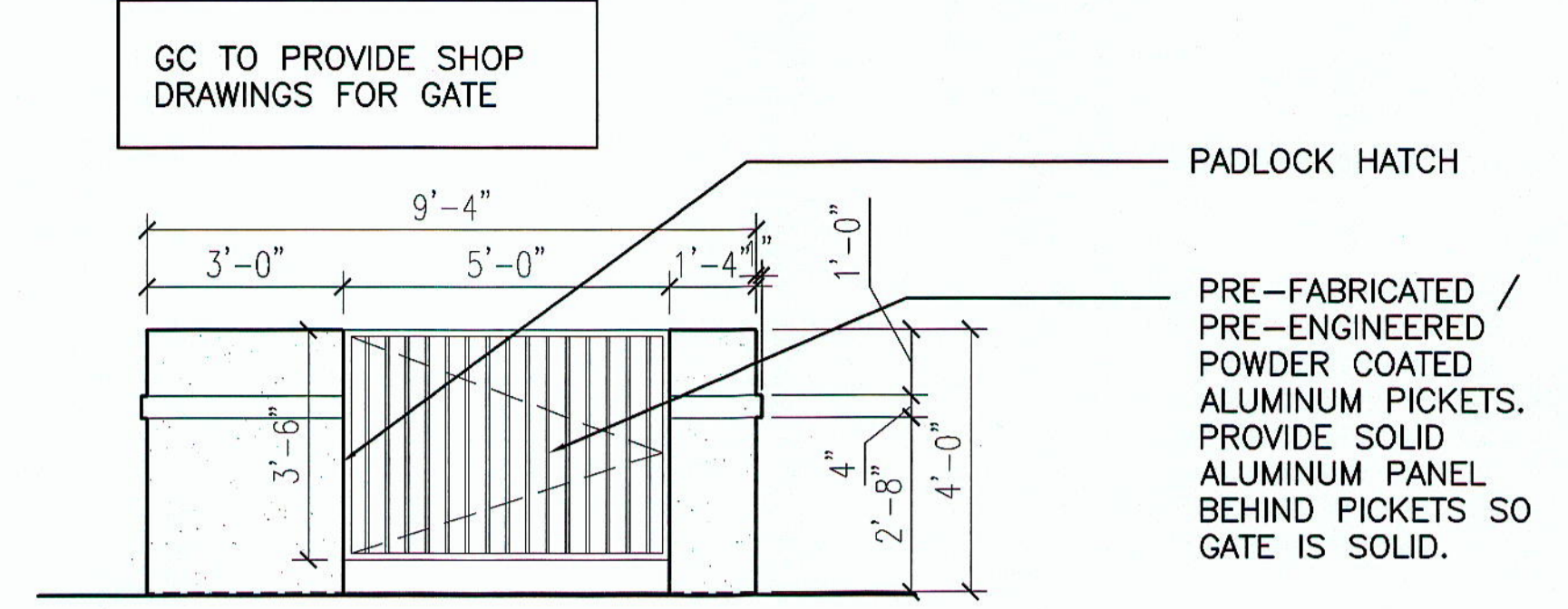
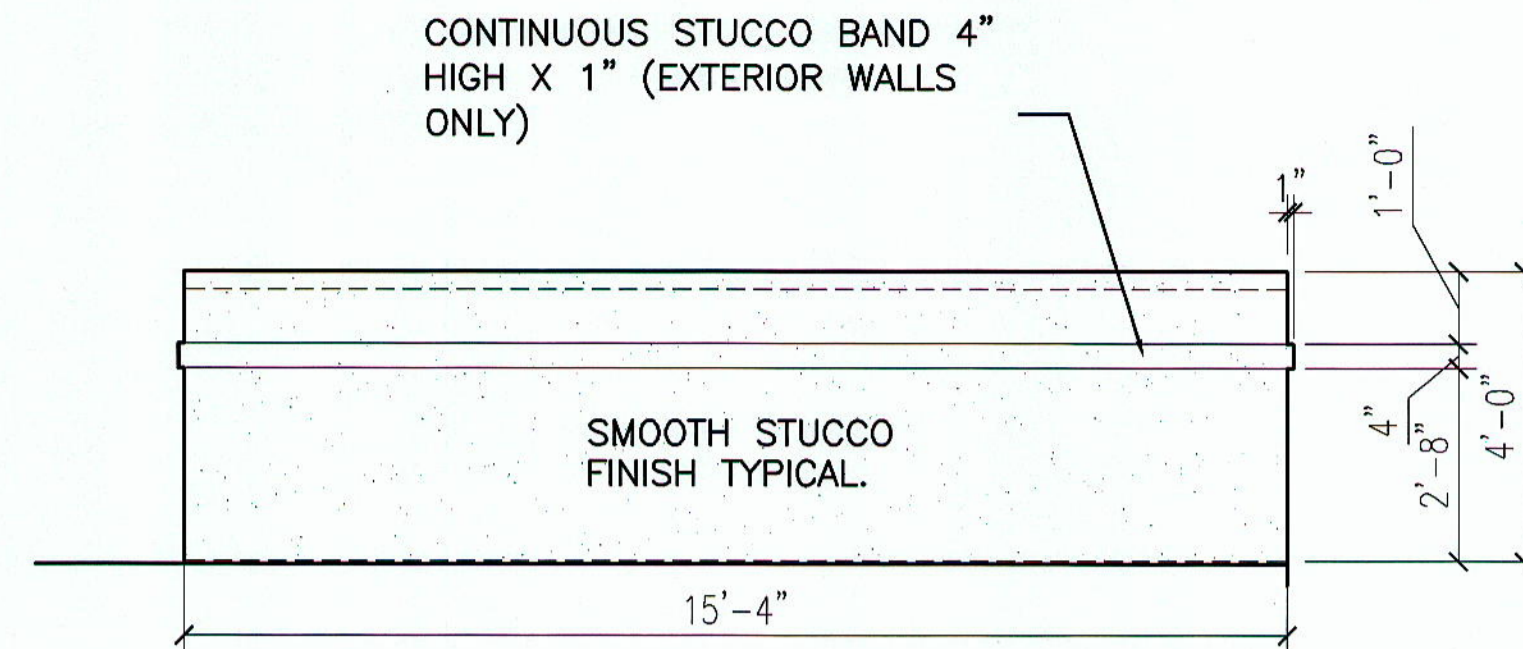
DRAWING TITLE:  
 SITE PLAN

DRAWN: \_\_\_\_\_  
 CHECKED: CPZ  
 DATE: \_\_\_\_\_  
 SCALE: AS NOTED  
 PROJECT NO.: 1220B  
 SHEET: \_\_\_\_\_

SP-1

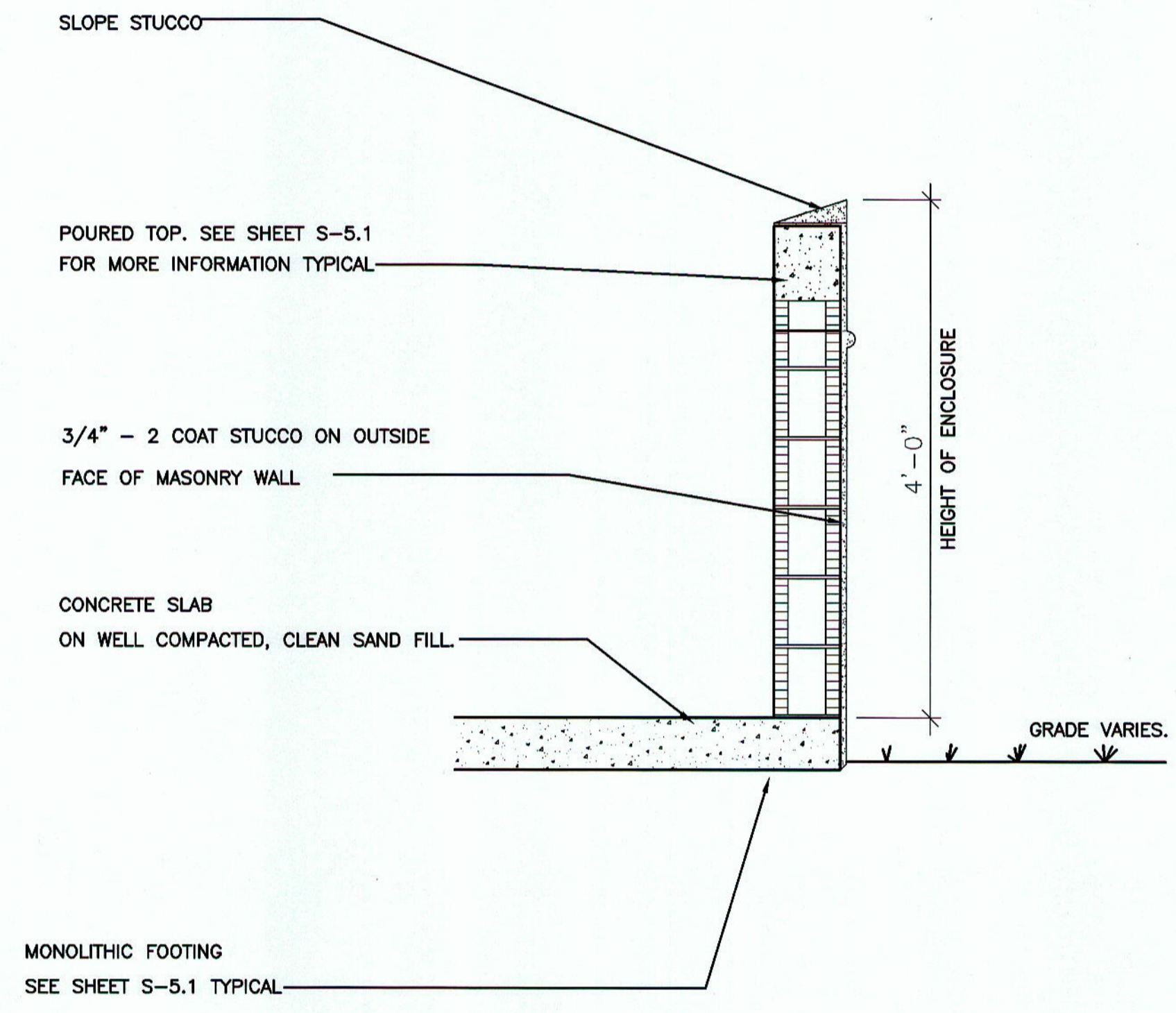






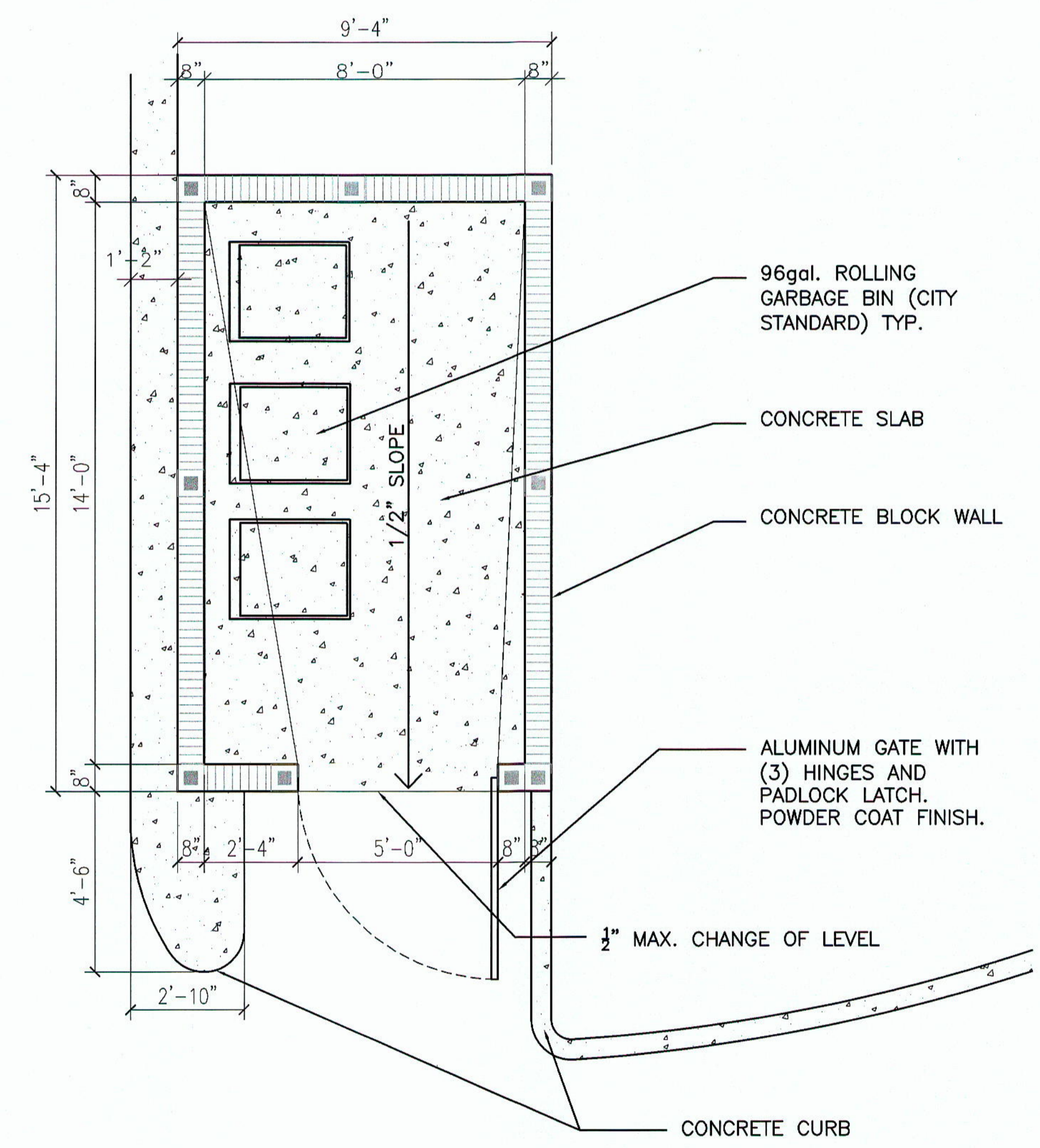
TYPICAL DUMPSTER ELEVATIONS

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



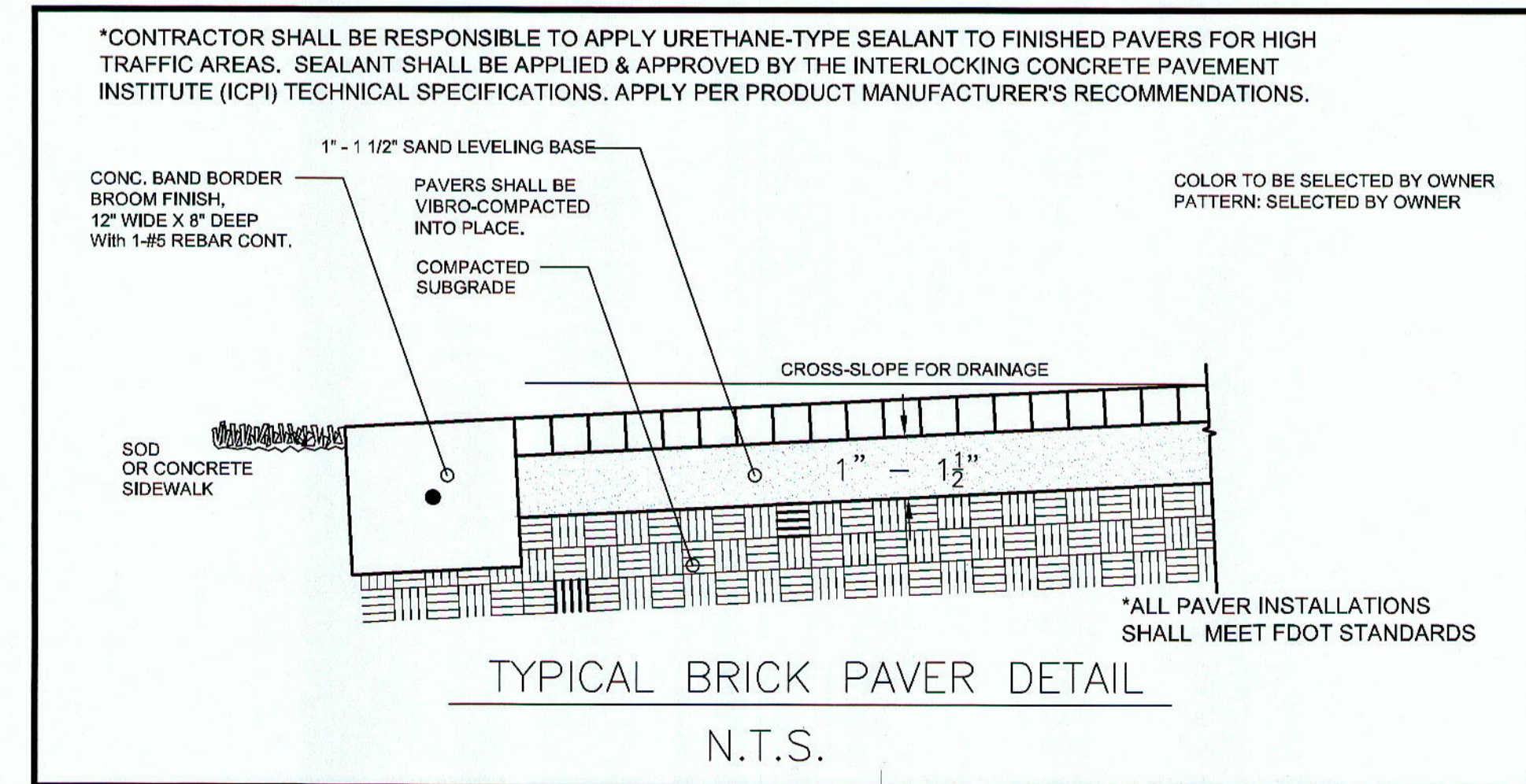
TYPICAL DUMPSTER WALL SECTION

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



GARBAGE / RECYCLING BIN ENCLOSURE PLAN

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



TYPICAL BRICK PAVER DETAIL  
N.T.S.

CHRIS P. ZIMMERMAN, A.I.A.  
 REGISTERED ARCHITECT NO. 10,995  
 STATE OF FLORIDA

*Chris P. Zimmerman*  
 DATE: 4-24-14

PROPOSED NEW FIRE STATION 50  
 NW 45 AVE.

NW 45 AVE. & COCONUT CREEK PARKWAY  
 COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.

4316 WEST BROWARD BOULEVARD  
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 AA #26000685 WWW.CPZARCHITECTS.COM



DRAWING TITLE:  
DETAILS

DRAWN CP/GKF  
 CHECKED CPZ  
 DATE  
 SCALE AS NOTED  
 PROJECT NO. 1220B  
 SHEET:

SP-4

of:

2/07/2014 10:00:00 AM Project: 1220B - Fire Station 50 - Development/50 Program Rev: 1/13/14 11:34:55 AM AutoCAD

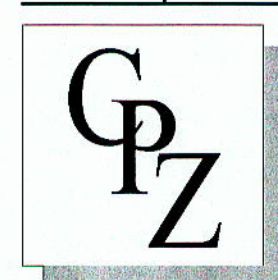


NO.	REVISION	DATE
001	50% CDN	04-10-2014
002	ERIC CHWYB	04-17-14
003	ERIC CHWYB 2	04-17-14

CONSULTANT:

**FIRE STATION 50**  
 NW 45 AVE. & COCONUT CREEK PARKWAY,  
 COCONUT CREEK, FLORIDA

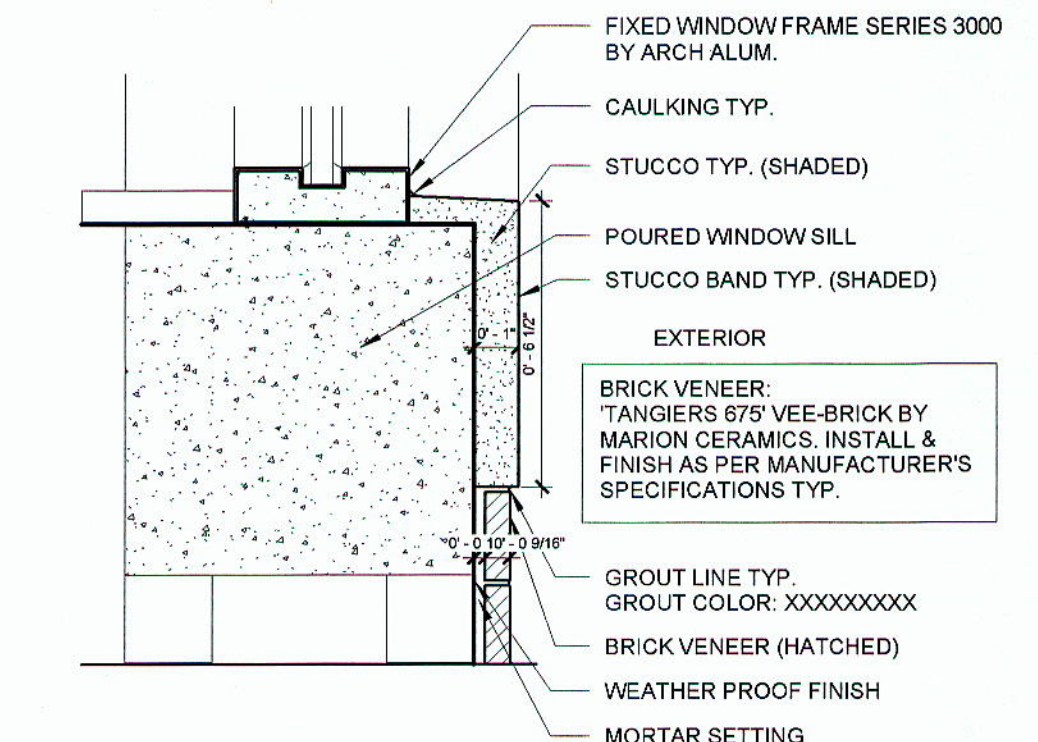
**CPZ ARCHITECTS, INC.**  
 400 WEST BROADWAY BOULEVARD  
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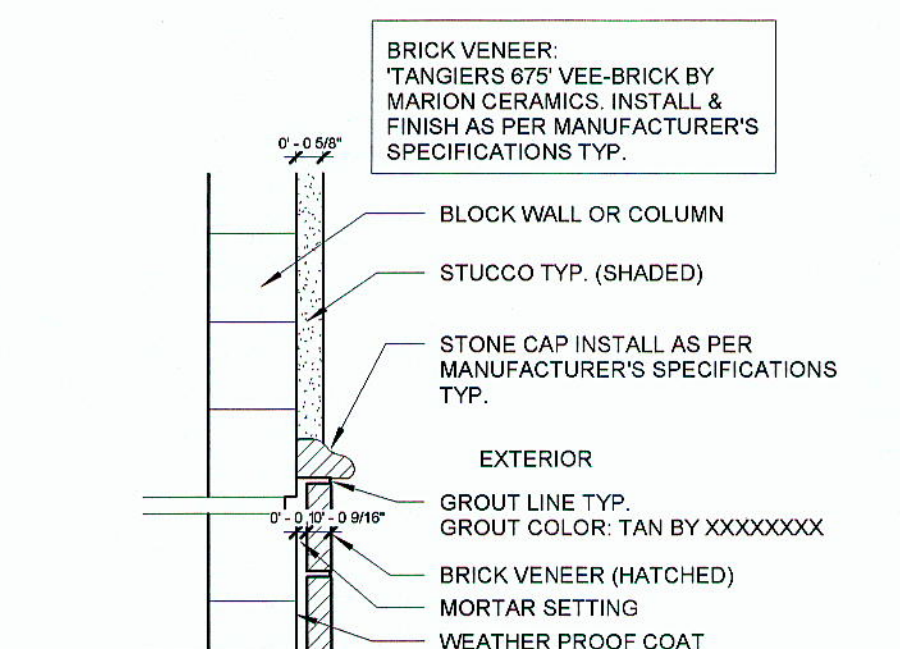
DRAWING TITLE:  
 North & South Elevations  
 DRAWN: RJMG  
 CHECKED:  
 DATE: 04-10-2014  
 SCALE: As indicated  
 PROJECT NO: 12200  
 SHEET:

**A-200**

**CHRIS P. ZIMMERMAN, A.I.A.**  
 REGISTERED ARCHITECT NO.  
 10,995  
 STATE OF FLORIDA  
  
 DATE: 4-24-14



**STUCCO BAND WINDOW DETAIL**



**STONE CAP DETAIL**

**PAINT SPECIFICATION**

PART 3.0 EXTERIOR PAINT SCHEDULE

A. CONCRETE, STUCCO, AND CEMENT PLASTER:

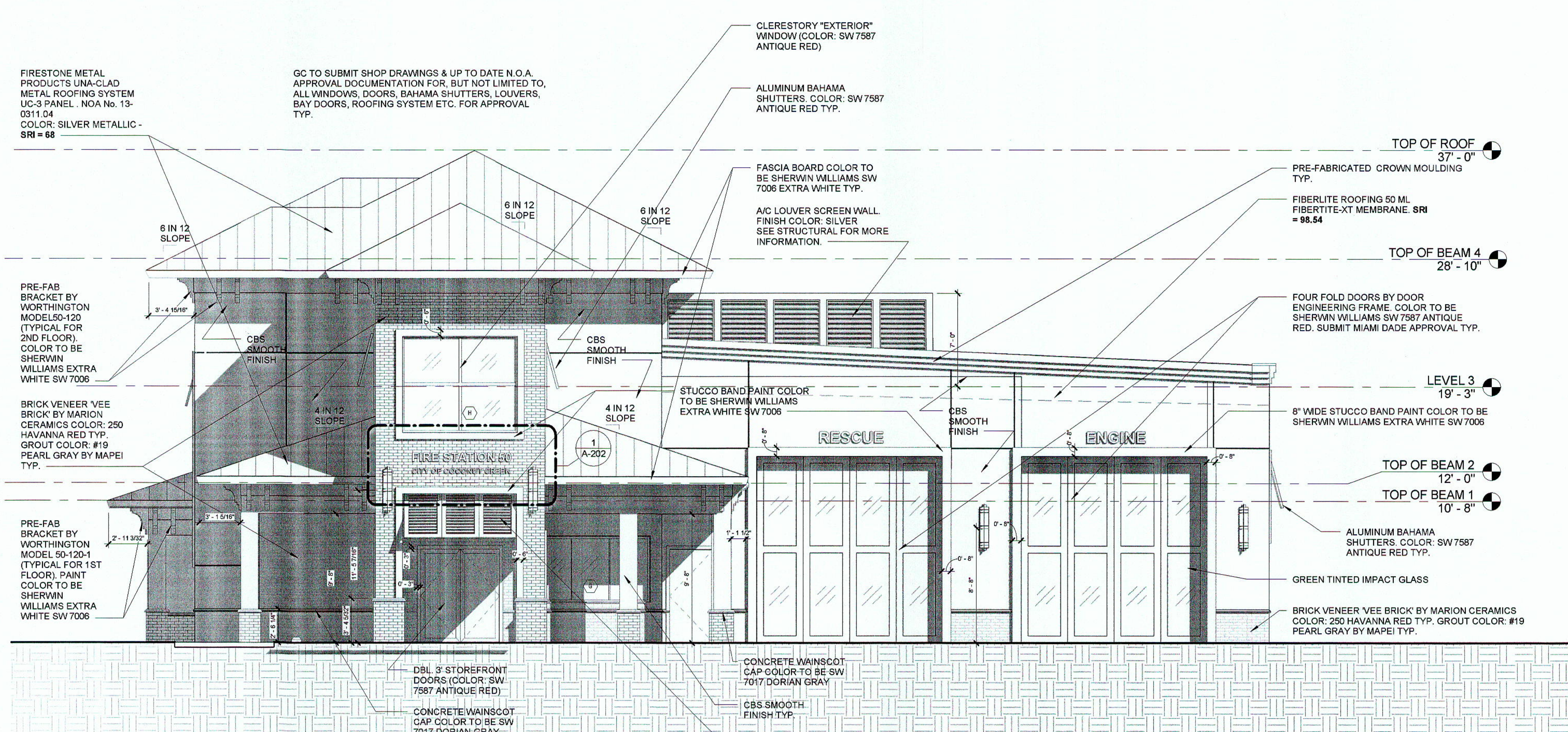
- 100% ACRYLIC COATING:
  - PRIMER: APPLY SHERWIN WILLIAMS LOXON ACRYLIC PRIMER (A24N/300) AT A WET FILM THICKNESS OF 8 MILS TO DRY TO 3.2 MILS DRY FILM THICKNESS.
  - FIRST COAT: APPLY SHERWIN WILLIAMS SUPERPAINT EXTERIOR LATEX SATIN (A89 SERIES) AT A WET FILM THICKNESS OF 4 MILS TO DRY TO 1.44 MILS DRY FILM THICKNESS.
  - SECOND COAT: APPLY SHERWIN WILLIAMS SUPERPAINT EXTERIOR LATEX SATIN (A89 SERIES) AT A WET FILM THICKNESS OF 4 MILS TO DRY TO 1.44 MILS DRY FILM THICKNESS.

B. CMU BLOCK

- 100% ACRYLIC COATING:
  - BLOCK FILLER: APPLY SHERWIN WILLIAMS HEAVY DUTY LATEX BLOCK FILLER (B42W46) AT A WET FILM THICKNESS OF 18-34 MILS TO DRY TO 10-18 MILS DRY FILM THICKNESS, AT AN EFFECTIVE APPLICATION RATE OF APPROXIMATELY 50-88 SF/GAL.
  - FIRST FINISH COAT: APPLY SHERWIN WILLIAMS SUPERPAINT EXTERIOR LATEX SATIN (A89 SERIES) AT A WET FILM THICKNESS OF 4 MILS TO DRY TO 1.44 MILS DRY FILM THICKNESS.
  - SECOND FINISH COAT: APPLY SHERWIN WILLIAMS SUPERPAINT EXTERIOR LATEX SATIN (A89 SERIES) AT A WET FILM THICKNESS OF 4 MILS TO DRY TO 1.44 MILS DRY FILM THICKNESS.

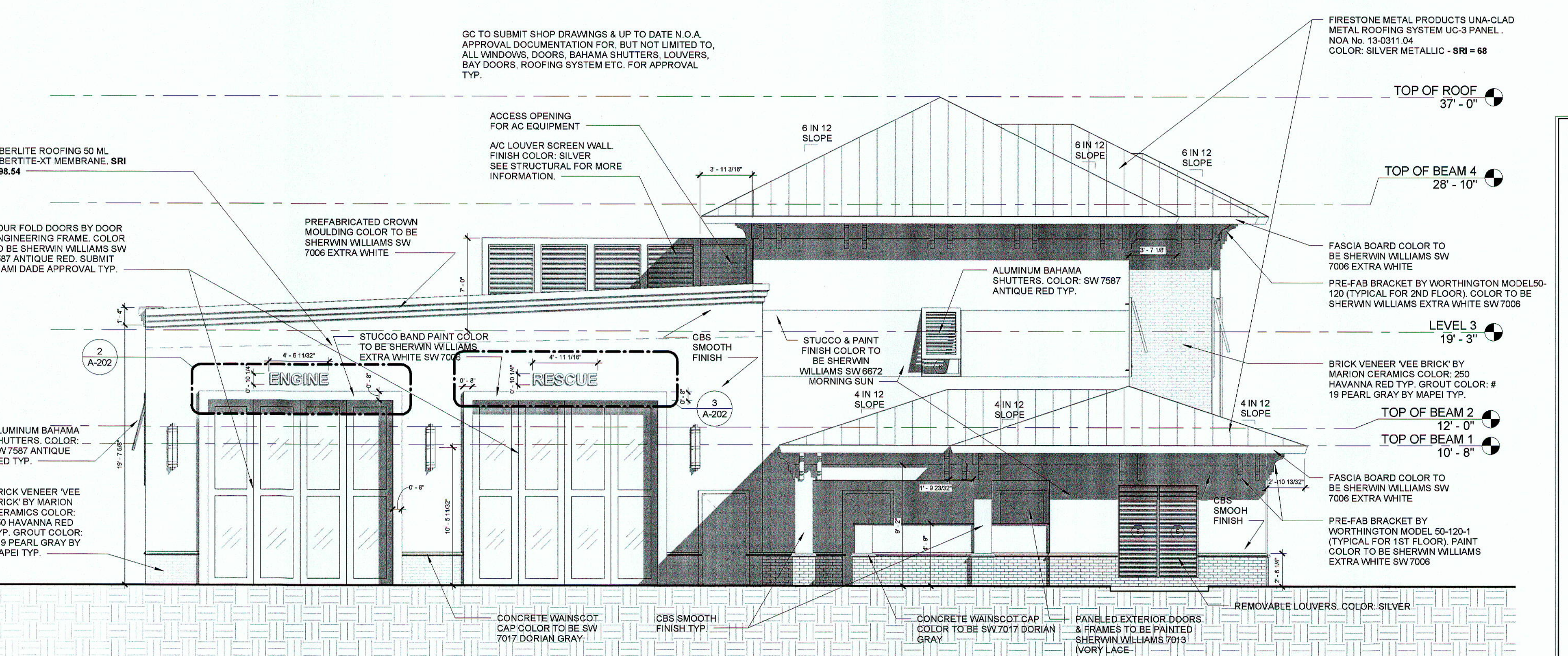
C. FERROUS METALS:

- FULL GLOSS:
  - PRIMER: APPLY SHERWIN WILLIAMS PRO-CRYL UNIVERSAL PRIMER, (B66-310 SERIES), APPLIED AT 5.0-10.0 MILS WET TO ACHIEVE 2.0-4.0 MILS DRY FILM THICKNESS.
  - FIRST COAT: APPLY SHERWIN WILLIAMS SHER-CRYLTM HPA HIGH PERFORMANCE ACRYLIC GLOSS, (B66-300 SERIES), APPLIED AT A WET FILM THICKNESS OF 4 MILS, TO ACHIEVE A DRY FILM THICKNESS OF 1.4.
  - SECOND COAT: APPLY SHERWIN WILLIAMS SHER-CRYLTM HPA HIGH GLOSS PERFORMANCE ACRYLIC GLOSS, (B66-300 SERIES), APPLIED AT A WET FILM THICKNESS OF 4 MILS, TO ACHIEVE A DRY FILM THICKNESS OF 1.4.



**North**

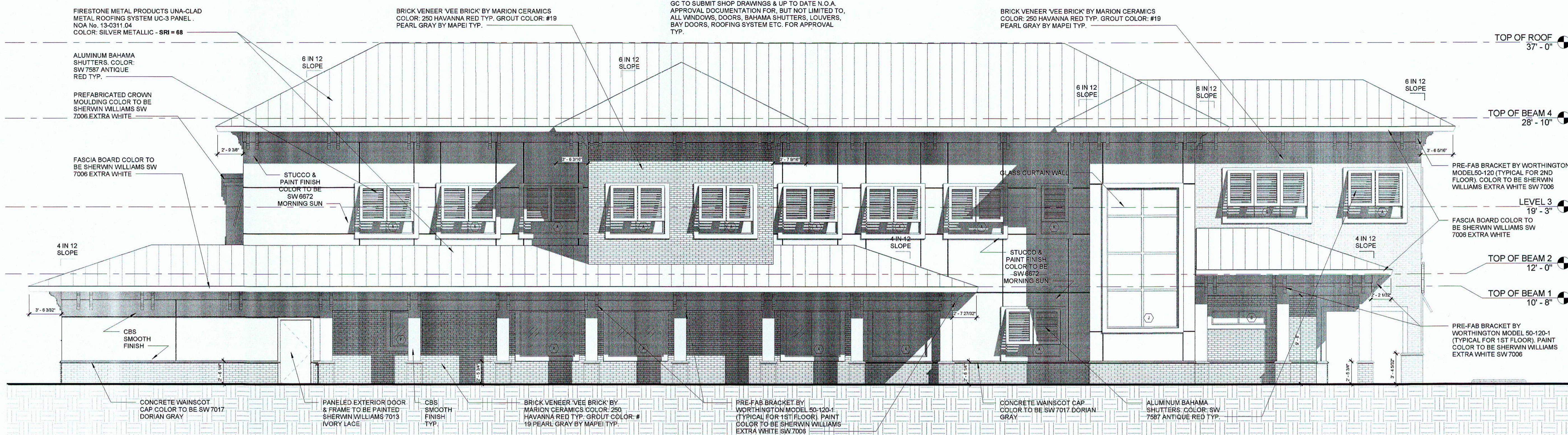
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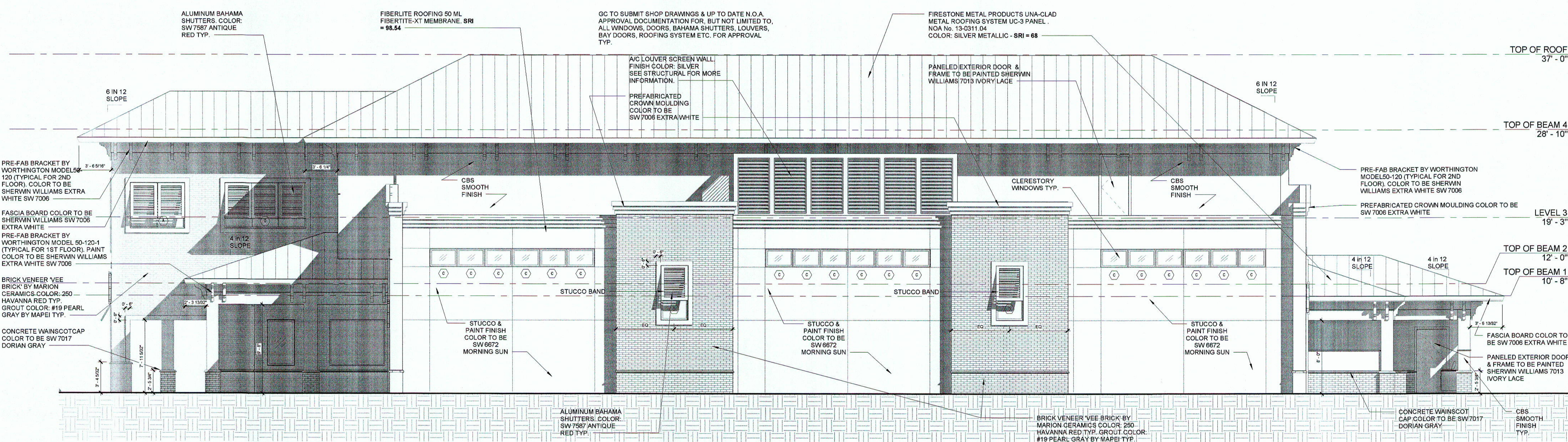
**South**

SCALE: 3/16" = 1'-0"

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East  
SCALE: 3/16" = 1'-0"



West  
SCALE: 3/16" = 1'-0"

NO.	REVISION	DATE
50% CD's		04-10-2014
DRG. CHG. #1		08-17-14
DRG. CHG. #2		04-17-14

CONSULTANT:

FIRE STATION 50

NW 45 AVE. & COCONUT CREEK PARKWAY,  
COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.

616 WEST BROADWAY SUITE 1800  
PLANTATION, FLORIDA 33317  
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DRAWING TITLE:

East & West Elevations

DRAWN: RJMG  
CHECKED:  
DATE: 04-10-2014  
SCALE: 3/16" = 1'-0"  
PROJECT NO: 1220D  
SHEET:

CHRIS P. ZIMMERMAN, A.L.A.  
REGISTERED ARCHITECT NO.  
10,995  
STATE OF FLORIDA  
DATE: 4-24-14

A-201







CONSULTANT: CPZ ARCHITECTS, INC. 4316 WEST BROWARD BOULEVARD PLANTATION, FLORIDA 33317 PHONE: (954) 792-8525 FAX: (954) 337-0359 WWW.CPZARCHITECTS.COM

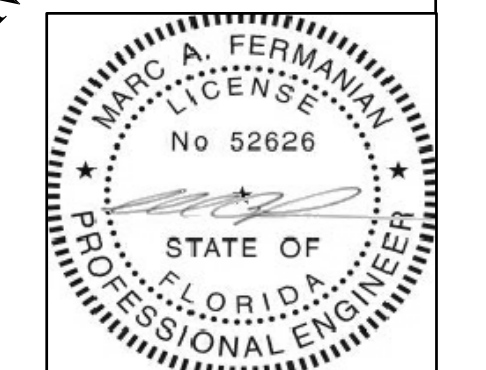
PROPOSED NEW FIRE STATION 50 NW 45 AVE. COCONUT CREEK PARKWAY COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC. 4316 WEST BROWARD BOULEVARD PLANTATION, FLORIDA 33317 PHONE: (954) 792-8525 FAX: (954) 337-0359 WWW.CPZARCHITECTS.COM

DRAWING TITLE: SUMMARY OF QUANTITIES AND GENERAL NOTES DRAWN C.E.O. CHECKED M.A.F. DATE 03/17/2014 SCALE N/A PROJ. NO. CNK-1018 SHEET:

MARC A. FERMANIAN, P.E. PROFESSIONAL ENGINEER NO. 52626 STATE OF FLORIDA

G-1



MARC A. FERMANIAN, P.E. PROFESSIONAL ENGINEER NO. 52626 STATE OF FLORIDA

DATE:

XIII. NPDES REQUIREMENT

- A. AT LEAST TWO (2) DAYS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A FDEP NOTICE OF INTENT (N.O.I.) TO USE WITHIN PERMIT BOUNDARIES... B. MATERIALS: 1. PVC SEWER PIPE AND FITTING SHALL BE CONFORMING TO ANSI/AWWA STANDARD C900-07...

XIII. ENGINEER'S AS-BUILT REQUIREMENTS

- A. AS-BUILTS OF WATER LINES SHALL INCLUDE THE FOLLOWING INFORMATION: 1. TOP OF PIPE ELEVATIONS EVERY 50 FT. 2. LOCATIONS AND ELEVATIONS OF ALL FITTINGS INCLUDING BENDS, TEES, GATE VALVES, DOUBLE DETECTOR CHECK VALVES, FIVE HYDRANTS, ETC.

XIV. PAVEMENT MARKING AND SIGNAGE

- A. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL BE IN ACCORDANCE WITH FOOT STANDARD INDEX (2013), THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, AND BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS (LATEST EDITION).

XV. PROJECT CLOSEOUT

- A. CLEANING UP: 1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER... 2. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK...

XIV. GENERAL NOTES

- 1. WITH THE POSSIBILITY OF UNINTENDED ERRORS OR OMISSIONS, THE CITY OF COCONUT CREEK RESERVES THE RIGHT TO CORRECT SAID ERRORS OR OMISSIONS DURING SUBSEQUENT ENGINEERING REVIEWS AND/OR DURING CONSTRUCTION...

Water Distribution / Sewage - continued

- IX. GRAVITY SEWER COLLECTION SYSTEM A. GENERAL: 1. DISTANCE AND LENGTHS SHOWN ON PLANS ARE REFERENCED TO THE CENTER OF STRUCTURES.

Water Distribution / Sewage - continued

- 11. FIVE HYDRANTS SHALL BE AMERICAN DARLING 894B-5 WITH 5-1/4" INTERNAL PIPE OPENING AS PER NSD. MAIN VALVE OPENING TO BE DETERMINED BY THE WATER DEPARTMENT (WD). PUMPER NOZZLE TO BE 1/4" FROM FINISHED GRADE.

Water Distribution / Sewage - continued

- 16. PLUG VALVES ARE TO BE INSTALLED WITH THE SEAT POINTED TOWARDS THE UPSTREAM FLOW, WHEN SPECIFIED.

Water Distribution / Sewage - continued

- 1. ALL PVC PIPE SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF MARGATE DEPARTMENT OF ENVIRONMENTAL AND ENGINEERING SERVICES STANDARD DETAILS AS FOUND WITHIN THESE PLANS... 2. ALL WATER MAINS SHALL BE LAID WITH A MINIMUM 3/8" COVER FOR PVC AND 30" FOR RIPR.

Water Distribution / Sewage - continued

- 1. ALL MATERIALS INSTALLED FOR THE DEVELOPMENT SHALL BE IN COMPLIANCE WITH CITY OF MARGATE DEPARTMENT OF ENVIRONMENTAL AND ENGINEERING SERVICES AND THE BROWARD COUNTY PUBLIC HEALTH UNIT.

Water Distribution / Sewage - continued

- VI. BACKFLOW PREVENTOR TO BE A FERRO MODEL OR APPROVED EQUAL. 6. GATE VALVES SHALL BE GATE VALVES, IRON BODY FULLY RESIDENT SEAT BROWARD MOUNTED NON-RISING STEM WATER AT 200 PSI AND CONFORMING TO ANSI/AWWA C500-01 OR LATEST REVISION, AND SHALL HAVE MECHANICAL JOINTS.

Water Distribution / Sewage - continued

- 1. REINFORCED CONCRETE PIPE (R.C.P.) SHALL MEET THE REQUIREMENTS OF ASTM C-76, CLASS III, WALL THICKNESS "B" AS DEFINED IN FOOT INDEX 205. RUBBER GASKETS OR OTHER MANUFACTURER SUPPLIED JOINT SEALER SHALL BE USED.

Water Distribution / Sewage - continued

- 1. ALL SUBGRADE COMPACTION FOR PROPOSED DRIVEABLE SURFACES (I.E. CONCRETE, ASPHALT) SHALL BE COMPACTED TO A MINIMUM OF 100% MAXIMUM DRY DENSITY PER MODIFIED PROCTOR TEST RESULTS FROM TESTING LAB (ASHTO T-180). SUBGRADES SHALL HAVE A MINIMUM LIMELOCK BEARING RATIO (LBR) 40.

Water Distribution / Sewage - continued

- 1. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHTS-OF-WAY SHALL BE IN ACCORDANCE WITH M.U.T.C.D. AND FOOT INDEX 800 (2013). THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND PROCESSING A NOT / TOP PLAN THROUGH APPLICABLE AGENCIES AT ALL TIMES...

Water Distribution / Sewage - continued

- 1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR THE SUPPLY OF TEMPORARY WATER SERVICE, SANITARY SEWER SERVICE, AND ELECTRICITY. THE CONTRACTOR SHALL BE OBLIGATED TO REVIEW THE CITY'S CODE OF ORDINANCES IF A CONSTRUCTION TRAILER TO BE USED.

Water Distribution / Sewage - continued

- VI. STORM DRAINAGE A. GENERAL: 1. EXISTING DRAINAGE STRUCTURES SHALL BE ADJUSTED AS NEEDED SHOWN WITHIN THESE PLANS.

Water Distribution / Sewage - continued

- 1. ALL MUCK AND YIELDING MATERIAL WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED AND REPLACED WITH APPROPRIATE ROADWAY FILL. SAID FILL SHALL BE INSTALLED IN LIFTS, COMPACTED AND GRADED TO CONFORM TO THE REQUIRED DETERMINATIONS AS SHOWN WITHIN THE PLANS.

Water Distribution / Sewage - continued

- 1. ALL SUBGRADE COMPACTION FOR PROPOSED DRIVEABLE SURFACES (I.E. CONCRETE, ASPHALT) SHALL BE COMPACTED TO A MINIMUM OF 100% MAXIMUM DRY DENSITY PER MODIFIED PROCTOR TEST RESULTS FROM TESTING LAB (ASHTO T-180). SUBGRADES SHALL HAVE A MINIMUM LIMELOCK BEARING RATIO (LBR) 40.

Water Distribution / Sewage - continued

- 1. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHTS-OF-WAY SHALL BE IN ACCORDANCE WITH M.U.T.C.D. AND FOOT INDEX 800 (2013). THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND PROCESSING A NOT / TOP PLAN THROUGH APPLICABLE AGENCIES AT ALL TIMES...

Water Distribution / Sewage - continued

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Water Distribution / Sewage - continued

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Water Distribution / Sewage - continued

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Water Distribution / Sewage - continued

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Water Distribution / Sewage - continued

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Water Distribution / Sewage - continued

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Water Distribution / Sewage - continued

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Water Distribution / Sewage - continued

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# BOUNDARY AND TOPOGRAPHIC SURVEY

SEE SHEET 1 OF 3 FOR SURVEY NOTES, LEGEND, ABBREVIATIONS  
SEE SHEET 3 OF 3 FOR TREE TABLE

### SURVEYOR'S REFERENCES:

1. COCONUT CREEK PARKPLEX PLAT, RECORDED IN P.B. 173, PG. 65, B.C.R.
2. EDGEFIELD 1st SECTION, RECORDED IN P.B. 48, PG. 31, B.C.R.
3. FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP FOR S.R. 814 - COCONUT CREEK PARKWAY SECTION 86130-2506, LAST REVISED 8/22/89 BROWARD COUNTY.
4. BROWARD COUNTY PROPERTY APPRAISER'S NETWORK, BROWARD OFFICIAL RECORDS PUBLIC SEARCH.

### ABBREVIATIONS

B.C.R.	BROWARD COUNTY RECORDS
O.R.B.	OFFICIAL RECORDS BOOK
P.B.	PLAT BOOK
PG.	PAGE
L.B.	LICENSED BUSINESS
S.R.	STATE ROAD
NVAL	NON-VEHICULAR ACCESS LINE
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
ID.	IDENTIFICATION
PRM	PERMANENT REFERENCE MARKER
IRC	IRON ROD AND CAP
IP	IRON PIPE
U.E.	UTILITY EASEMENT
C.M.E.	CANAL MAINTENANCE EASEMENT
CL	CENTERLINE
MH	MANHOLE
R.E.	RIM ELEVATION
LE	INVERT ELEVATION
LI	LINE NUMBER 1 (SEE TABLE)
BH1	BORERHOLE NUMBER 1 (SEE TABLE)

### LEGEND

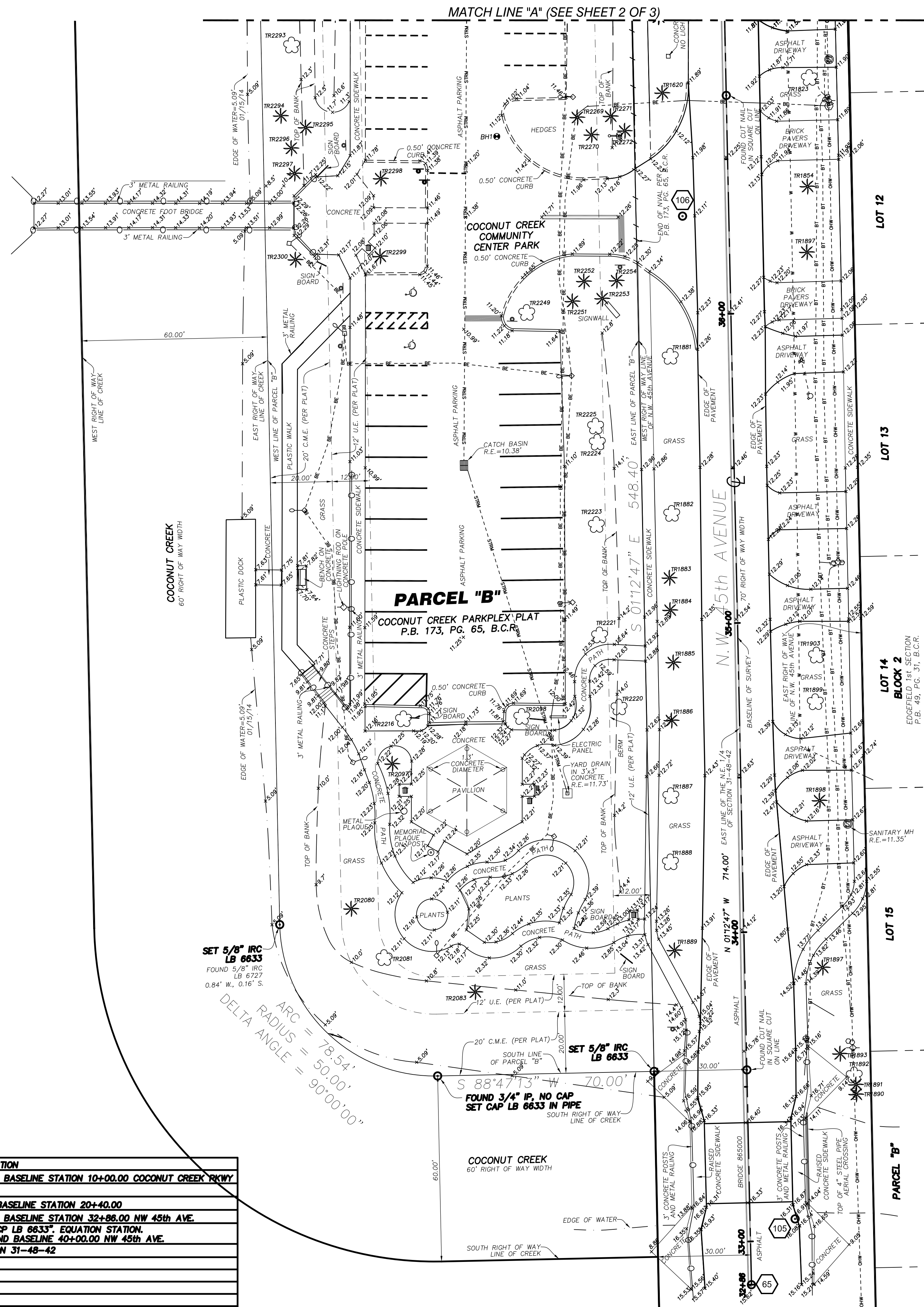
	GUY ANCHOR
	BACKFLOW PREVENTOR
	BORE HOLE
	METAL BENCH
	CATCH BASIN
	CONCRETE LIGHT POLE
	CONCRETE POLE
	FIRE HYDRANT
	GRILL
	STORM DRAINAGE MANHOLE
	SANITARY SEWER MANHOLE
	TELEPHONE MANHOLE
	WATER METER
	POST WITH PEDESTRIAN LIGHT
	SIGN ON POST
	TELEPHONE RISER
	TRASH CAN
	UTILITY MARKER
	WATER VALVE
	ELECTRIC WIRE PULL BOX
	STREET LIGHT WIRE PULL BOX
	TRAFFIC WIRE PULL BOX
	WIRE PULL BOX
	IRRIGATION PUMP
	TRANSFORMER OF CONCRETE PAD
	TELEPHONE CABINET ON CONCRETE PAD
	HANDICAP PARKING SPACE
	5 REGULAR PARKING SPACES
	PALM TREE # 123 (SEE TREE TABLE)
	TREE # 124 (SEE TREE TABLE)
	SPOT ELEVATION
	CONTROL POINT (SEE TABLE)
	NON-VEHICULAR ACCESS LINE
	OVERHEAD WIRES
	BURIED ELECTRIC
	BURIED FIBER OPTIC
	BURIED TELEPHONE
	BURIED TELEPHONE DUCT
	BURIED CABLE TELEVISION
	FORCE MAIN
	BURIED GAS
	BURIED STREET LIGHT
	STORM DRAINAGE LINE
	TRAFFIC SIGNAL
	UNKNOWN LINE

### BORE HOLES TABLE

BORE HOLE #	NORTHING	EASTING	ELEVATION
1	695125.84	923561.65	11.21
2	695164.97	923572.42	10.81
3	695218.21	923538.72	11.30
4	695264.95	923501.17	12.28
5	695367.08	923514.68	11.02
6	695285.71	923566.50	11.96
7	695401.40	923563.47	12.89
8	695308.09	923532.95	11.42
9	695507.51	923580.95	13.54

### CONTROL POINTS TABLE

CONTROL POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
62	695453.006	923109.110	N/A	SET NAIL & DISC "STONER&ASSOC. PCP LB 6633", BEGIN BASELINE STATION 10+00.00 COCONUT CREEK PKWY
63	695457.397	923332.987	N/A	FOUND BOAT SPIKE, BASELINE PI STATION 12+23.92
64	695487.784	924148.502	N/A	SET NAIL & DISC "STONER&ASSOC. PCP LB 6633", END BASELINE STATION 20+40.00
65	694754.575	923643.978	N/A	SET NAIL & DISC "STONER&ASSOC. PCP LB 6633", BEGIN BASELINE STATION 32+86.00 NW 45th AVE.
66	695468.415	923628.862	N/A	FOUND NAIL HOLE, SET NAIL & DISC "STONER&ASSOC. PCP LB 6633", EQUATION STATION, COCONUT CREEK PKWY BASELINE STATION 15+20.00 = END BASELINE 40+00.00 NW 45th AVE.
101	695477.948	923628.861	N/A	FOUND BOAT SPIKE, N.E. CORNER OF N.E. 1/4 OF SECTION 31-48-42
104	695501.472	923627.992	13.95	SET NAIL & DISC "TRAV.PT. LB 6633"
105	694775.852	923658.091	16.21	FOUND NAIL AND DISC BROWARD COUNTY
106	695100.070	923621.702	12.18	SET NAIL & DISC "TRAV.PT. LB 6633"
107	695389.512	922997.249	13.77	SET NAIL & DISC "TRAV.PT. LB 6633"
108	695530.698	924178.441	13.27	FOUND NAIL & DISC, NO ID. IN ASPHALT



### LEGAL DESCRIPTION:

PARCELS "B" AND "D", COCONUT CREEK PARKPLEX PLAT, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 173, AT PAGE 65, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

### SURVEY NOTES:

1. THIS SURVEY REPRESENTS A BOUNDARY AND TOPOGRAPHIC SURVEY AS DEFINED BY MINIMUM TECHNICAL STANDARDS FOR SURVEYING AND MAPPING, CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODES.
2. THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
3. THIS SURVEY IS LIMITED TO (1) THE DOCUMENTATION OF THE PERIMETER OF THE PARCELS OF LAND SHOWN HEREON BY MONUMENTING THE BOUNDARY LINES FOR THE PURPOSE OF DESCRIBING SAID PARCEL; (2) LOCATION OF ABOVE GROUND IMPROVEMENTS; (3) SPOT ELEVATIONS; (4) TREE SURVEY; (5) UNDERGROUND UTILITIES LOCATION (MARKED BY OTHERS).
4. THE SURVEYED PROPERTY SHOWN HEREON CONTAINS A TOTAL AREA OF 1.5891 ACRES (68,350 SQUARE FEET). PARCEL "B" = 1.6234 ACRES (68,350 SQUARE FEET) PARCEL "D" = 0.0457 ACRES (1,991 SQUARE FEET)
5. THE PROPERTY SHOWN HEREON IS LOCATED WITHIN FLOOD ZONE X, AS SHOWN ON FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP NUMBER 1201100119, COMMUNITY NUMBER 120031, CITY OF COCONUT CREEK, BROWARD COUNTY, FLORIDA. MAP REVISED DATE: AUGUST 18, 1992.
6. THE SYMBOLS REFLECTED IN THE LEGEND AND ON THIS SURVEY MAY HAVE BEEN ENLARGED FOR CLARITY. THE SYMBOLS HAVE BEEN PLOTTED AT THE CENTER OF THE FIELD LOCATION AND MAY NOT REPRESENT THE ACTUAL SHAPE OR SIZE OF THE FEATURE.
7. THE ELEVATIONS SHOWN HEREON ARE BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), ESTABLISHED FROM BROWARD COUNTY ENGINEERING DIVISION BENCHMARK No. 0248, DESCRIBED AS FOLLOWS: 3RD BRASS DISC IN MIDDLE OF SOUTH CONCRETE BRIDGE RAILING ON WEST SIDE OF BRIDGE. BRIDGE IS LOCATED 180' (+ OR -) WEST OF N.W. 45th AVENUE AND COCONUT CREEK PARKWAY. ELEVATION = 17.626'
8. BEARINGS AND DISTANCES SHOWN HEREON ARE PER COCONUT CREEK PARKPLEX PLAT, RECORDED IN PLAT BOOK 173, PAGE 65, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, SAID BEARINGS ARE RELATIVE TO THE FLORIDA STATE PLANE COORDINATES SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983.
9. WHEEL STOPS, GROUND COVERAGE, SPRINKLER HEADS AND IRRIGATION WIRE PULL BOXES WERE NOT LOCATED AND ARE NOT SHOWN HEREON.
10. FENCES, RAILINGS, BARRIER WALLS AND WALL DIMENSIONS ARE APPROXIMATE.
11. THE INFORMATION DEPICTED ON THIS SURVEY REPRESENTS THE RESULTS OF A FIELD SURVEY ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS A REPRESENTATION OF THE GENERAL CONDITIONS EXISTING AT THAT TIME.
12. THE SURVEYOR DID NOT INSPECT THE PROPERTY SHOWN HEREON FOR ENVIRONMENTAL HAZARDS.
13. THE STORM DRAINAGE AND SANITARY SEWER AS-BUILT DATA SHOWN HEREON WAS COLLECTED FOR ENGINEERING DESIGN PURPOSES ONLY. THE AS-BUILT DATA IS LIMITED TO RIM ELEVATIONS ONLY. THE CONNECTIONS BETWEEN STRUCTURES WAS OBTAINED BY VISUAL OBSERVATIONS WITHOUT REMOVING THE LIDS. WERE NOT INSPECTED AND THE CONDITION OF THE PIPES WAS NOT DETERMINED. CRITICAL ELEVATIONS AND DIMENSIONS SHOULD BE VERIFIED WITH THE FACILITIES PUMPED DOWN AND CLEANED OUT TO FACILITATE ACCURATE COLLECTION OF AS-BUILT DATA. THE SIZE AND TYPE OF PIPES SHOULD BE OBTAINED AND CONFIRMED BEFORE ORDERING REPLACEMENT PIPES OR CONNECTING PIPES.
14. BOREHOLES WERE LOCATED DURING THE PROCESS OF THE SURVEY AT LOCATIONS WERE RECENT GEOTECHNICAL WORK HAS BEEN PERFORMED. A FINAL SKETCH OF BOREHOLES LOCATIONS WAS NOT SUPPLIED TO SURVEYOR AT TIME OF SURVEY.
15. UNDERGROUND UTILITIES WERE MARKED ON THE SURFACE BY KEITH & ASSOCIATES, INC., CONSULTING ENGINEERS AND LOCATED BY STONER & ASSOCIATES, STONER & ASSOCIATES, INC. IS NOT RESPONSIBLE FOR THE IDENTIFICATION OR ACCURACY OF UNDERGROUND UTILITIES.
16. THIS FIRM HAS IDENTIFIED VARIOUS TYPES OF TREES LOCATED ON THIS SITE BASED ON COMMON KNOWLEDGE OF TREE SPECIES. A QUALIFIED LANDSCAPE ARCHITECT SHOULD BE EMPLOYED FOR POSITIVE IDENTIFICATION OF TREE SPECIES. TREE DIAMETERS ARE APPROXIMATE AND WERE MEASURED AT BREAST HEIGHT. ONLY TREES 3 CALIPER INCHES IN DIAMETER OR LARGER WERE LOCATED AND SHOWN ON THE SURVEY. HEDGES AND GROUND COVER WERE NOT LOCATED AND ARE NOT SHOWN. EXOTIC TREES SUCH AS MELALEUCA, BRAZILIAN PEPPER AND AUSTRALIAN PINE WERE NOT LOCATED OR SHOWN HEREON.
17. THIS SURVEY IS LIMITED TO THE LOCATION OF ABOVE GROUND IMPROVEMENTS ONLY. SUBSURFACE UTILITIES, FOUNDATIONS AND ENCROACHMENTS WERE NOT LOCATED AND ARE NOT SHOWN HEREON. THIS SITE COULD HAVE UNDERGROUND INSTALLATIONS THAT ARE NOT SHOWN HEREON. BEFORE DESIGN, CONSTRUCTION OR EXCAVATION, CONTACT FLORIDA STATE ONE CALL OF FLORIDA (811 OR 1-800-432-4770) AND THE APPROPRIATE UTILITY COMPANIES FOR FIELD VERIFICATION OF UTILITIES.
18. STONER & ASSOCIATES, INC., DID NOT SEARCH THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA FOR OWNERSHIP, RIGHTS-OF-WAY, EASEMENTS OR OTHER MATTERS AFFECTING THE PROPERTY BEING SURVEYED. THERE MAY BE ADDITIONAL RESTRICTIONS NOT SHOWN ON THIS SURVEY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.
19. THE INFORMATION CONTAINED IN THIS DOCUMENT WAS PREPARED BY STONER & ASSOCIATES, INC. (S&A). S&A HAS TAKEN ALL REASONABLE STEPS TO ENSURE THE ACCURACY OF THIS DOCUMENT. WE CANNOT GUARANTEE THAT ALTERATIONS AND/OR MODIFICATIONS WILL NOT BE MADE BY OTHERS AFTER IT LEAVES OUR POSSESSION. THIS DOCUMENT MUST BE COMPARED TO THE ORIGINAL HARD COPY (WHICH BEARS THE RAISED SURVEYOR'S CERTIFICATION SEAL IF APPLICABLE) TO ENSURE THE ACCURACY OF THE INFORMATION CONTAINED HEREON AND TO FURTHER ENSURE THAT ALTERATIONS AND/OR MODIFICATIONS HAVE NOT BEEN MADE. S&A MAKES NO WARRANTIES, EXPRESS OR IMPLIED, CONCERNING THE ACCURACY OF THE INFORMATION CONTAINED IN THIS OR ANY DOCUMENT TRANSMITTED OR REVIEWED BY COMPUTER OR OTHER ELECTRONIC MEANS. CONTACT S&A DIRECTLY FOR VERIFICATION OF ACCURACY.
20. ADDITIONS OR DELETIONS TO THIS SURVEY MAP BY OTHER THAN THE SIGNING PARTY OR PARTIES ARE PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
21. THE VERTICAL AND HORIZONTAL POSITIONAL ACCURACY OF WELL DEFINED IMPROVEMENTS ON THIS SURVEY IS ±0.10'.
22. THIS SURVEY MAP IS INTENDED TO BE DISPLAYED AT A SCALE OF 1/20 OR SMALLER.
23. CURRENT PROPERTY OWNER: CITY OF COCONUT CREEK, BROWARD COUNTY PROPERTY APPRAISER PARCEL ID # 4821-31-32-0020 (PARCEL "B") AND 4842-31-32-0040 (PARCEL "D")
24. THE DESCRIPTION OF THE SUBJECT PROPERTY FORMS A MATHEMATICALLY CLOSED FIGURE WITH NO GORES, GAPS, OVERLAYS OR HATUS.

### CERTIFIED TO:

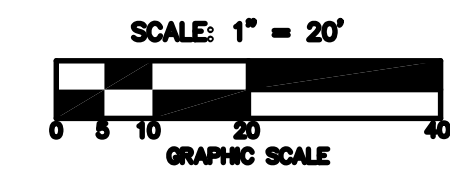
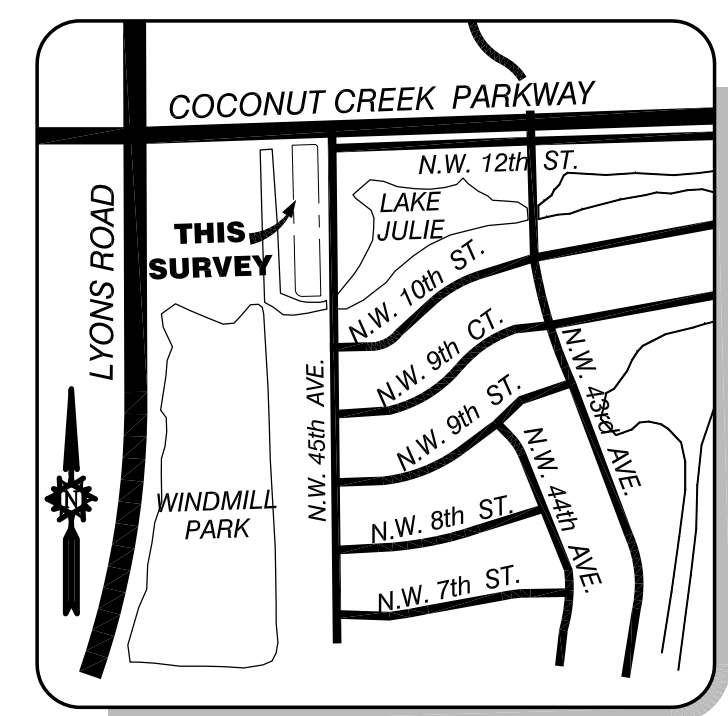
CPZ ARCHITECTS, INC.

### SURVEYOR'S CERTIFICATE:

THIS IS TO CERTIFY THAT THIS BOUNDARY AND TOPOGRAPHIC SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND IS ACCURATE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS BOUNDARY SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE.

### DATE:

WALTER DE LA ROCHA  
PROFESSIONAL SURVEYOR AND MAPPER NO. 6081  
STATE OF FLORIDA  
STONER & ASSOCIATES, INC. L.B. 6633  
wde@rocha81.net/surveyors.com



### LOCATION MAP

NOT TO SCALE

NO. REVISION DATE

50% CD SET 04/10/14

DRC COMM#2 04/17/14

### CONSULTANT:



CPZ & Associates, Inc.  
Consulting Engineers and Planners  
Florida Authorization # 0008245  
1400 N.W. 10th St., Suite 200  
Fort Lauderdale, FL 33304

PROPOSED NEW FIRE STATION 50  
NW 45 AVE.  
NW 43 AVE. & COCONUT CREEK PARKWAY  
COCONUT CREEK, FLORIDA

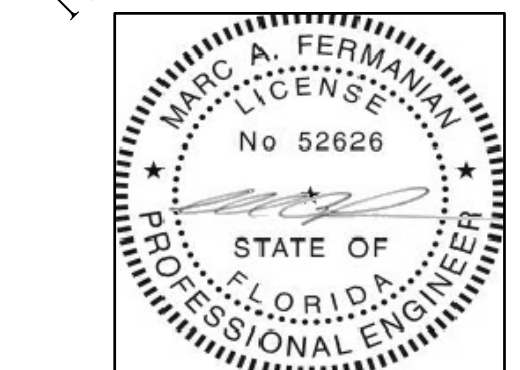
CPZ ARCHITECTS, INC.  
4316 WEST BROWARD BOULEVARD  
PLANTATION, FLORIDA 33317  
PHONE: (954) 792-8525 FAX: (954) 337-0359  
AA 12600685 WWW.CPZARCHITECTS.COM



DRAWING TITLE:

### SURVEY

DRAWN C.E.O.  
CHECKED M.A.F.  
DATE 04/10/2014  
SCALE AS NOTED  
PROJ. NO. CNK-1018  
SHEET:



MARC A. FERMANIAN, P.E.  
PROFESSIONAL ENGINEER NO. 52626  
STATE OF FLORIDA

DATE:

NOT FOR CONSTRUCTION

# BOUNDARY AND TOPOGRAPHIC SURVEY

NO. REVISION DATE

50% CD SET 04/10/14

DRC COMM#2 04/17/14

CONSULTANT:



CPZ & Associates, Inc.  
Consulting Engineers and Planners  
Florida Authorization # 0008245  
P.O. Box 100 - 100 - 100 - 100 - 100

PROPOSED NEW FIRE STATION 50  
NW 45 AVE.  
NW 43 AVE. & COCONUT CREEK PARKWAY  
COCONUT CREEK, FLORIDA

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DRAWING TITLE:

SURVEY

DRAWN C.E.O.

CHECKED M.A.F.

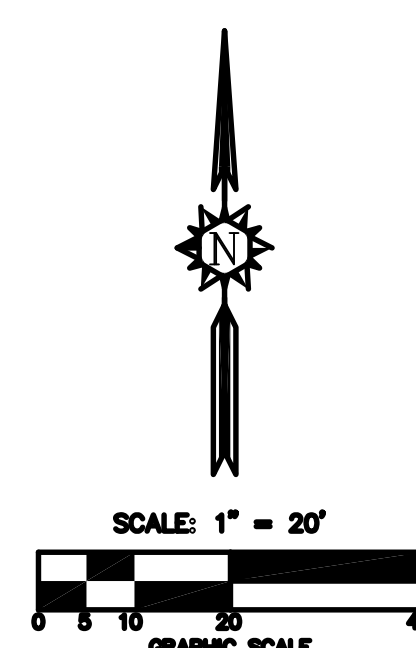
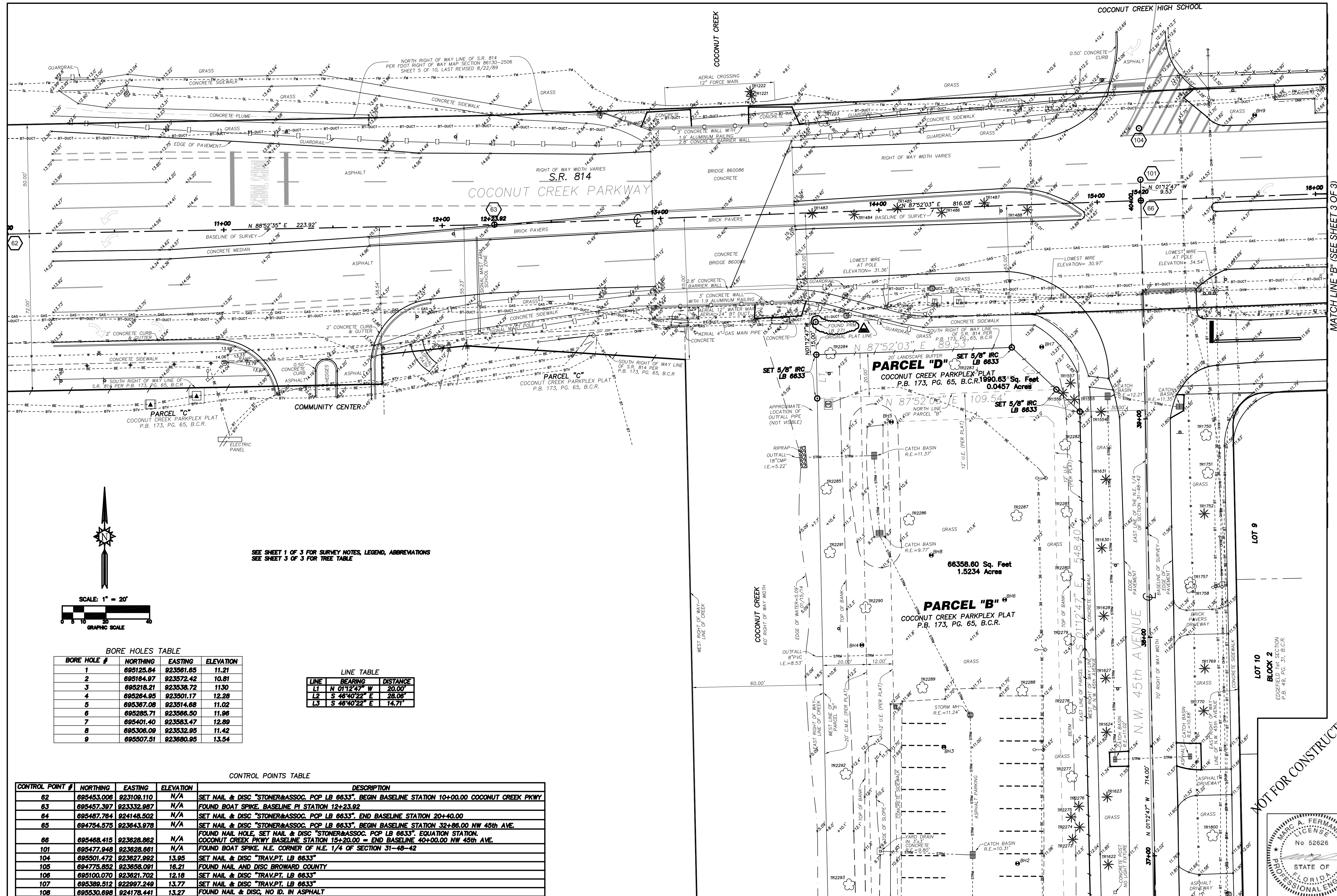
DATE 04/10/2014

SCALE AS NOTED

PROJ. NO. CNK-1018

SHEET:

G-3



SEE SHEET 1 OF 3 FOR SURVEY NOTES, LEGEND, ABBREVIATIONS  
SEE SHEET 3 OF 3 FOR TREE TABLE

**BORE HOLES TABLE**

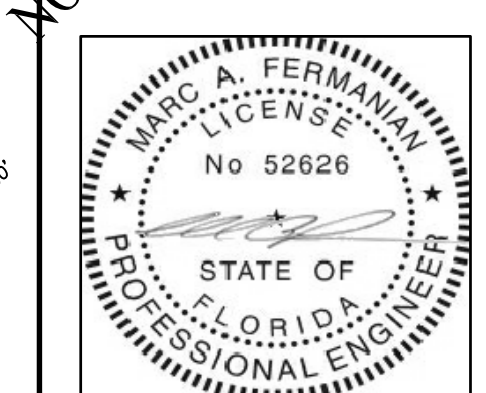
BORE HOLE #	NORTHING	EASTING	ELEVATION
1	695125.84	923561.65	11.21
2	695164.97	923572.42	10.81
3	695218.21	923538.72	11.30
4	695264.95	923501.17	12.28
5	695367.08	923514.68	11.02
6	695285.71	923566.50	11.96
7	695401.40	923583.47	12.89
8	695306.09	923532.95	11.42
9	695507.51	923680.95	13.54

**LINE TABLE**

LINE	BEARING	DISTANCE
L1	N 01°12'47" W	20.00'
L2	S 46°40'22" E	28.08'
L3	S 46°40'22" E	14.71'

**CONTROL POINTS TABLE**

CONTROL POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
62	695453.006	923109.110	N/A	SET NAIL & DISC "STONER&ASSOC. PCP LB 6633". BEGIN BASELINE STATION 10+00.00 COCONUT CREEK PKWY
63	695457.397	923332.987	N/A	FOUND BOAT SPIKE, BASELINE PI STATION 12+23.92
64	695487.764	924148.502	N/A	SET NAIL & DISC "STONER&ASSOC. PCP LB 6633". END BASELINE STATION 20+40.00
65	694754.575	923643.978	N/A	SET NAIL & DISC "STONER&ASSOC. PCP LB 6633". BEGIN BASELINE STATION 32+86.00 NW 45th AVE.
66	695468.415	923628.862	N/A	FOUND NAIL HOLE, SET NAIL & DISC "STONER&ASSOC. PCP LB 6633". EQUATION STATION, COCONUT CREEK PKWY BASELINE STATION 15+20.00 = END BASELINE 40+00.00 NW 45th AVE.
101	695477.948	923628.861	N/A	FOUND BOAT SPIKE, N.E. CORNER OF N.E. 1/4 OF SECTION 31-48-42
104	695501.472	923627.992	13.95	SET NAIL & DISC "TRAV.PT. LB 6633"
105	694775.852	923658.091	16.21	FOUND NAIL AND DISC BROWARD COUNTY
106	695100.070	923621.702	12.18	SET NAIL & DISC "TRAV.PT. LB 6633"
107	695389.512	922997.249	13.77	SET NAIL & DISC "TRAV.PT. LB 6633"
108	695530.698	924178.441	13.27	FOUND NAIL & DISC, NO ID. IN ASPHALT



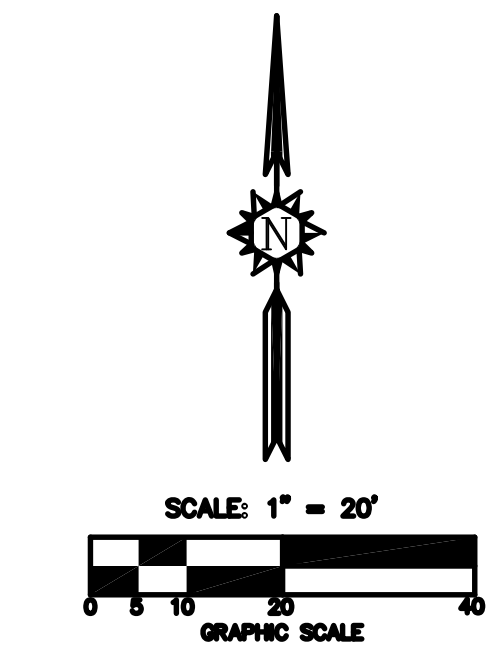
MATCH LINE "A" (SEE SHEET 1 OF 3)

MARC A. FERMANIAN, P.E.  
PROFESSIONAL ENGINEER NO. 52626  
STATE OF FLORIDA

DATE:

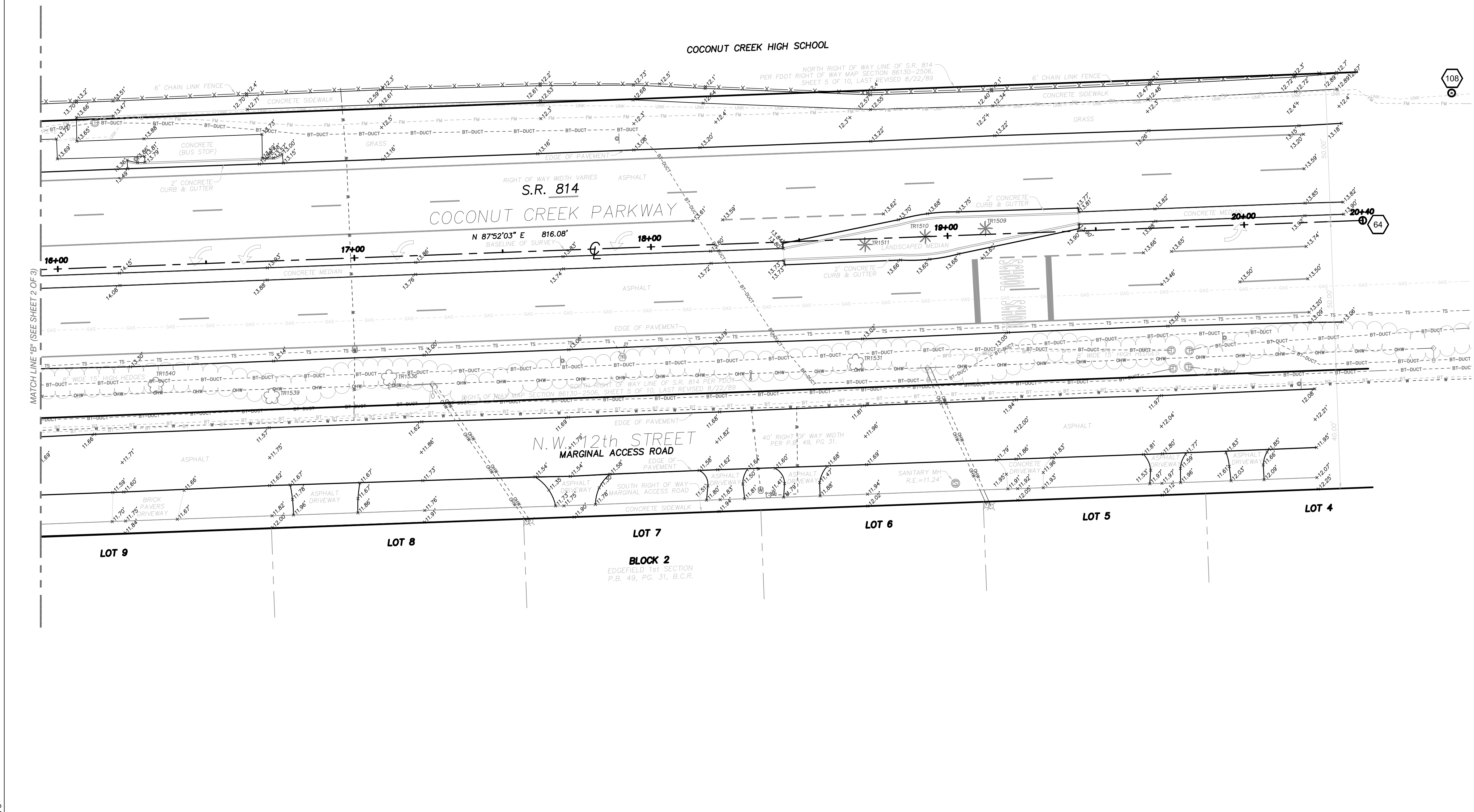
G-2.-3.-4.DWG

# BOUNDARY AND TOPOGRAPHIC SURVEY



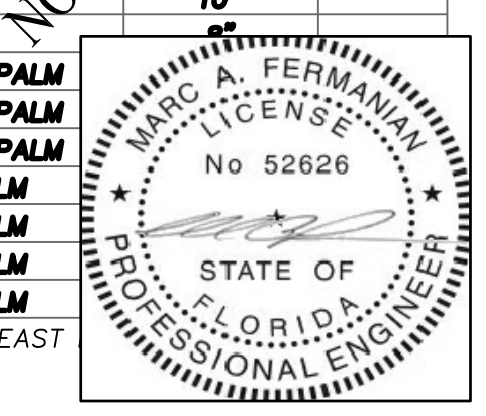
TREE TABLE			
TREE ID #	DESCRIPTION	TRUNK DBH	HEIGHT
1221	PALM	12"	
1222	PALM	12"	
1223	ACACIA	24"	
1483	SOLITARY PALM	4"	15'
1484	SOLITARY PALM	4"	14'
1485	SOLITARY PALM	4"	14'
1486	SOLITARY PALM	4"	15'
1487	SOLITARY PALM	4"	15'
1488	SOLITARY PALM	4"	14'
1509	SOLITARY PALM	4"	14'
1510	SOLITARY PALM	4"	14'
1511	SOLITARY PALM	4"	14'
1531	BOTTLE BRUSH	16"	
1536	YELLOW TABEBUIA	12"	
1539	YELLOW TABEBUIA	12"	
1540	YELLOW TABEBUIA	12"	
1554	PALM	12"	7'
1555	CABBAGE PALM	12"	15'
1556	CABBAGE PALM	11"	18'
1557	CABBAGE PALM	15"	16'
1620	PALM	12"	8'
1622	PALM	12"	8'
1623	PALM	12"	8'
1624	PALM	12"	8'
1627	PALM	12"	7'
1628	PALM	12"	8'
1630	PALM	12"	8'
1631	PALM	12"	7'
1750	PINK TABEBUIA	9"	
1751	PINK TABEBUIA	7"	
1752	PALM	12"	4'
1757	MAPLE	8"	
1758	MAPLE	8"	
1769	PALM	24"	4'
1770	PALM	24"	4'
1800	YELLOW TABEBUIA	15"	
1823	UNKNOWN	18"	
1854	PALM	12"	6'
1855	PALM	12"	6'
1881	BLACK OLIVE	24"	
1882	BLACK OLIVE	16"	
1883	PALM	12"	7'
1884	PALM	12"	7'
1885	PALM	12"	5'
1886	PALM	12"	8'
1887	UNKNOWN	8"	
1888	UNKNOWN	8"	
1889	ROYAL PALM	16"	16"
1890	CABBAGE PALM	12"	11"
1891	CABBAGE PALM	12"	12"
1893	CABBAGE PALM	12"	13"
1897	PALM	12"	4'
1898	PALM	8"	4'
1899	BLACK OLIVE	24"	
1903	BLACK OLIVE	24"	
2080	CABBAGE PALM	12"	21'
2081	UNKNOWN	6"	
2083	CABBAGE PALM	9.00	9'
2097	CABBAGE PALM	12"	18'
2098	UNKNOWN	12"	
2216	LIGUSTRUM	9"	
2220	OAK	15"	
2221	UNKNOWN	3"	
2223	UNKNOWN	3"	
2224	BLACK OLIVE	3"	
2225	UNKNOWN	3"	
2249	UNKNOWN	12"	
2251	CABBAGE PALM	12"	19'
2252	CABBAGE PALM	12"	15'
2253	CABBAGE PALM	12"	13'
2254	CABBAGE PALM	12"	15'
2269	CABBAGE PALM	12"	17'
2270	CABBAGE PALM	12"	15'
2271	CABBAGE PALM	10"	13'
2272	CABBAGE PALM	12"	13'
2273	CABBAGE PALM	14"	18'
2274	CABBAGE PALM	12"	13'
2275	CABBAGE PALM	10"	17'
2276	CABBAGE PALM	14"	18'
2277	OAK	20"	
2278	OAK	20"	
2279	OAK	16"	
2280	OAK	20"	
2281	OAK	18"	
2282	OAK	18"	
2283	UNKNOWN	12"	
2284	FICUS	60"	
2285	OAK	22"	
2286	UNKNOWN	10"	
2287	UNKNOWN	12"	
2288	UNKNOWN	12"	
2289	UNKNOWN	6"	
2290	OAK	22"	
2291	OAK	20"	
2292	OAK	10"	
2293	OAK		
2294	CABBAGE PALM		
2295	CABBAGE PALM		
2296	CABBAGE PALM		
2297	ROYAL PALM		
2298	ROYAL PALM		
2299	ROYAL PALM		
2300	ROYAL PALM		

DBH = DIAMETER AT BREAST



CONTROL POINTS TABLE				
CONTROL POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
62	695453.006	923108.110	N/A	SET NAIL & DISC "STONER&ASSOC. PCP LB 6633", BEGIN BASELINE STATION 10+00.00 COCONUT CREEK PKWY
63	695457.397	923332.987	N/A	FOUND BOAT SPIKE, BASELINE PI STATION 12+23.92
64	695487.784	924148.502	N/A	SET NAIL & DISC "STONER&ASSOC. PCP LB 6633", END BASELINE STATION 20+40.00
65	694754.575	923643.978	N/A	SET NAIL & DISC "STONER&ASSOC. PCP LB 6633", BEGIN BASELINE STATION 32+86.00 NW 45th AVE.
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101	695477.948	923628.661	N/A	FOUND BOAT SPIKE, N.E. CORNER OF N.E. 1/4 OF SECTION 31-48-42
104	695501.472	923627.992	13.95	SET NAIL & DISC "TRAV.PT. LB 6633"
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5	695367.08	923514.68	11.02
6	695285.71	923566.50	11.96
7	695401.40	923583.47	12.89
8	695306.09	923532.95	11.42
9	695507.51	923680.95	13.54



MARC A. FERMANIAN, P.E.  
PROFESSIONAL ENGINEER NO. 52626  
STATE OF FLORIDA

NO. REVISION DATE  
DRC COMMENTS 3/17/14

CONSULTANT:  
**CPZ**  
CPZ & Associates, Inc.  
Consulting Engineers and Planners  
Florida Authorization # 0008245  
100 NW 45th Ave., Ft. Lauderdale, FL 33309

PROPOSED NEW FIRE STATION 50  
NW 45 AVE.  
NW 43 AVE. & COCONUT CREEK PARKWAY  
COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.  
4316 WEST BROWARD BOULEVARD  
PLANTATION, FLORIDA 33317  
PHONE: (954) 792-8825 FAX: (954) 337-0359  
AA 1260685 WWW.CPZARCHITECTS.COM

DRAWING TITLE:  
**SURVEY**

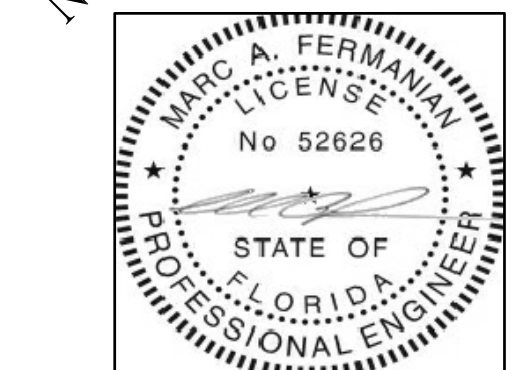
DRAWN C.E.O.  
CHECKED M.A.F.  
DATE 03/17/2014  
SCALE AS NOTED  
PROJ. NO. CNK-1018  
SHEET:  
**G-4**

DATE:



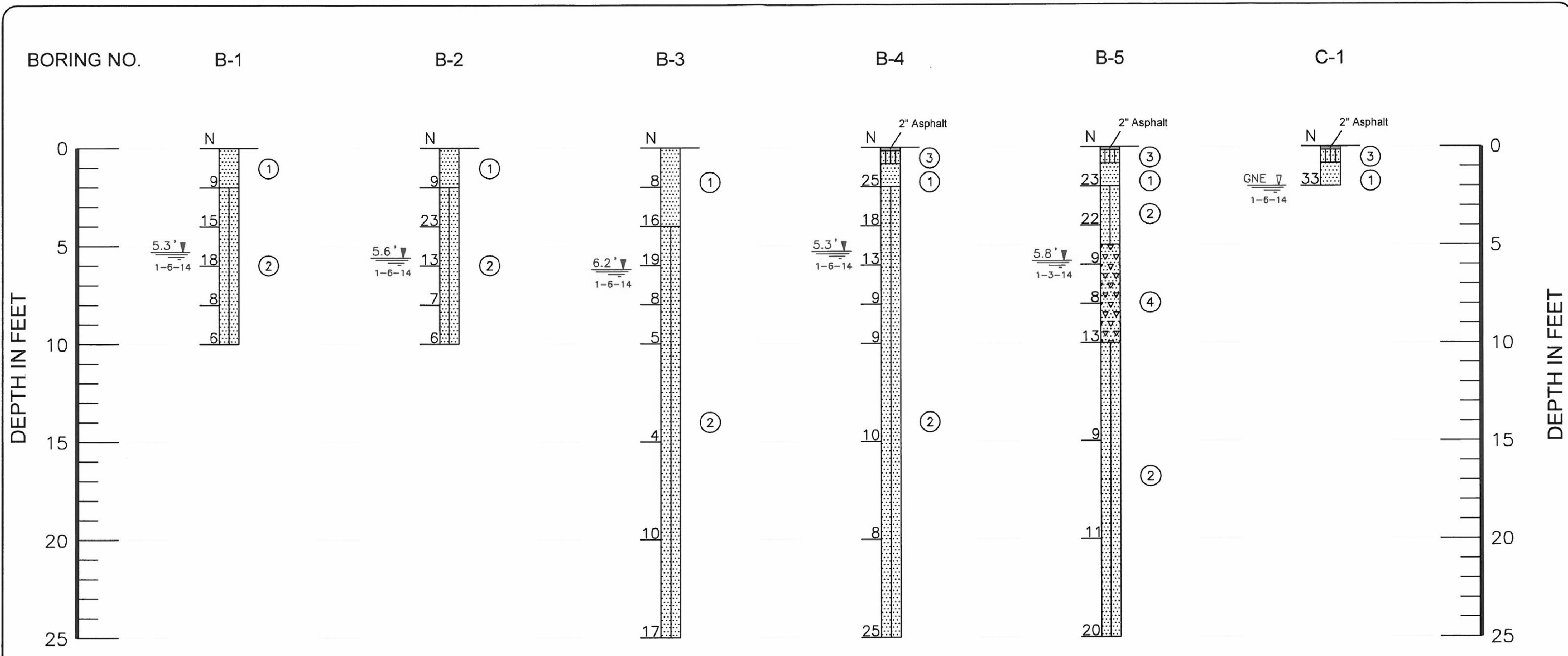


NOT FOR CONSTRUCTION





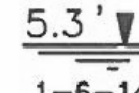
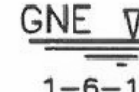


MARC A. FERMANIAN, P.E.  
 PROFESSIONAL ENGINEER NO. 52626  
 STATE OF FLORIDA

DATE:



**LEGEND**

-  ① Brown and light brown fine SAND, trace limestone fragments, trace silt (SP)
-  ② Brown, light brown and orange brown fine SAND, trace silt (SP)
-  ③ Brown and light brown SAND with limestone fragments (GP) (Aggregate Base Course)
-  ④ Brown and light brown fine SAND, trace to little limestone fragments, trace silt (SP)
- SP - Unified Soil Classification System Group Symbol (ASTM D 2487)
- N - Indicates the number of blows of a 140 pound hammer, freely falling a distance of 30 inches, required to drive a 2-inch diameter sampler 12 inches (ASTM D 1586)
- B-1 - Standard Penetration Test (SPT) boring and number
- C-1 - Pavement core and number
-  5.3' 1-6-14 - Depth of groundwater (feet) & date measured
-  GNE 1-6-14 - Groundwater not encountered

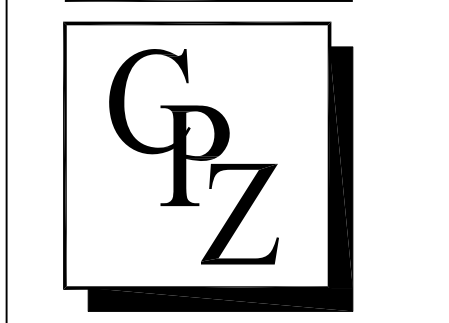
**NOTES**

- (1) Borings were drilled on January 3 and 6, 2014 using a Central Mine Equipment Model 55 (CME 55) drilling rig.
- (2) Strata boundaries are approximate and represent soil strata at each test hole location only. Soil transitions may be more gradual than implied.
- (3) Groundwater depths shown on the subsurface profiles represent groundwater surfaces on the dates shown. Groundwater level fluctuations should be anticipated throughout the year.

DRAWN	JJ	SUBSURFACE PROFILES	
CHECKED	RN	FIRE STATION 50	
APPROVED	TT	NW 45TH AVENUE & COCONUT CREEK PARKWAY	
SCALE	1" = 5'	COCONUT CREEK, FLORIDA	
REVISED		<b>DUNKELBERGER</b> engineering & testing, inc. A Terracon Company	
DATE	1-17-14	PROJ. NO.	34135011
		SHEET	A-2

**PROPOSED NEW FIRE STATION 50  
 NW 45 AVE.**  
 NW 43 AVE. & COCONUT CREEK PARKWAY  
 COCONUT CREEK, FLORIDA

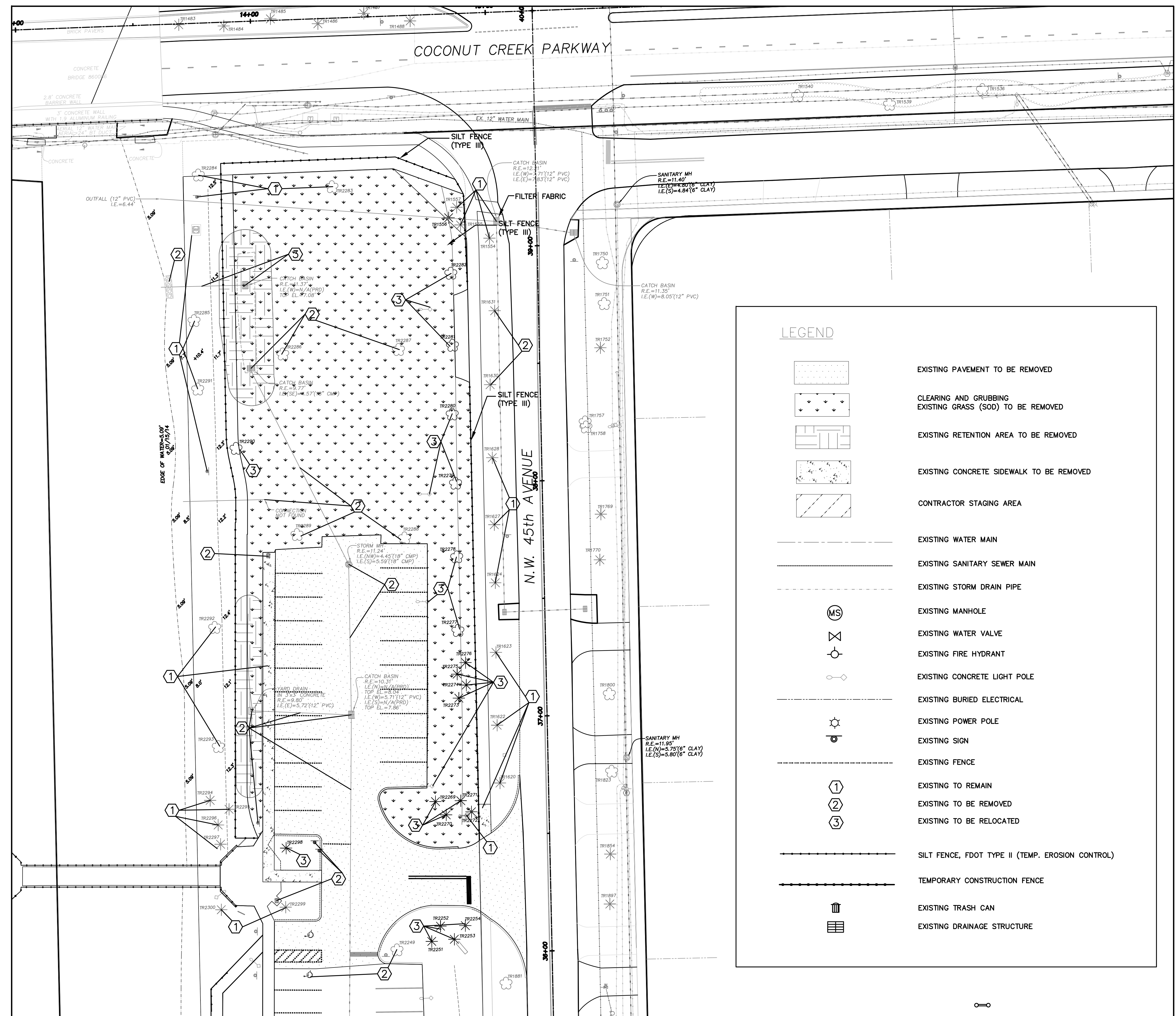
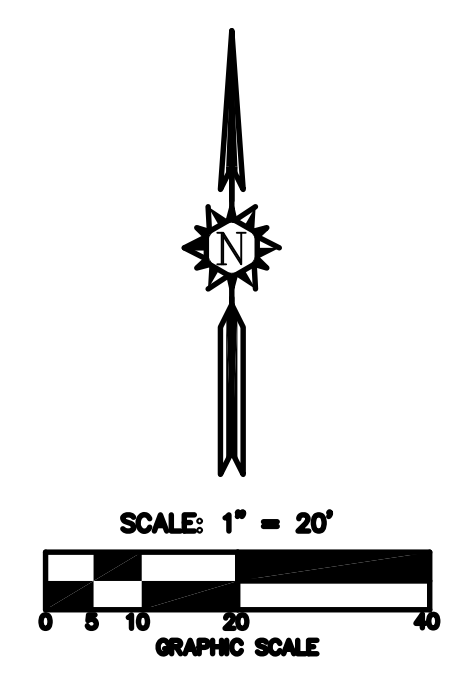
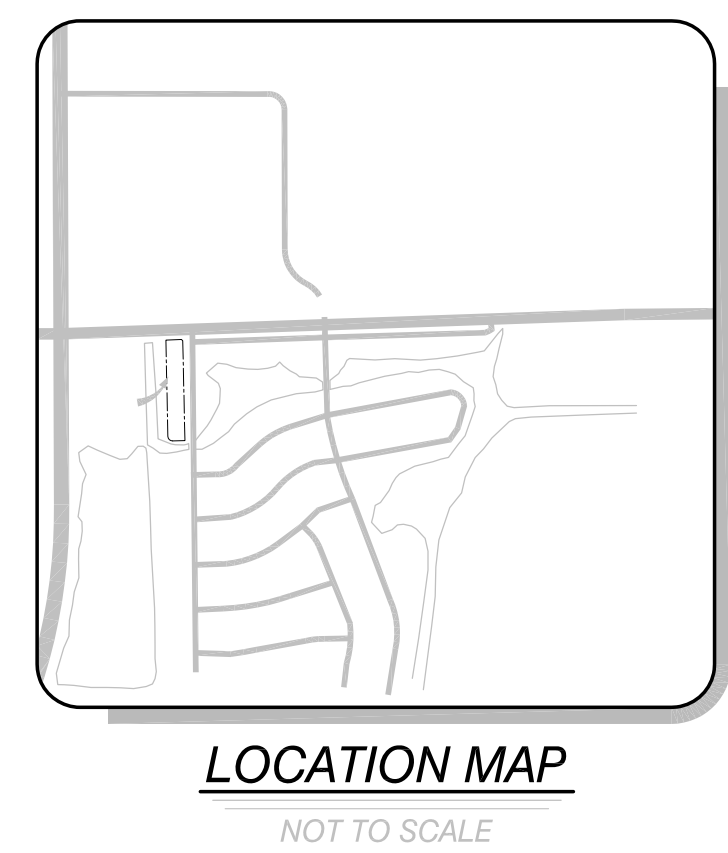
**CPZ ARCHITECTS, INC.**  
 4316 WEST BROWARD BOULEVARD  
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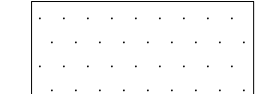
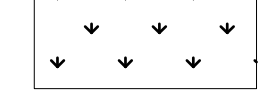

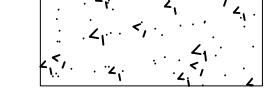
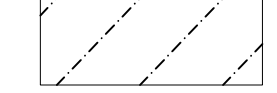



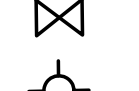
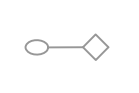




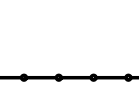
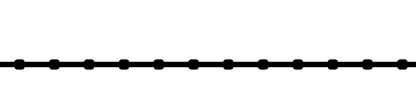



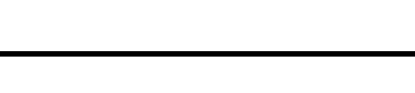



DRAWING TITLE:  
**DEMOLITION  
 PLAN AND  
 EROSION CONTROL**

DRAWN C.E.O.  
 CHECKED M.A.F.  
 DATE 03/17/2014  
 SCALE AS NOTED  
 PROJ. NO. CNK-1018  
 SHEET:

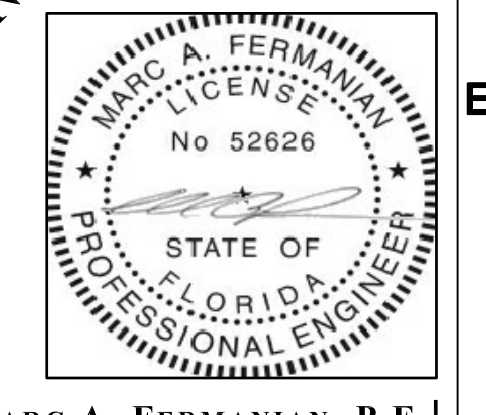
**G-7**



**LEGEND**

	EXISTING PAVEMENT TO BE REMOVED
	CLEARING AND GRUBBING EXISTING GRASS (SOD) TO BE REMOVED
	EXISTING RETENTION AREA TO BE REMOVED
	EXISTING CONCRETE SIDEWALK TO BE REMOVED
	CONTRACTOR STAGING AREA
	EXISTING WATER MAIN
	EXISTING SANITARY SEWER MAIN
	EXISTING STORM DRAIN PIPE
	EXISTING MANHOLE
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
	EXISTING CONCRETE LIGHT POLE
	EXISTING BURIED ELECTRICAL
	EXISTING POWER POLE
	EXISTING SIGN
	EXISTING FENCE
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	EXISTING TO BE RELOCATED
	SILT FENCE, FDOT TYPE II (TEMP. EROSION CONTROL)
	TEMPORARY CONSTRUCTION FENCE
	EXISTING TRASH CAN
	EXISTING DRAINAGE STRUCTURE

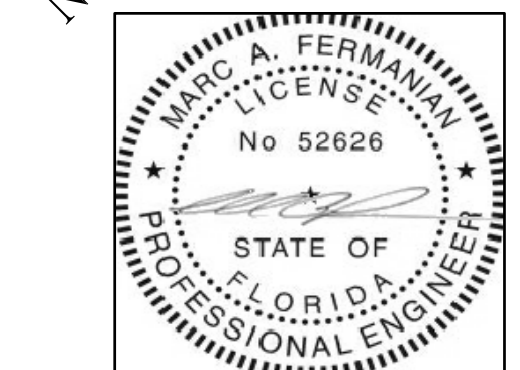
**NOT FOR CONSTRUCTION**



MARC A. FERMANIAN, P.E.  
 PROFESSIONAL ENGINEER NO. 52626  
 STATE OF FLORIDA



NOT FOR CONSTRUCTION



MARC A. FERMANIAN, P.E.  
 PROFESSIONAL ENGINEER NO. 52626  
 STATE OF FLORIDA

DATE:

4. OTHER CONTROLS

- A.) Waste Disposal: The Contractor shall provide litter control and collection within the construction boundaries during the duration of construction activity. All fertilizer, hydrocarbons, or other hazardous materials utilized during construction shall be disposed of by the Contractor according to local, State and Federal (EPA) standard practices as detailed by the manufacturer.
- B.) Sanitary Waste: This project can be classified as being a "rural" area. The Contractor's field office will require permits for sewage treatment in accordance with FAC 64E-6, "Standards for On-Site Sewage Disposal Systems." Portable units provided by the Contractor will be serviced by a licensed sanitary waste management contractor a minimum of three time per week.
- C.) Non-Stormwater Contaminants : If contaminated soils and/or groundwater is encountered during excavation, the Contractor will notify the Field Engineer immediately.

5. MAINTENANCE OF EROSION AND SEDIMENT CONTROLS

- A.) The Contractor shall be responsible for daily inspection and maintenance of all control devices throughout the construction phasing. Maintenance shall be conducted in accordance with "FDOT Standard Specifications for Road and Bridge Construction (2013)" Section 104, and "FDOT Roadway and Traffic Design Standards (2013 or latest edition)" Standard Indices 100 - 106.
- B.) All devices will be maintained in good working order; if repair is necessary, it will be completed within 24 hours of report.
- C.) Built up sediment shall be removed from the Staked Silt Fence and Hay Bales when it reaches one-third the fence height.
- D.) Staked Silt Fencing will be inspected for depth of sediment, tears in fabric, to determine if fabric is securely attached to the fence posts, and to determine if the fence posts are hammered firmly into the ground.

6. INSPECTION

The Field Engineer shall be responsible for completing the weekly inspection reports and submission of the reports to the Department of Environmental Protection (DEP) on a monthly basis. Inspection will be conducted and recorded after rainfall events greater than 0.25 inches.

7. PERMITS

SFWM CONSTRUCTION PERMIT NO. 50-00471-S

**SILT FENCE NOTES**

- SILT FENCE SHALL BE IN PLACE PRIOR TO GRADING.
- SILT FENCE AND FILTER FABRIC MUST BE ENTRENCHED.
- POSTS FOR SILT FENCES SHALL BE EITHER 2.5 X 2 INCH DIAMETER WOOD OR 1.25 POUNDS PER LINEAR FOOT STEEL WITH A MINIMUM LENGTH OF 5 FEET. STEEL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.
- WIRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MINIMUM OF 42 INCHES IN HEIGHT, A MINIMUM OF 14 GAUGE AND SHALL HAVE A MAXIMUM MESH SPACING OF 6 INCHES.
- POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MIN. OF 12 INCHES) WHEN EXTRA STRENGTH FABRIC IS USED. WITHOUT THE WIRE SUPPORT FENCE, POSTS SHALL NOT EXCEED 8 FEET.
- WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POST.
- SEDIMENT MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ON-HALF THE HEIGHT OF THE BARRIER.
- ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE PROPOSED AND EXISTING GRADES, PREPARED AND SEEDDED.
- UNDER NO CIRCUMSTANCES SHALL SILT FENCE BE CONSTRUCTED IN LIVE STREAMS.
- SILT FENCE SHALL BE REMOVED UPON COMPLETION OF THE PROJECT OR AT A TIME DIRECTED BY THE OWNER. IF THE OWNER FEELS IT IS NECESSARY FOR THE SILT FENCE TO REMAIN IN PLACE FOR SOME GIVEN TIME AFTER CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL LEAVE IT IN PLACE, IN THE PROPERLY INSTALLED WAY, AND WILL, AT THE DIRECTION OF THE OWNER, REMOVE IT AT NO ADDITIONAL COST TO THE OWNER WHEN THE OWNER DEEMS IT APPROPRIATE.

2. EROSION AND SEDIMENT CONTROLS

A.) Implementation of Erosion Controls: The sequence of Construction will be in accordance to the Maintenance of Traffic (M.O.T.) Plan Sheets as presented within these Plans. Installation of controls will be in accordance with the Plans, Technical Specification, and "FDOT Standard Specifications for Road and Bridge Construction (2013)" Section 104. At the Contractor's own expense and discretion, an alternative plan may be implemented.

in order to enhance appropriate control of site erosion during environmentally sensitive construction activity. The Contractor shall supply PBIA & Owner with SWPP Plan Changes signed and sealed by a registered Professional Engineer for implementation of alternate control measures.

B.) Drainage Conveyance: Drainage during construction of this Project will be conveyed within the Project Limits as found in the existing site conditions and demonstrated throughout the construction plans.

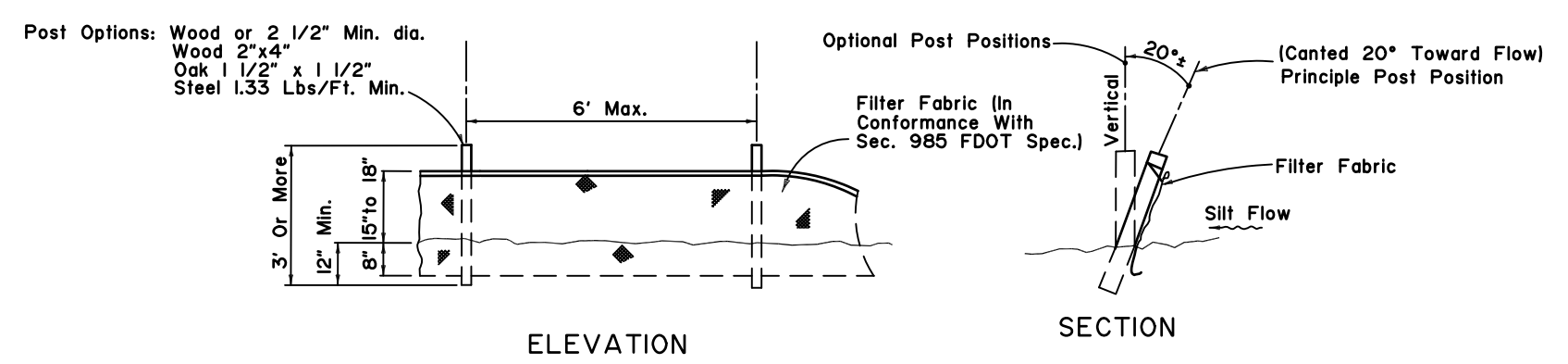
3. EROSION AND SEDIMENT CONTROL SYSTEM

- A.) During construction, the Contractor will provide temporary seeding and/or mulching for areas which have been cleared and not reworked within three calendar days. The entire disturbed areas will be graded, sodded and/or seeded upon completion. The cost of Temporary Seeding & Watering and Mulching will be paid under the Seeding and Sodding pay item number.
- B.) All inlets shall be protected from sediment intake for the entire duration of the project. Hay bales shall be installed around inlets, where necessary.
- C.) Fencing shall be used throughout the project's length; silt fencing location will be verified by the Project Engineer.
- D.) Floating Turbidity Barriers shall not be utilized for this Project.

- E.) Temporary Erosion Control devices are shown within the Plans and are quantified below:  
 Staked Silt Fence (LF) = 3,450 LF  
 Hay Bales w/ stakes (EA) = 0 BALES  
 Floating Turbidity Barriers (LF) = 0 LF

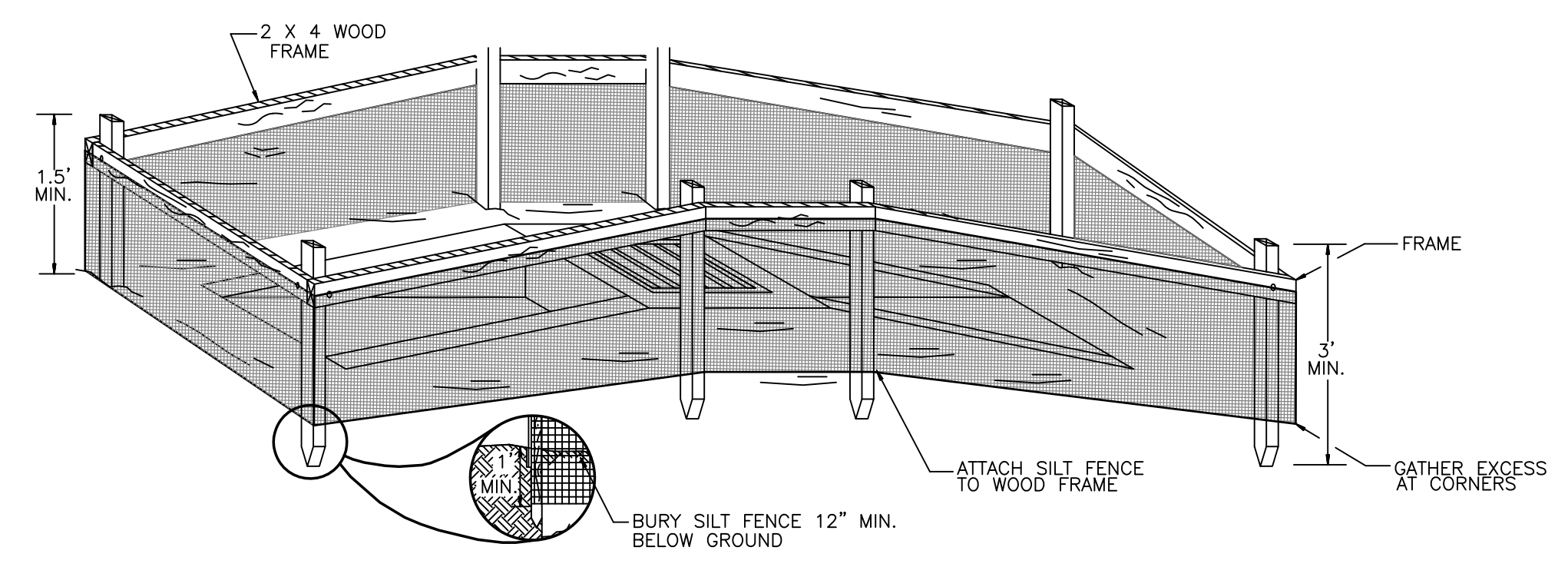
The devices itemized above will be implemented according to this narrative, the Technical Specifications, and the Plans.

F.) Additional Sedimentation and Erosion Control devices may be utilized as deemed necessary by the Field Engineer. Additional devices will be an incidental cost incurred by the Contractor.

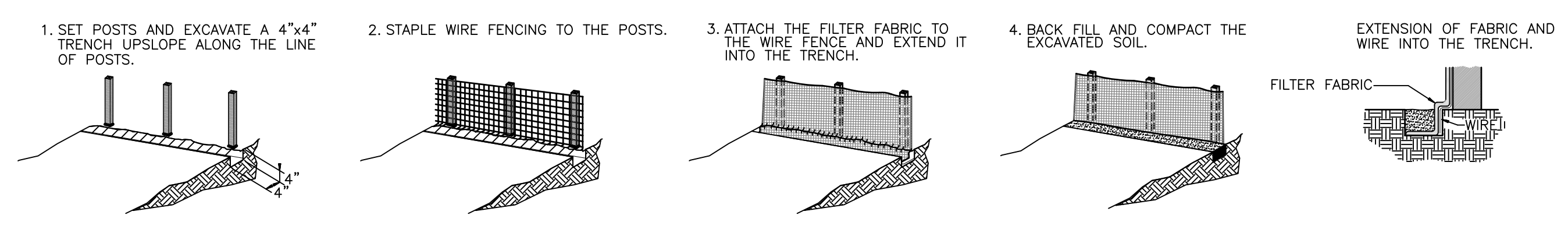


Note: Silt Fence to be paid for under the contract unit price for Staked Silt Fence (LF).

**FDOT TYPE III SILT FENCE**  
 N.T.S.



**TYPICAL DRAINAGE INLET SEDIMENTATION PROTECTION DETAIL**  
 NTS



NOTE: SEE STORM WATER POLLUTION PREVENTION PLAN FOR LOCATION OF ALL SILT FENCE.

**SILT FENCE CONSTRUCTION DETAILS**  
 NTS

1. SITE DESCRIPTION

Construction Activity: The work consists of constructing an apron area for Hangar H of Galaxy Aviation at Palm Beach International Airport (PBIA) in Palm Beach County, Florida. Construction activities include: Placing/grading fill for new hangar and office space building, site development, asphalt apron and extension to taxilane tug area, installation of swale retention area.

Project Limits: All proposed construction activities are within The Legal Property Limits of Palm Beach International Airport. Property limits are within Section 36, Township 43 South, Ranges 42 and 43 East of Palm Beach County, Florida.

Major Soil Disturbing Activities: Soil disturbing activities (i.e., excavation, fill, and site grading) will be associated with site clearing and grubbing activities, placing/grading fill material for asphalt apron area, and installation of swale retention area. Soil disturbing activities will be conducted in construction phases to limit the exposure of bare soils to reduce soil loss due to erosion.

The Contractor shall be responsible for minimizing erosion potential by providing temporary seeding and water for areas that have been cleared and will remain inactive for a period greater than three calendar days.  
 Total Project Area = 9.19 Ac  
 Total Area to be Disturbed = 9.19 Ac

Runoff Coefficients Before, During, and After Construction Activities:  
 Runoff Coefficient (Before) = 0.35 (Grassed/Commercial Property)  
 Runoff Coefficients (During) = 0.70 (Exposed Soil)  
 Runoff Coefficients (After) = 0.90 (Finished Aircraft Apron With Grass Swale)

Runoff Coefficients will vary during construction from 0.35 to 0.90 in proportion to the construction completeness.

Description of Soils: General soils information was obtained from the US Department of Agriculture Soil Conservation Service's Soil Survey of Palm Beach County, December 1978 edition. Soils within the Project Limits vary by nomenclature but consist of Sands/Urban Land Fill and have a composite hydrologic classification of type "A/D"

Name of Receiving Body of Water: The project stormwater system outfalls into the SFWMD C-51 canal which lies in with the intracoastal Waterway and ultimately outfalls into the Atlantic Ocean.

Wetland Area: there are no jurisdictional wetlands involved with the Project.

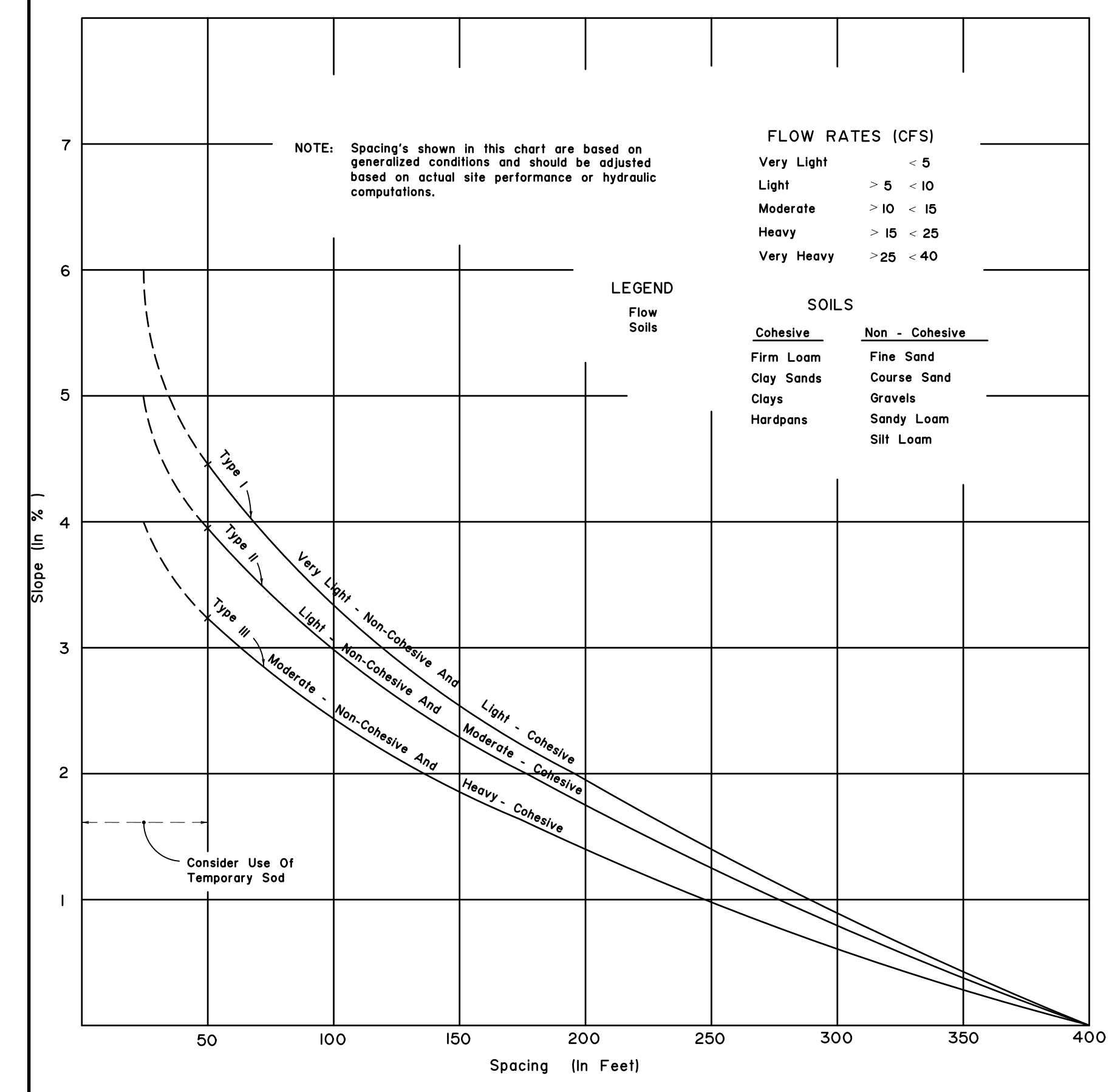


CHART I  
 RECOMMENDED SPACING FOR TYPE I AND TYPE II HAY BALE BARRIERS, AND TYPE III SILT FENCES

CONSULTANT:



CRJ & Associates, Inc.  
Consulting Engineers and Planners  
Florida Authorization # 0008245  
10000 NW 10th St., Suite 200, Ft. Lauderdale, FL 33304

PROPOSED NEW FIRE STATION 50  
NW 45 AVE.  
NW 43 AVE. & COCONUT CREEK PARKWAY  
COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.

4316 WEST BROWARD BOULEVARD  
PLANTATION, FLORIDA 33317  
PHONE: (954) 792-8525 FAX: (954) 337-0359  
AA 12600685 WWW.CPZARCHITECTS.COM



DRAWING TITLE:

SECTIONS

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CHECKED	M.A.F.
DATE	03/17/2014
SCALE	AS NOTED
PROJ. NO.	CNK-101B
SHEET:	

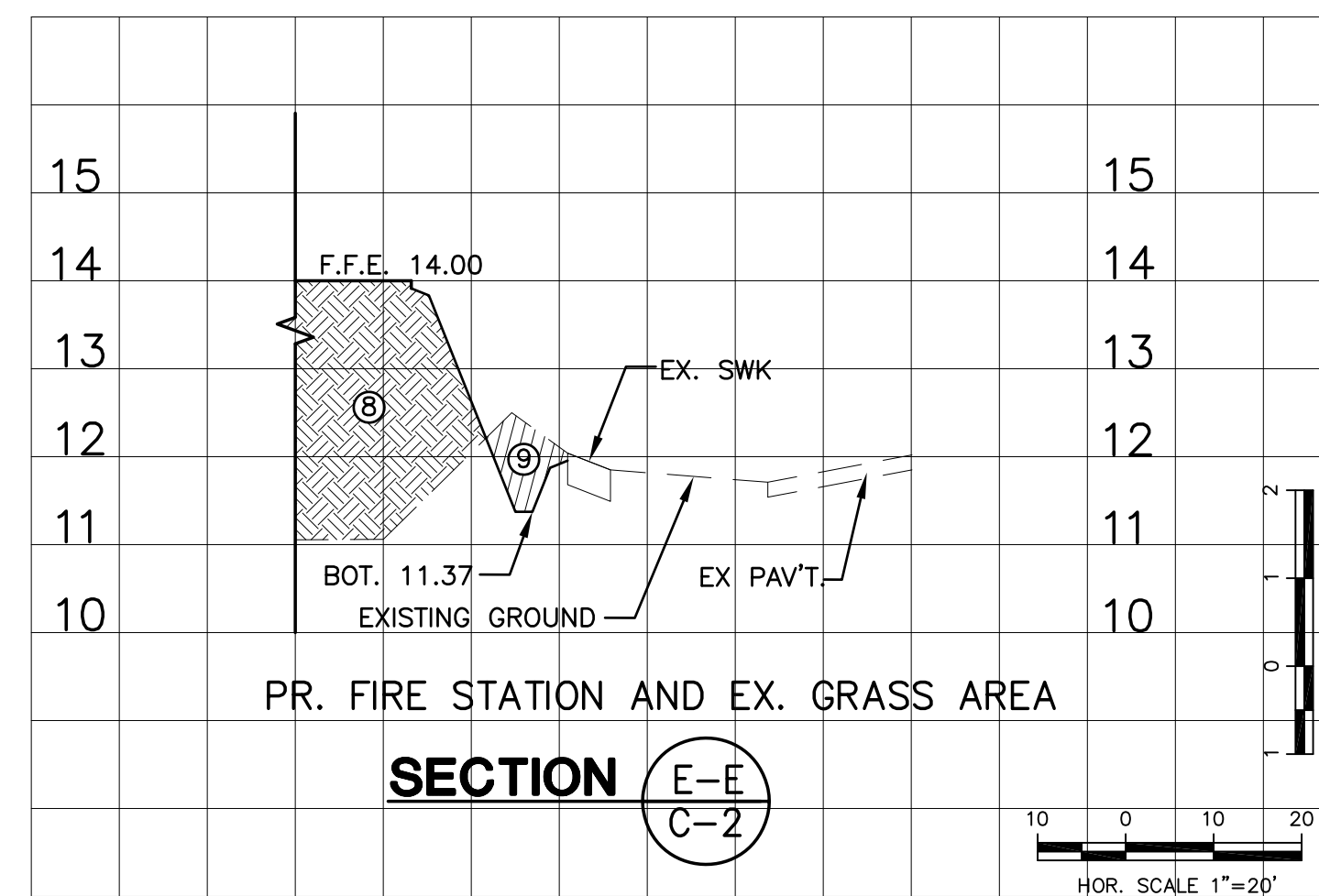
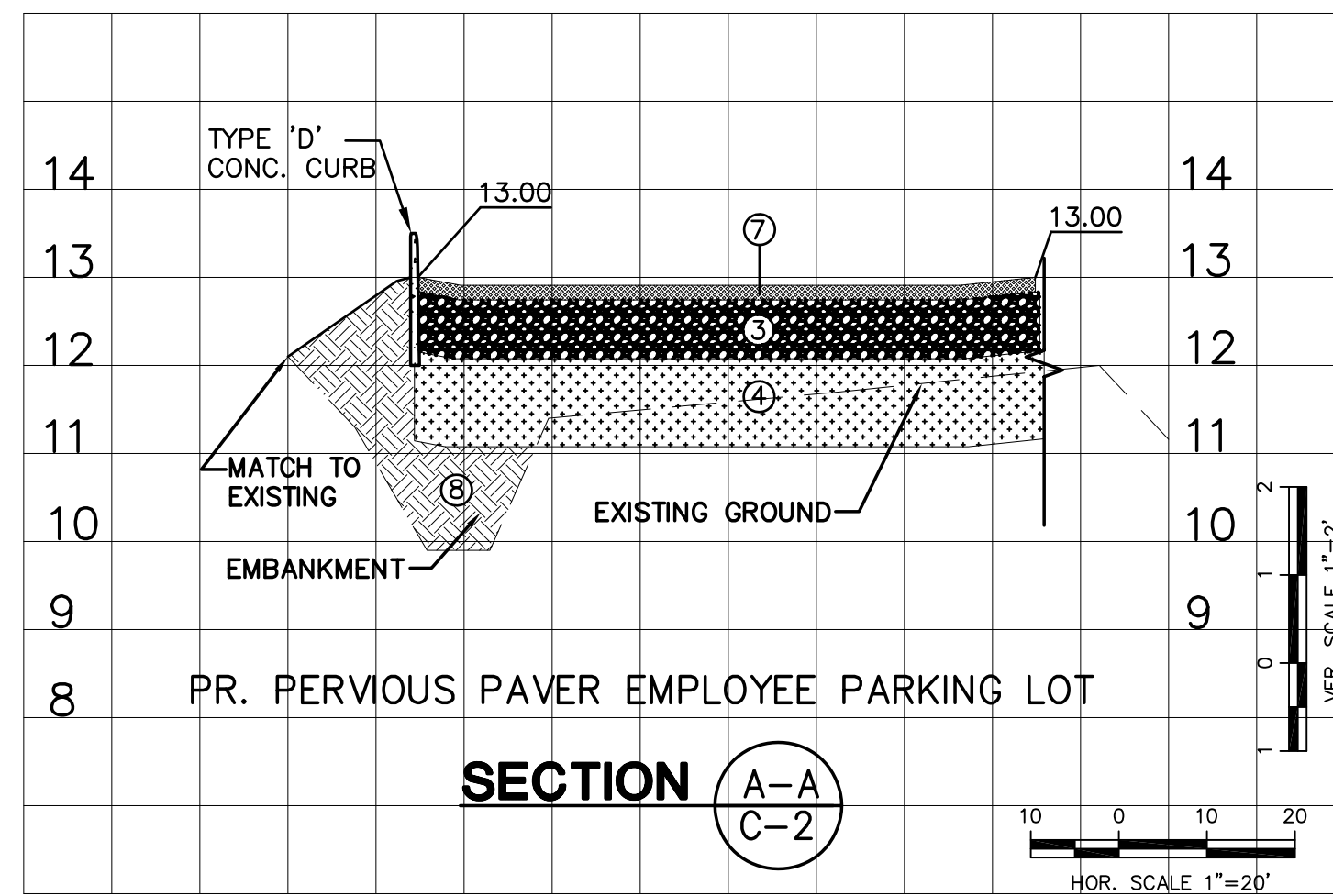
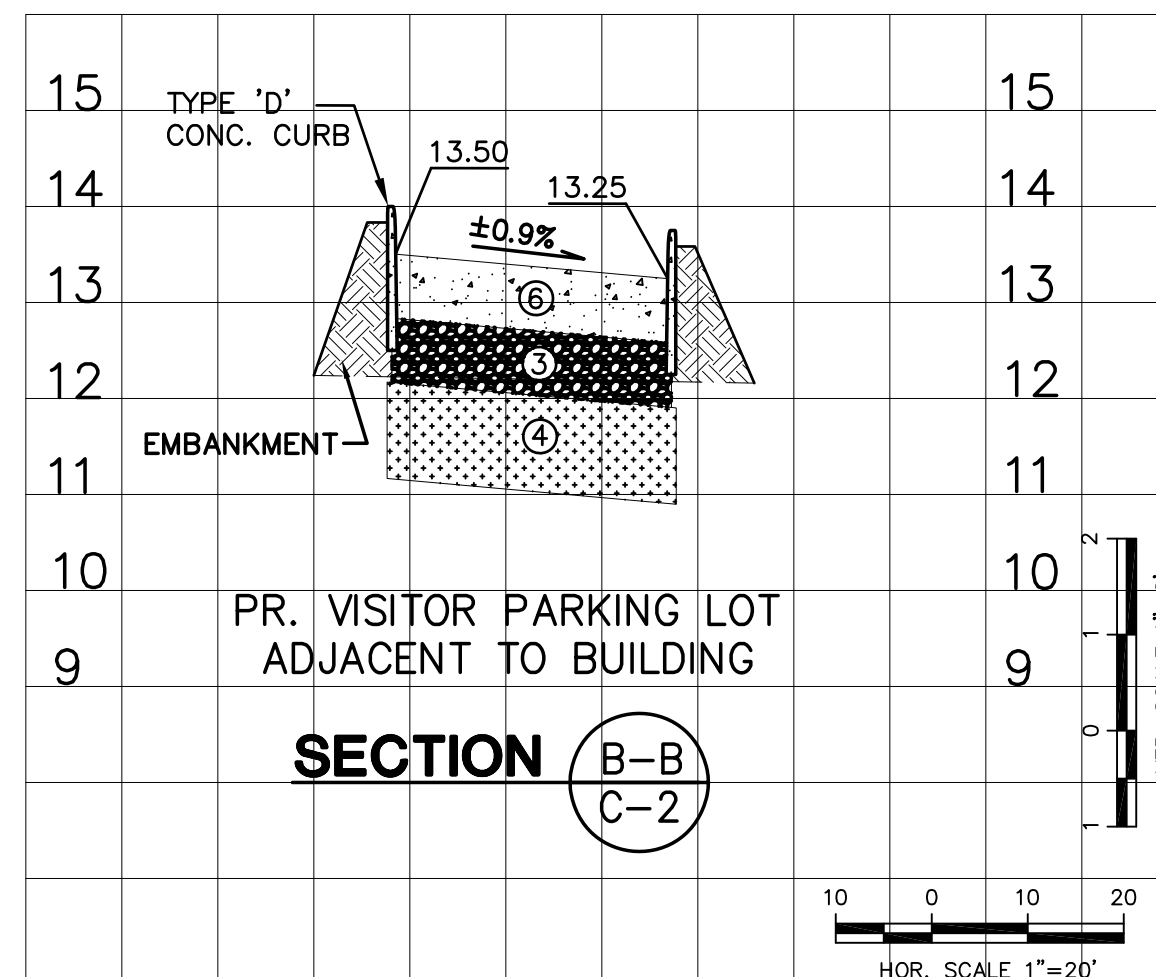
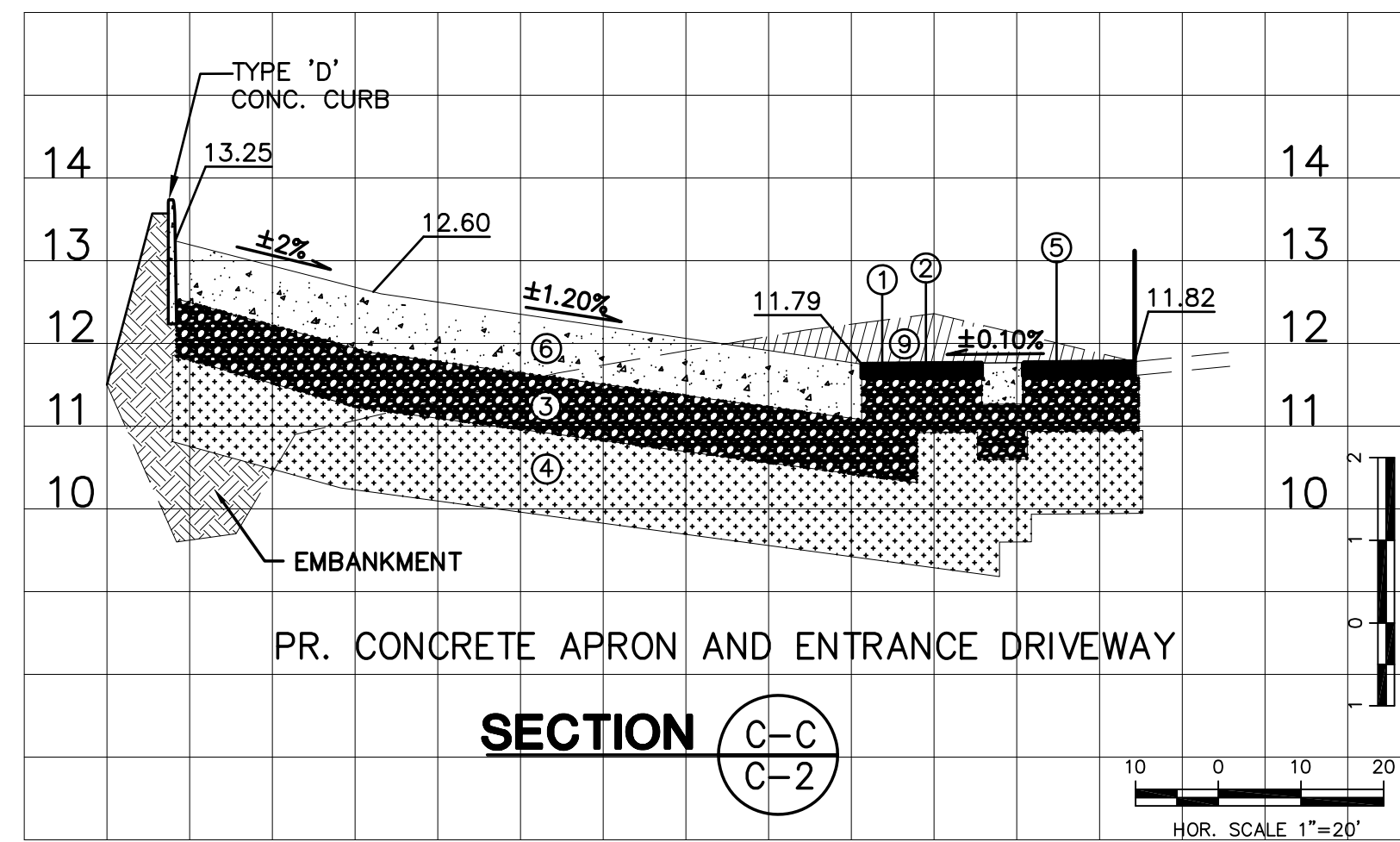
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NOT FOR CONSTRUCTION



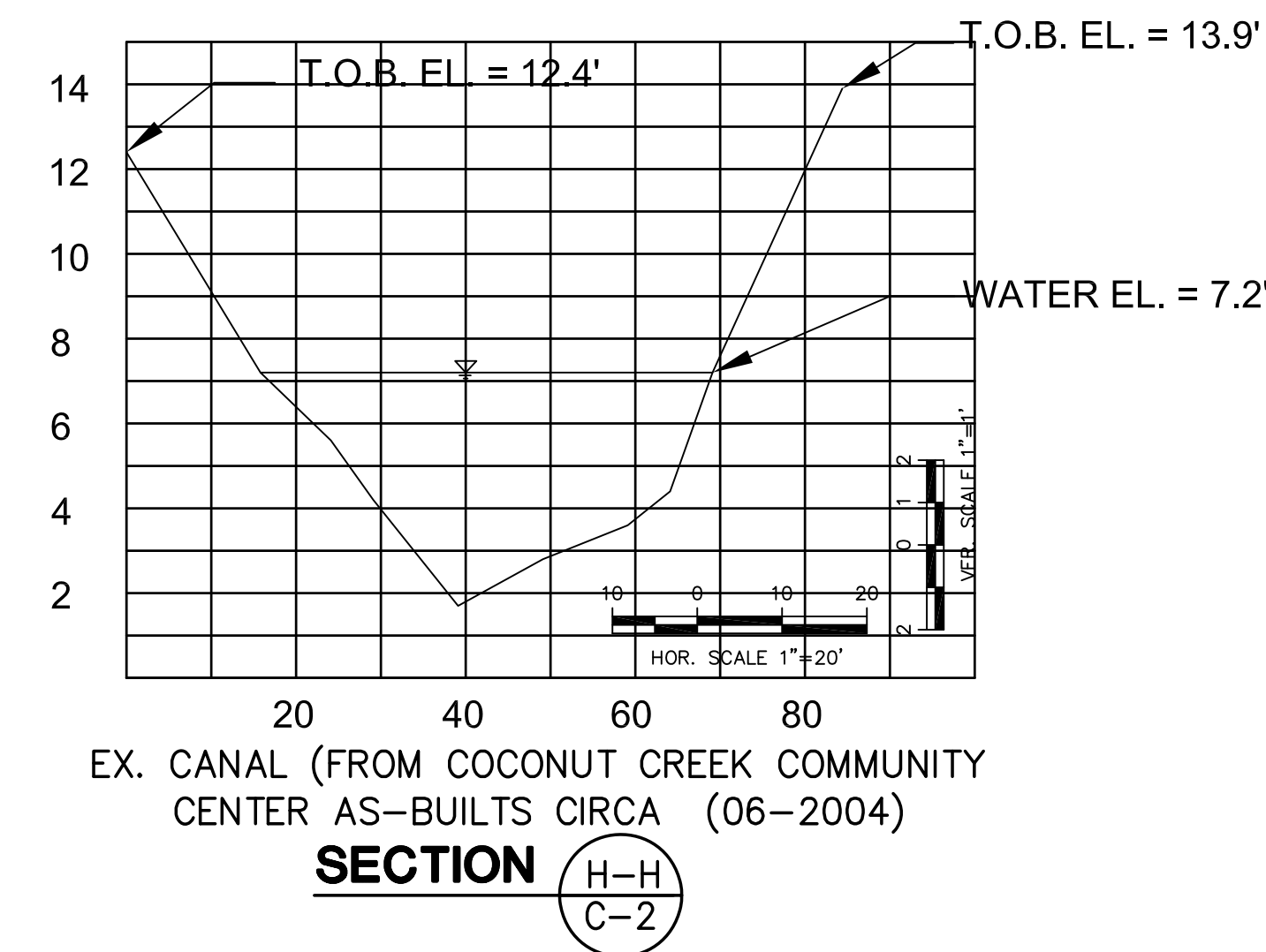
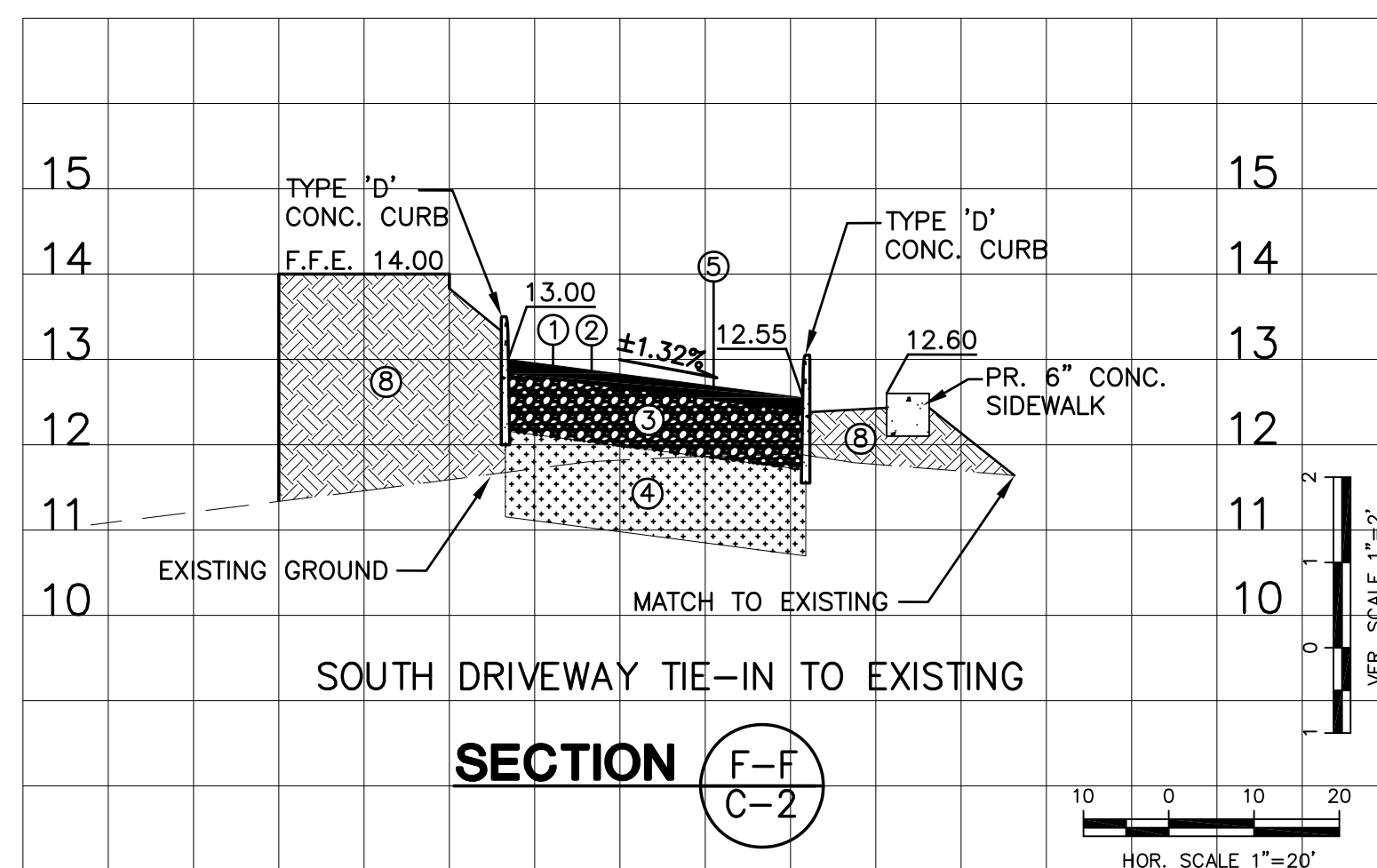
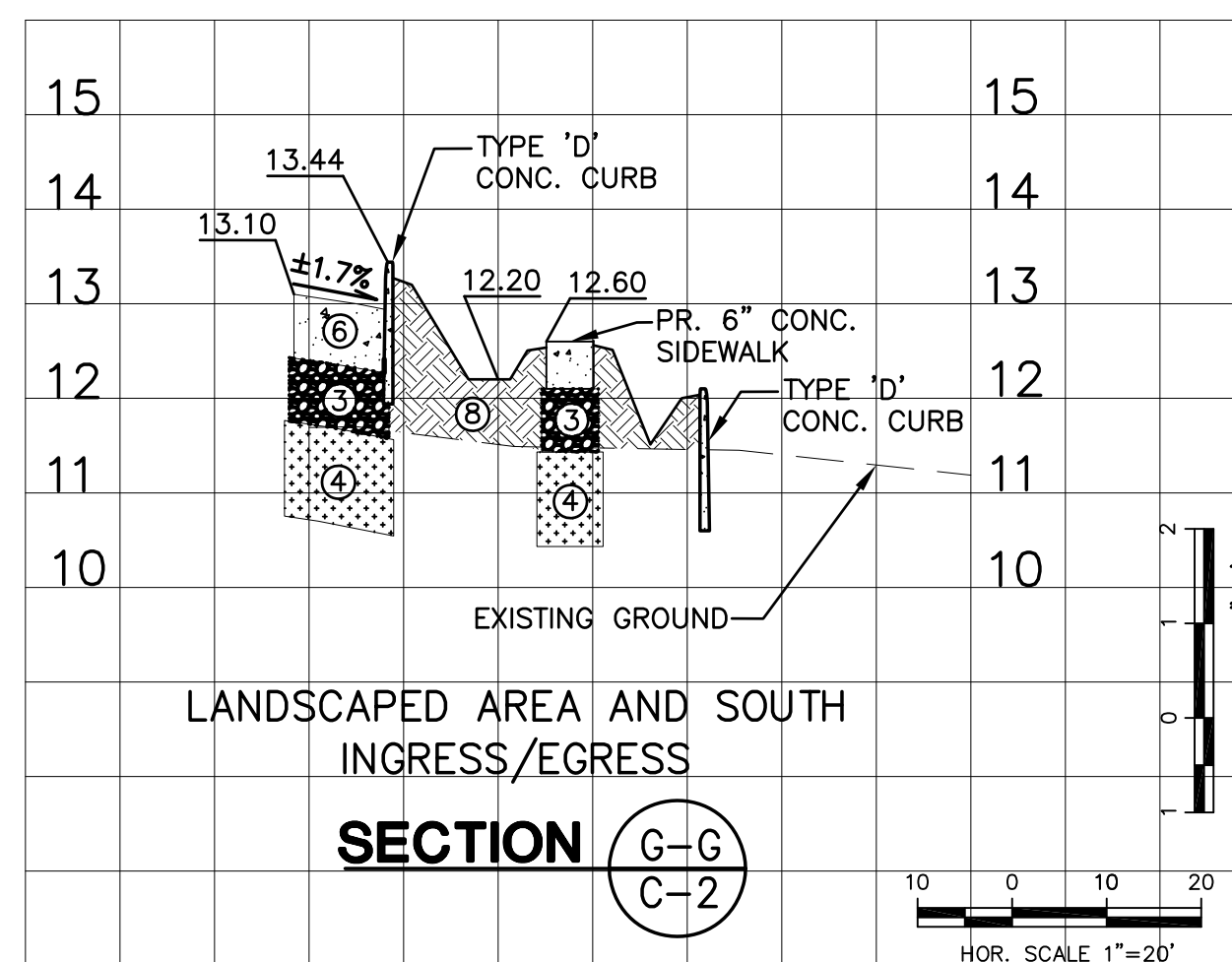
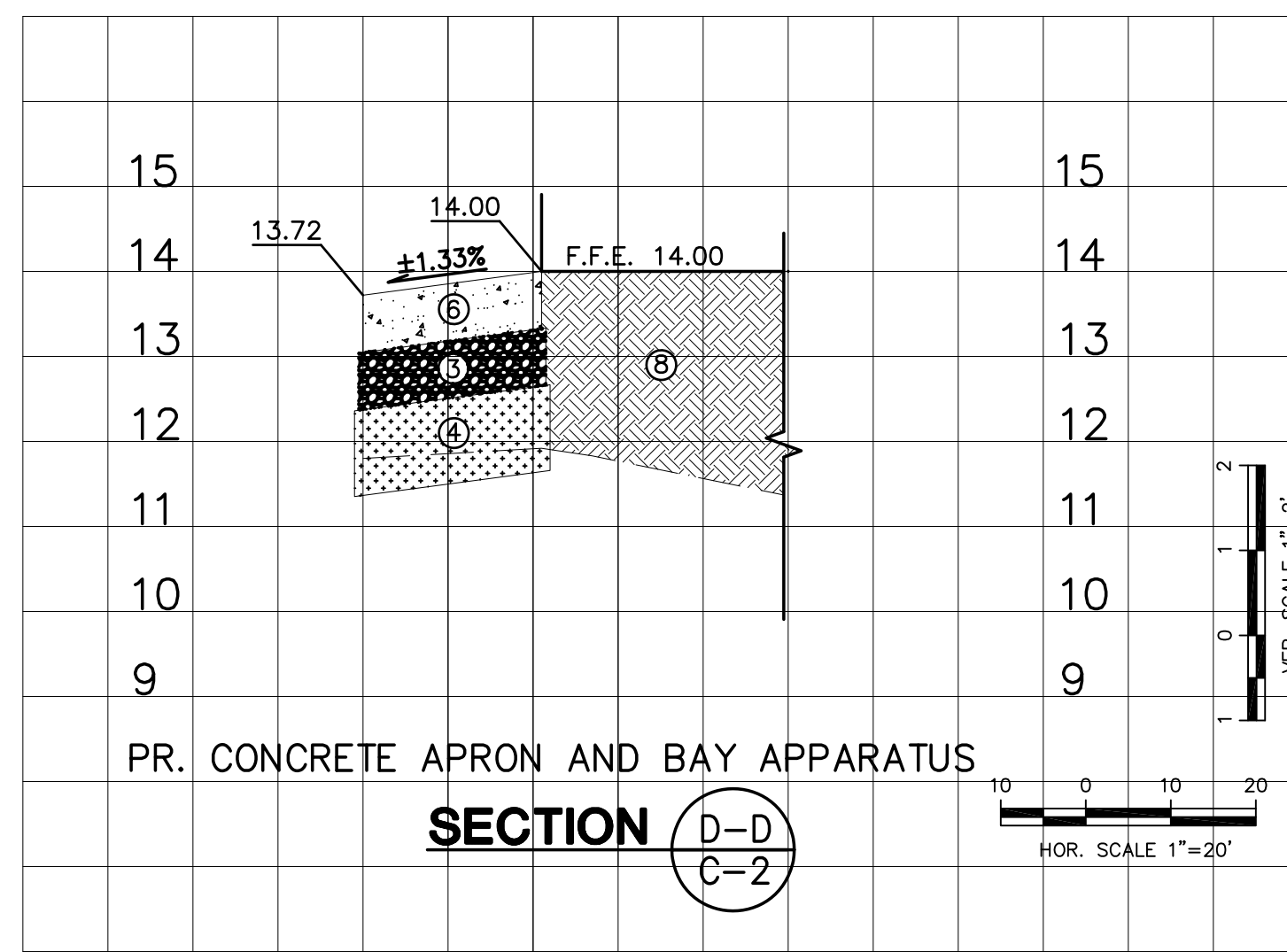
MARC A. FERMANIAN, P.E.  
PROFESSIONAL ENGINEER NO. 52626  
STATE OF FLORIDA

DATE:

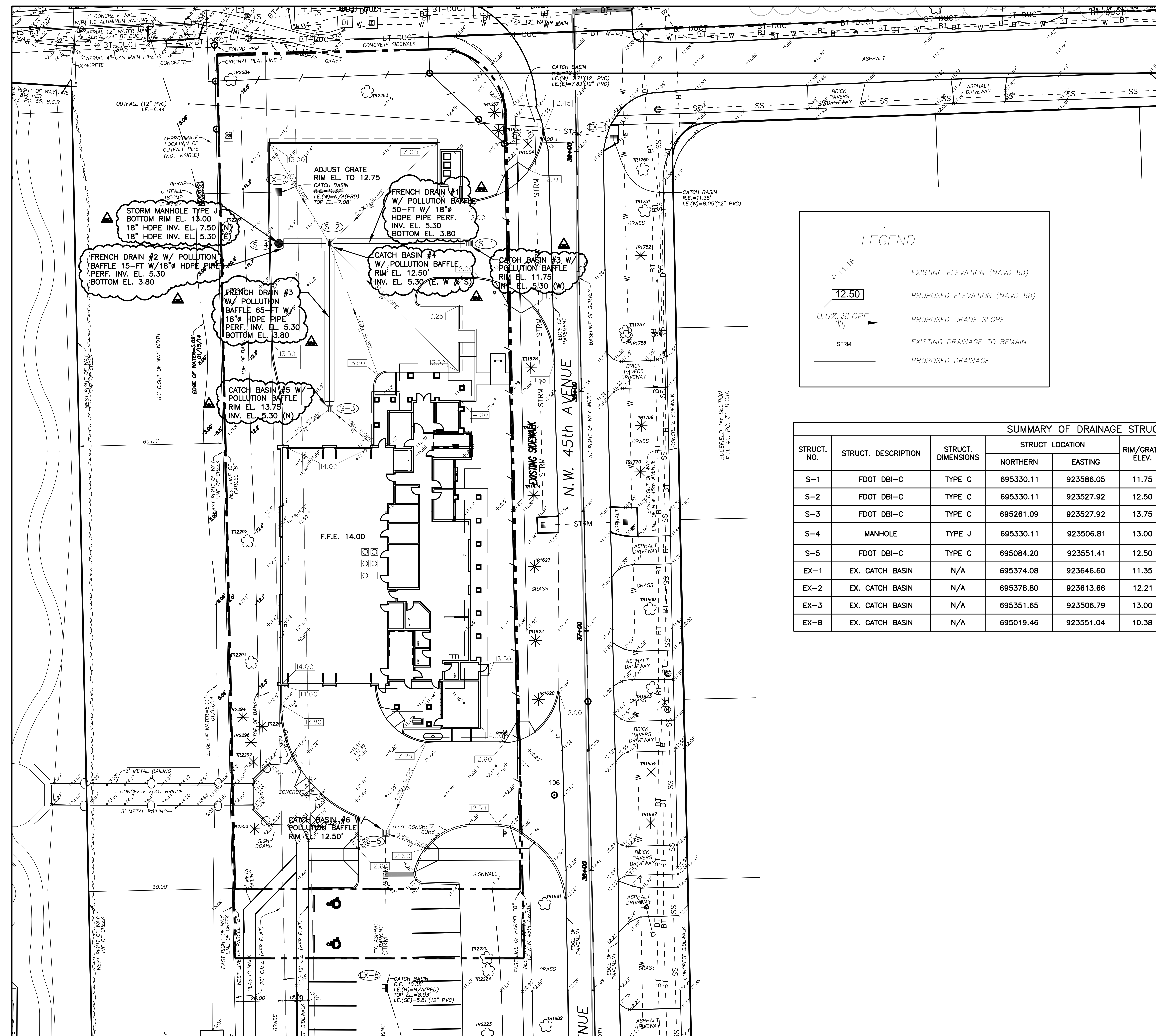
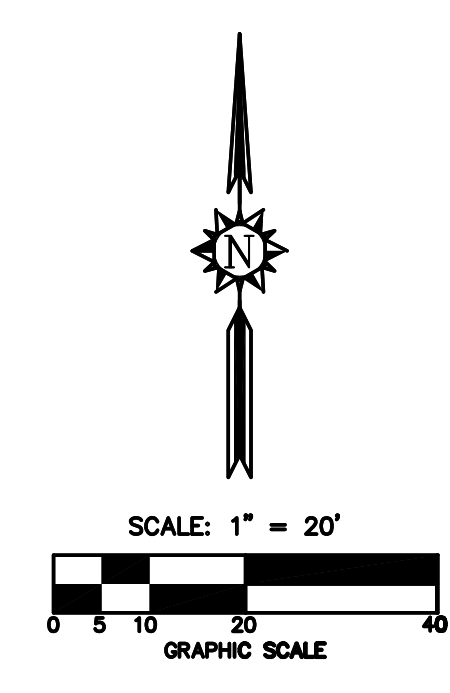
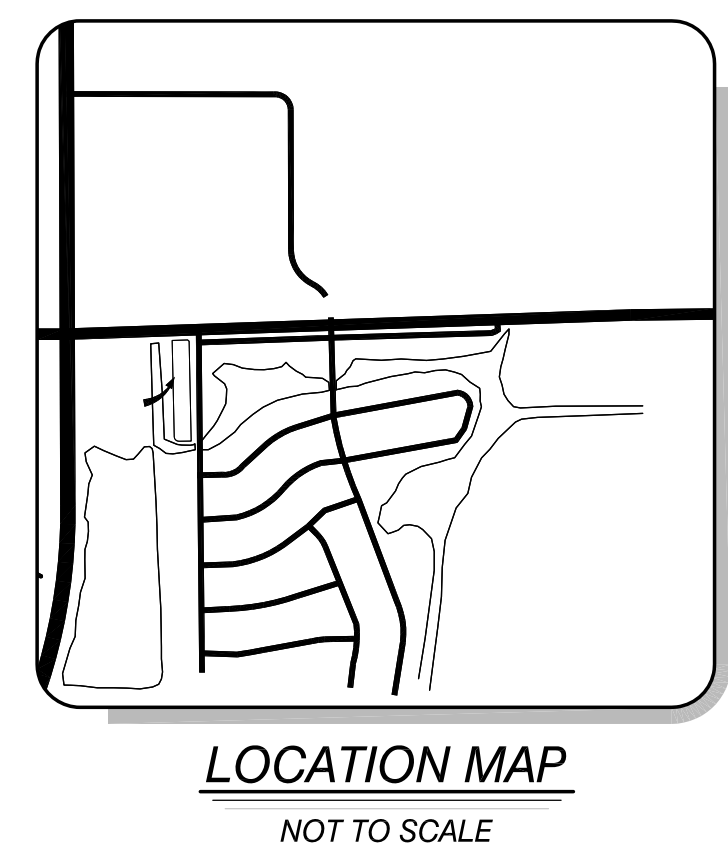


- LEGEND:**
- ① 2" BITUMINOUS SURFACE COURSE TYPE S-3: 2 LIFTS AT 1" LIFTS
  - ② BITUMINOUS PRIME COAT
  - ③ 8" LIMEROCK BASE COURSE (LBR-100) COMPACTED @ 100% MAX. DENSITY, WITH A MINIMUM 70% CARBONATES OF CALCIUM AND MAGNESIUM.
  - ④ 12" STABILIZED SUBGRADE (LBR-40) @ 100% MAX. DENSITY
  - ⑤ BITUMINOUS TACK COAT
  - ⑥ 8" THICK CONCRETE APRON (COMPRESSIVE STRENGTH AT 4,000 PSI)
  - ⑦ PERVIOUS PAVERS
  - ⑧ EMBANKMENT COMPACTED AT 100% MAX. DENSITY
  - ⑨ EXCAVATION (CUT)

NOTE:  
CONTRACTOR TO COMPLY WITH THE FDOT INDICES OF THE "ROADWAY AND TRAFFIC DESIGN STANDARDS", JANUARY 2013 EDITION.







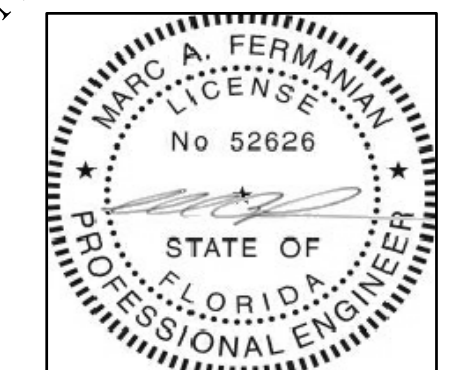
**LEGEND**

- EXISTING ELEVATION (NAVD 88)
- PROPOSED ELEVATION (NAVD 88)
- PROPOSED GRADE SLOPE
- EXISTING DRAINAGE TO REMAIN
- PROPOSED DRAINAGE

**SUMMARY OF DRAINAGE STRUCTURES**

STRUCT. NO.	STRUCT. DESCRIPTION	STRUCT. DIMENSIONS	STRUCT. LOCATION		RIM/GRATE ELEV.	INVERT ELEVATION				REMARKS
			NORTHERN	EASTING		N	S	E	W	
S-1	FDOT DBI-C	TYPE C	695330.11	923586.05	11.75	-	-	-	5.30	EXFIL. TRENCH 18" HDPE
S-2	FDOT DBI-C	TYPE C	695330.11	923527.92	12.50	-	5.30	5.30	5.30	EXFIL. TRENCH 18" HDPE
S-3	FDOT DBI-C	TYPE C	695261.09	923527.92	13.75	5.30	-	-	-	EXFIL. TRENCH 18" HDPE
S-4	MANHOLE	TYPE J	695330.11	923506.81	13.00	7.50	-	5.30	-	EXFIL. TRENCH & 18" HDPE TO EX-1
S-5	FDOT DBI-C	TYPE C	695084.20	923551.41	12.50	-	7.57	-	-	CONNECT TO EX. EXFIL. TRENCH
EX-1	EX. CATCH BASIN	N/A	695374.08	923646.60	11.35	-	-	7.83	7.71	EX. 12" PVC TO EX-2
EX-2	EX. CATCH BASIN	N/A	695378.80	923613.66	12.21	-	-	-	8.05	EX. 12" PVC TO OUTFALL
EX-3	EX. CATCH BASIN	N/A	695351.65	923506.79	13.00	-	5.15	-	7.10	EX. 18" CMP
EX-8	EX. CATCH BASIN	N/A	695019.46	923551.04	10.38	7.64 (AB)	5.81 (SE)	-	-	EX. 18" CMP (N) EX. 10" PVC (SE)

NOT FOR CONSTRUCTION



MARC A. FERMANIAN, P.E.  
 PROFESSIONAL ENGINEER NO. 52626  
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CRJ & Associates, Inc.  
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Florida Authorization # 0008245  
10000 W. BOULEVARD, SUITE 200  
FORT LAUDERDALE, FL 33304

PROPOSED NEW FIRE STATION 50  
NW 45 AVE.  
NW 43 AVE. & COCONUT CREEK PARKWAY  
COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.  
4316 WEST BROWARD BOULEVARD  
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DRAWING TITLE:

DETAILS

DRAWN C.E.O.  
CHECKED M.A.F.  
DATE 03/17/2014  
SCALE AS NOTED  
PROJ. NO. CNK-1018  
SHEET:

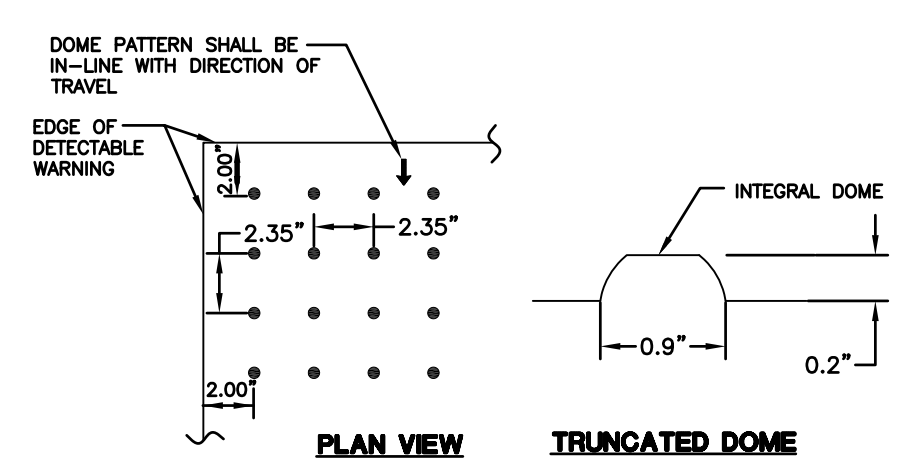
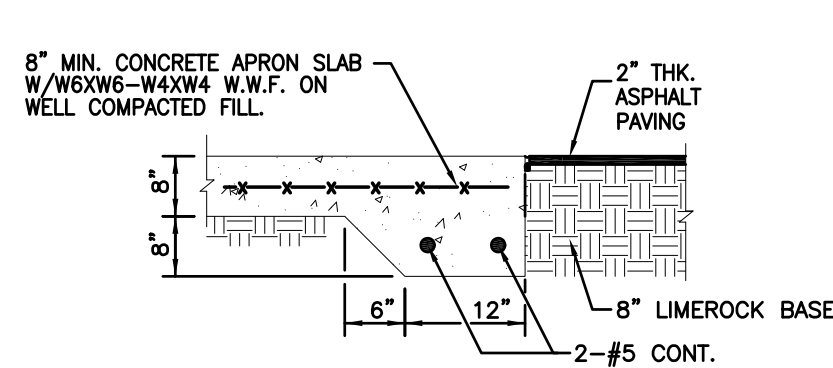
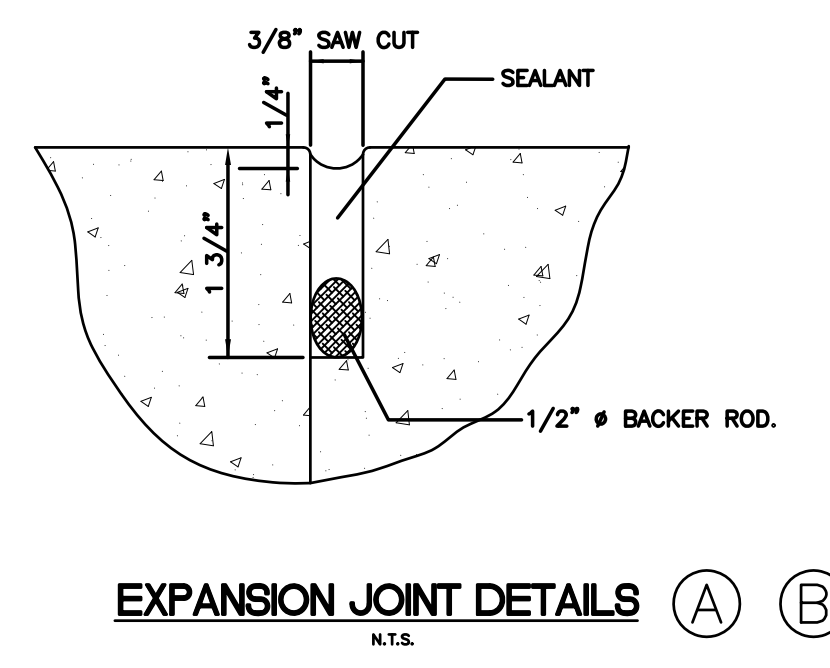
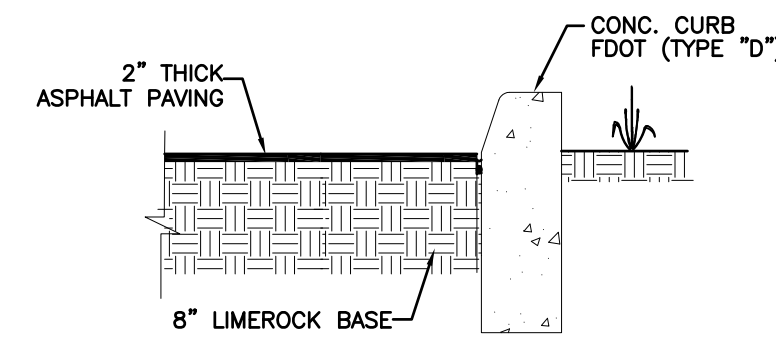
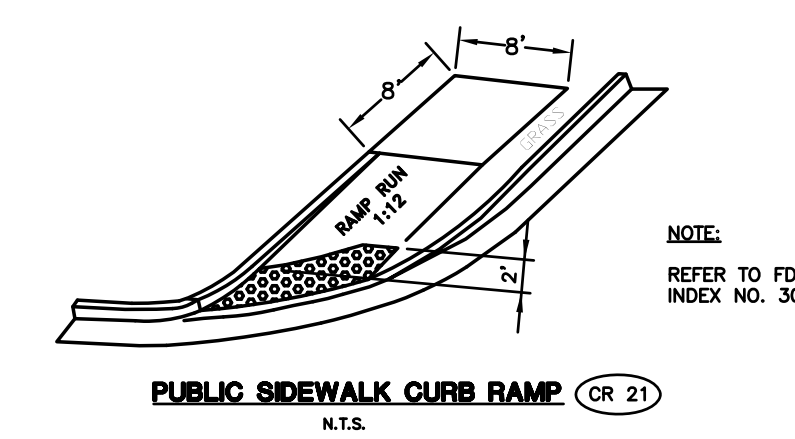
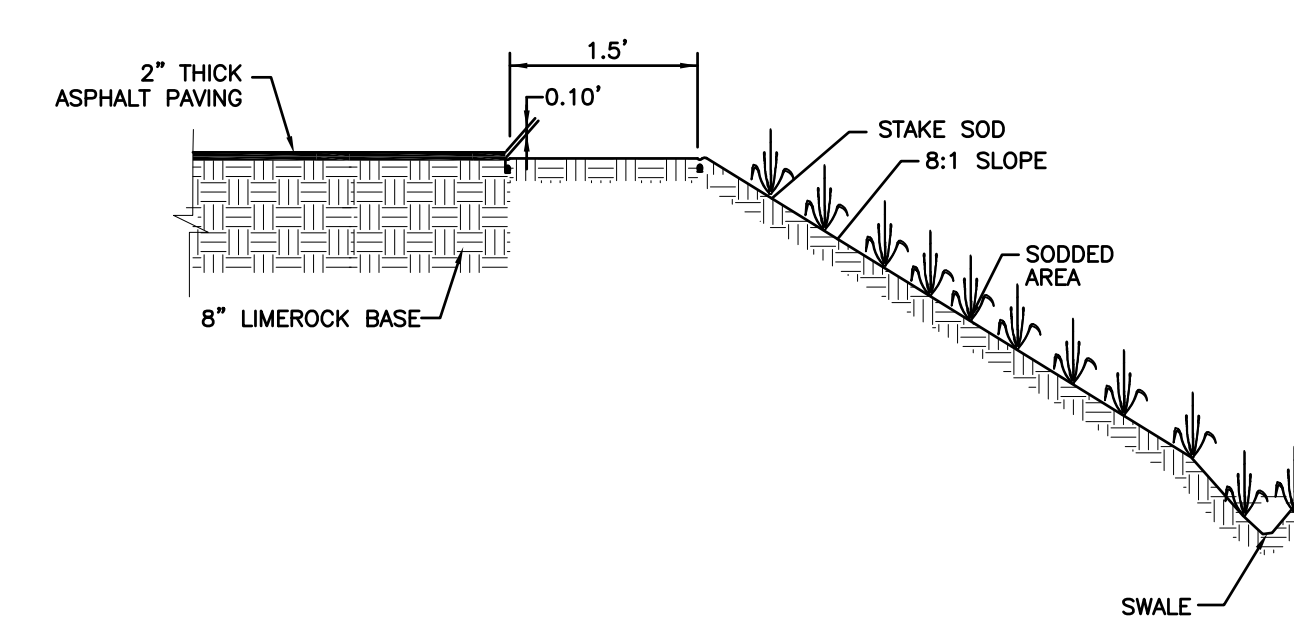
C-4



MARC A. FERMANIAN, P.E.  
PROFESSIONAL ENGINEER NO. 52626  
STATE OF FLORIDA

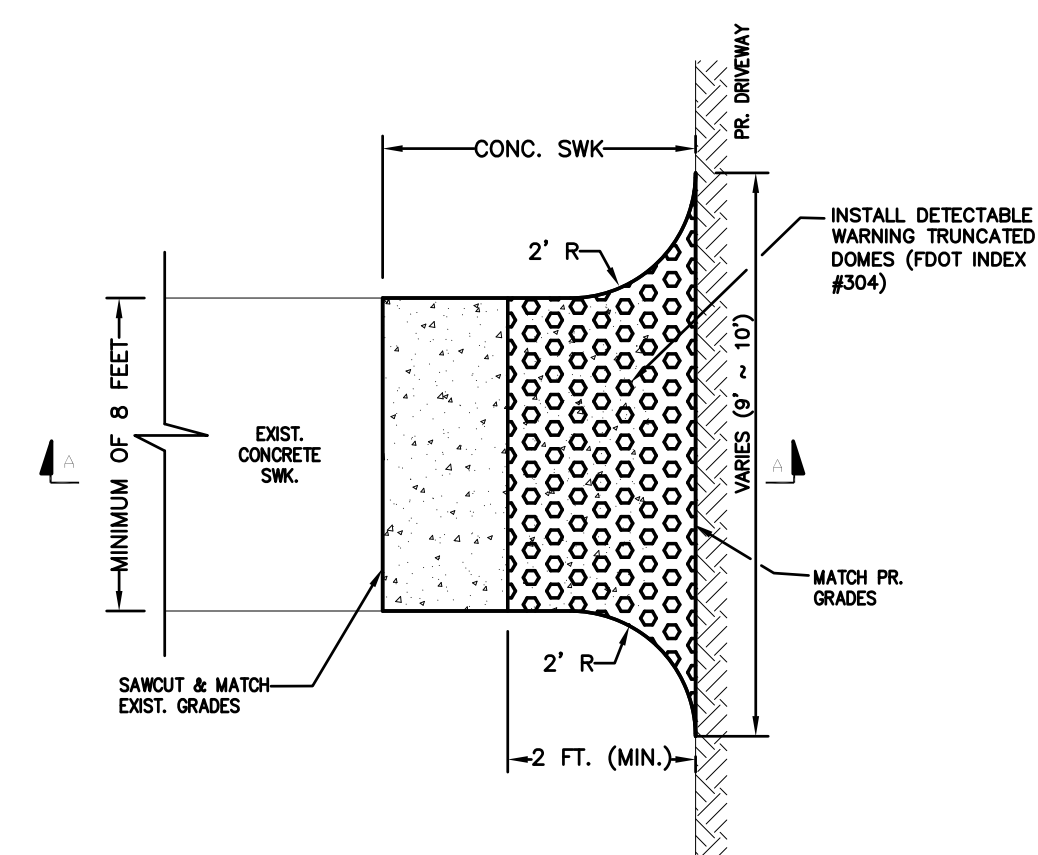
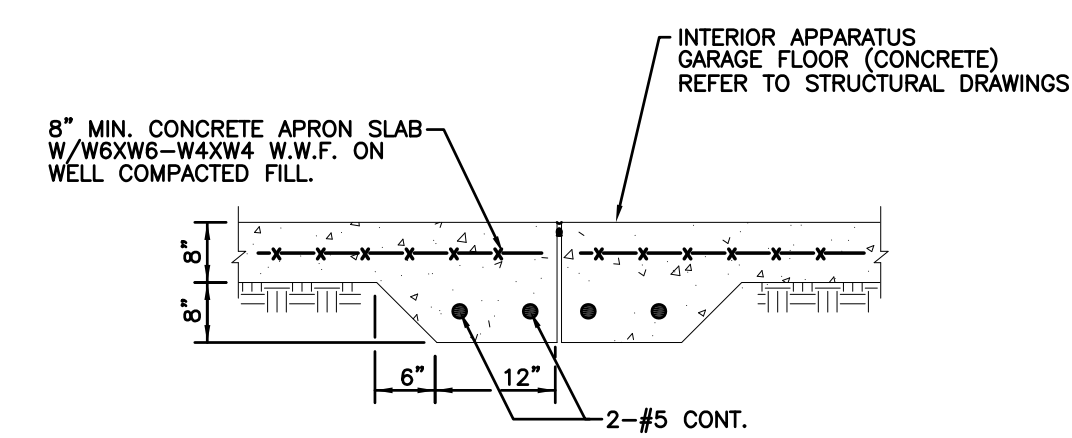
DATE:

NOT FOR CONSTRUCTION



NOTES:  
1. DETECTABLE WARNING PER FDOT INDEX # 304  
2. ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24" INCHES FROM THE BACK OF CURB.

**DETECTABLE WARNING DETAIL**  
N.T.S.



C-4.DWG

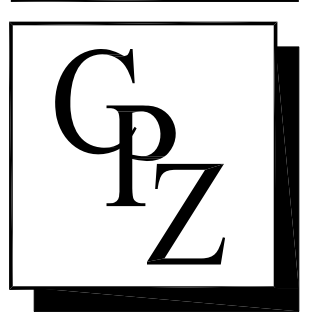




**CRJ & Associates, Inc.**  
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 10000 NW 22nd St., Suite 200, Ft. Lauderdale, FL 33311

**PROPOSED NEW FIRE STATION 50  
 NW 45 AVE.**  
 NW 43 AVE. & COCONUT CREEK PARKWAY  
 COCONUT CREEK, FLORIDA

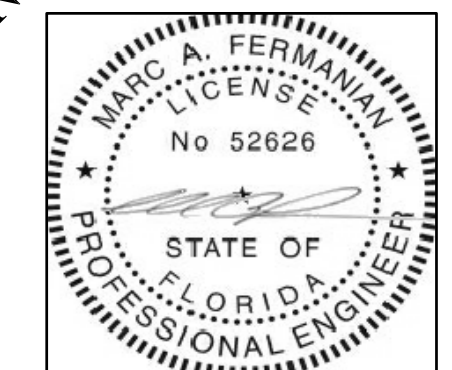
**CPZ ARCHITECTS, INC.**  
 4316 WEST BROWARD BOULEVARD  
 PLANTATION, FLORIDA 33317  
 PHONE: (954) 792-8525 FAX: (954) 337-0359  
 AA 12600685 WWW.CPZARCHITECTS.COM



DRAWING TITLE:  
**WATER PROFILE**  
 DRAWN C.E.O.  
 CHECKED M.A.F.  
 DATE 03/17/2014  
 SCALE AS NOTED  
 PROJ. NO. CNK-1018  
 SHEET:

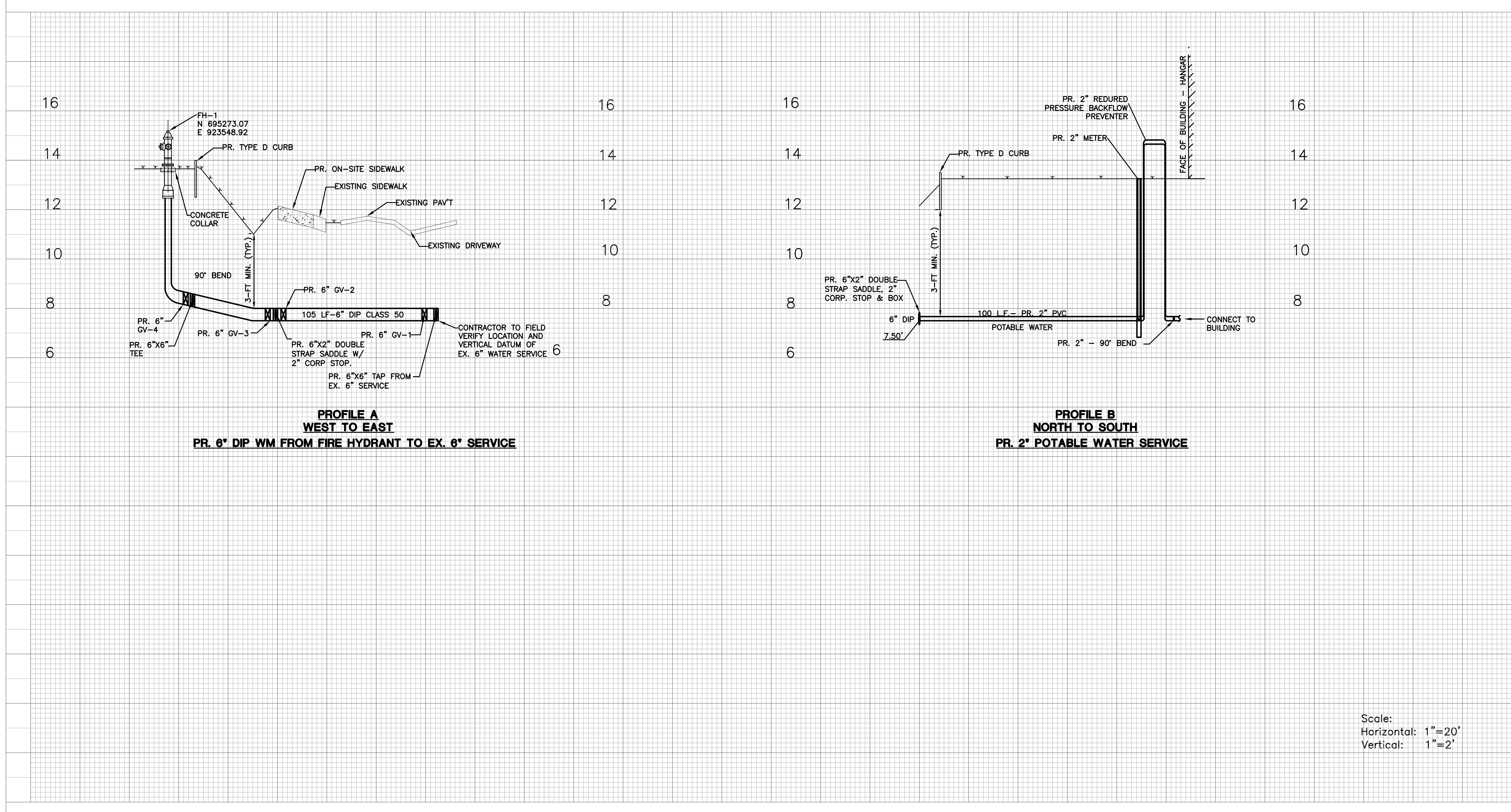
**C-6**

**NOT FOR CONSTRUCTION**



**MARC A. FERMANIAN, P.E.**  
 PROFESSIONAL ENGINEER NO. 52626  
 STATE OF FLORIDA

Scale:  
 Horizontal: 1"=20'  
 Vertical: 1"=2'



C-6-7.DWG

DATE:

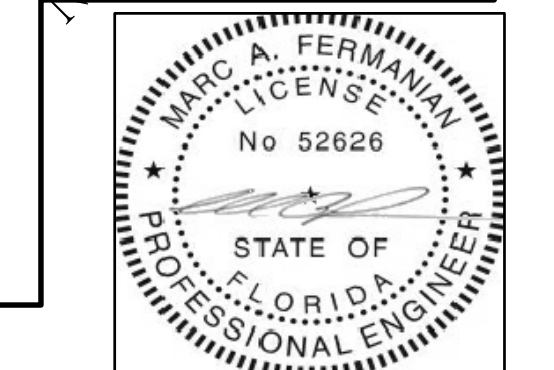




**CITY OF MARGATE**  
**BROWARD COUNTY, FLORIDA**  
 WATER DETAILS

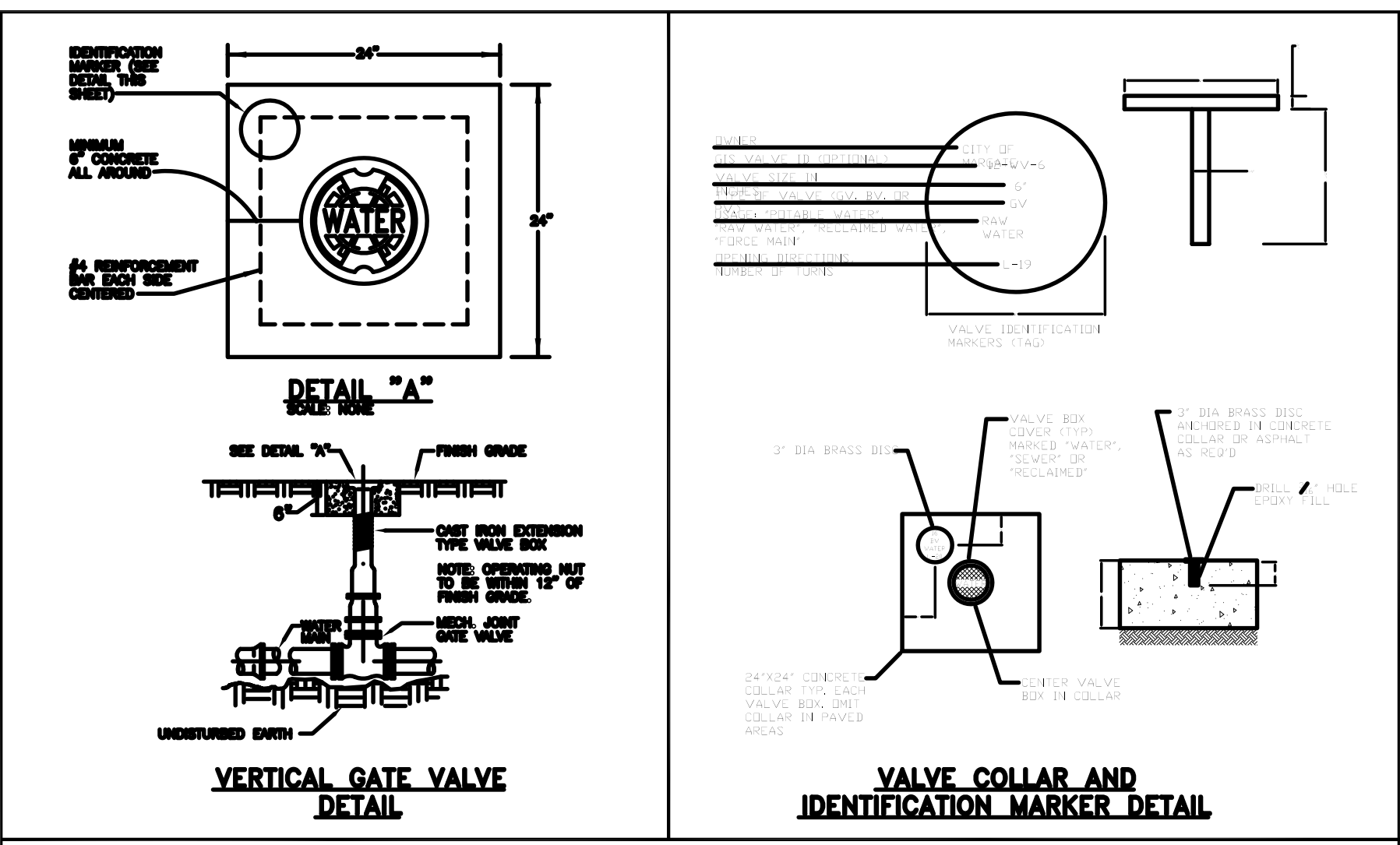
APPROVED BY \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 DATE \_\_\_\_\_  
 SCALE \_\_\_\_\_  
 DETAILS \_\_\_\_\_

NOT FOR CONSTRUCTION



MARC A. FERMANIAN, P.E.  
 PROFESSIONAL ENGINEER NO. 52626  
 STATE OF FLORIDA

DATE:



LAYING CONDITION: TYPE 4 (PIPE BEDDED IN SAND, GRAVEL OR CRUSHED STONE TO THE DEPTH OF 1/3 PIPE DIAMETER, 4 INCHES MINIMUM. SHOVEL COMPACTED TO TOP OF PIPE).

DEPTH OF COVER: 2.5 FEET

WORKING PRESSURE: 150 P.S.I.

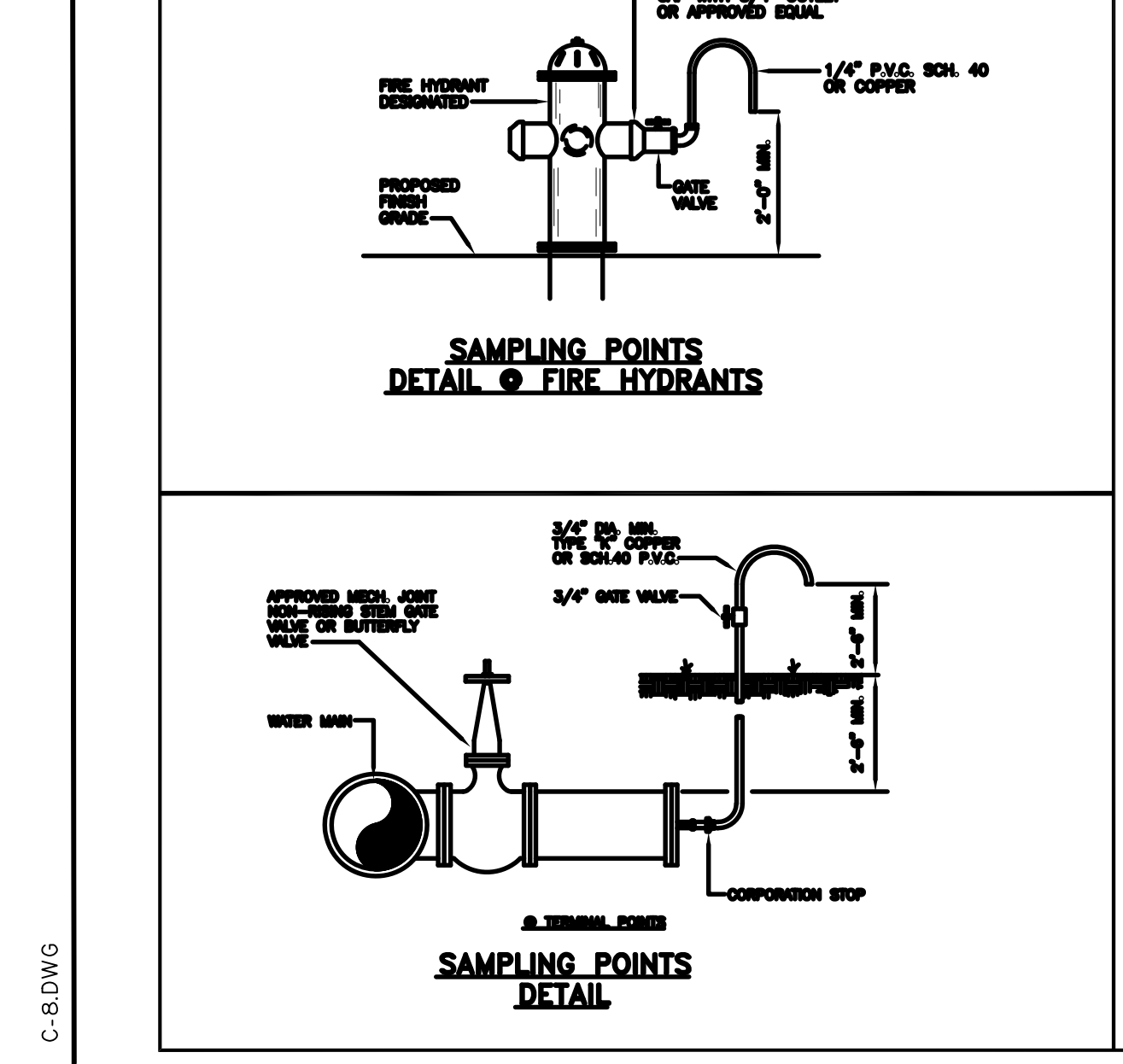
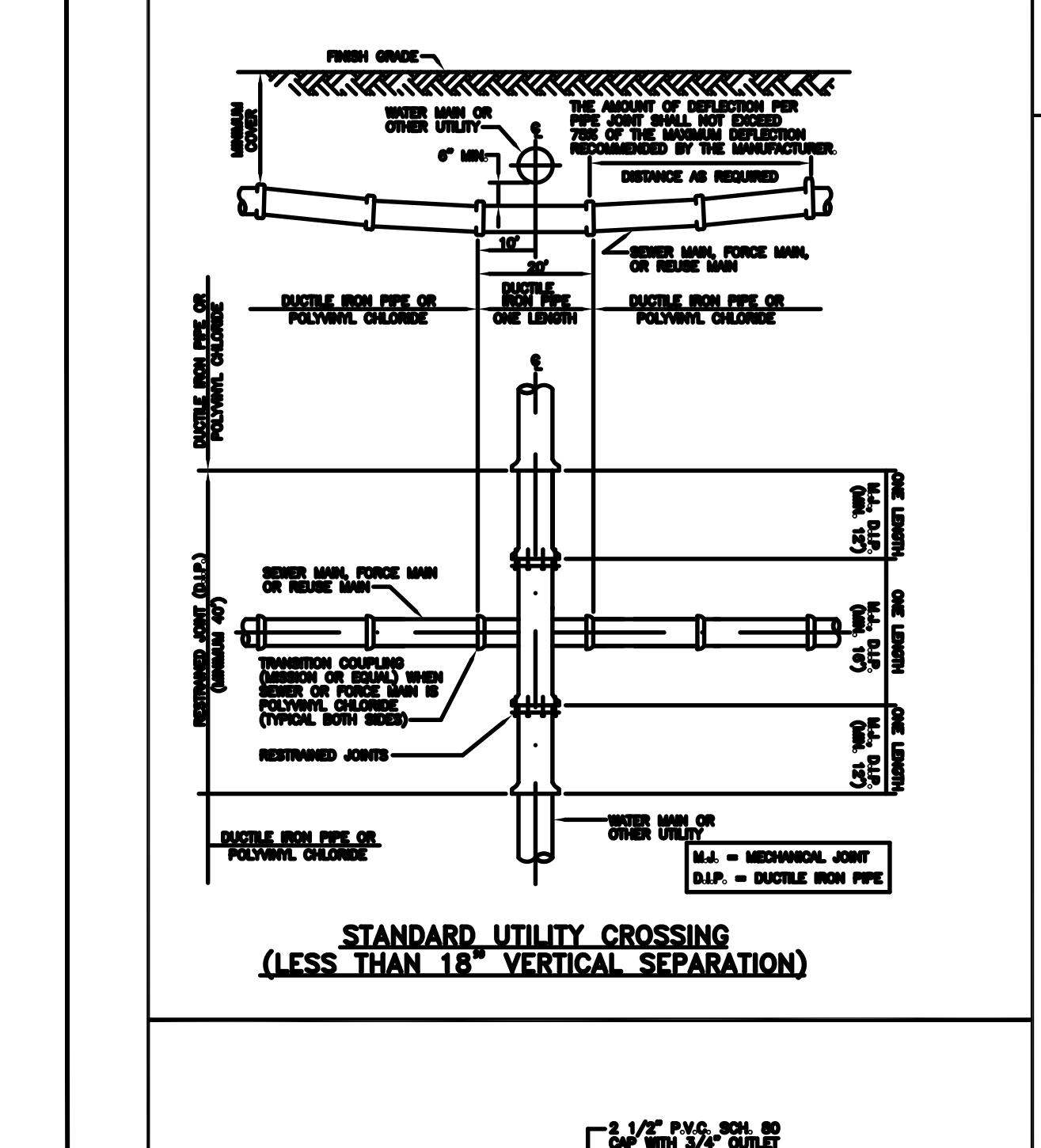
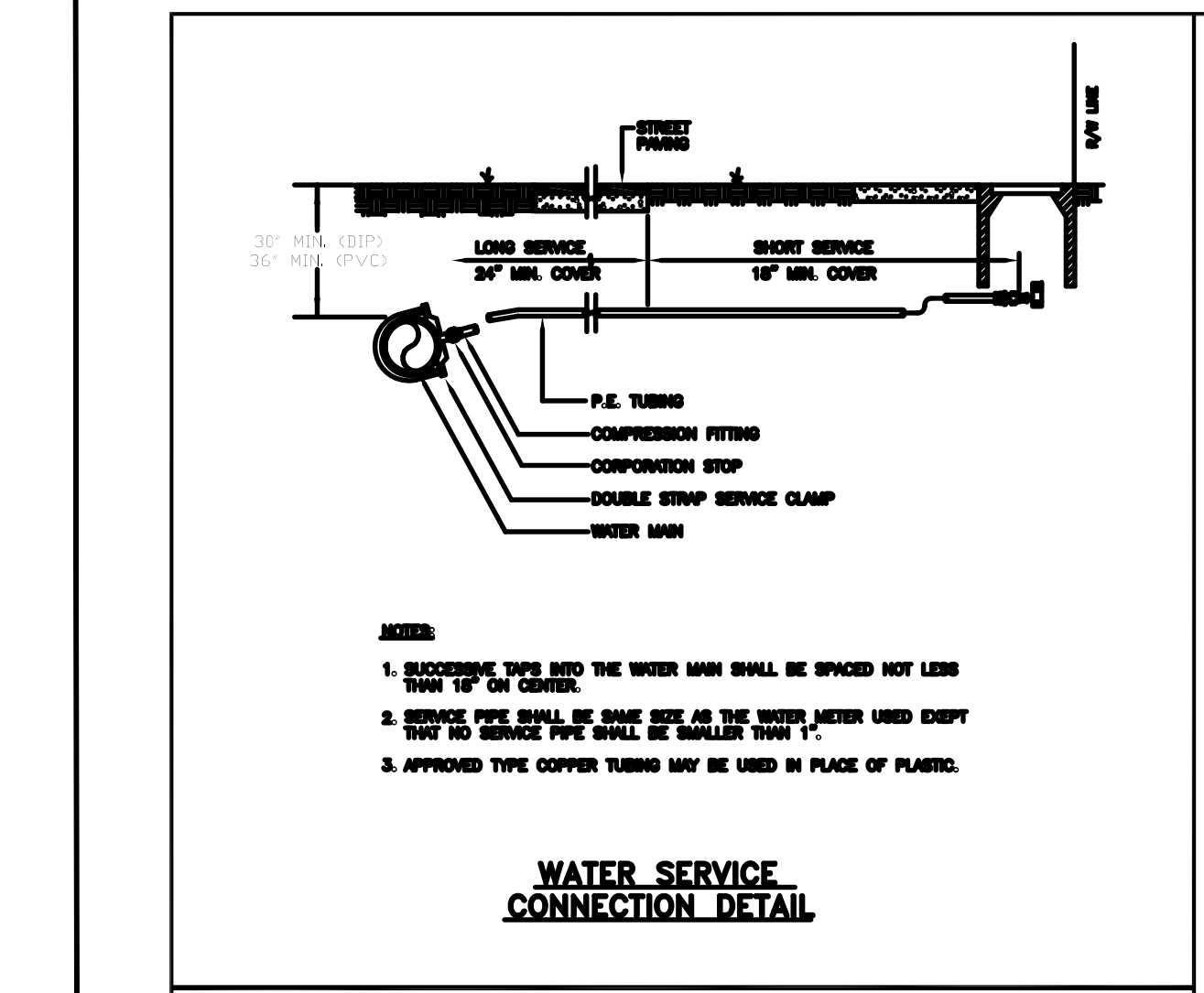
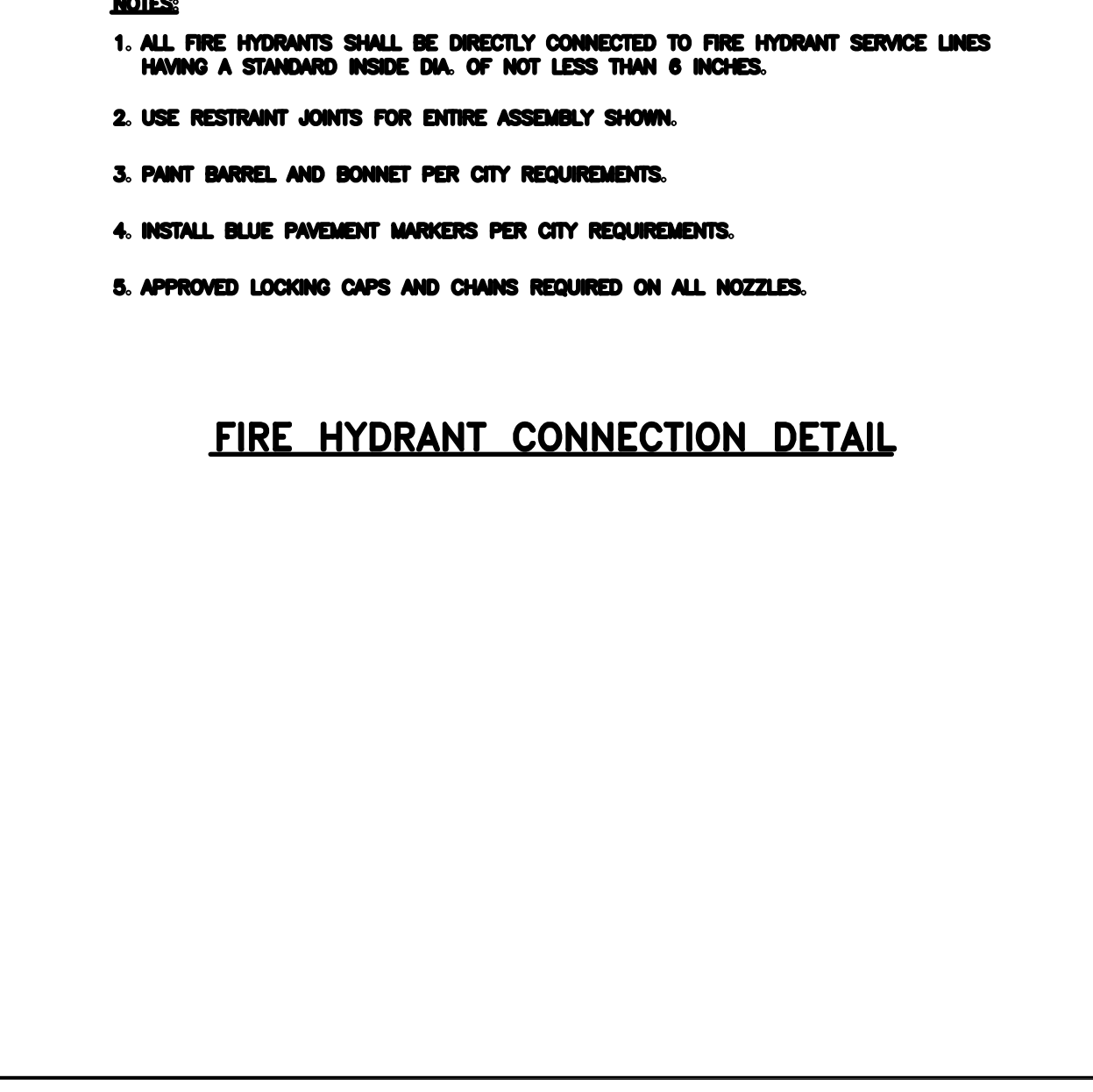
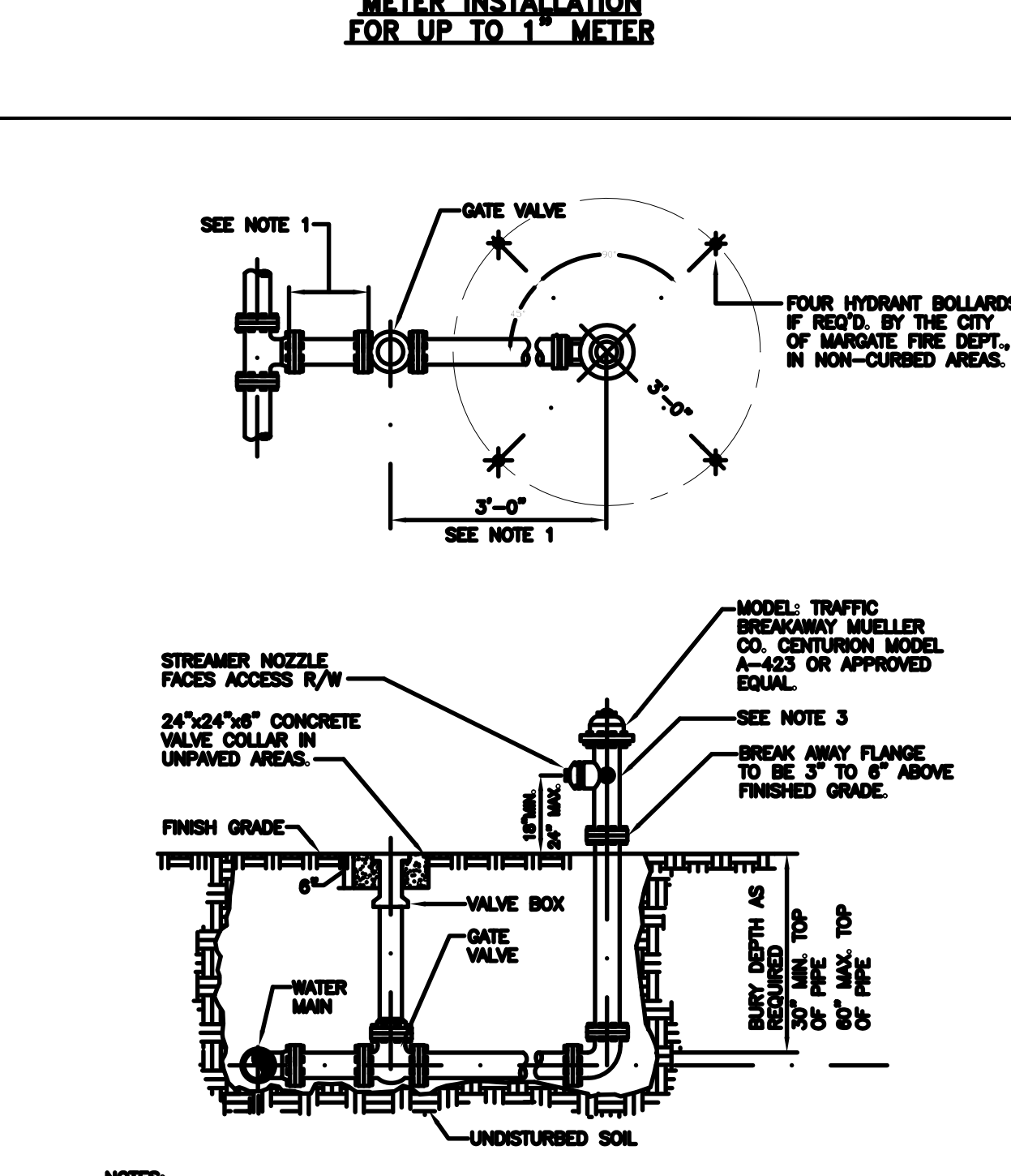
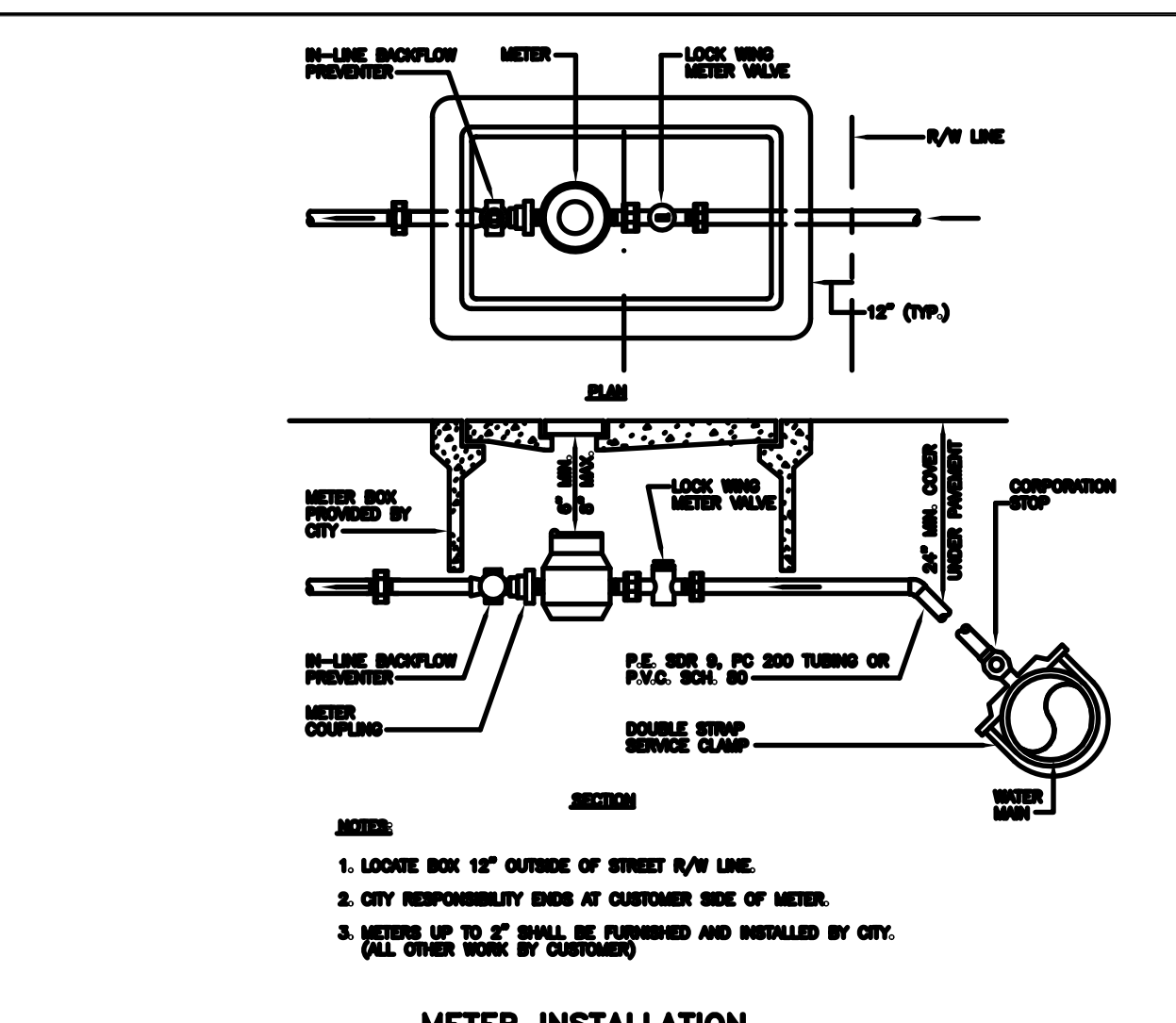
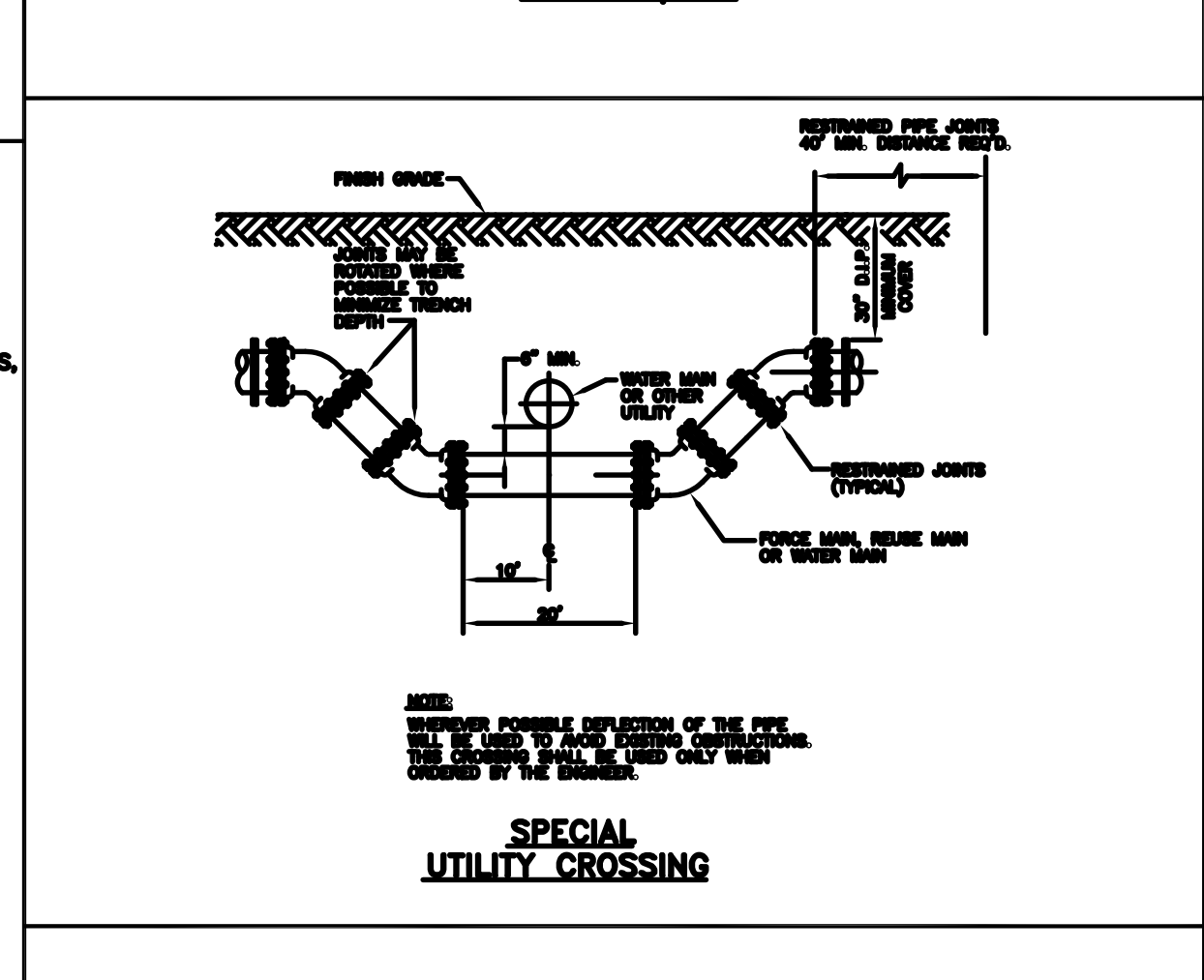
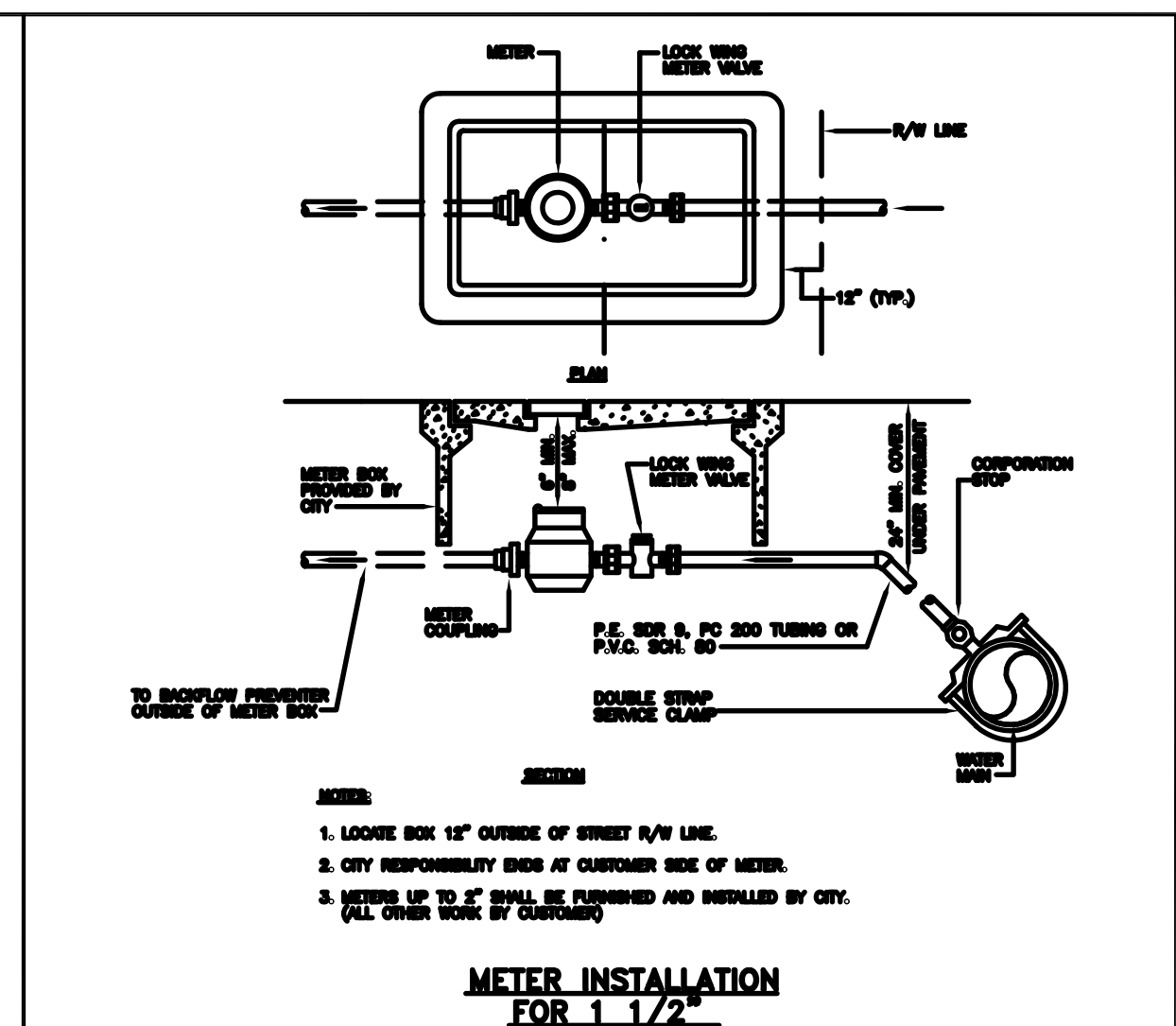
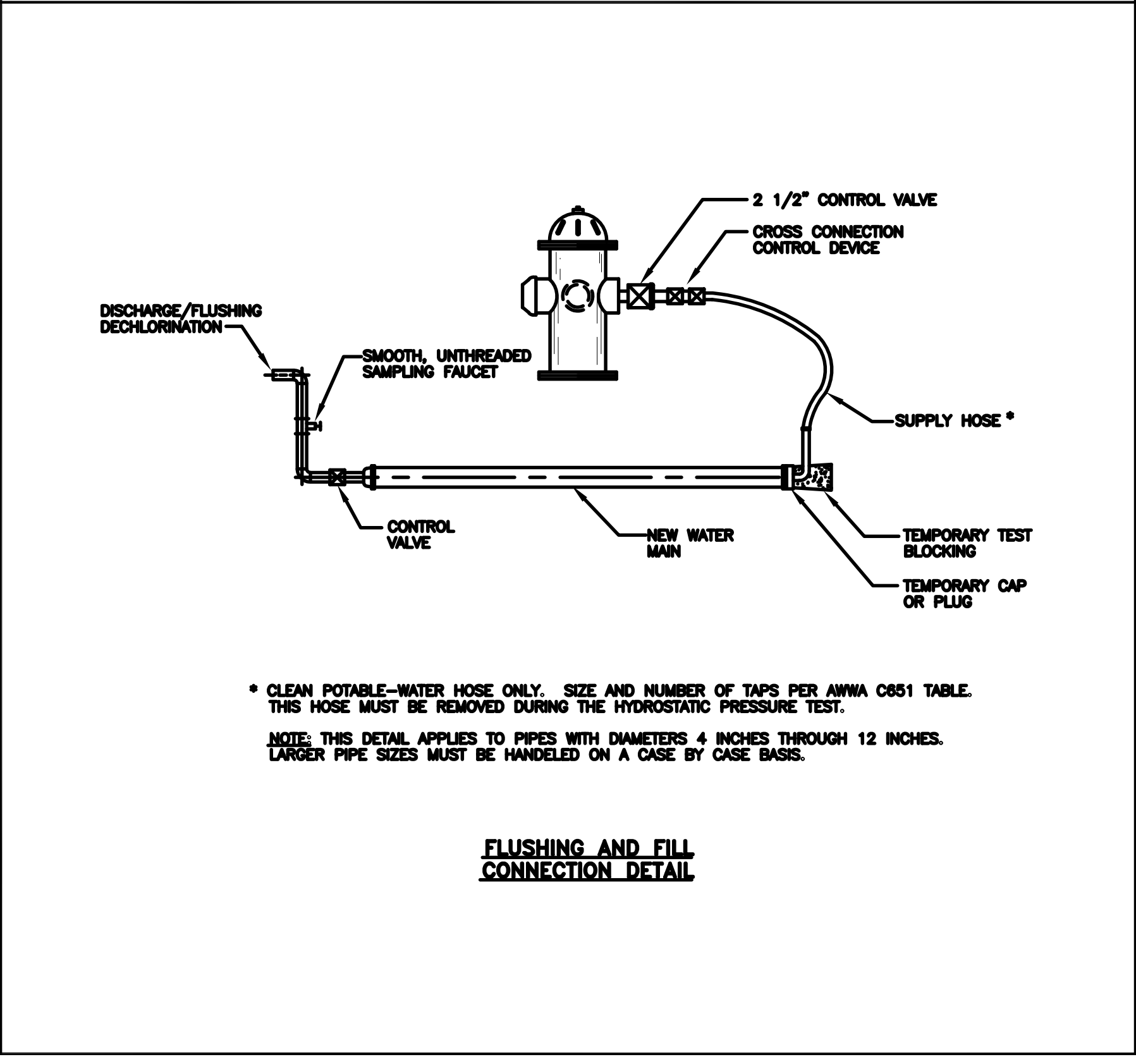
SOIL BEARING: 2,000 P.S.F. AGAINST UNDISTURBED SOIL.

PIPE DIA. (IN.)	11.25d (FT)	22.5d (FT)	45d (FT)	90d (FT)	DEAD END (FT)	TEE (FT)	45d VERT. BEND (FT)	22d VERT. BEND (FT)
4	1	3	6	12	15	31	5	12
6	1	3	6	12	15	31	5	12
8	1	3	6	12	15	31	5	12
10	1	3	6	12	15	31	5	12
12	1	3	6	12	15	31	5	12
14	1	3	6	12	15	31	5	12
16	1	3	6	12	15	31	5	12
18	1	3	6	12	15	31	5	12
20	1	3	6	12	15	31	5	12
24	1	3	6	12	15	31	5	12

NOTE: THAT IN ACTUAL INSTALLATIONS, THE RESTRAINED LENGTH WILL BE IN MULTIPLES OF LENGTH OF ONE PIECE OF PIPE (NOMINALLY 18 TO 20 FEET). THAT FOR EXAMPLE, IF THE RESTRAINED LENGTH FOR 6 INCH PIPE LENGTH UP TO A 90 DEGREE BEND IS 30 FEET, TWO FULL LENGTHS OF RESTRAINED PIPE WILL RESULT IN 36 TO 40 FEET OF RESTRAINT, PROVIDING AN ADDITIONAL SAFETY FACTOR. WHERE SHORT CONNECTING PIECES ARE NEEDED TO POSITION FITTINGS, THEY SHOULD, WHEN POSSIBLE, BE PLACED OUTSIDE THE RESTRAINED SECTION FOR MAXIMUM ECONOMY.

THE ABOVE SCHEDULE IS ONLY A GUIDELINE. THE ENGINEER OF RECORD MUST VERIFY AND REVISE CALCULATIONS TO MEET INSTALLATION REQUIREMENTS.

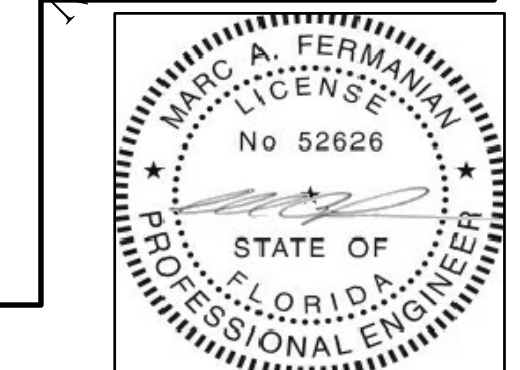
**RESTRAINED PIPE JOINT SCHEDULE**



C-8DWG

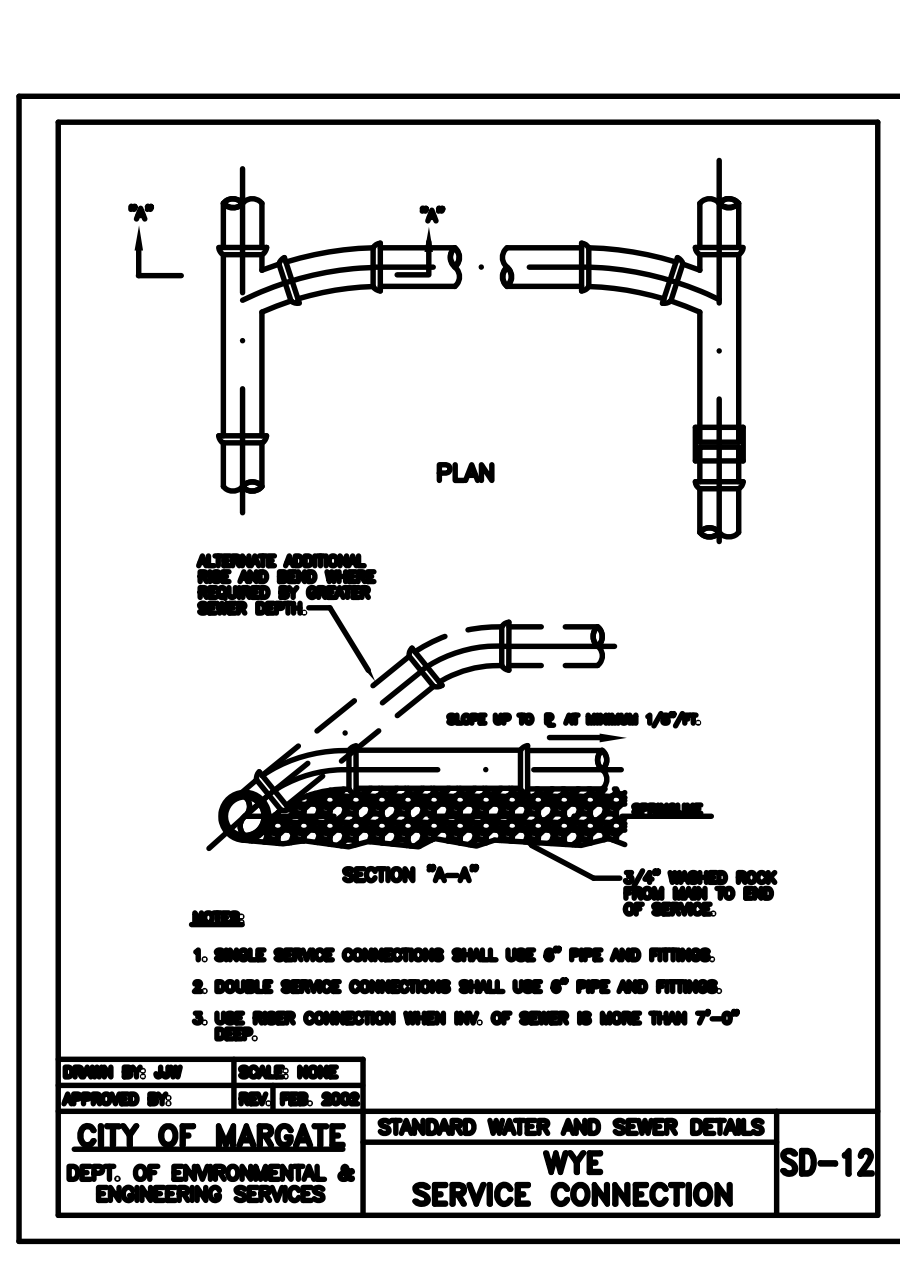
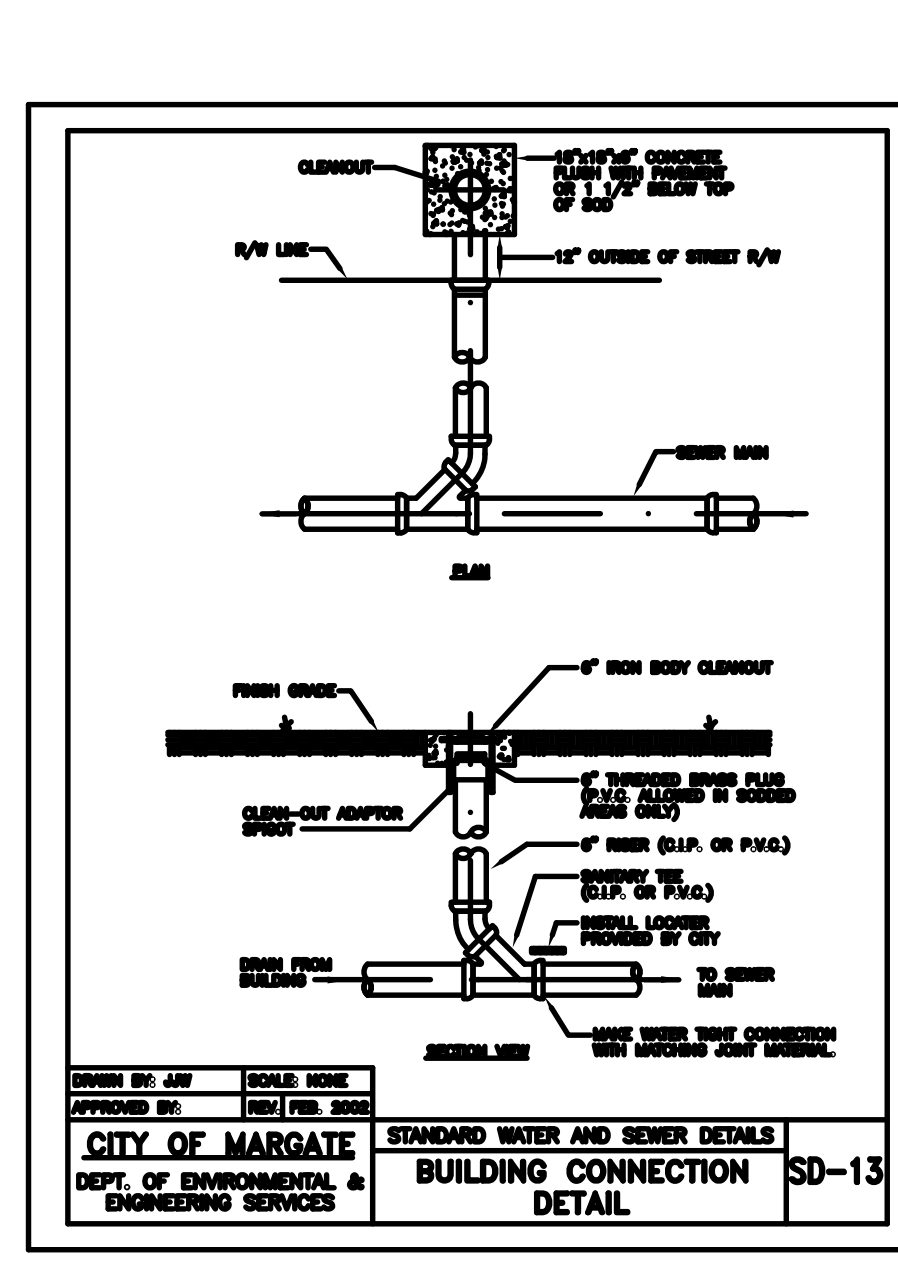
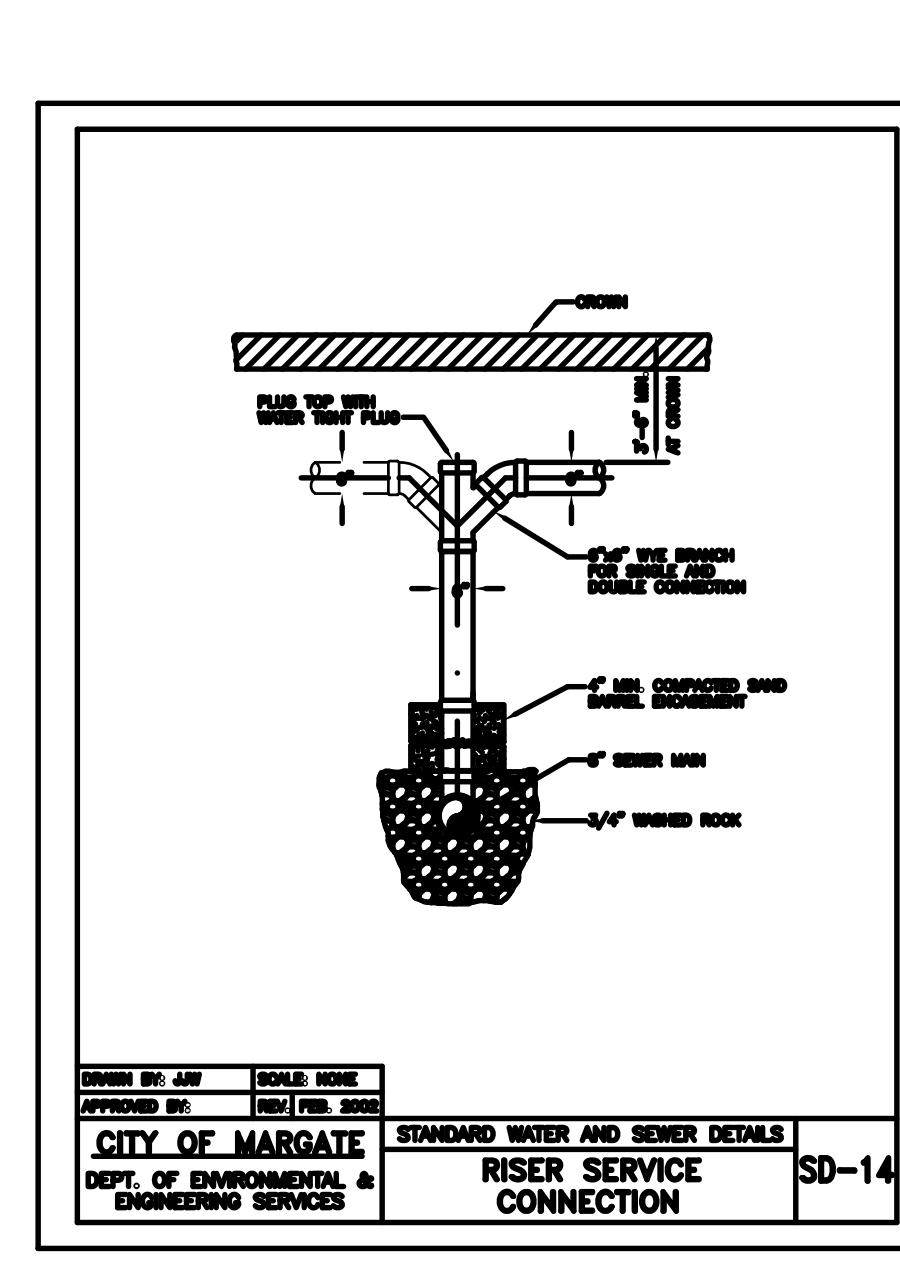
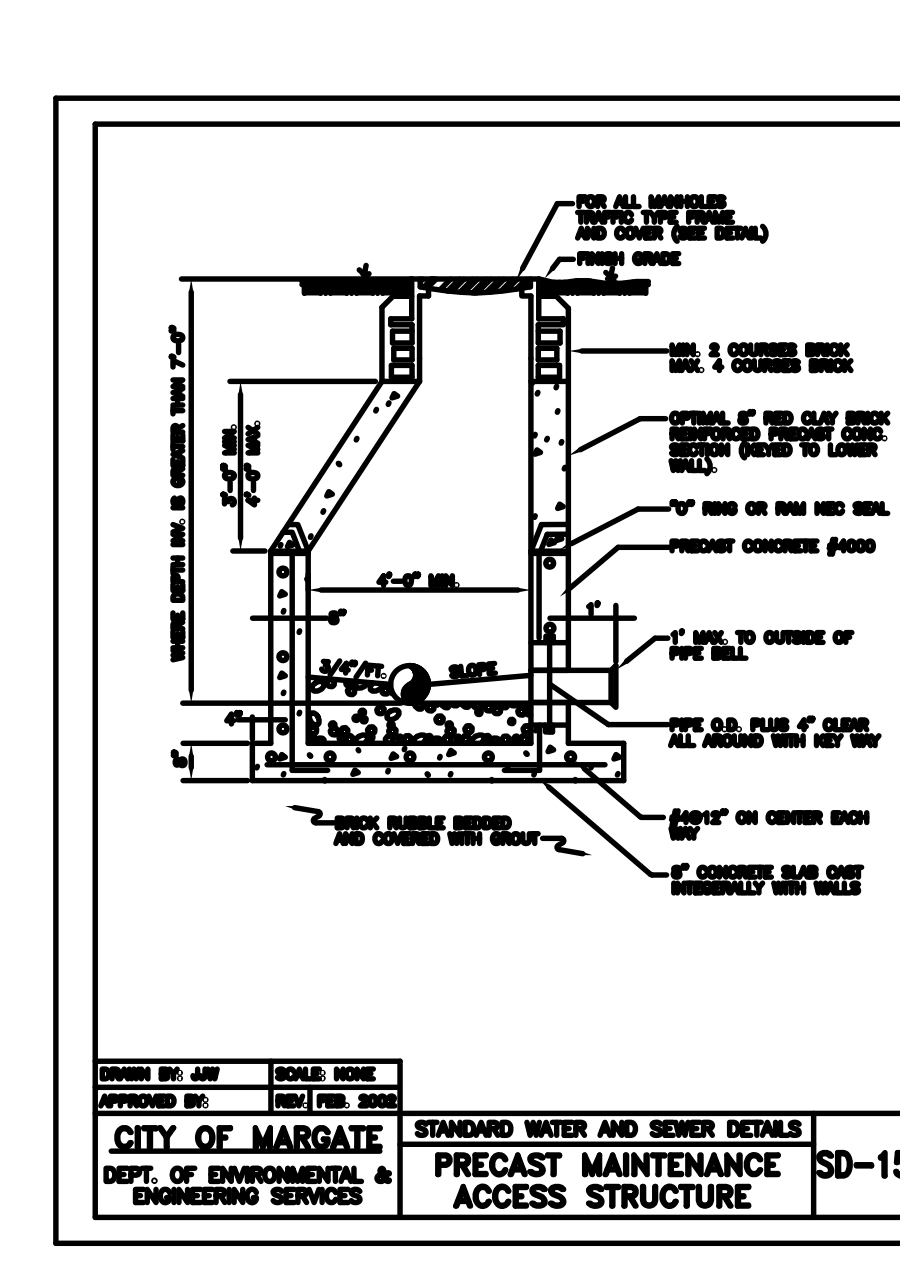
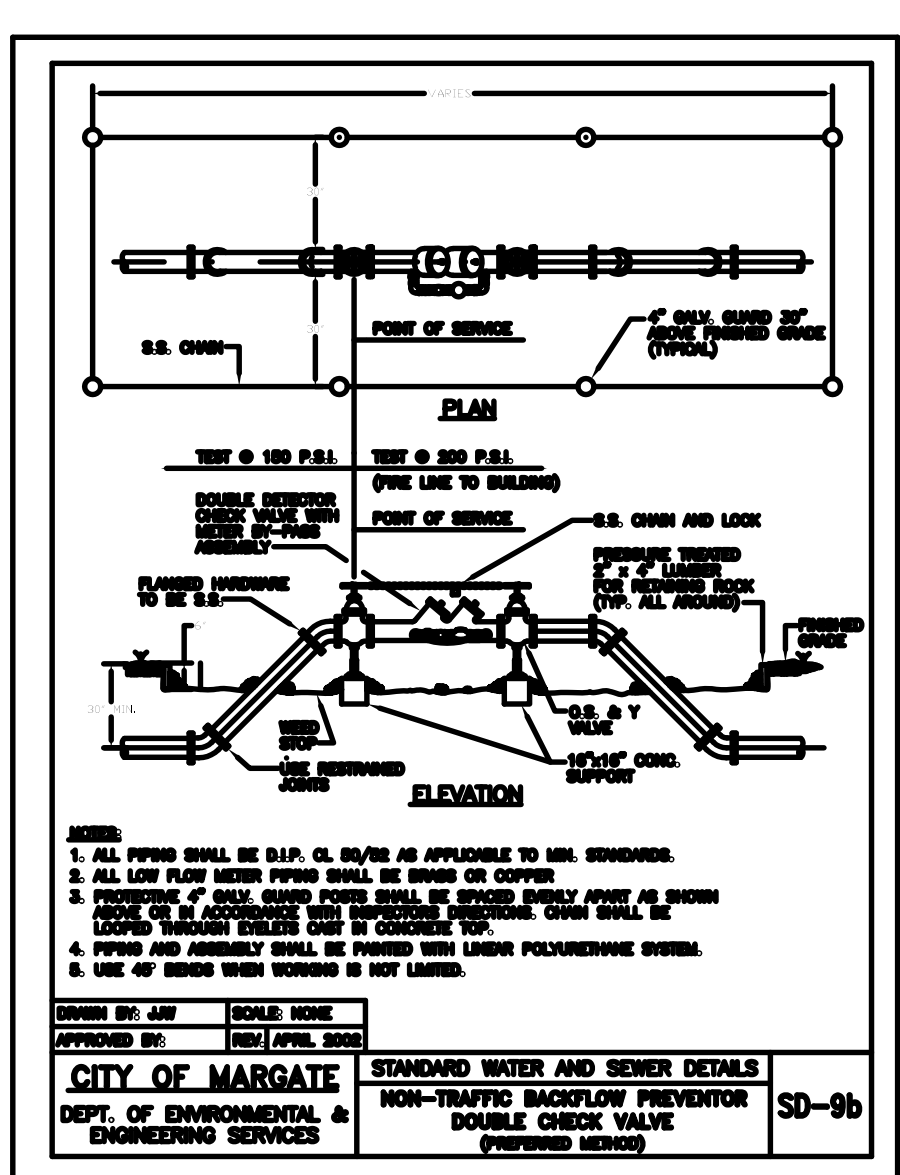
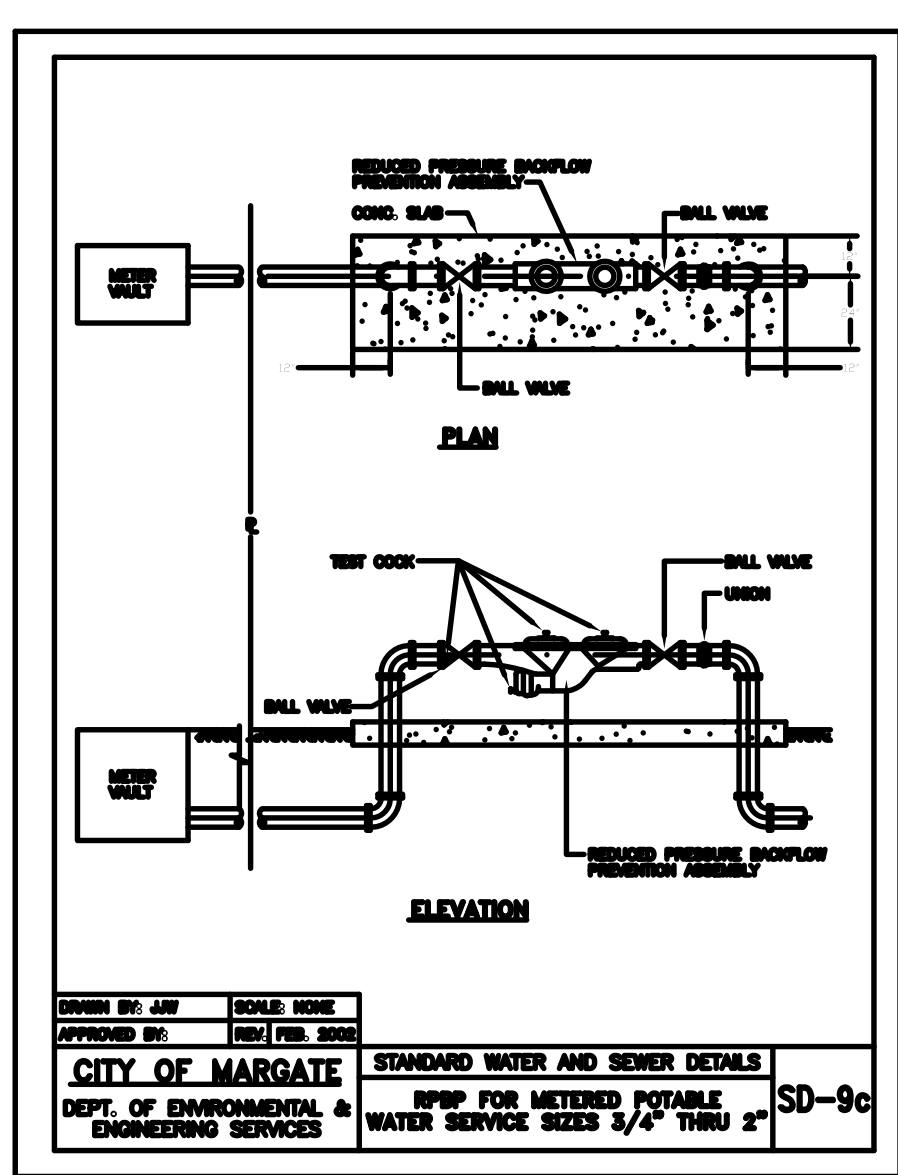
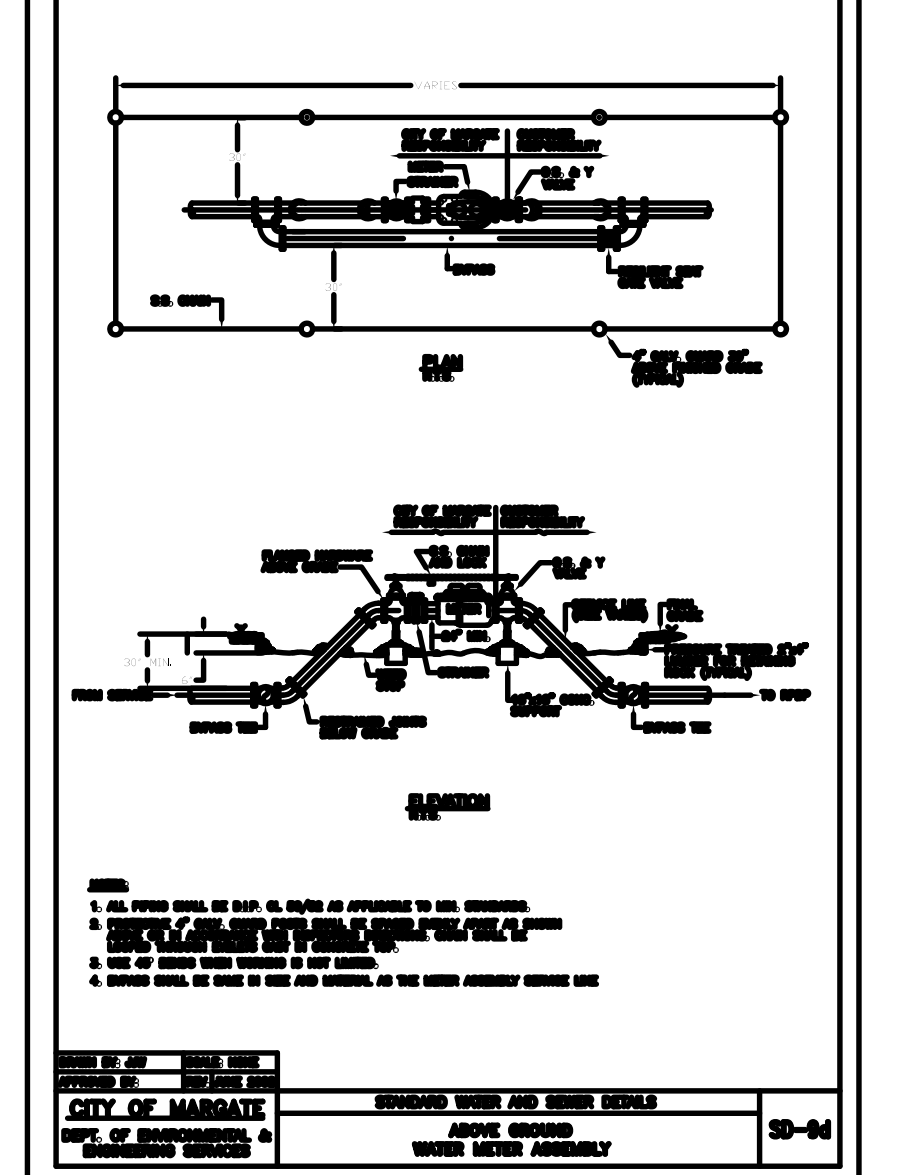
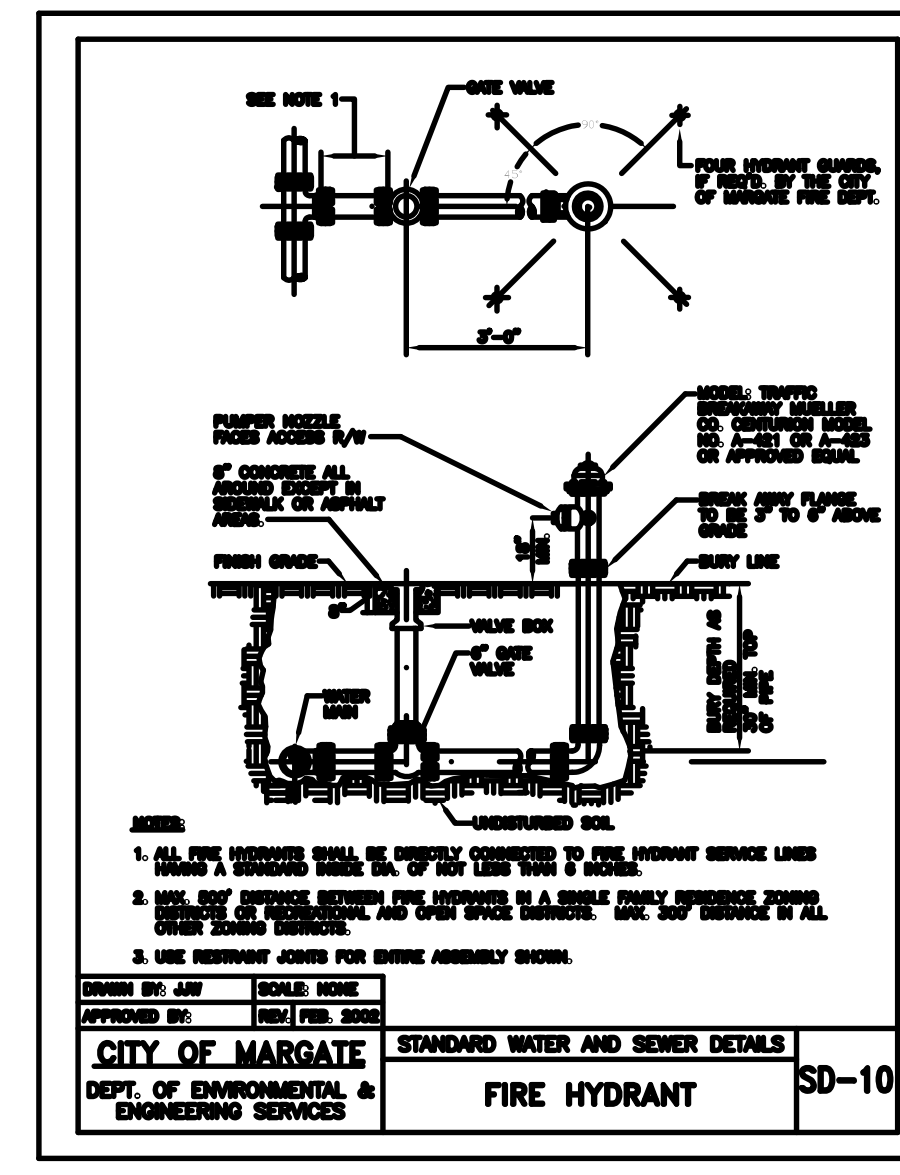
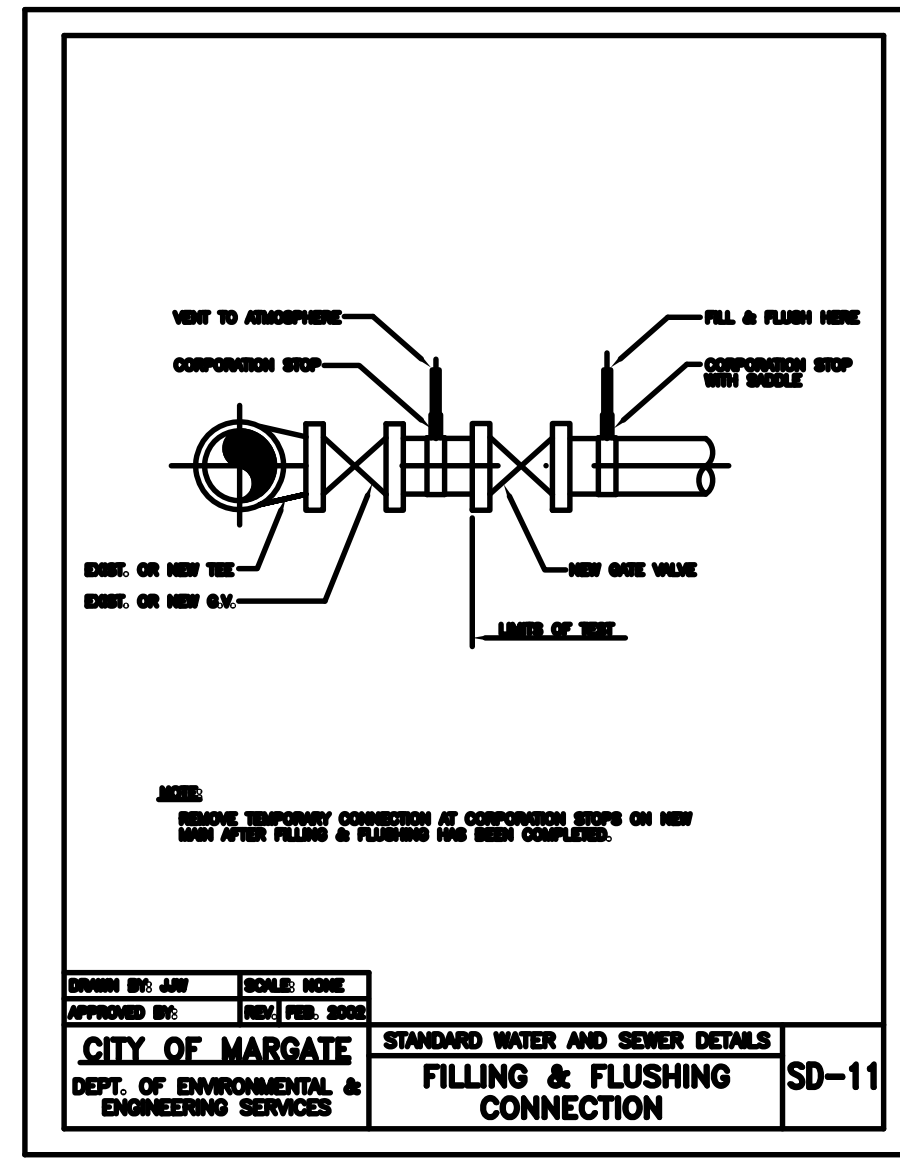
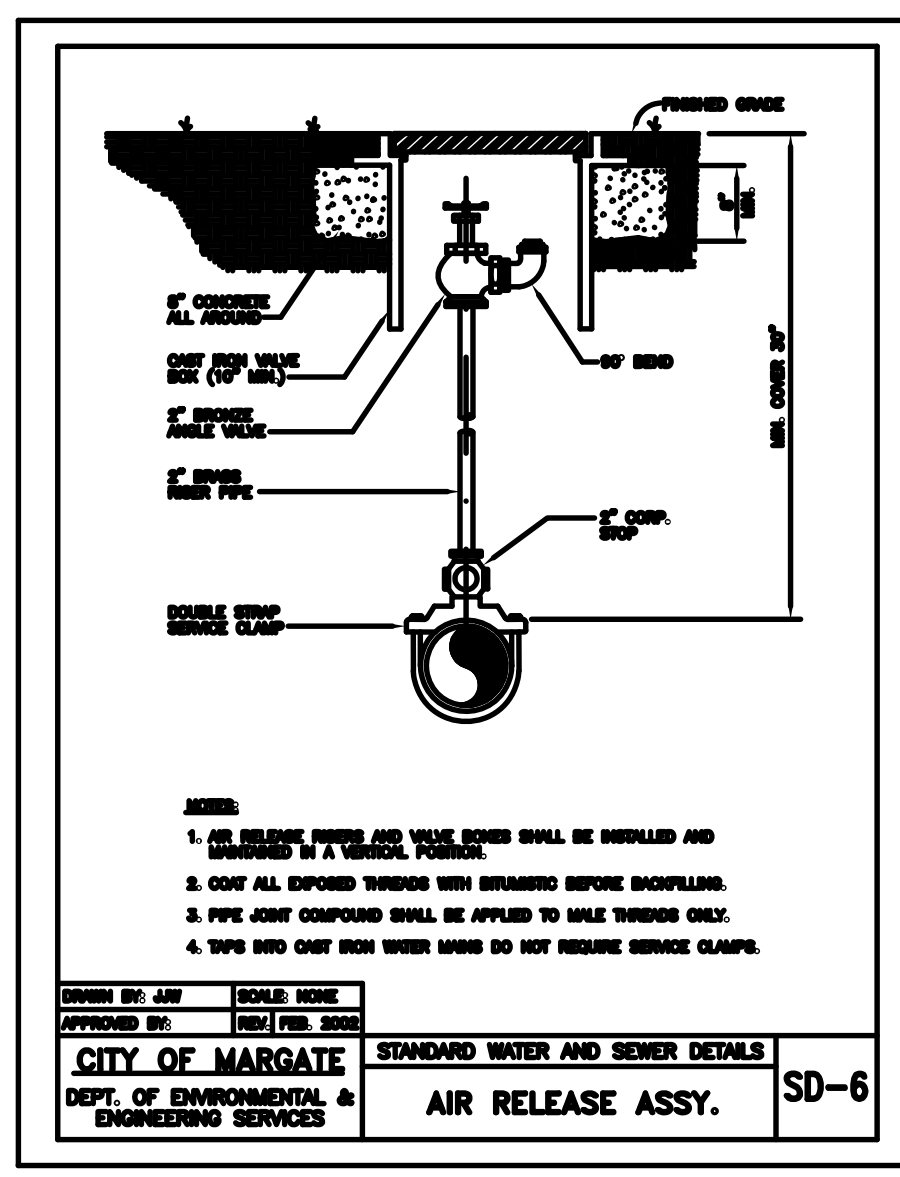
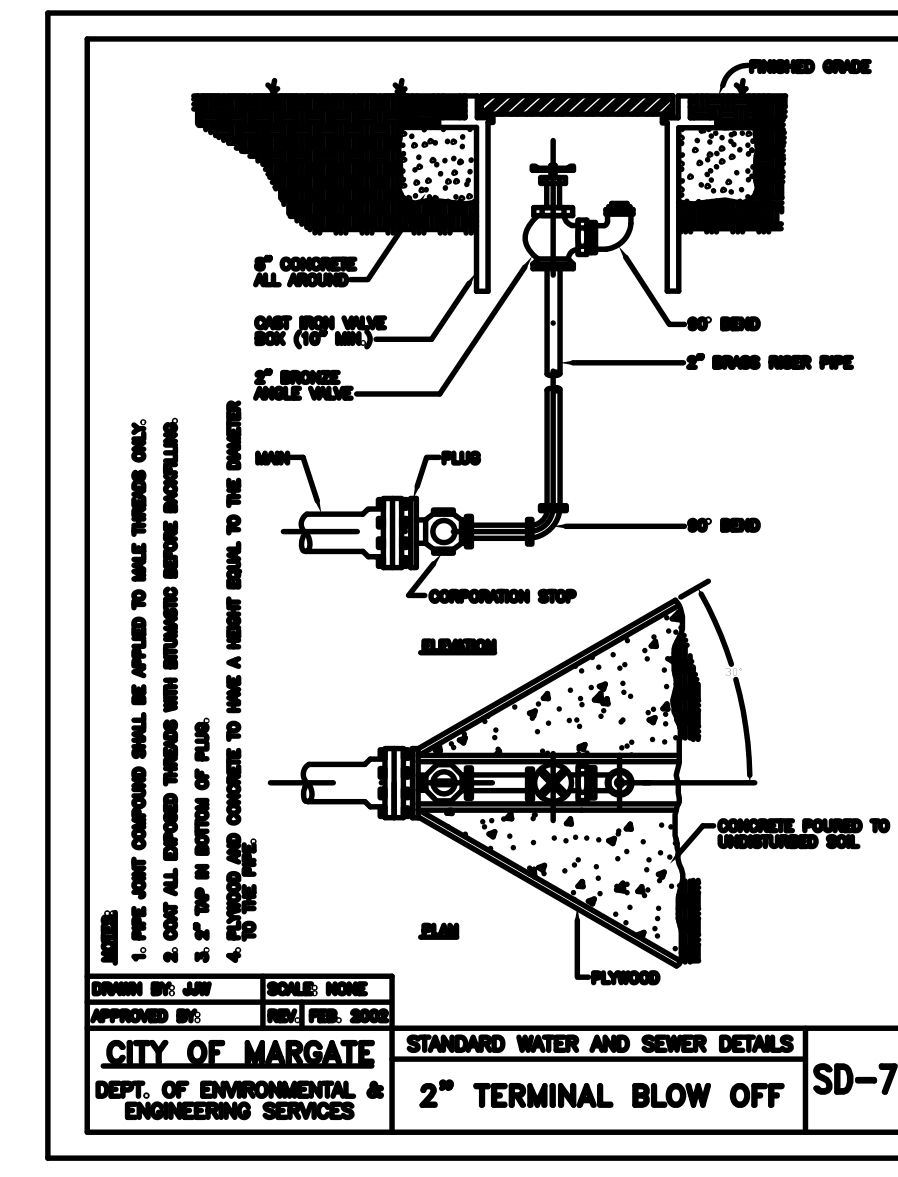
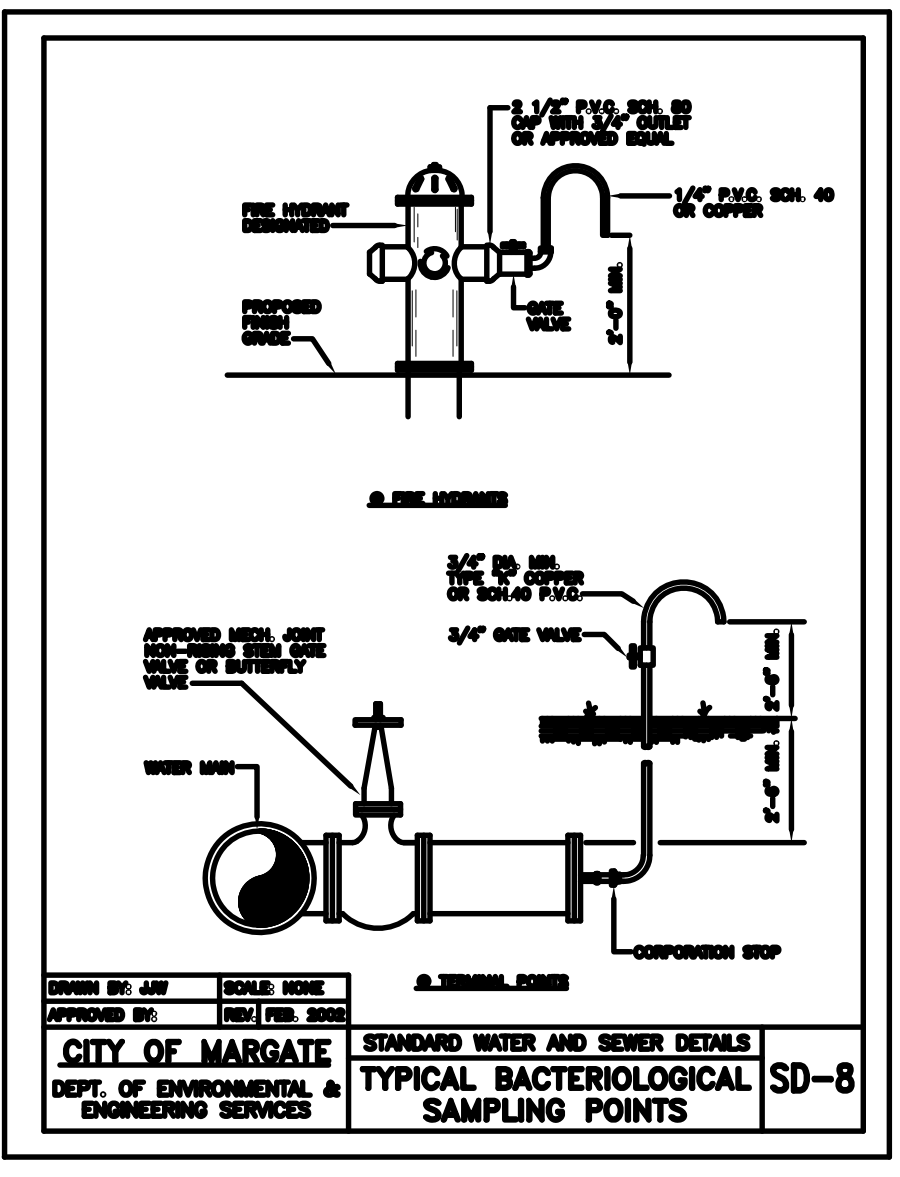
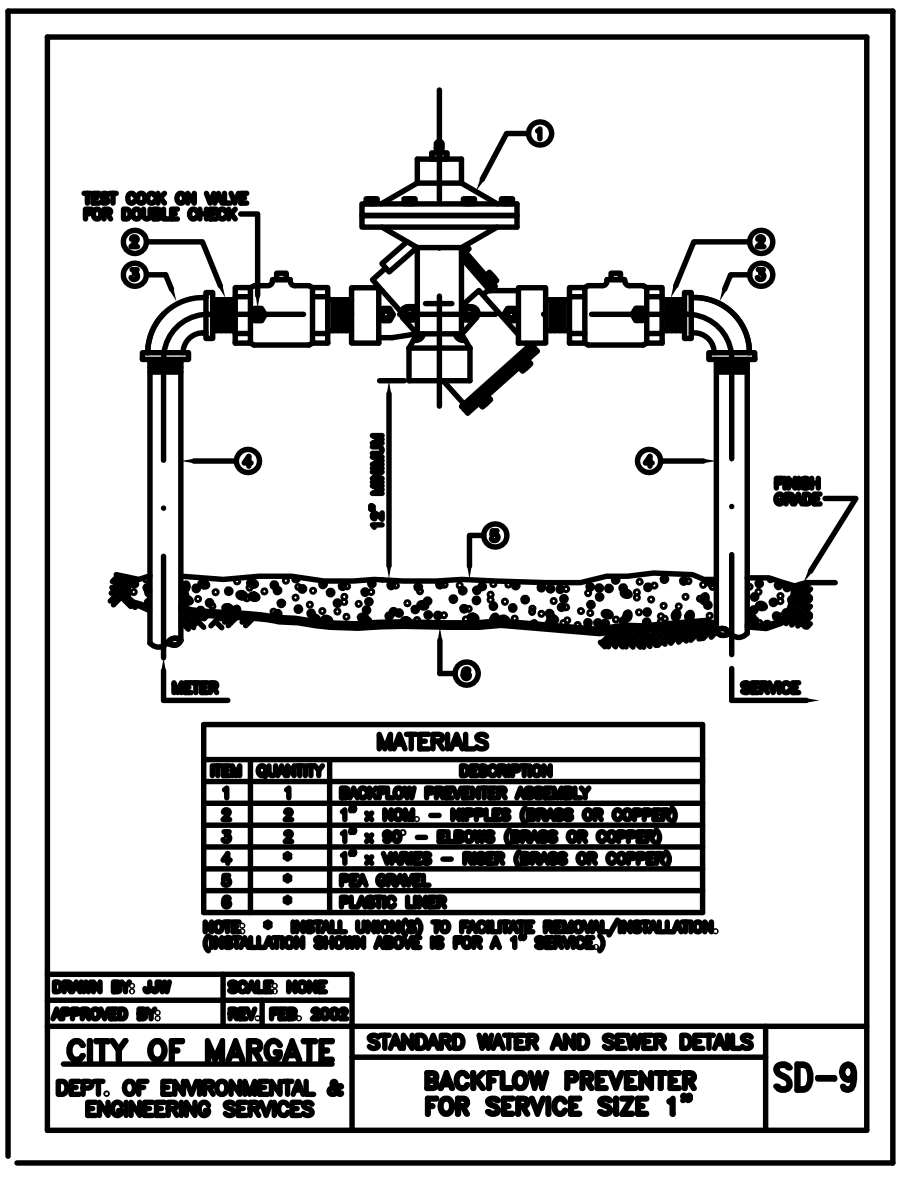
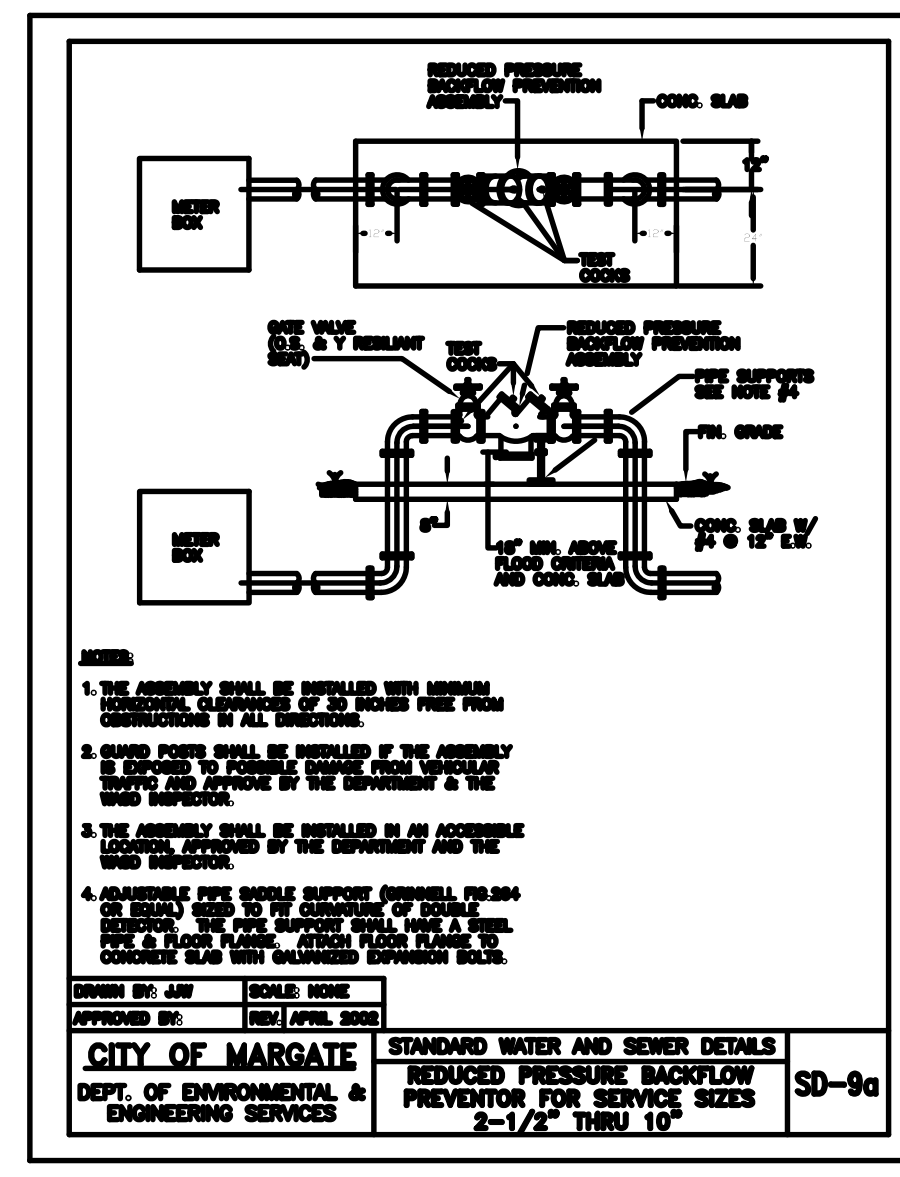
**CITY OF MARGATE  
 BROWARD COUNTY, FLORIDA  
 SEWER DETAILS**

APPROVED BY  
 DRAWN BY  
 DATE  
 SCALE  
 DETAILS



MARC A. FERMANIAN, P.E.  
 PROFESSIONAL ENGINEER NO. 52626  
 STATE OF FLORIDA

DATE:



C-9.DWG



CRJ & Associates, Inc.  
Consulting Engineers and Planners  
Florida Authorization # 0008245  
1000 N.W. 10th St., Suite 200  
Fort Lauderdale, FL 33304

PROPOSED NEW FIRE STATION 50  
NW 45 AVE.  
NW 43 AVE. & COCONUT CREEK PARKWAY  
COCONUT CREEK, FLORIDA

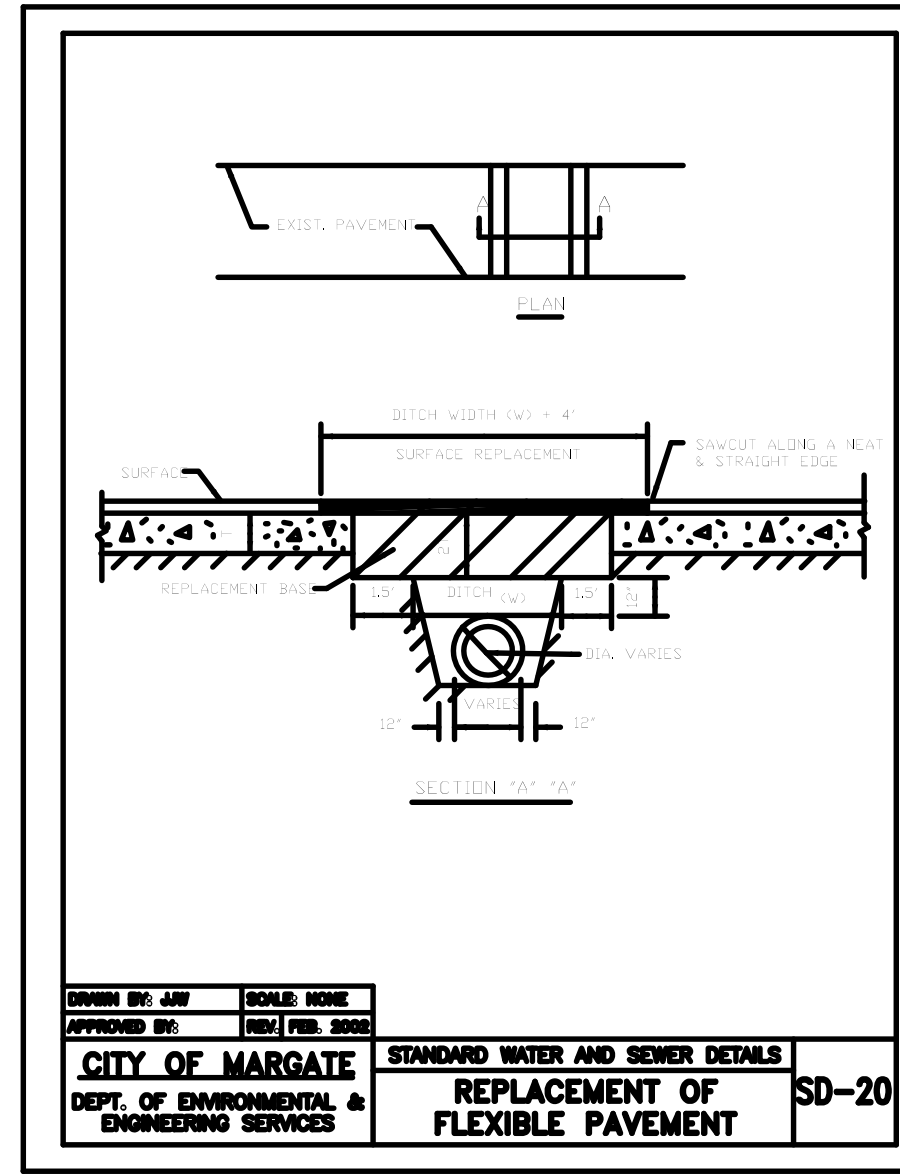
CPZ ARCHITECTS, INC.  
4316 WEST BROWARD BOULEVARD  
PLANTATION, FLORIDA 33317  
PHONE: (954) 792-8525 FAX: (954) 337-0359  
AA 12600685 WWW.CPZARCHITECTS.COM



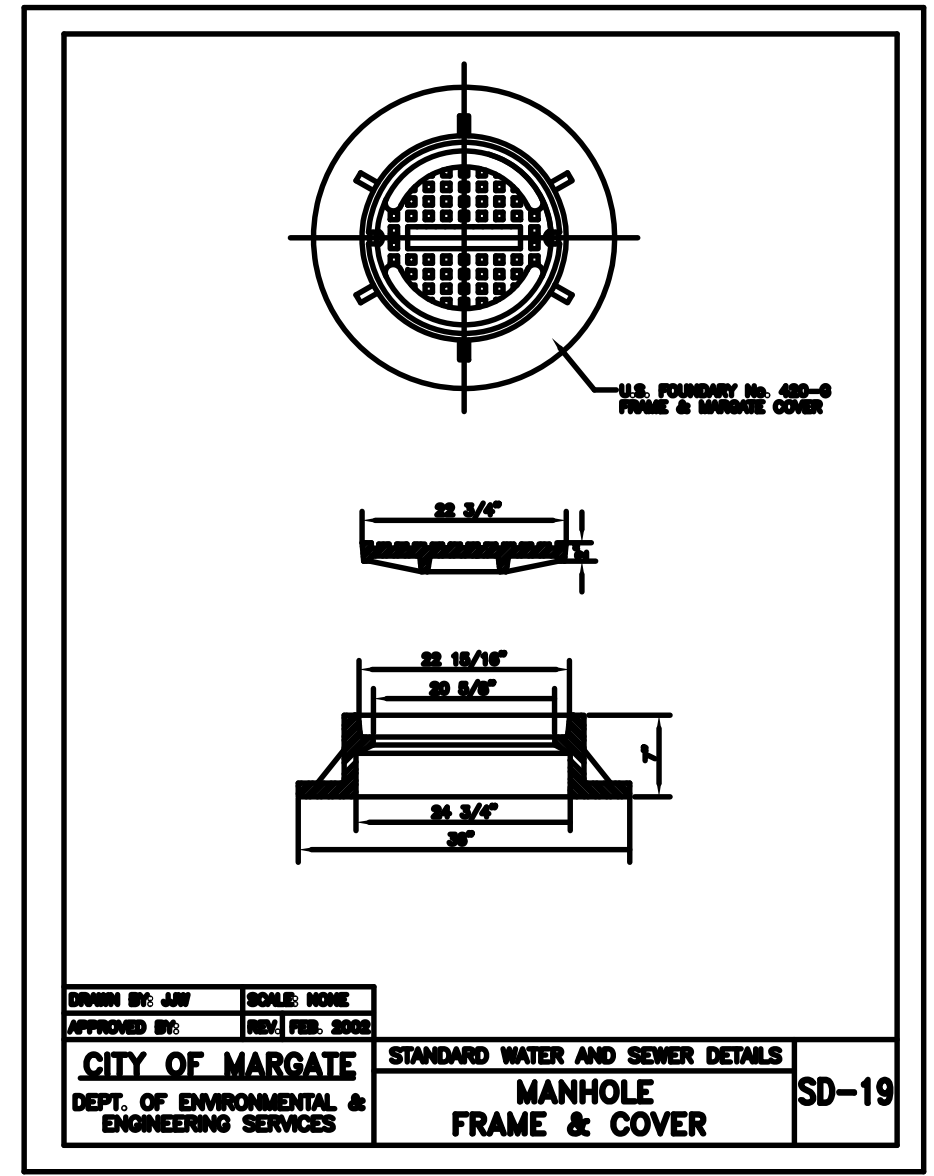
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CHECKED M.A.F.  
DATE 03/17/2014  
SCALE AS NOTED  
PROJ. NO. CNK-1018  
SHEET:

# CITY OF MARGATE BROWARD COUNTY, FLORIDA SEWER DETAILS

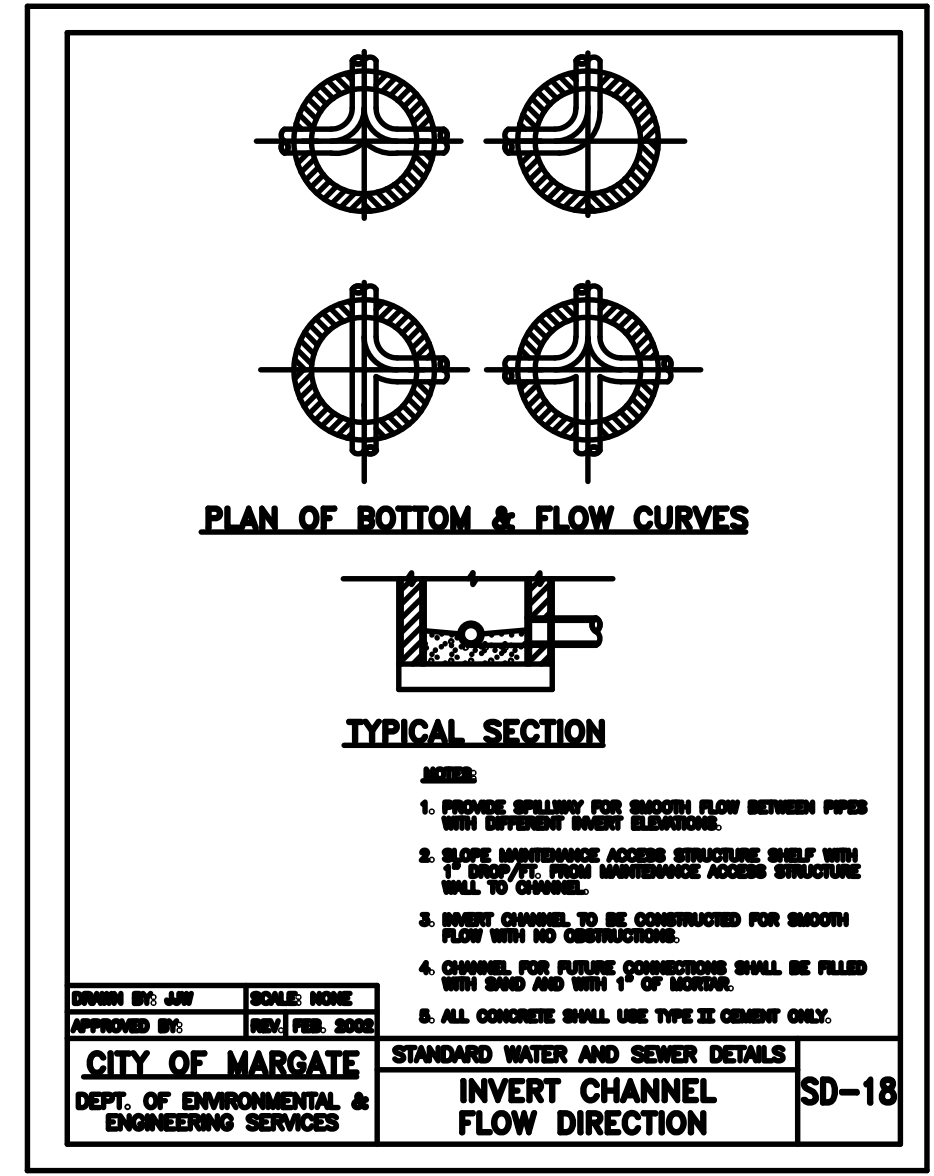
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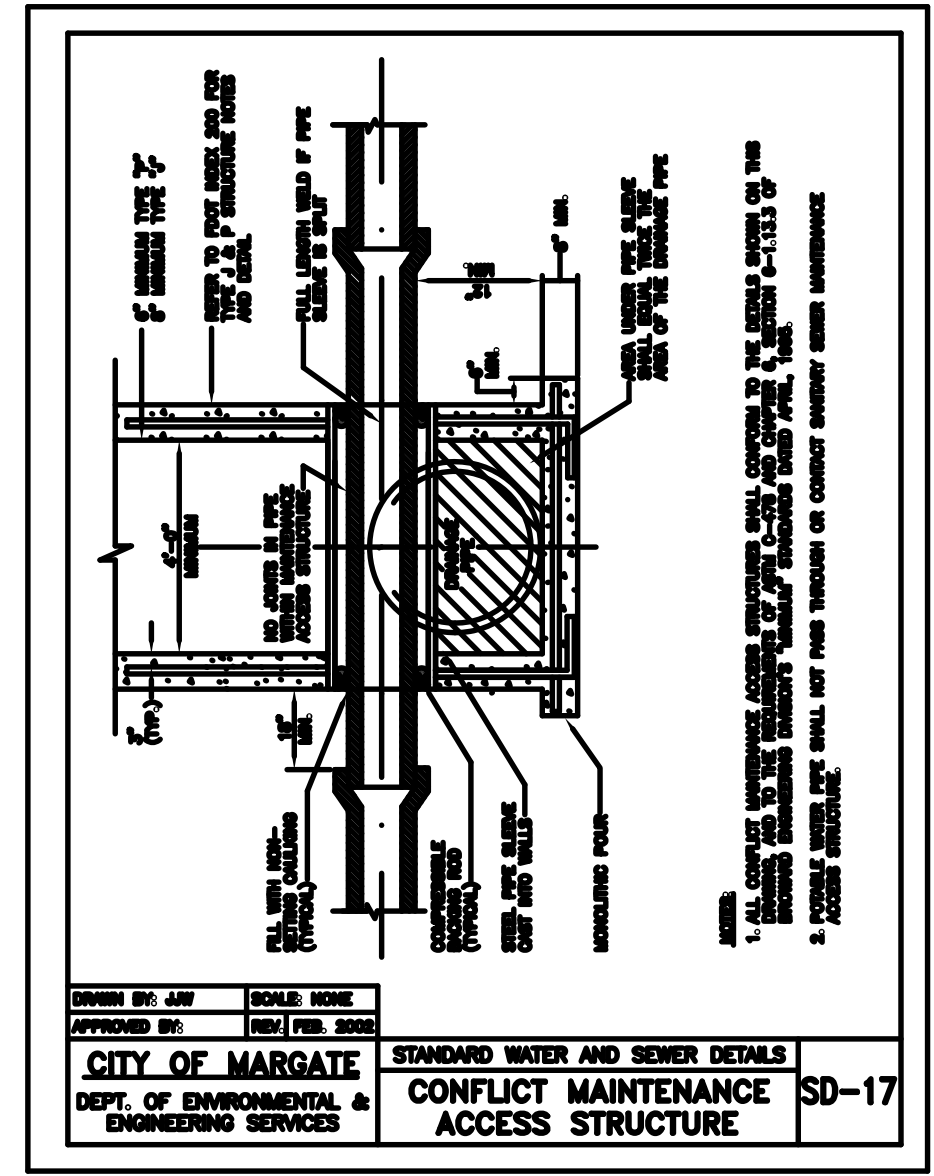
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DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES



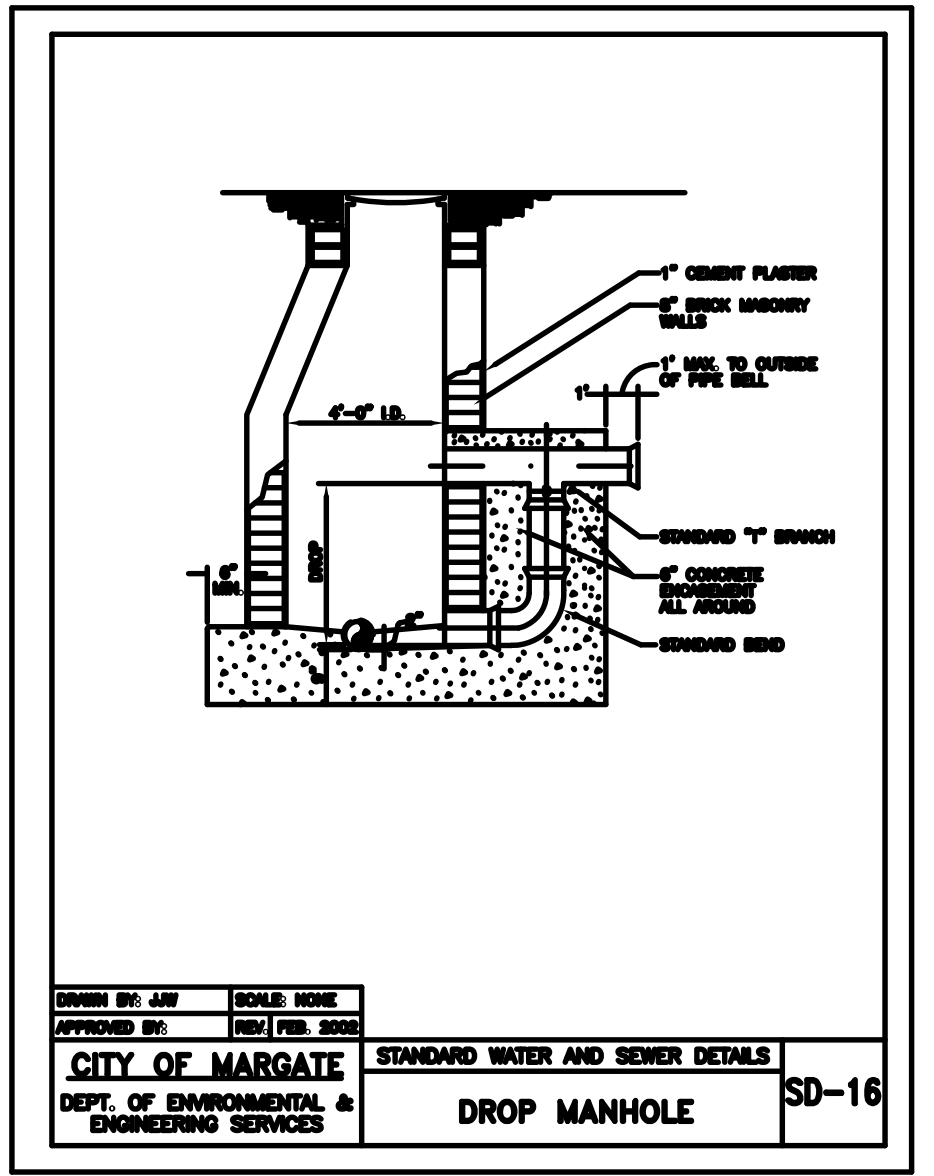
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DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES



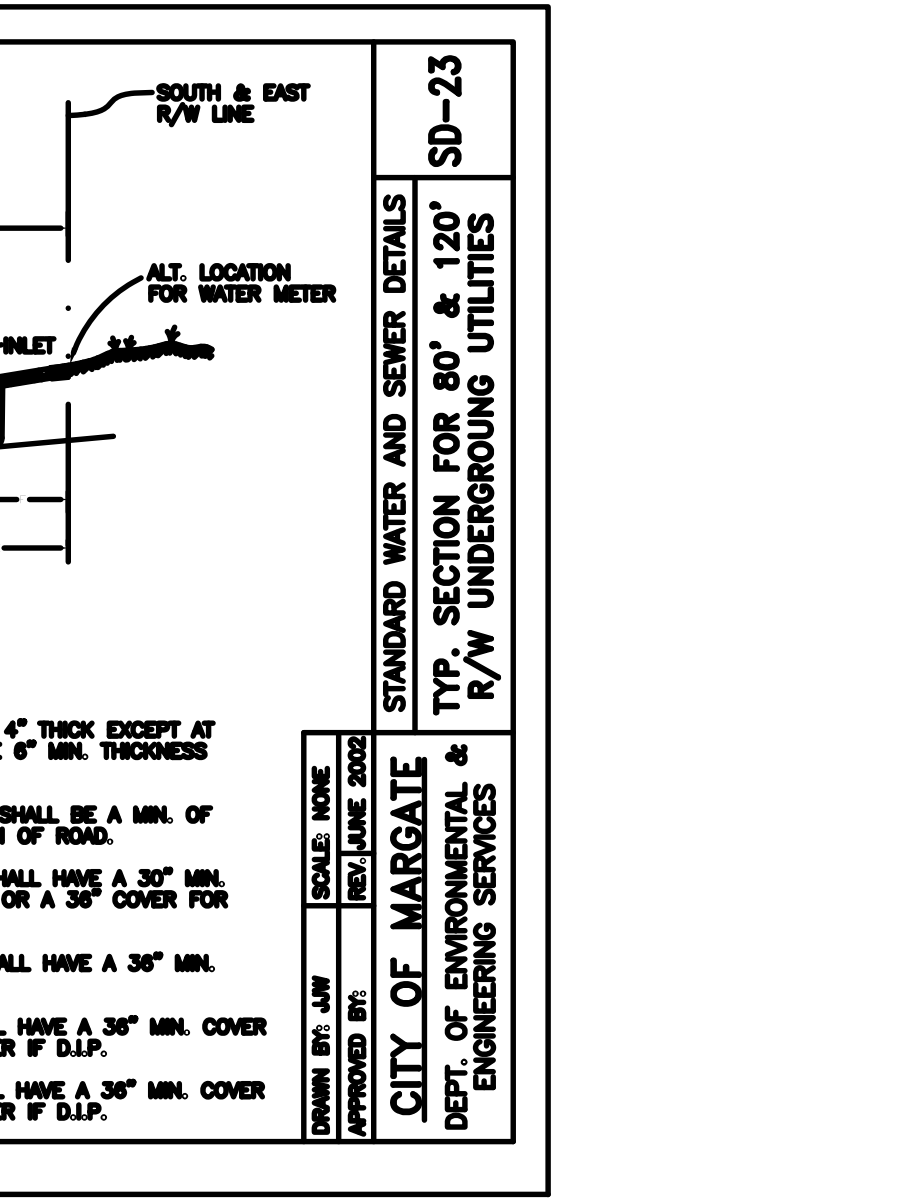
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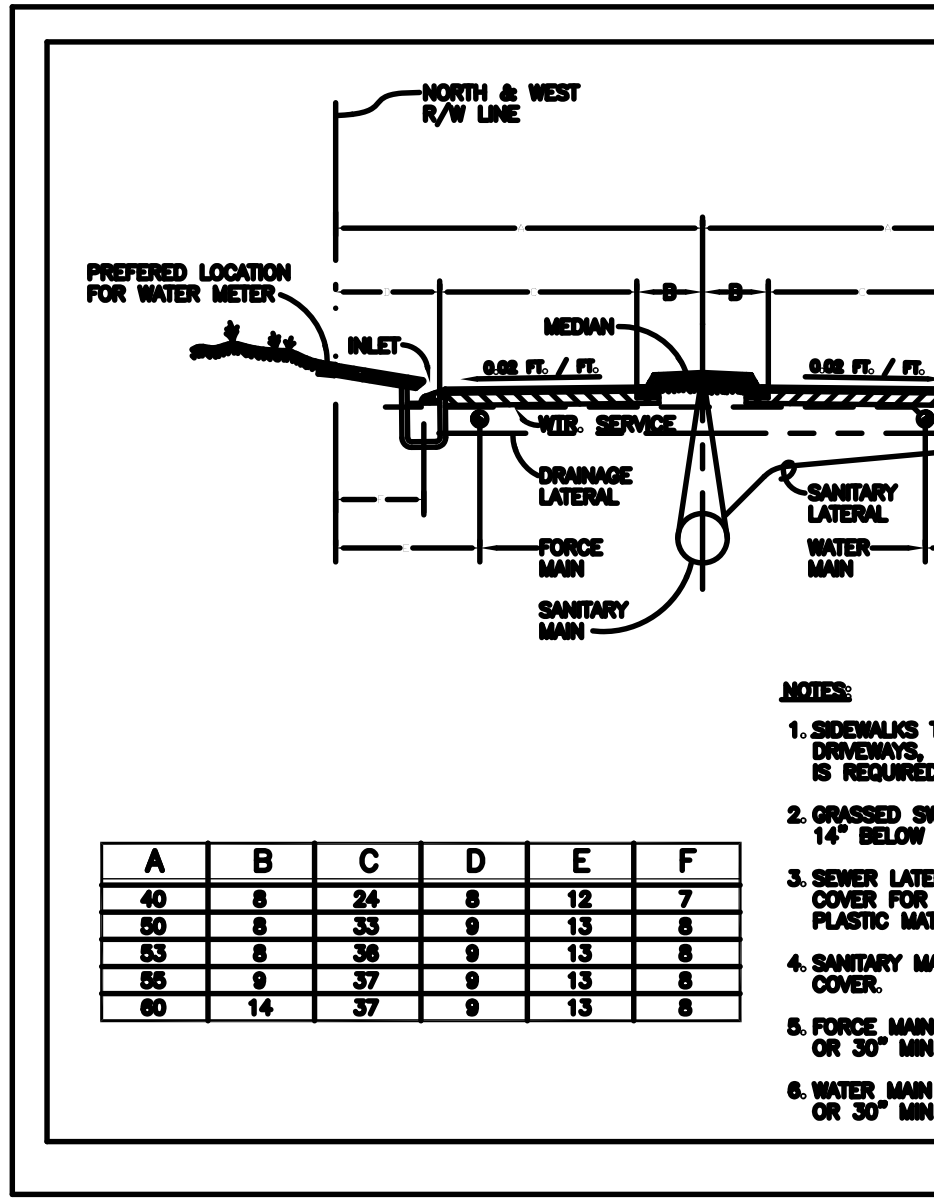
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DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES



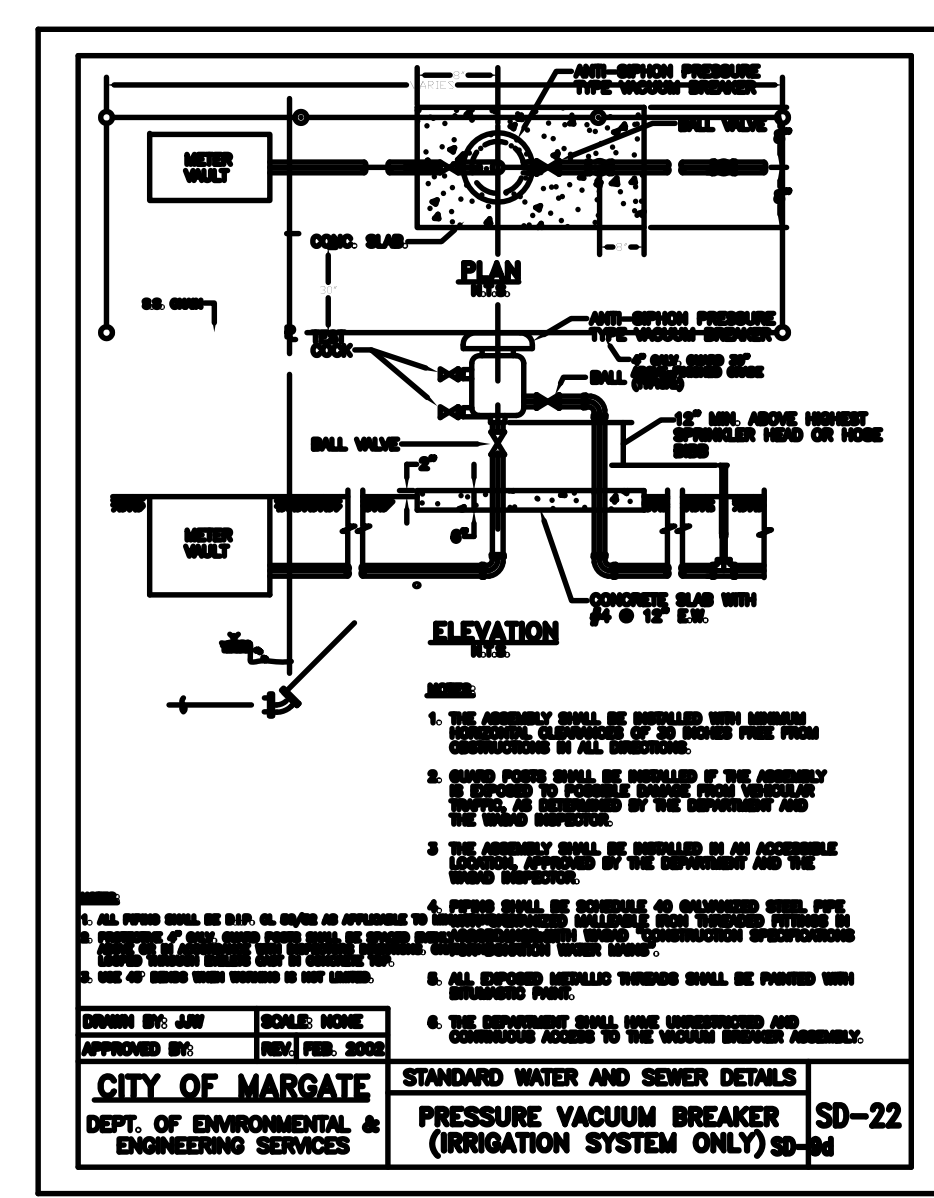
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DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES



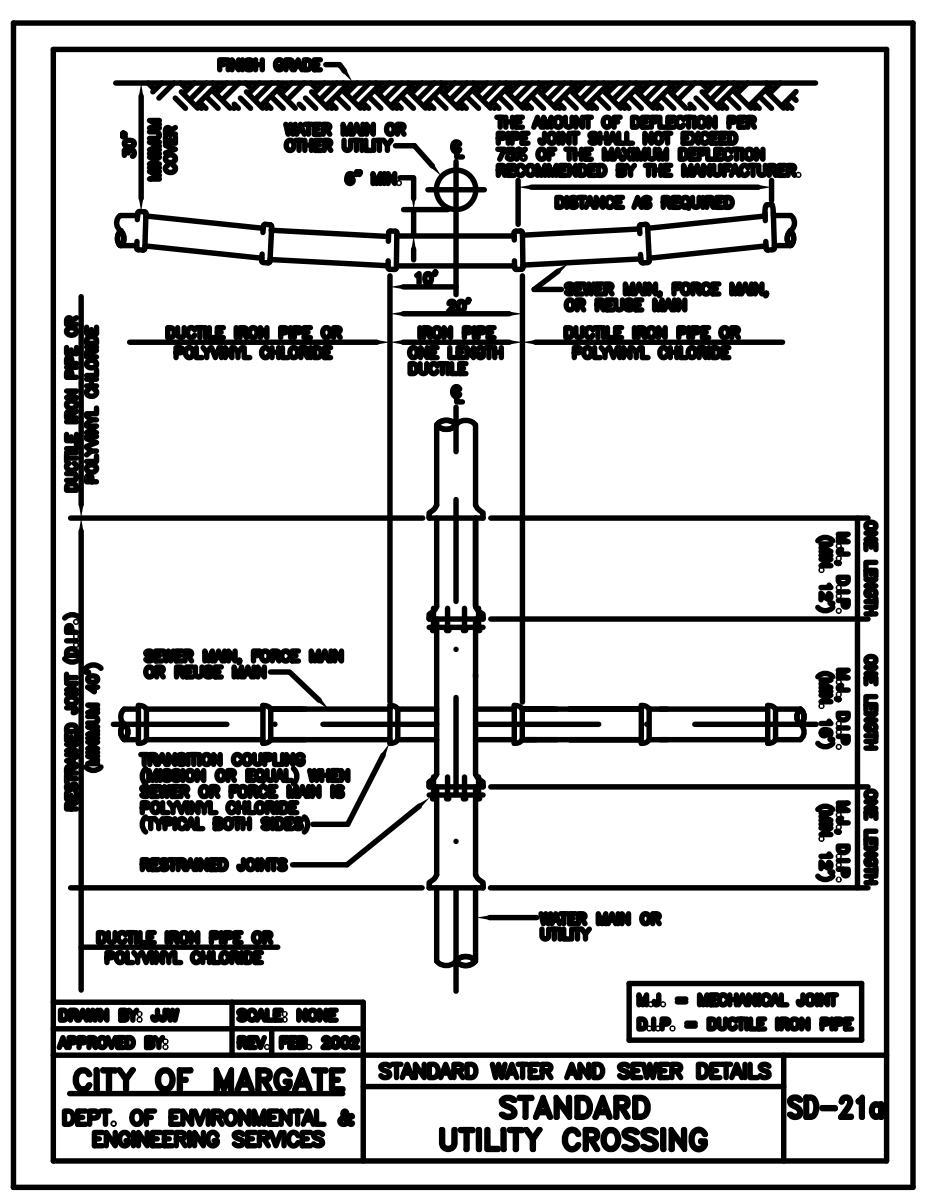
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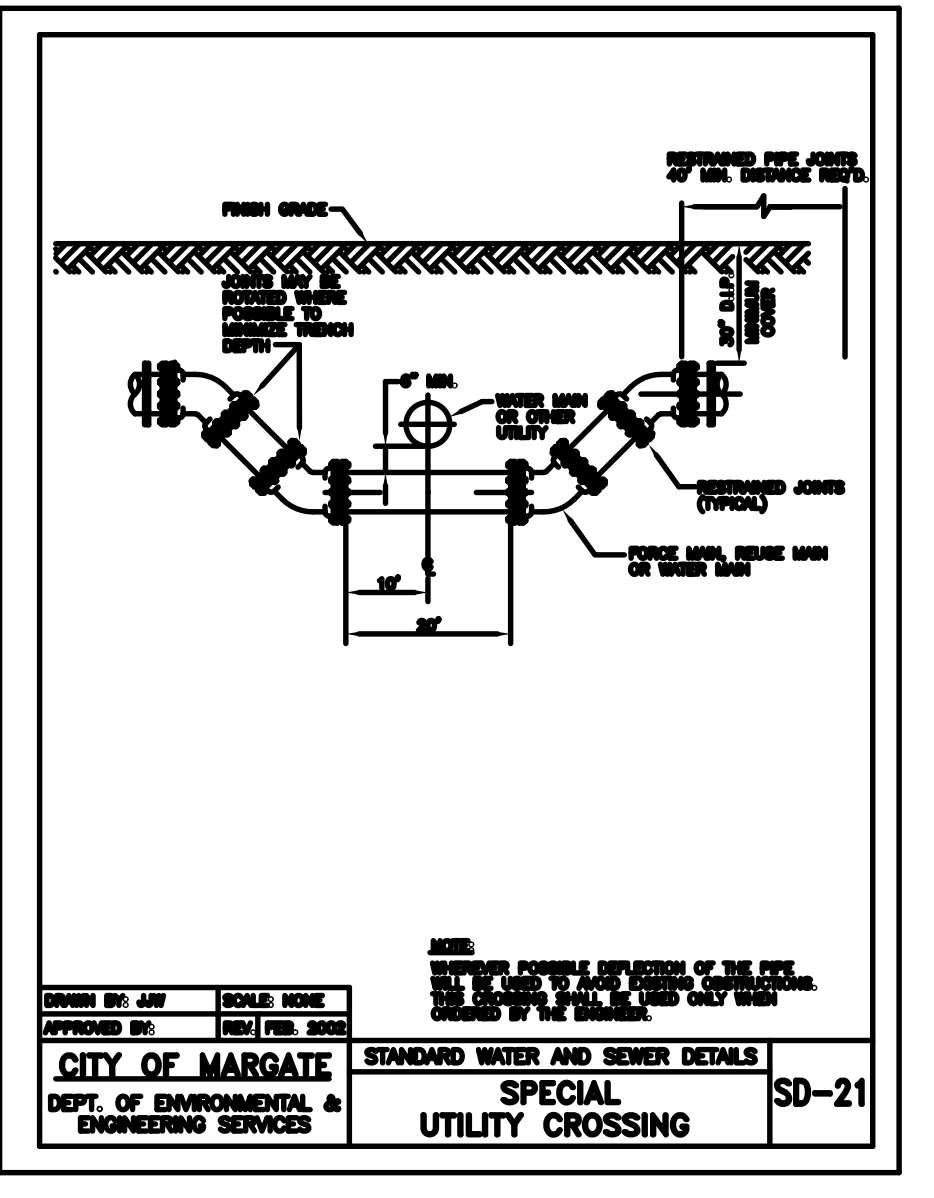
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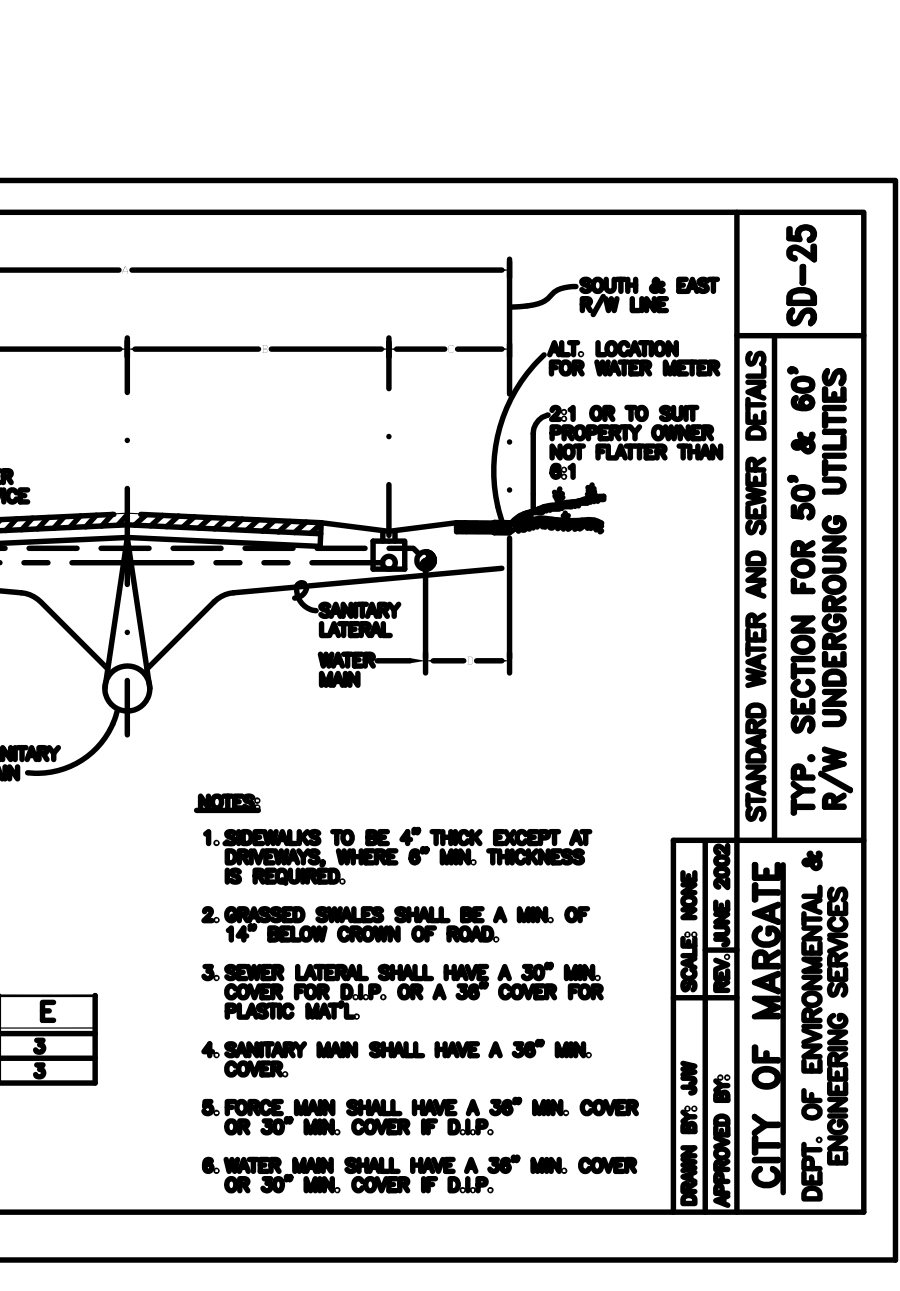
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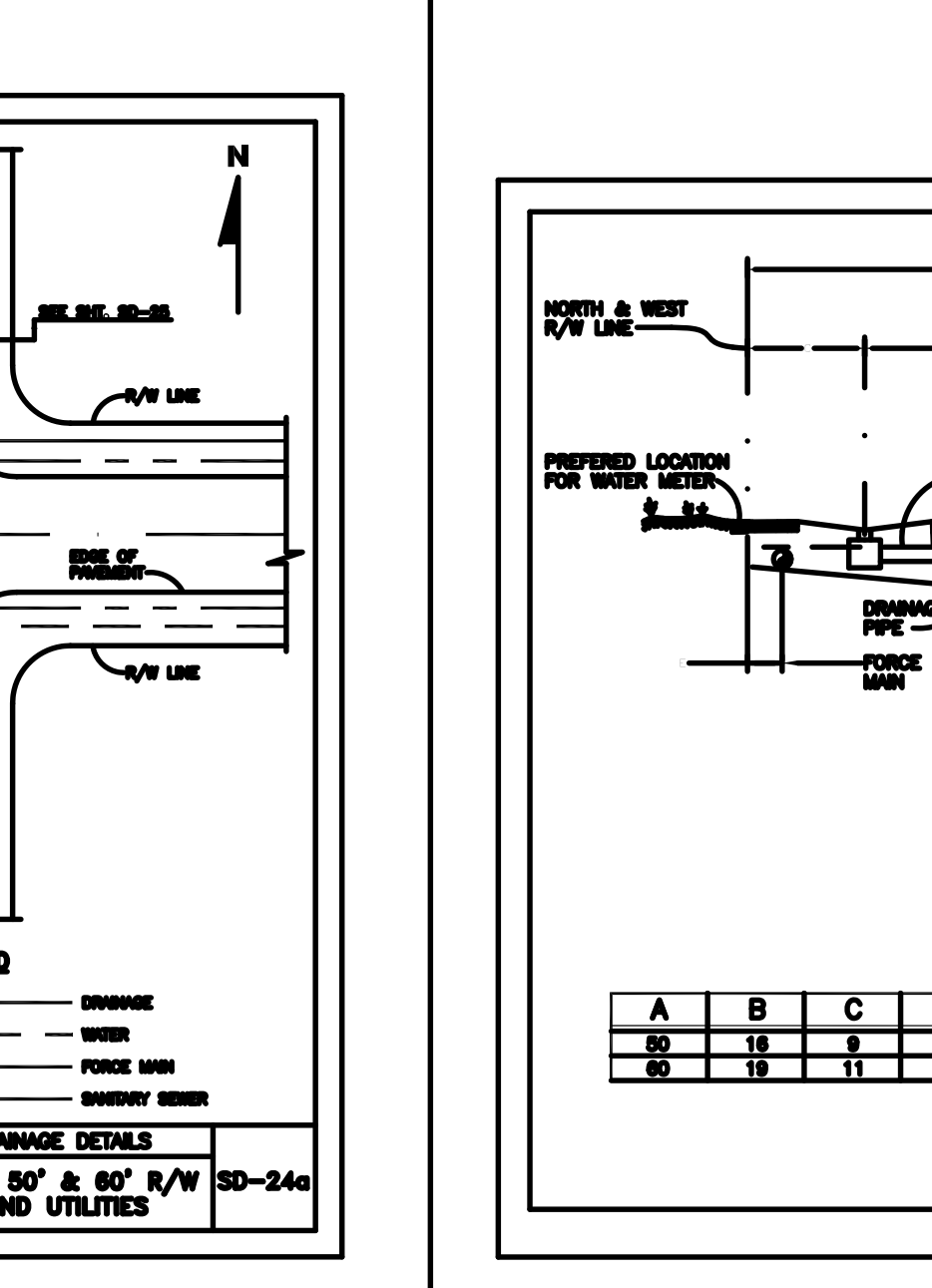
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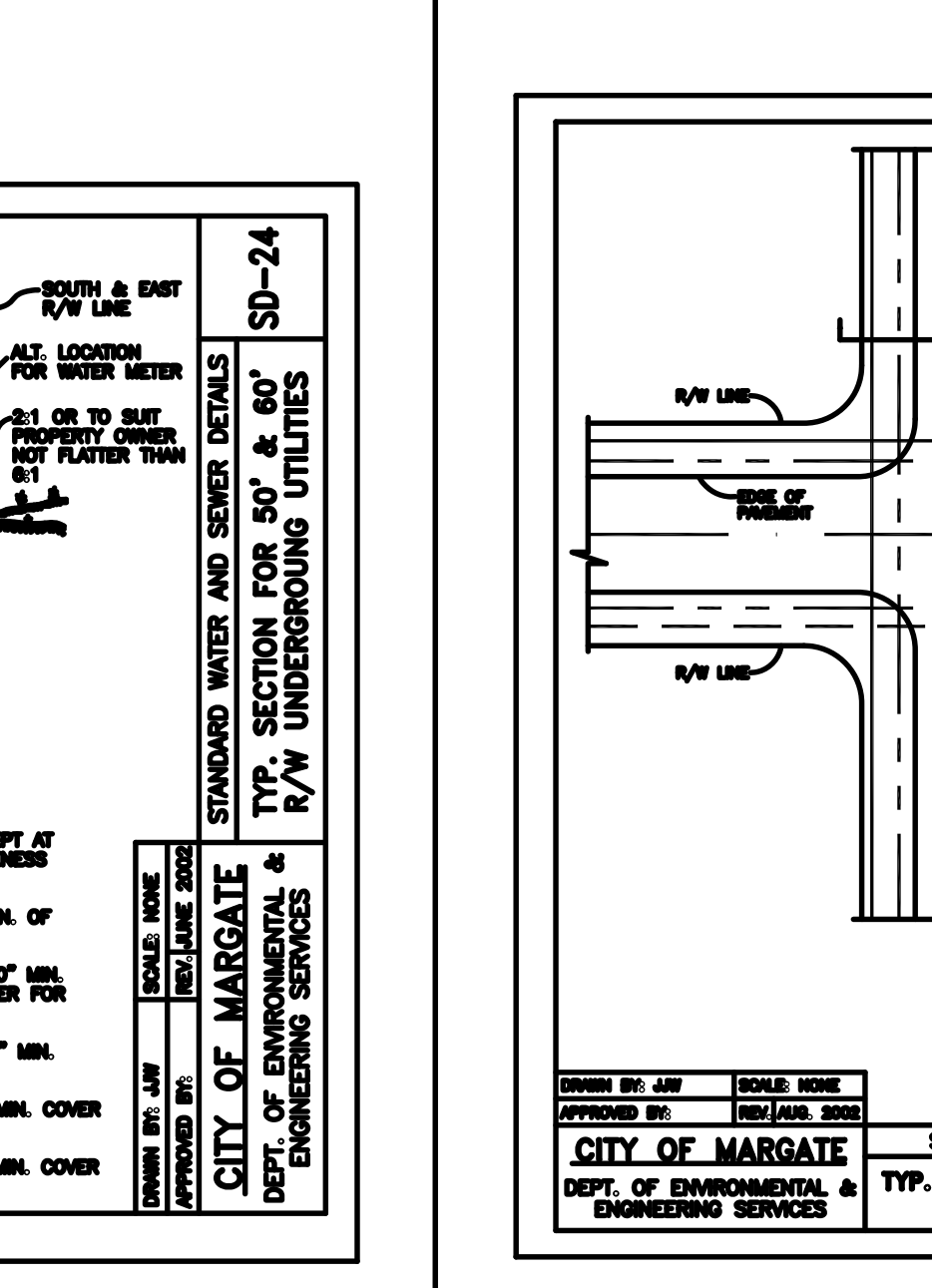
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DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES



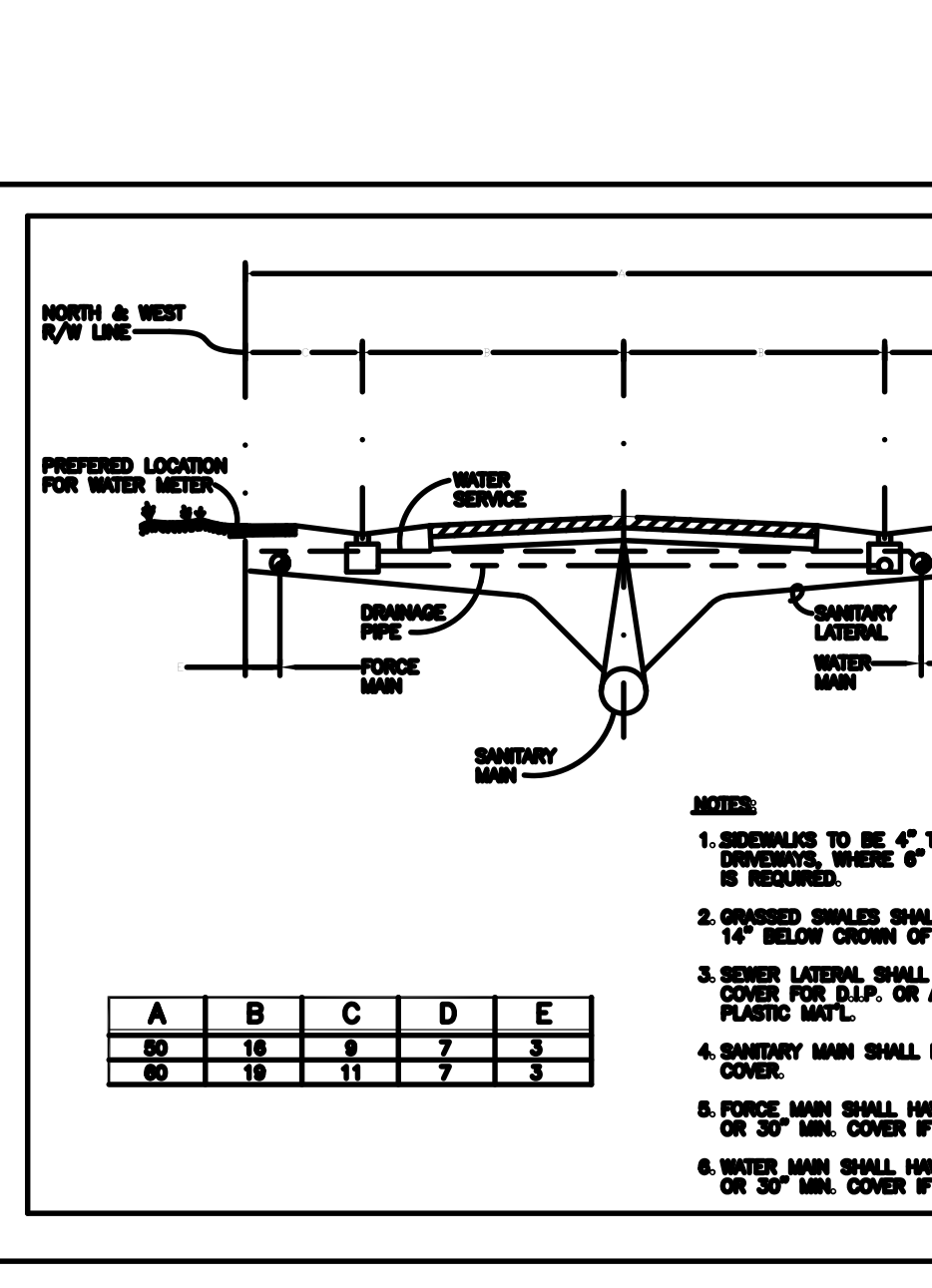
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DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES



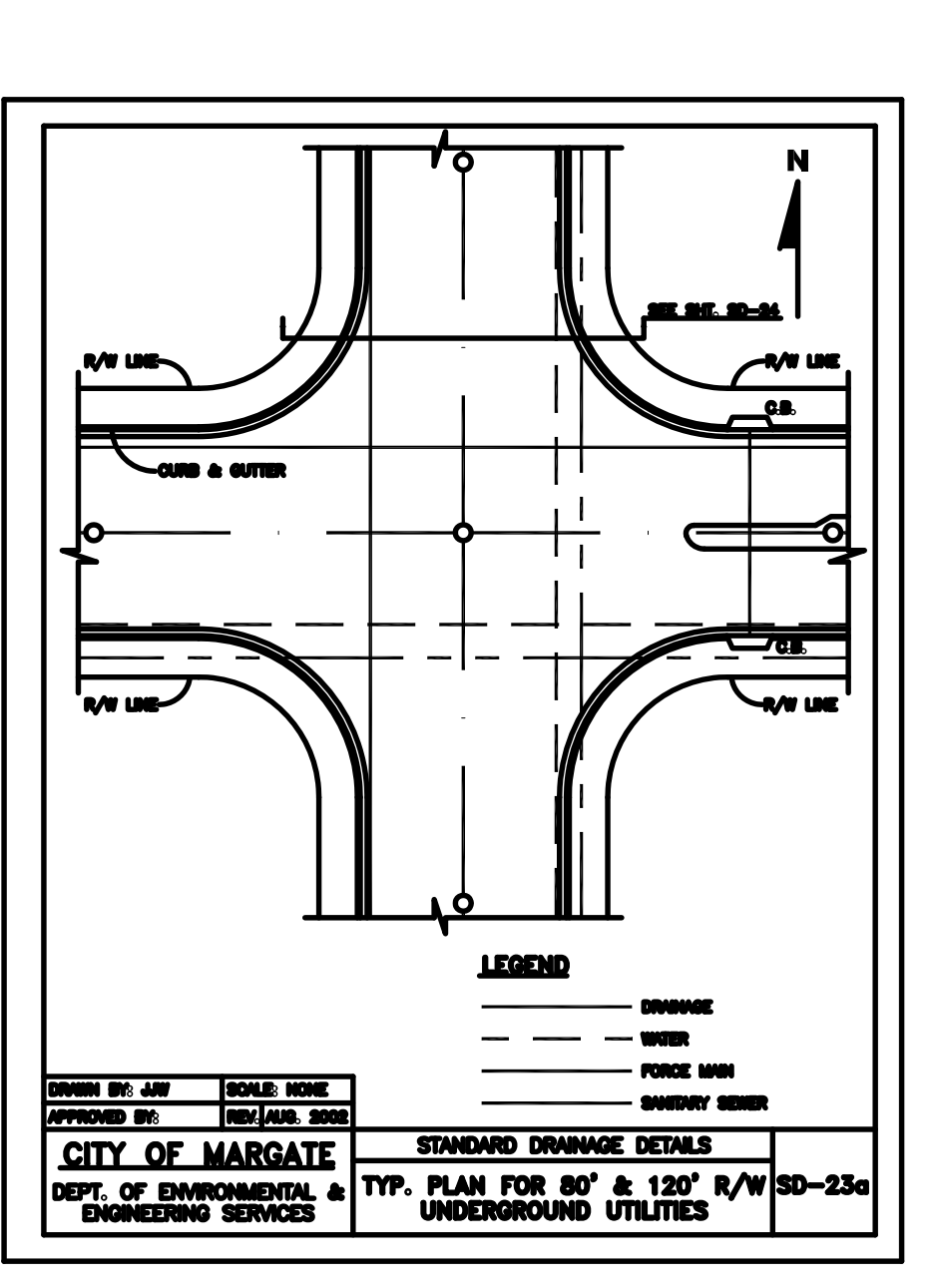
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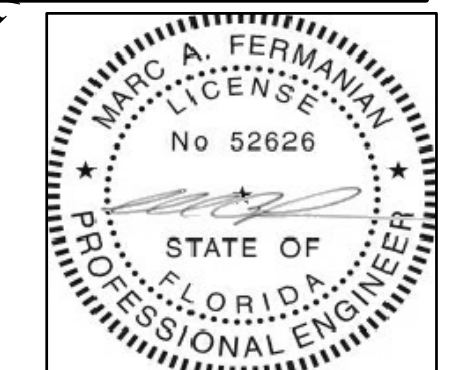
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DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES



CITY OF MARGATE STANDARD WATER AND SEWER DETAILS SD-22  
DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES



CITY OF MARGATE STANDARD WATER AND SEWER DETAILS SD-21  
DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES



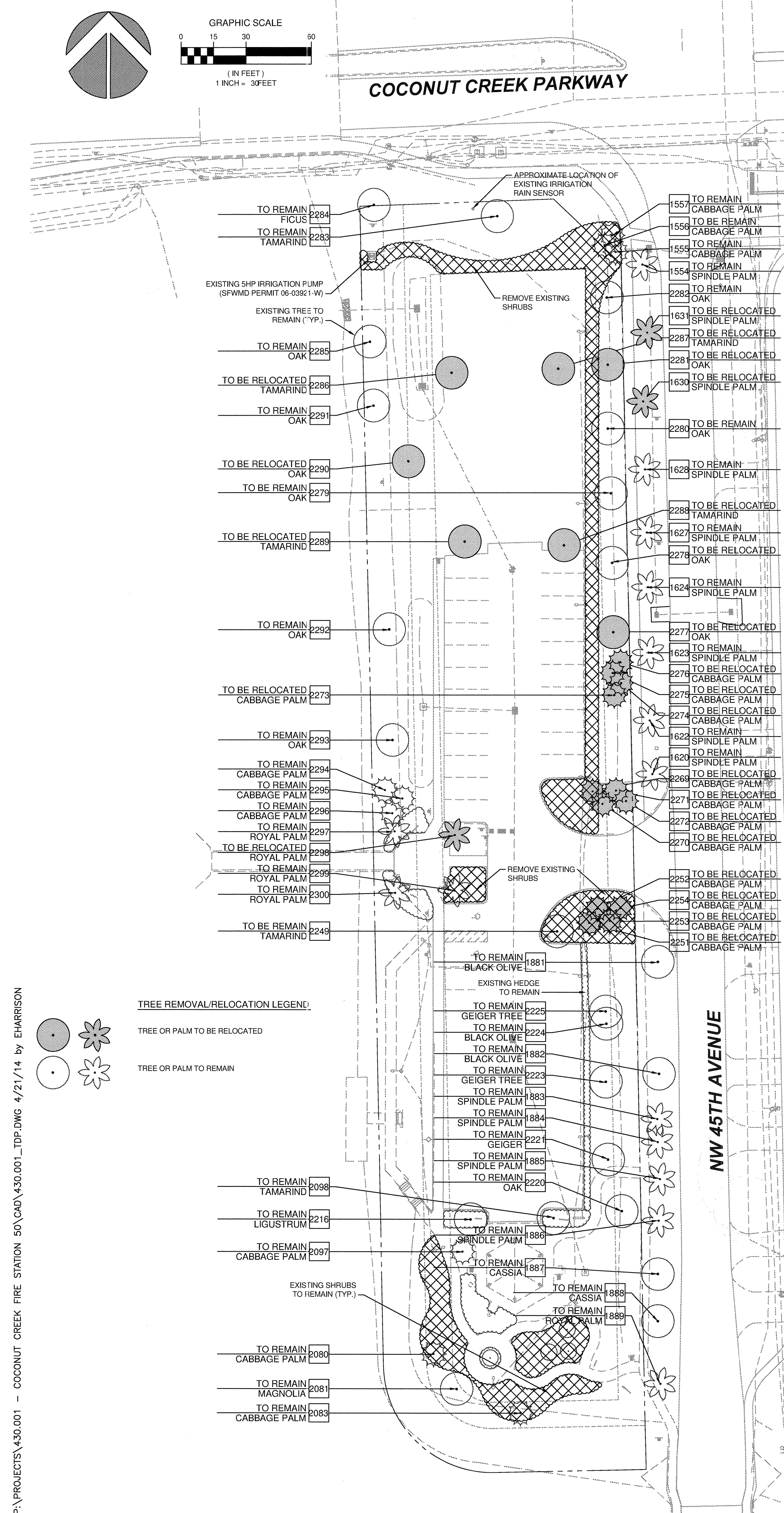
MARC A. FERMANIAN, P.E.  
PROFESSIONAL ENGINEER NO. 52626  
STATE OF FLORIDA

DATE:









**TREE DISPOSITION TABLE**

TREE ID #	COMMON NAME	BOTANICAL NAME	TRUNK DBH	HEIGHT	CANOPY SPREAD	ACTION	COMMENT
1221	QUEEN PALM	SYAGRUS ROMANZOFFIANA	12"	17'	170 SF	REMAIN	OFF SITE
1222	QUEEN PALM	SYAGRUS ROMANZOFFIANA	12"	17'	170 SF	REMAIN	OFF SITE
1223	ACACIA	ACACIA KURUSUKORUM	24"	33'	336 SF	REMAIN	OFF SITE
1483	SOLAIRE PALM	PTYCHOSPERMA ELEGANS	4"	15'	115 SF	REMAIN	OFF SITE
1484	SOLAIRE PALM	PTYCHOSPERMA ELEGANS	4"	14'	115 SF	REMAIN	OFF SITE
1485	SOLAIRE PALM	PTYCHOSPERMA ELEGANS	4"	14'	115 SF	REMAIN	OFF SITE
1486	SOLAIRE PALM	PTYCHOSPERMA ELEGANS	4"	15'	115 SF	REMAIN	OFF SITE
1487	SOLAIRE PALM	PTYCHOSPERMA ELEGANS	4"	15'	115 SF	REMAIN	OFF SITE
1488	SOLAIRE PALM	PTYCHOSPERMA ELEGANS	4"	14'	115 SF	REMAIN	OFF SITE
1500	SOLAIRE PALM	PTYCHOSPERMA ELEGANS	4"	14'	115 SF	REMAIN	OFF SITE
1510	SOLAIRE PALM	PTYCHOSPERMA ELEGANS	4"	14'	115 SF	REMAIN	OFF SITE
1511	SOLAIRE PALM	PTYCHOSPERMA ELEGANS	4"	14'	115 SF	REMAIN	OFF SITE
1533	NOT USED						
1536	NOT USED						
1539	NOT USED						
1540	NOT USED						
1554	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	7'	50 SF	REMAIN	
1555	CABBAGE PALM	SABAL PALMETTO	12"	15'	115 SF	REMAIN	
1556	CABBAGE PALM	SABAL PALMETTO	11"	16'	115 SF	REMAIN	
1557	CABBAGE PALM	SABAL PALMETTO	15"	10'	115 SF	REMAIN	
1620	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	8'	50 SF	REMAIN	
1622	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	8'	50 SF	REMAIN	
1623	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	8'	50 SF	REMAIN	
1624	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	7'	50 SF	REMAIN	
1625	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	8'	50 SF	REMAIN	
1626	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	7'	50 SF	REMAIN	
1627	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	8'	50 SF	REMAIN	
1628	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	8'	50 SF	REMAIN	
1631	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	7'	50 SF	RELOCATE	
1750	PIRK TABERNA	TABERNA HETEROPHYLLA	9"	7'	150 SF	REMAIN	OFF SITE
1751	PIRK TABERNA	TABERNA HETEROPHYLLA	7"	7'	150 SF	REMAIN	OFF SITE
1752	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	4'	50 SF	REMAIN	OFF SITE
1757	RED MAPLE	ACER RUBRUM	8"	4'	125 SF	REMAIN	OFF SITE
1758	RED MAPLE	ACER RUBRUM	8"	4'	125 SF	REMAIN	OFF SITE
1759	DATE PALM	PHOENIX DACTYLIFERA	24"	4'	200 SF	REMAIN	OFF SITE
1770	DATE PALM	PHOENIX DACTYLIFERA	24"	4'	200 SF	REMAIN	OFF SITE
1800	YELLOW TABERNA	TABERNA CANABIA	15"	6'	615 SF	REMAIN	OFF SITE
1803	PIRK TABERNA	TABERNA HETEROPHYLLA	10"	10'	170 SF	REMAIN	OFF SITE
1854	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	6'	50 SF	REMAIN	OFF SITE
1855	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	6'	50 SF	REMAIN	OFF SITE
1881	BLACK OLIVE	BUCCIDA BUCCERAS	24"	1500 SF	REMAIN		
1882	BLACK OLIVE	BUCCIDA BUCCERAS	24"	970 SF	REMAIN		
1883	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	7'	50 SF	REMAIN	
1884	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	7'	50 SF	REMAIN	
1885	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	5'	50 SF	REMAIN	
1886	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	8'	50 SF	REMAIN	
1887	CASSIA	CASSIA BAHAMENSIS	8"	200 SF	REMAIN		
1888	CASSIA	CASSIA BAHAMENSIS	8"	200 SF	REMAIN		
1889	ROYAL PALM	ROYSTONIA ELATA	16"	16"	300 SF	REMAIN	
1890	CABBAGE PALM	SABAL PALMETTO	12"	11'	115 SF	REMAIN	OFF SITE
1891	CABBAGE PALM	SABAL PALMETTO	12"	12'	115 SF	REMAIN	OFF SITE
1893	CABBAGE PALM	SABAL PALMETTO	12"	13'	115 SF	REMAIN	OFF SITE
1897	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	4'	50 SF	REMAIN	OFF SITE
1898	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	4'	50 SF	REMAIN	OFF SITE
1899	BLACK OLIVE	BUCCIDA BUCCERAS	24"	2570 SF	REMAIN	OFF SITE	
1903	BLACK OLIVE	BUCCIDA BUCCERAS	24"	730 SF	REMAIN	OFF SITE	
2080	CABBAGE PALM	SABAL PALMETTO	12"	12'	115 SF	REMAIN	
2081	MAGNOLIA	MAGNOLIA GRANDIFLORA	6"	175 SF	REMAIN		
2083	CABBAGE PALM	SABAL PALMETTO	9.00	9'	115 SF	REMAIN	
2097	CABBAGE PALM	SABAL PALMETTO	12"	18'	115 SF	REMAIN	
2098	TAMARIND	LYSILOMA LATSISQUIUM	12"	250 SF	REMAIN		
2216	LIGUSTRUM	LIGUSTRUM JAPONICUM	9"	135 SF	REMAIN		
2220	OAK	QUERCUS VIRGINIANA	15"	605 SF	REMAIN		
2221	ORANGE GEIGER	CORDIA SEBESTENA	3"	175 SF	REMAIN		
2223	ORANGE GEIGER	CORDIA SEBESTENA	3"	175 SF	REMAIN		
2224	BLACK OLIVE	BUCCIDA BUCCERAS	3"	175 SF	REMAIN		
2225	ORANGE GEIGER	CORDIA SEBESTENA	3"	175 SF	REMAIN		
2249	TAMARIND	LYSILOMA LATSISQUIUM	12"	460 SF	REMAIN		
2251	CABBAGE PALM	SABAL PALMETTO	12"	19'	115 SF	RELOCATE	
2252	CABBAGE PALM	SABAL PALMETTO	12"	15'	115 SF	RELOCATE	
2253	CABBAGE PALM	SABAL PALMETTO	12"	13'	115 SF	RELOCATE	
2254	CABBAGE PALM	SABAL PALMETTO	12"	15'	115 SF	RELOCATE	
2259	CABBAGE PALM	SABAL PALMETTO	12"	17'	115 SF	RELOCATE	
2270	CABBAGE PALM	SABAL PALMETTO	12"	15'	115 SF	RELOCATE	
2271	CABBAGE PALM	SABAL PALMETTO	10"	13'	115 SF	RELOCATE	
2272	CABBAGE PALM	SABAL PALMETTO	12"	13'	115 SF	RELOCATE	
2273	CABBAGE PALM	SABAL PALMETTO	14"	18'	115 SF	RELOCATE	
2274	CABBAGE PALM	SABAL PALMETTO	12"	13'	115 SF	RELOCATE	
2275	CABBAGE PALM	SABAL PALMETTO	10"	17'	115 SF	RELOCATE	
2276	CABBAGE PALM	SABAL PALMETTO	14"	18'	115 SF	RELOCATE	
2277	OAK	QUERCUS VIRGINIANA	20"	1175 SF	REMAIN		
2278	OAK	QUERCUS VIRGINIANA	20"	530 SF	REMAIN		
2279	OAK	QUERCUS VIRGINIANA	16"	675 SF	REMAIN		
2280	OAK	QUERCUS VIRGINIANA	20"	650 SF	REMAIN		
2281	OAK	QUERCUS VIRGINIANA	18"	440 SF	RELOCATE		
2282	OAK	QUERCUS VIRGINIANA	18"	784 SF	REMAIN		
2283	TAMARIND	LYSILOMA LATSISQUIUM	12"	175 SF	REMAIN		
2284	OAK	QUERCUS VIRGINIANA	6"	3422 SF	REMAIN		
2285	OAK	QUERCUS VIRGINIANA	22"	417 SF	REMAIN		
2286	TAMARIND	LYSILOMA LATSISQUIUM	10"	236 SF	RELOCATE		
2287	TAMARIND	LYSILOMA LATSISQUIUM	10"	850 SF	RELOCATE		
2288	TAMARIND	LYSILOMA LATSISQUIUM	8"	680 SF	RELOCATE		
2289	TAMARIND	LYSILOMA LATSISQUIUM	8"	320 SF	RELOCATE		
2290	OAK	QUERCUS VIRGINIANA	22"	650 SF	RELOCATE		
2291	OAK	QUERCUS VIRGINIANA	20"	280 SF	REMAIN		
2292	OAK	QUERCUS VIRGINIANA	10"	286 SF	REMAIN		
2293	OAK	QUERCUS VIRGINIANA	8"	282 SF	REMAIN		
2294	CABBAGE PALM	SABAL PALMETTO	10"	16'	115 SF	REMAIN	
2295	CABBAGE PALM	SABAL PALMETTO	10"	19'	115 SF	REMAIN	
2296	CABBAGE PALM	SABAL PALMETTO	10"	18'	115 SF	REMAIN	
2297	ROYAL PALM	ROYSTONIA ELATA	16"	300 SF	REMAIN		
2298	ROYAL PALM	ROYSTONIA ELATA	16"	18'	300 SF	RELOCATE	
2299	ROYAL PALM	ROYSTONIA ELATA	16"	14'	300 SF	RELOCATE	
2300	ROYAL PALM	ROYSTONIA ELATA	24"	20'	300 SF	REMAIN	

**TREE PRESERVATION AND PROTECTION REQUIREMENTS**

SECTION 13-448. PRESERVATION AND PROTECTION OF TREES AND TREE PRESERVATION TRUST ACCOUNT

CODE APPLICATION	AREA/QUANTITY/METHODOLOGY
13-448(G)(1)	TREE LOCATIONS AND SPECIES DETERMINED BY: <ul style="list-style-type: none"> <li>BOUNDARY AND TOPOGRAPHIC SURVEY AS PROVIDED BY STONER AND ASSOCIATES DATED 01.16.14.</li> <li>CANOPY SQUARE FOOTAGE CALCULATED VIA LABRIS AERIAL IMAGERY</li> <li>TREE SPECIES DETERMINED BY THE BOUNDARY &amp; TOPOGRAPHIC SURVEY DENOTED AS "UNKNOWN" VERIFIED BY GOOGLE STREET VIEW AND APPROVED COCONUT CREEK COMMUNITY CENTER LANDSCAPE PLANS PREPARED BY SCHARF &amp; ASSOCIATES, LATEST REVISION 06.24.04</li> </ul>
B.	RELOCATION OF TREES ON-SITE WILL BE COUPLED TOWARDS EQUIVALENT REPLACEMENT. RELOCATION OF TREES OFF-SITE SHALL BE COUNTED AS HALF CREDIT TOWARDS EQUIVALENT REPLACEMENT. GUIDELINES IN THIS SECTION SHALL BE FOLLOWED FOR ANY TREES TO BE RELOCATED.
C.	NATIVE TREES IDENTIFIED IN 13-448 APPENDIX 1 AND APPENDIX 2 SHALL BE REQUIRED TO REPLACE NATIVE TREE COVERAGE REMOVED.
D.	A DETERMINATION OF THE NUMBER OF TREES TO BE REPLACED SHALL BE PERFORMED. THIS DETERMINATION SHALL BE BASED UPON THE AREA OF IMPACT AND THE CATEGORY OF REPLACEMENT TREES SELECTED BY THE APPLICANT. THE REPLACEMENT AT TREE MATURITY SHALL AT LEAST EQUAL THE CANOPY REMOVED. THE FOLLOWING TABLE SHALL BE USED TO DETERMINE THE NUMBER OF REQUIRED REPLACEMENT TREES.

**1.00 GENERAL NOTES:**

A. THE LOCATIONS OF ALL TREES PROPOSED FOR RELOCATION SHALL BE COORDINATED WITH CITY OF COCONUT CREEK DIVISION OF PARKS AND NATURAL RESOURCES. 954.973.6780.

**1.01 ROOT PRUNING, WATERING & BEFORE TRANSPLANTING:**

A. TREE RELOCATION, ROOT PRUNING AND TRIMMING, SHALL BE PERFORMED UNDER THE SUPERVISION OF A CERTIFIED & LICENSED ARBORIST.

B. ROOT PRUNE TREES A MINIMUM OF EIGHT (8) WEEKS PRIOR TO MOVING THEM. PRIOR TO ROOT PRUNING, THOROUGHLY WATER THE ROOT ZONE WITH AT LEAST 2 TO 3 INCHES OF WATER, 2 TO 3 DAYS PRIOR TO ROOT PRUNING. IF THE TREE HAS A DORMANT PERIOD, THEY SHOULD NOT BE TRANSPLANTED DURING THAT TIME. SEE BELOW FOR RELOCATION TIMELINE.

- CROWN PRUNING FOR STRUCTURAL DEFICIENCIES AND CLEARANCE ISSUES FOR THE ROUTE TAKEN TO THE RELOCATION AREA.
- SPRAY A PHOTOSYNTHETIC HERBICIDE OVER ANY EXISTING PLANT MATERIAL OR GRASS WITHIN THE LIMITS OF ROOT PRUNING.
- PROVIDE TEMPORARY IRRIGATION FOR EACH TREE UNTIL RELOCATION.
- ROOT PRUNE 100% OF THE ROOT SYSTEM OF EACH TREE.
- BACKFILL TRENCH WITH PLANTING SOIL.
- FERTILIZE WITHIN THE ROOT ZONE.
- PREPARE THE RELOCATION AREA:
  - EXCAVATE AND LOCATE THE BASE OF EACH TREE. PROVIDE IRRIGATION TO THE CROWN OF EACH TREE ON A SEPARATE ZONE.
  - RELOCATE THE TREES.

C. ROOT PRUNING SHALL BE ACCOMPLISHED BY DIGGING A TRENCH TWO-THIRDS (2/3) OF THE WAY AROUND THE TREE AT A MINIMUM OF 24" DEEP. ROOT PRUNE ONLY WITH A MECHANICAL ROOT-PRUNING SAW OR A TRENCHER WITH A MAXIMUM TRENCH WIDTH OF 8". THIS TRENCH SHALL FORM A 6" DIAMETER ROOTBALL. ALL EXPOSED ROOTS SHALL BE CUT OFF SMOOTHLY, WITH SHARP INSTRUMENTS. BACKFILL TRENCHES WITH SOIL CONSISTING OF 30% SILICA SAND AND 70% MUCK. WATER THEM THOROUGHLY AFTER ROOT PRUNING, AND ONCE WEEKLY DURING THE ROOT REGENERATION PERIOD, WITH A SOLUBLE FERTILIZER THAT HAS A 20-20-20 ANALYSIS AT MANUFACTURER'S RECOMMENDED RATE.

**1.02 TOP PRUNING AND THINNING:**

A. THE AMOUNT OF GENERAL PRUNING AND THINNING SHALL BE LIMITED TO THE MINIMUM NECESSARY TO REMOVE DEAD OR INJURED TWIGS OR BRANCHES AS A RESULT OF TRANSPLANTING OPERATIONS. PRUNING AND THINNING SHALL BE DONE IN SUCH A MANNER AS NOT TO CHANGE THE NATURAL HABIT OR SHAPE OF A PLANT. THE PROJECT LANDSCAPE ARCHITECT SHALL BE CONTACTED PRIOR TO PERFORMING ANY MAJOR PRUNING OR THINNING.

B. ALL CROWN PRUNING SHALL BE DONE IN ACCORDANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE A-300 STANDARDS OR ACCORDANCE WITH THE STANDARDS IN "Arboriculture Second Edition" by Richard W. Harris, CURRENT EDITION.

**1.03 BRACING AND GUYING OF TREES AFTER ROOT PRUNING:**

A. BRACING AND GUYING SHALL BE PROVIDED TO ASSURE THE TREES' STABILITY DURING THE ROOT REGENERATION PERIOD; AS PER THE APPLICABLE DETAIL.

**1.04 BALLING AND BURLAPPING:**

A. PLANT MATERIAL, WHICH IS IN A SOIL OF A LOOSE TEXTURE, WHICH DOES NOT READILY ADHERE TO THE ROOT SYSTEM, ESPECIALLY IN THE CASE OF LARGE PLANTS OR TREES, SHALL HAVE THE ROOTBALL WRAPPED IN BURLAP AND THEN WIRE, UNLESS OTHERWISE DIRECTED BY THE PROJECT LANDSCAPE ARCHITECT.

**1.05 TRANSPLANTING PLANT MATERIAL:**

A. MOVEMENT OF PLANTS ON PUBLIC R.O.W.'S SHALL COMPLY WITH ALL ORDINANCES, CODES AND SAFETY REQUIREMENTS, ETC.

B. TRANSPORT MATERIALS ON VEHICLES LARGE ENOUGH TO ALLOW PLANTS TO NOT BE CROWDED AND DAMAGED. PLANTS SHALL BE COVERED TO PREVENT WIND DAMAGE DURING TRANSIT.

C. PROTECT PLANT MATERIAL DURING TRANSPORTING TO PREVENT DAMAGE TO THE ROOT SYSTEM AND DESICCATION OF LEAVES. TREES SHALL BE PROTECTED BY TYING IN THE BRANCHES AND COVERING ALL EXPOSED BRANCHES AS NECESSARY. DO NOT BEND OR BIND-THE PLANT MATERIAL IN SUCH A MANNER AS TO DAMAGE BARK, BREAK BRANCHES OR ALTER THE NATURAL SHAPE.

D. THE CONTRACTOR SHALL EXERCISE CARE IN HANDLING, LOADING, UNLOADING, STORING, AND TRANSPORTING MATERIAL TO PREVENT DAMAGE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR PROTECTION AND SAFEKEEPING OF MATERIALS STORED.

E. TRANSPLANTING MUST BE DONE WITHIN 24 HOURS AFTER BEING DUG. STORE PLANTS IN SHADE AND KEEP THE ROOT BALL AND CANOPY MOIST.

**1.06 EXCAVATION:**

A. EXCAVATION OF HOLES: PLANT HOLES SHALL BE ROUGHLY CYLINDRICAL IN SHAPE WITH SIDES APPROXIMATELY VERTICAL. THE DEPTH OF THE HOLE SHALL BE EQUAL TO THE ROOTBALL DEPTH PLUS 12" UNLESS FURTHER DEPTH IS REQUIRED TO PROVIDE ADEQUATE DRAINAGE. THE DIAMETER OF THE HOLE SHALL BE A MINIMUM OF 24" LARGER THAN THE ROOTBALL DIAMETER.

B. SETTING OF PLANTS: PLANT MATERIAL SHALL BE PLANTED AT THEIR NATURAL AND ORIGINAL PLANTING LEVEL PRIOR TO THEIR RELOCATION AND PLACEMENT ON THE NEW SITE. WHEN LOWERED INTO THE HOLE, THE PLANTS SHALL REST ON THE PREPARED HOLE BOTTOM SUCH THAT THE SURFACE ROOTS AT THE TOP OF THE ROOTBALL ARE LEVEL OR SLIGHTLY ABOVE LEVEL OF THE TOP OF THE HOLE. CREATE A SAUCER, APPROXIMATELY 6" DEEP TO HELP HOLD WATER. THE PLANTS SHALL BE SET STRAIGHT OR PLUMB OR NORMAL TO THE RELATIONSHIP OR THEIR GROWTH PRIOR TO TRANSPLANTING. THE PROJECT LANDSCAPE ARCHITECT OR REPRESENTATIVE RESERVES THE RIGHT TO REALIGN ANY PLANT MATERIAL AFTER IT HAS BEEN SET, WITHOUT ADDITIONAL COST.

C. BACKFILLING:
 

- USE PLANTING SOIL FOR TREE INSTALLATION CONSISTING OF 80/20 MIX OF GENERAL PURPOSE PLANTING SOIL TO SAND. PALMS RECEIVE 30/70 GENERAL PURPOSE PLANTING SOIL TO SAND MIX.
- BACKFILL THE BOTTOM TWO-THIRDS OF THE PLANTING HOLE AND FIRMLY TAMP AND SETTLE BY WATERING AS BACKFILLING PROGRESSES. AFTER HAVING TAMPED AND SETTLED THE BOTTOM TWO-THIRDS OF THE HOLE, THOROUGHLY PUDDLE WITH WATER AND FILL REMAINING ONE-THIRD OF THE HOLE WITH PLANTING SOIL, TAMPING AND WATERING TO ELIMINATE AIR POCKETS.

**1.07 WATERING TRANSPLANTED TREES:**

A. ROOTBALL WATERING: MAINTAIN A SOIL MOISTURE IN THE ROOT ZONE AT AN OPTIMUM LEVEL FOR HEALTHY, DEEP WATER THE ENTIRE ROOTBALL AREA AT A MINIMUM ACCORDING TO THE FOLLOWING SCHEDULE:

WHEN	FREQUENCY	AMOUNT
1ST MONTH	ONCE DAILY	3" PER TREE
2ND MONTH	EVERY OTHER DAY	2" PER TREE
FOLLOWING 2 MONTHS	TWICE A WEEK	1" PER TREE
LAST 8 MONTHS	ONCE PER WEEK	1" PER TREE

B. IF THERE IS NO SOURCE FOR WATER AVAILABLE AT THE PROJECT, SUCH AS A HOSE BIB(S) OR FIRE HYDRANT(S) IF APPROVED FOR USE, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING WATER BY MEANS OF A TRUCK OR TANK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PAY ANY FEES FOR WATER USE.

C. THE CONTRACTOR SHALL ADHERE TO THE SOUTH FLORIDA WATER MANAGEMENT DISTRICTS WATER RESTRICTIONS CURRENT AT THE TIME OF RELOCATION ACTIVITIES.

**1.08 MULCHING OF PLANT SAUCER:**

A. SPREAD 3" MINIMUM DEPTH THICK LAYER OF SHREDDED EUCALYPTUS OR MELALEUCA GRADE "B" MULCH OR EQUAL OVER ENTIRE AREA OF THE ROOTBALL.

**1.09 APPLICATION OF FERTILIZER:**

A. AT TIME OF WATERING ROOT-PRUNED TREES PRIOR TO TRANSPLANTING, DRENCH ROOTBALL ONCE PER WEEK DURING THE COURSE OF WATERING WITH A SOLUBLE FERTILIZER THAT HAS A 20-20-20 ANALYSIS AT MANUFACTURER'S RECOMMENDED RATE.

B. RELOCATED TREES SHALL NOT BE FERTILIZED AT TIME OF PLANTING, BUT SHALL BE WATERED SUFFICIENTLY UNTIL THE TREE GROWTH IS RE-ESTABLISHED. THREE (3) WEEKS AFTER TRANSPLANTING, AND AFTER MULCHING, APPLY ON THE SURFACE, EVENLY SPREAD OVER THE AREA OF THE ENTIRE ROOTBALL, FEC (FLORIDA EAST COAST FERTILIZER CO.) #5231 (12-4-8) OR EQUAL AT THE RATE OF 0.5KG PER 1" OF TRUNK DIAMETER.

**1.10 STAKING TREES:**

A. STAKE ALL TREES AND PALMS AT THE NEW SITE WITH NEW TIMBERS WITH A MINIMUM 2" X 4" DIMENSION AS PER THE DETAILS ENCLOSED, OR IN THE CASE OF OBSTACLE, IN ANOTHER MANNER WHICH WILL SUPPORT THE TREES.

**1.11 CLEAN-UP:**

A. DISPOSAL OF WASTE: ALL WASTE AND OTHER OBJECTIONABLE MATERIAL CREATED THROUGH PLANTING OPERATIONS AND LANDSCAPE CONSTRUCTION SHALL BE REMOVED COMPLETELY ON A DAILY BASIS FROM THE JOB OR AS DIRECTED BY THE PROJECT ENGINEER. ANY PAVED AREAS, INCLUDING CURBS AND SIDEWALKS THAT HAVE BEEN STAINED WITH SOIL, SOD WASTE, FERTILIZER OR OTHER WASTE SHALL BE THOROUGHLY SWEEPED.

B. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF STAKES AND BATTENS AND UNLIE ANY TIED-UP CANOPIES WHEN IT IS DETERMINED BY THE PROJECT ENGINEER THAT SUFFICIENT TIME HAS ELAPSED FOR THE PLANTS TO ROOT STABILIZE, AND/OR AT THE END OF THE ONE YEAR GUARANTEE PERIOD. THIS SHALL BE DONE EVEN IF THE PROJECT HAS BEEN COMPLETED AND GIVEN FINAL ACCEPTANCE. THE CONTRACTOR SHALL UNLIE CANOPIES IMMEDIATELY AFTER INSTALLATION AND REMOVE STAKES AFTER ONE YEAR.

C. BACKFILLING OF HOLE LEFT BY RELOCATED TREE SHALL BE DONE IMMEDIATELY AFTER TREE REMOVAL OR SUITABLE BARRICADES SHALL BE PROVIDED TO PREVENT INJURIES UNTIL HOLES ARE FILLED. THE CONTRACTOR SHALL BACKFILL HOLES WITH CLEAN FILL AND TOP SOIL TO A LEVEL FLUSH WITH ADJACENT GRADE.

**1.12 GUARANTEE AND REPLACEMENT:**

A. ALL RELOCATED PLANT MATERIAL SHALL BE GUARANTEED FOR ONE (1) YEAR FROM TIME OF RELOCATION.

B. ALL TREES THAT LEAN OR ARE BLOWN OVER, CAUSED BY WINDS LESS THAN 75 MPH AS DEFINED BY THE MIAMI HURRICANE CENTER, WILL BE RE-SET AND BRACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.

**1.13 SCHEDULE AND APPROVALS:**

A. THE LANDSCAPE CONTRACTOR SHALL SUBMIT A WRITTEN SCHEDULE OF OPERATIONS AND WRITTEN REQUESTS FOR APPROVALS IN ACCORDANCE WITH PROJECT SPECIFICATIONS OR AS OTHERWISE AGREED UPON WITH THE OWNER.

**1.14 FINAL ACCEPTANCE:**

A. OWNER SHALL REVIEW PROJECT UPON NOTIFICATION BY CONTRACTOR. OWNER SHALL ISSUE A FINAL ACCEPTANCE AFTER ALL CONTRACT ITEMS AND OBLIGATIONS ARE SATISFACTORY.

THE CITY OF COCONUT CREEK WILL PERFORM ROOT PRUNING TO THE TREES PROPOSED FOR RELOCATION PRIOR TO CONSTRUCTION. ROOT PRUNING SHALL BE IN ACCORDANCE WITH THE NOTES AND DETAILS ON SHEET L1.01. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING THE TREES AS SPECIFIED ON THE DRAWINGS.

NO. REVISION DATE

Site Plan Submittal 2-7-14

DRG Comments 3-17-14

50% CD SET 4-10-14

DRG Comments #2 4-17-14

CONSULTANT:

**CHEN-MOORE**

ASSOCIATES

CERTIFICATES OF AUTHORIZATION  
88004573 LC20000425

**PROPOSED NEW FIRE STATION 50**  
**NW 45 AVE.**  
**COCONUT CREEK PARKWAY**  
**COCONUT CREEK, FLORIDA**

**CPZ ARCHITECTS, INC.**

4516 WEST BROWARD BOULEVARD  
FORT LAUDERDALE, FLORIDA 33309  
PHONE: (954) 937-0359  
WWW.CPZARCHITECTS.COM

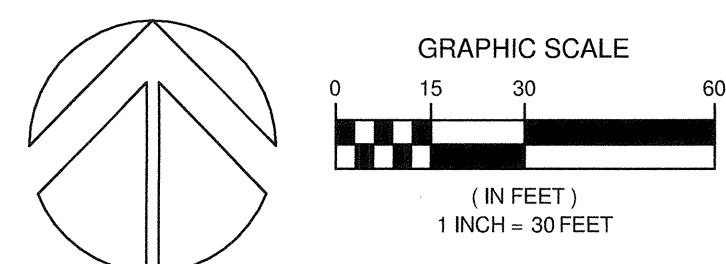
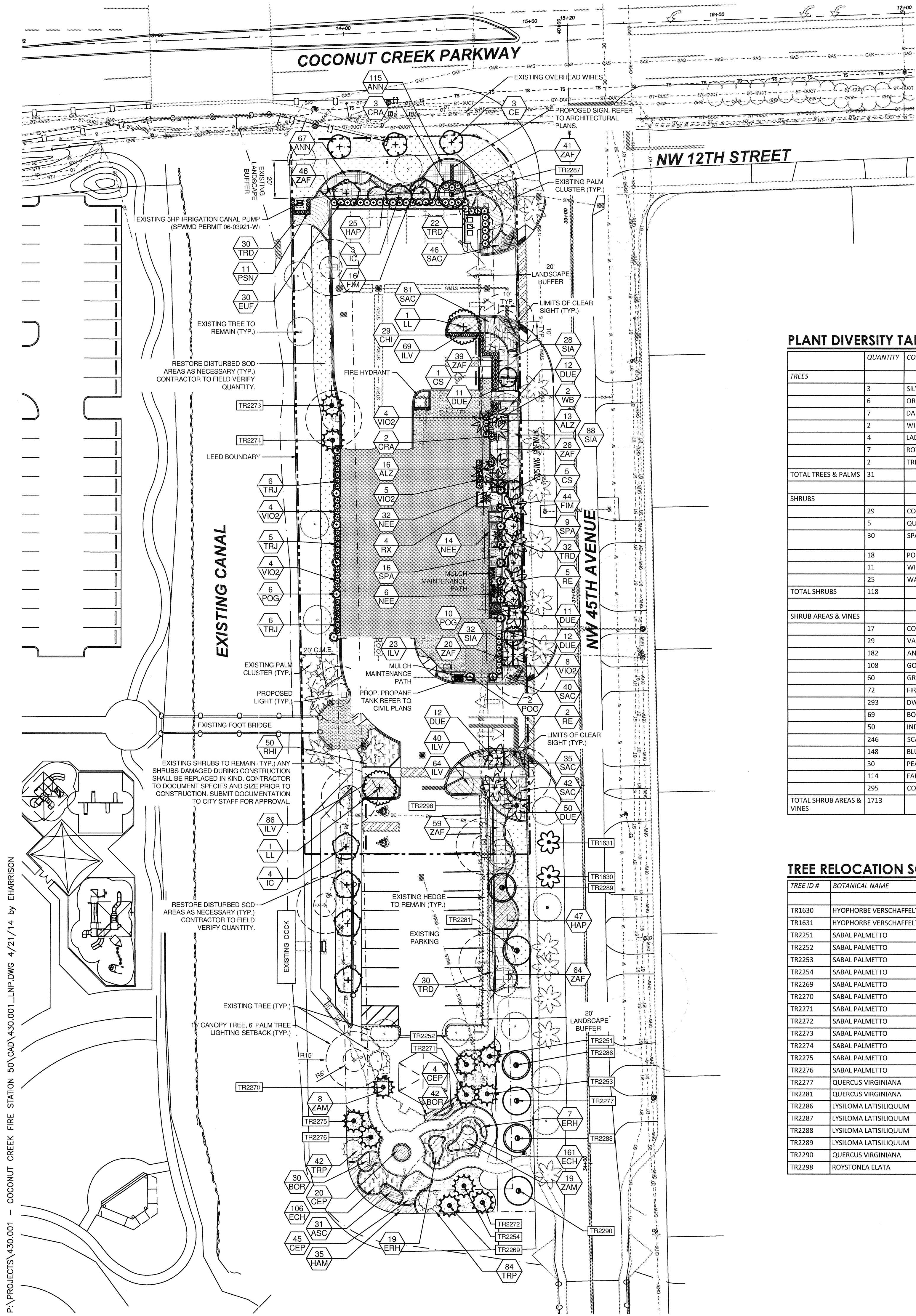
DRAWING TITLE:  
TREE DISPOSITION PLAN

DRAWN EDH  
CHECKED MSB  
DATE 4-23-14  
SCALE AS NOTED  
PROJECT NO. 1220B  
SHEET:

**L1.01**

NOT FOR CONSTRUCTION

CRS: SUBAL BELMONT, RLA  
REGISTRATION NO. 15-004941  
STATE OF FLORIDA



**PLANT SCHEDULE**

TREES	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT.	SIZE	NATIVE	REMARKS	
+	CE	3	Silver Button Wood	Conocarpus erectus sericeus	8.8 B	12' - 14' HT, 6' SPRD, 3" CAL	Yes	Full To Base	
+	CS	6	Orange Geiger Tree	Cardia sebestena	8.8 B	12' O.A.H., 2.5' CAL.	Yes		
+	IC	7	Dahoon Holly	Ilex cassine	8.8 B	8' HT, 3' SPRD, 1-1/2" DBH	Yes	Full To Base	
+	LL	2	Wild Tamarind	Lytiloma latiliquum	8.8 B	14' - 16' HT, 4" CAL	Yes		
+	RX	3	Lady Palm	Rhapis excelsa	7 gal	6" HT	No		
+	RE	7	Florida Royal Palm	Roystonea elata	8.8 B	14' CT	Yes		
+	WB	2	Foxtail Palm	Wodyetia bifurcata	8.8 B	8' - 10" GW	No	Triple Trunk	
RELOCATED TREES	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT.	SIZE	NATIVE	REMARKS	
+	HY-R	2	Spindle Palm	Hyophorbe verschaffeltii	Relocated	See Tree Disposition Plan	No		
+	LL-R	4	Wild Tamarind	Lytiloma latiliquum	Relocated	See Tree Disposition Plan	Yes		
+	QV-R	3	Live Oak	Quercus virginiana	Relocated	See Tree Disposition Plan	Yes		
+	RE-R	1	Florida Royal Palm	Roystonea elata	Relocated	See Tree Disposition Plan	Yes		
+	SP-R	12	Cabbage Palmetto	Sabal palmetto	Relocated	See Tree Disposition Plan	Yes		
SHRUBS	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT.	SIZE	NATIVE	REMARKS	
+	CHI	29	Red Tip Cocoplum	Chrysobalanus icaco 'Red Tip'	3 gal	24" HT, 24" SPRD	Yes		
+	CRA	5	'Queen Emma' Citrum	Citrum augustum 'Queen Emma'	7 gal	3' HT, 3' SPRD	No		
+	EUF	30	Spanish Stopper	Eugenia foetida	7 gal	4" OAH	Yes		
+	POG	18	Podocarpus	Podocarpus gracilar 'Column'	7 gal	5" OAH	No		
+	PSN	11	Wild Coffee	Psychotria nervosa	3 gal	24x24"	Yes		
+	VIO2	24	Walter's Viburnum	Viburnum obovatum	3 gal	24x24"	Yes		
VINES/ESPALIER	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT.	SIZE	NATIVE	REMARKS	
+	TRJ	17	Confederate Jasmine	Tracheloparmum jasminoides 'Confederate'	3 gal	24x24"	No		
SHRUB AREAS	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT.	SIZE	NATIVE	SPACING	REMARKS
+	ALZ	29	Variegated Shell Ginger	Alpinia zerumbet 'Variegata'	3 gal	18x18"	No	36" o.c.	
+	ANN	176	Species Varies	Annua	1 gal	10x10"	No	18" o.c.	
+	DUE	102	Gold Mound Duranta	Duranta erecta 'Gold Mound'	3 gal	18x18"	Yes	30" o.c.	
+	FIM	58	Green Island Ficus	Ficus microcarpa 'Green Island'	3 gal	18" HT, 18" SPRD	No	30" o.c.	
+	HAP	72	Fire Bush	Hamelia patens	3 gal	24" HT, 24" SPRD	Yes	30" o.c.	
+	ILV	282	Dwarf Yaupon Holly	Ilex vomitoria	3 gal	18" HT, 18" SPRD	Yes	18" o.c.	
+	NEE	50	Boston Fern	Nephrolepis exaltata	3 gal	18" HT, 18" SPRD	Yes	24" o.c.	
+	RHI	50	Indian Hawthorn	Rhaphiolepis indica	3 gal	18x18"	No	30" o.c.	
+	SAC	244	Scarlet Sage	Salvia coccinea	1 gal	9" HT, 9" SPRD	Yes	18" o.c.	
+	SIA	148	Blue-eyed Grass	Sisynchium angustifolium	1 gal	10x10"	Yes	18" o.c.	
+	SPA	25	Peace Lily	Spathiphyllum spp.	3 gal	18x18"	No	24" o.c.	
+	TRD	114	Fakahatchee Grass	Tripsacum dactyloides	3 gal	18x18"	Yes	36" o.c.	
+	ZAF	295	Coontie Palm	Zamia floridana	3 gal	18" HT, 18" SPRD	Yes	24" o.c.	
BUTTERFLY GARDEN	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT.	SIZE	NATIVE	SPACING	REMARKS
+	ASC	31	Milk Weed	Asclepias curassavica	1 gal	10x10"	Yes	18" o.c.	
+	BOR	72	Sea Owey	Banickia frutescens	1 gal	9x9"	Yes	18" o.c.	
+	CEP	69	Butterbush	Cephalanthus occidentalis	3 gal	18x18"	Yes	24" o.c.	
+	ECH	267	Purple Coneflower	Echinacea purpurea	1 gal	10x10"	Yes	18" o.c.	
+	ERH	26	Coral Bean	Erythrina hercacea	1 gal	10x10"	Yes	24" o.c.	
+	HAM	35	Dwarf Scarlet Bush	Hamelia patens 'Compacta'	3 gal	18x18"	Yes	30" o.c.	
+	TRP	198	Fakahatchee Grass	Tripsacum dactyloides	3 gal	18x18"	Yes	36" o.c.	
+	ZAM	27	Coontie Palm	Zamia floridana	3 gal	18x18"	Yes	30" o.c.	
GROUND COVERS	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT.	SIZE	NATIVE	REMARKS	
+	SOD	6,826 sf	St. Augustine Grass	Stenotaphrum secundatum 'Floratum'	SOD	FULL	No		

REFER TO SHEET L2.02 FOR LANDSCAPE REQUIREMENTS, NOTES AND LANDSCAPE SPECIFICATIONS.

**PLANT DIVERSITY TABULATIONS**

TREES	QUANTITY	COMMON NAME	% OF TOTAL (25% MAX.)	COMMENTS
+	3	SILVER BUTTONWOOD	9.68%	
+	6	ORANGE GEIGER TREE	19.35%	
+	7	DAHOON HOLLY	22.58%	
+	2	WILD TAMARIND	6.45%	
+	4	LADY PALM	12.90%	
+	7	ROYAL PALM	22.58%	
+	2	TRIPLE FOXTAIL PALM	6.45%	
TOTAL TREES & PALMS	31		100.00%	
SHRUBS	QUANTITY	COMMON NAME	% OF TOTAL (25% MAX.)	COMMENTS
+	29	COCOPLUM	24.58%	
+	5	QUEEN EMMA CRINUM	4.24%	
+	30	SPANISH STOPPER	25.42%	HEDGE IS EXEMPT FROM REQUIREMENT
+	18	PODOCARPUS	15.25%	
+	11	WILD COFFEE	9.32%	
+	25	WALTER'S VIBURNUM	21.19%	
TOTAL SHRUBS	118		100.00%	
SHRUB AREAS & VINES	QUANTITY	COMMON NAME	% OF TOTAL (25% MAX.)	COMMENTS
+	17	CONFEDERATE JASMINE	0.99%	
+	29	VARIGATED SHELL GINGER	1.69%	
+	182	ANNUALS	10.62%	
+	108	GOLD MOUND DURANTA	6.30%	
+	60	GREEN ISLAND FICUS	3.50%	
+	72	FIRE BUSH	4.20%	
+	293	DWARF YAUPON HOLLY	17.10%	
+	69	BOSTON FERN	4.03%	
+	50	INDIAN HAWTHORN	2.92%	
+	246	SCARLET SAGE	14.36%	
+	148	BLUE EYED GRASS	8.64%	
+	30	PEACE LILY	1.75%	
+	114	FAKACHATCHEE GRASS	6.65%	
+	295	COONTIE	17.22%	
TOTAL SHRUB AREAS & VINES	1713		100.00%	

**TREE RELOCATION SCHEDULE**

TREE ID #	BOTANICAL NAME	COMMON NAME
TR1630	HYOPHORBE VERSCHAFFELTII	SPINDLE PALM
TR1631	HYOPHORBE VERSCHAFFELTII	SPINDLE PALM
TR2251	SABAL PALMETTO	CABBAGE PALM
TR2252	SABAL PALMETTO	CABBAGE PALM
TR2253	SABAL PALMETTO	CABBAGE PALM
TR2254	SABAL PALMETTO	CABBAGE PALM
TR2269	SABAL PALMETTO	CABBAGE PALM
TR2270	SABAL PALMETTO	CABBAGE PALM
TR2271	SABAL PALMETTO	CABBAGE PALM
TR2272	SABAL PALMETTO	CABBAGE PALM
TR2273	SABAL PALMETTO	CABBAGE PALM
TR2274	SABAL PALMETTO	CABBAGE PALM
TR2275	SABAL PALMETTO	CABBAGE PALM
TR2276	SABAL PALMETTO	CABBAGE PALM
TR2277	QUERCUS VIRGINIANA	LIVE OAK
TR2281	QUERCUS VIRGINIANA	LIVE OAK
TR2286	LYSILOMA LATISLIQUUM	TAMARIND
TR2287	LYSILOMA LATISLIQUUM	TAMARIND
TR2288	LYSILOMA LATISLIQUUM	TAMARIND
TR2289	LYSILOMA LATISLIQUUM	TAMARIND
TR2290	QUERCUS VIRGINIANA	LIVE OAK
TR2298	ROYSTONIA ELATA	ROYAL PALM

NO. REVISION	DATE
2-7-14	Site Plan Submittal
3-17-14	DRC Comments
4-10-14	50% CD Set
4-17-14	DRC Comments #2

CONSULTANT:  
**CHEN-MOORE**  
& ASSOCIATES  
CERTIFICATES OF AUTHORIZATION  
E8000493 LC20000425

**PROPOSED NEW FIRE STATION 50  
NW 45 AVE.**  
NW 45 AVE. & COCONUT CREEK PARKWAY  
COCONUT CREEK, FLORIDA

**CPZ ARCHITECTS, INC.**  
4316 WEST BROWARD BOULEVARD  
PLANTATION, FLORIDA 33317  
PHONE (954) 952-5859 FAX (954) 337-0859  
AN E2600686 WWW.CPZARCHITECTS.COM



DRAWING TITLE:  
LANDSCAPE PLAN

DRAWN	EDH
CHECKED	MSB
DATE	4-23-14
SCALE	AS NOTED
PROJECT NO.	1220B
SHEET:	

**L2.01**





**CITY OF COCONUT CREEK STANDARD LANDSCAPE NOTES**

ALL LANDSCAPE AND SPECIFICATIONS SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS AS PROVIDED IN THE CITY OF COCONUT CREEK LAND DEVELOPMENT CODE. PLANS ARE INCOMPLETE WITHOUT WRITTEN NOTES AND SPECIFICATIONS.

- ALL PLANTING MATERIAL SHALL MEET OR EXCEED FLORIDA GRADE #1 AS SPECIFIED IN GRADES AND STANDARDS FOR NURSERY PLANTS, CURRENT EDITION, TREES SHALL NOT BE TIPPED, TOPPED, OR SHAPED PRIOR TO INSTALLATION.
- LANDSCAPE SHALL BE PLACED TO EDGE OF ABUTTING STREETS, CANALS, LAKES OR OTHER LANDS.
- ALL MECHANICAL EQUIPMENT, AIR CONDITIONING, IRRIGATION PUMP STATIONS AND EQUIPMENT, FPL TRANSFORMERS, POOL PUMPS, ETC., MUST BE SCREENED ON THREE (3) SIDES BY LANDSCAPE SHRUBS.
  - NOTE:** THE QUANTITY OF SCREENING SHRUBS IS IN ADDITION TO THE REQUIRED NUMBER OF SHRUBS AS PROVIDED IN THE CODE CALCULATION TABLE. ALL SCREENING SHRUBS SHALL BE PLANTED FOR PROPER OPERATION OF EQUIPMENT BEING SCREENED AND/OR PER THE REQUIREMENTS OF THE UTILITY AS NECESSARY. ALL HEDGE MATERIAL REQUIRED FOR SCREENING PURPOSES SHALL BE PLANTED WITH BRANCHES TOUCHING, ADJUST ON-CENTER SPACING AS NECESSARY AND/OR PROVIDE ADDITIONAL PLANTS TO PROVIDE AN ADEQUATE SCREEN.
- SIGHT DISTANCE CONCERNS MUST BE MAINTAINED FOR CLEAR SIGHT VISIBILITY FROM THIRTY (30) INCHES TO SEVENTY-TWO INCHES, TREE TRUNKS EXCLUDED. MEASUREMENT SHALL BE MADE FROM TOP OF ROOT BALL PLANTED AT PROPER ELEVATION.
- GUYING/STAKING PRACTICES SHALL NOT PERMIT NAILS, SCREWS, WIRES, ETC., TO PENETRATE OUTER SURFACES OF TREES, PALMS OR OTHER PLANT MATERIAL. TREES, PALMS AND PLANT MATERIAL REJECTED DUE TO THIS PRACTICE SHALL BE REPLACED WITH THE INSPECTOR ON SITE.
- BURLAP MATERIAL, WIRE CAGES, PLASTIC/CANVAS STRAPS, ETC., MUST BE CUT AND REMOVED FOR THE TOP ONE-HALF (1/2) DEPTH OF THE ROOT BALL. TREES AND SHRUBS GROWN IN GROW BAGS OR GROW BAG TYPE MATERIAL MUST HAVE SUCH MATERIAL REMOVED ENTIRELY PRIOR TO PLANTING THE TREE OR SHRUB.
- ALL PLANT MATERIAL SHALL BE FREE OF PESTS, INSECTS, DISEASE, WEEDS, ETC.
- ALL REQUIRED LANDSCAPE MATERIAL SHALL BE INSTALLED USING A PLANTING SOIL MIX COMPRISED OF A TYPE APPROPRIATE TO THE INDIVIDUAL PROPOSED PLANT MATERIAL AND THE NATIVE SOIL FOUND ON THE SITE.
- ALL PLANT MATERIAL SHALL BE PLANTED AT THE PROPER DEPTH, AS ORIGINALLY GROWN AND/OR SO THE TOP OF THE ROOT BALL IS FLUSH OR SLIGHTLY ABOVE FINISHED GRADE IMMEDIATELY AFTER PLANTING. ALL TREES SHOULD PROVIDE TRUNK TAPER WHEN PROPERLY PLANTED AT THE CORRECT PLANTING DEPTH.
- ALL PLANT MATERIAL SHALL BE WATERED IN AT TIME OF PLANTING TO ELIMINATE AIR POCKETS IN THE ROOT ZONE AREA.
- COLOR-TREATED OR DYED MULCH WILL NOT BE ACCEPTED.
- UPON COMPLETION OF WORK, THE SITE SHALL BE CLEARED OF ALL DEBRIS, SUPERFLUOUS MATERIALS, AND EQUIPMENT CAUSED BY THIS PERMIT TO THE SATISFACTION OF THE INSPECTOR.
- REFER TO COCONUT CREEK FIRE EQUIPMENT CLEAR ZONE DIAGRAM TO MAINTAIN A SAFE ZONE FRONTING FIRE HYDRANTS.
- DO NOT PLANT TREES, SHRUBS OR GROUNDCOVER WITHIN ELECTRIC METER CLEAR ZONE, PROVIDE A SAFE ZONE AS DESCRIBED BY THE ELECTRICAL INSPECTOR.
- ALL LANDSCAPED AREAS SHALL BE PROVIDED WITH AN UNDERGROUND FULLY AUTOMATIC IRRIGATION SYSTEM USING POP-UP SPRINKLERS. SYSTEM SHALL PROVIDE 100% COVERAGE WITH A 50% OVERLAP (MINIMUM) USING RUST FREE WATER, EXCEPT PRESERVED AREAS REMAINING IN NATURAL STATE, A RAIN SENSOR DEVICE OR SWITCH SHALL BE INSTALLED THAT WILL OVERRIDE THE IRRIGATION SYSTEM WHEN ADEQUATE RAINFALL HAS OCCURRED. WATER SHALL NOT BE DIRECTED AND/OR PROVIDED ONTO IMPERVIOUS SURFACES AND/OR BE DESIGNED OR INSTALLED TO THROW WATER OVER AN IMPERVIOUS SURFACE SUCH AS A SIDEWALK, ETC. HOURS OF OPERATION FOR ALL IRRIGATION SYSTEMS SHALL BE LIMITED TO 5:00 P.M. TO 8:00 A.M. ONLY OR AS MAY BE FURTHER RESTRICTED BY SOUTH FLORIDA WATER MANAGEMENT DISTRICT OR OTHER JURISDICTIONAL AGENCY.
- IRRIGATION PERMITS AND PLANS SHALL BE SUBMITTED FOR APPROVAL AT TIME OF BUILDING PERMITS.
- ALL NON-SINGLE FAMILY OR DUPLEX IRRIGATION SYSTEMS OTHER THAN CITY WATER SYSTEMS SHALL REQUIRE A SOUTH FLORIDA WATER MANAGEMENT DISTRICT WATER USE PERMIT PRIOR TO ISSUANCE OF AN IRRIGATION PERMIT AND INSTALLATION OF THE IRRIGATION SYSTEM AS REQUIRED.
- ALL SITE AMENITIES TO INCLUDE SITE STREET LIGHTS, LANDSCAPE COMMON OPEN SPACE, IRRIGATION COMMON OPEN SPACE, BUFFERS, BERMS, LANDSCAPE ENTRY FEATURES, ETC. LEADING UP TO AND INCLUDING THE MODEL CENTER AND/OR FIRST CERTIFICATE OF OCCUPANCY MUST BE COMPLETED AND FUNCTIONAL PRIOR TO ISSUANCE OF THE FIRST REQUESTED CERTIFICATE OF OCCUPANCY.
- THE HEIGHT OF ALL REQUIRED, DESIGNED AND INSTALLED BERMS SHALL BE FROM THE HIGHEST ADJACENT POINT WHETHER IT IS THE SIDEWALK, PARKING AREA, VEHICULAR USE AREA, SURROUNDING GROUND, ETC. WHERE A BERM ABUTS A SIDEWALK, THERE SHALL BE A ONE (1) FOOT LEVEL SOD AREA ADJACENT TO THE SIDEWALK PRIOR TO THE START OF INCLINE FOR THE BERM.
- AN INSPECTION IS REQUIRED PRIOR TO THE BACKFILLING OF TREES/PALMS IN ALL PARKING MEDIANS AND ISLANDS.

**GENERAL NOTES**

- THE LOCATIONS OF PLANTS AS SHOWN ON THESE PLANS, ARE APPROXIMATE. THE FINAL LOCATIONS MAY BE ADJUSTED TO ACCOMMODATE UNFORESEEN FIELD CONDITIONS, TO COMPLY WITH SAFETY SETBACKS, OR AS OTHERWISE DIRECTED/APPROVED BY THE LANDSCAPE ARCHITECT. FLAG PROPOSED TREE AND PLANT BED LOCATIONS TO THE EXTENT REQUESTED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING FOR APPROVAL.
- VERIFY ABOVE AND BELOW GROUND UTILITIES PRIOR TO COMMENCING WORK IN THE PROJECT AREA. IF UTILITY CONFLICTS ARE DISCOVERED, NOTIFY THE ENGINEER AND LANDSCAPE ARCHITECT IMMEDIATELY. IN THE CASE OF UTILITY CONFLICTS, THE LANDSCAPE WILL BE ADJUSTED, DO NOT ADJUST THE UTILITY. NOTIFY UTILITY OWNERS AND SUNSHINE STATE ONE CALL OF FLORIDA, INC (811) TWO FULL WORKING DAYS IN PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- THE IRRIGATION SYSTEM MAY NOT BE COMPLETELY OPERATIONAL, OR MAY NOT PROVIDE ADEQUATE WATER TO ESTABLISH NEW PLANTINGS. THEREFORE HAND WATERING IS REQUIRED, UNTIL THE IRRIGATION IS FULL OPERATIONAL. CONTRACTOR SHALL DETERMINE WATERING SCHEDULE AND RATE TO ENSURE THE HEALTHY ESTABLISHMENT OF PLANTS. PLANTS THAT DIE OR EXCESSIVELY SHOCK DUE TO LACK OF WATER MUST BE REPLACED, AT NO COST TO THE OWNER. IF A WATER TRUCK IS UTILIZED DURING THE ESTABLISHMENT PERIOD, THE PRESSURE FROM THE WATERING TRUCK SHALL BE ADJUSTED SO THAT WATER PRESSURE IS NOT APPLIED IN A MANNER WHICH WOULD DAMAGE PLANTS, SOIL SAUCER RING OR MULCH AROUND EACH PLANT. REPAIR OR REPLACE PLANTS OR OTHER SURROUNDING ITEMS WHICH ARE DAMAGED EITHER BY WATER PRESSURE OR THE WATER TRUCK.
- ALL PLANTS WILL RECEIVE A PREMIXED, DRY GRANULAR FUNGI INOCULATE COMPOUND CONSISTING OF ENDO AND ECTOMYCORRHIZAL FUNGI, BENEFICIAL BACTERIA TRICHODERMA, ORGANIC MICROBIAL NUTRIENTS AND A HORTICULTURAL GRADE GEL THAT IS MIXED IN THE BACKFILL AT PLANTING. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR APPLICATION METHODS AND RATES. PROVIDE SATISFACTORY EVIDENCE TO THE LANDSCAPE ARCHITECT THAT THESE SOIL AMENDMENTS HAVE BEEN PURCHASED AND UTILIZED PRIOR TO PROCEEDING WITH PLANT INSTALLATION.
- ENSURE THAT PAVEMENT, STONES, ROAD BASE OR OTHER UNSUITABLE MATERIAL OVER 1/2" IS REMOVED FROM PLANTING AREAS. THIS PROJECT CONTAINS BOTH PROPOSED AND EXISTING PLANTING CONDITIONS. ALL AREAS TO RECEIVE NEW OR RELOCATED PLANT MATERIAL AS SHOWN ON THE LANDSCAPE PLAN SHALL BE EXCAVATED OF UNSUITABLE PLANTING MATERIAL, MINIMUM DEPTH OF 30" OR TO NATIVE SOIL, WHICHEVER IS GREATER. IMPORT AND FILL PLANTING AREAS WITH PLANTING SOIL AS SPECIFIED ON PLANS.

**LANDSCAPE SPECIFICATIONS**

- PLANT MATERIAL: ALL PLANT MATERIAL SHALL BE FLORIDA #1 OR BETTER AS ESTABLISHED BY "GRADES AND STANDARDS FOR NURSERY PLANTS" OF THE STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE.
- ALL TREES, SHRUBS AND GROUNDCOVERS SHALL BE OF THE SIZES AS SPECIFIED IN THE PLANT LIST.
- QUANTITIES LISTED ON THE PLANT LIST ARE FOR ESTIMATING PURPOSES. CONTRACTOR SHALL VERIFY ALL QUANTITIES, MULCH, TOPSOIL, FERTILIZER, ETC. SHALL BE INCLUDED IN THE UNIT COST OF THE PLANTS.
- WHERE THERE IS A DISCREPANCY EITHER IN QUANTITIES, PLANT NAMES, SIZES OR SPECIFICATIONS BETWEEN THE PLAN OR PLANT LIST, THE PLAN TAKES PRECEDENCE.
- THE PLANTING PLAN SHALL BE INSTALLED IN COMPLIANCE WITH ALL EXISTING CODES AND APPLICABLE DEED RESTRICTIONS.
- CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL UTILITY LOCATIONS AND INSTALLING FACILITIES SO AS TO NOT CONFLICT. ALL DAMAGE TO EXISTING UTILITIES OR IMPROVEMENTS CAUSED BY CONTRACTOR SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR TO NOTIFY "SUNSHINE STATE ONE CALL OF FLORIDA, INC.," AT 1-800-432-4770 TWO FULL BUSINESS DAYS PRIOR TO DIGGING FOR UNDERGROUND UTILITY LOCATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FINAL GRADING OF ALL ASSOCIATED PLANTING AREAS.
- AFTER FINAL GRADE, AREA TO BE RAKED TO 4" DEPTH AND ALL ROCK AND FOREIGN INORGANIC MATERIALS REMOVED AND DISPOSED OF PROPERLY OFF-SITE.
- ALL PLANTING HOLES TO BE HAND DUG EXCEPT WHERE MACHINE DUG HOLES WILL NOT ADVERSELY AFFECT OR DAMAGE UTILITIES OR IMPROVEMENTS.
- NO PLUNGING OF ANY TREE OR PALM WILL BE ACCEPTED. ALL PLANTS TO BE PLANTED AT THE NURSERY GRADE OR SLIGHTLY HIGHER.
- CONTRACTOR SHALL STAKE & GUY ALL TREES AND PALMS AT TIME OF PLANTING AS PER THE APPROPRIATE DETAIL. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND/OR REPAIR OF ALL STAKING AND GUYING DURING WARRANTY PERIOD AND REMOVAL & DISPOSAL OF STAKING AFTER ESTABLISHMENT PERIOD.
- SOD: ALL AREAS NOT USED FOR BUILDINGS, VEHICULAR USE AREAS, WALKS OR PLANTING BEDS SHALL BE GRASSED. GRASSING SHALL EXTEND TO ANY ABUTTING STREET PAVEMENT EDGE AND TO THE MEAN WATERLINE OF ANY ABUTTING CANAL, LAKE OR WATERWAY. SOD WITHIN BALLFIELDS SHALL BE CYNODON DACTYLON "CELEBRATION" (CELEBRATION BERMUDA GRASS). ALL OTHER SOD AREAS SHALL BE PASPALUM NOTATUM (BAHIA GRASS).
- PLANTING SOIL: ALL TREES AND SHRUBS SHALL BE PLANTED WITH A MINIMUM OF 12" TOPSOIL AROUND AND

- BENEATH THE ROOTBALL. MINIMUM TOPSOIL SHALL BE 4" FOR SODDED GRASS AREAS.
- PLANTING SOIL TO BE A WEED-FREE MIXTURE OF 50% SAND, 40% MUCK, AND 10% CANADIAN PEAT.
- MULCH: A CONSISTENT 3" LAYER OF STERILIZED MALELEUCA, EUCALYPTUS OR FLORIMULCH GRADE 'B' OR BETTER. MULCH SHALL BE SPREAD OVER ALL PLANTING BEDS. CYPRESS OR TREATED RED MULCH SHALL NOT ACCEPTED. CONTRACTOR TO SUBMIT SAMPLE OF MULCH TO LANDSCAPE ARCHITECT FOR FINAL ACCEPTANCE.
- ALL PLANTING BEDS AND WATER BASINS FOR TREES SHALL BE COVERED WITH A 3" MINIMUM DEPTH OF MULCH.
- FERTILIZATION: 12-4-12 FERTILIZER SHALL BE APPLIED TO ALL TREES, SHRUBS AND GROUNDCOVERS. THE APPLICATION RATE SHALL BE ONE POUND OF NITROGEN PER 1,000 S.F. AND THE FERTILIZER SHALL BE BROADCAST PER MANUFACTURER'S RECOMMENDATIONS. 12-4-12 COMPLETE FERTILIZER, WITH MICOR-NUTRIENTS AND LOW PHOSPHORUS SHALL BE APPLIED TO PALMS OVER 8' IN HEIGHT AT A RATE OF 6 POUNDS PER TREE. PALMS UNDER 8' IN HEIGHT SHALL RECEIVE THE SAME FERTILIZER AT 2-5 POUNDS PER TREE.
- SUBSTITUTIONS AND CHANGES: ALL SUBSTITUTIONS AND CHANGES SHALL BE APPROVED IN WRITING PRIOR TO INSTALLATION. ANY DISCREPANCIES BETWEEN PLANS, SITE AND SPECIFICATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE LANDSCAPE ARCHITECT, THE OWNER AND GOVERNING MUNICIPALITY.
- WATERING: ALL PLANT MATERIAL SHALL BE WATERED IN AT TIME OF PLANTING IN ACCORDANCE WITH STANDARD NURSERY PRACTICES. IN ADDITION, CONTRACTOR WILL CONTINUE WATERING OF PLANT MATERIAL UNTIL SUBSTANTIAL COMPLETION AND AS NEEDED THEREAFTER FOR A PERIOD OF 3 MONTHS.
- WARRANTY: ALL NEW PLANT MATERIAL SHALL BE GUARANTEED FOR 1 YEAR FROM TIME OF FINAL ACCEPTANCE OF PROJECT. ANY PLANT MATERIAL NOT IN A HEALTHY GROWING CONDITION WILL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER WITHIN 10 DAYS OF NOTIFICATION. FOR ALL REPLACEMENT PLANT MATERIAL THE WARRANTY PERIOD SHALL BE EXTENDED AN ADDITIONAL 45 DAYS BEYOND THE ORIGINAL WARRANTY PERIOD. ALL TREES THAT LEAN OR ARE BLOWN OVER, CAUSED BY WINDS LESS THAN 75 MPH, WILL BE RE-SET AND BRACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE SUCCESSFUL BIDDER SHALL FURNISH TO THE OWNER A UNIT PRICE BREAKDOWN FOR ALL MATERIALS. THE OWNER MAY, AT ITS DISCRETION, ADD OR DELETE FROM THE MATERIALS UTILIZING THE UNIT PRICE BREAKDOWN SUBMITTED.
- NO PLANT MATERIAL WILL BE ACCEPTED SHOWING EVIDENCE OF CABLE, CHAIN MARKS, EQUIPMENT SCARS, OR OTHERWISE DAMAGED.
- PLANT MATERIAL WILL NOT BE ACCEPTED WHEN THE BALL OF EARTH SURROUNDING ITS ROOTS HAS BEEN

- CRACKED, BROKEN OR OTHERWISE DAMAGED.
- ROOT-PRUNE ALL TREES A MINIMUM OF (8) WEEKS PRIOR TO PLANTING.
- ALL PLANT MATERIAL PLANTED WITHIN THE SIGHT DISTANCE TRIANGLE AREAS SHALL PROVIDE UNOBSTRUCTED CROSS-VISIBILITY AT A HORIZONTAL LEVEL BETWEEN 30 INCHES AND 8 FEET ABOVE ADJACENT STREET GRADE.
- NO CANOPY TREES SHALL BE PLANTED WITHIN 15 FEET OF A LIGHT POLE. NO PALM SPECIES SHALL BE PLANTED WITHIN 6 FEET OF A LIGHT POLE.
- GROUND COVER PLANTINGS SHALL PROVIDE NOT LESS THAN 50 PERCENT COVERAGE IMMEDIATELY UPON PLANTING AND 100 PERCENT COVERAGE WITHIN 6 MONTHS AFTER PLANTING.
- TREE PROTECTION BARRICADES SHALL BE PROVIDED BY LANDSCAPE CONTRACTOR AROUND EXISTING TREES THAT MAY BE IMPACTED BY THE PROPOSED CONSTRUCTION. PRIOR TO ANY CONSTRUCTION A TREE PROTECTION BARRICADE INSPECTION SHALL BE CONDUCTED BY THE LANDSCAPE ARCHITECT, OWNER OR GOVERNING MUNICIPALITY. REFER TO LANDSCAPE DETAIL FOR TREE PRESERVATION BARRICADE FENCING THE PRIMARY CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE TREE PRESERVATION BARRICADES. IN ADDITION THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE CITY FORESTER PRIOR TO ANY ON-SITE WORK INCLUDING TREE RELOCATIONS/REMOVALS.
- IN ALL PEDESTRIAN AREAS, ALL TREES AND PALMS SHALL BE MAINTAINED TO ALLOW FOR CLEAR PASSAGE AT AN 8 FOOT CLEAR TRUNK.
- ALL LANDSCAPE MATERIAL SHALL BE SETBACK A MINIMUM OF 10' FROM ANY FIRE HYDRANT.
- LARGE TREES INSTALLED WITHIN 8' OF HARDSCAPE AREAS OR UTILITIES SHALL REQUIRE A ROOT BARRIER TO PROTECT ADJACENT PAVED AREAS. CONTRACTOR TO SUBMIT PRODUCT CUT SHEETS FOR APPROVAL.

**LANDSCAPE CODE REQUIREMENTS**

CODE APPLICATION	#	REQUIRED	PROVIDED	EXISTING	RELOCATED	PROPOSED	TREE VALADATION/LOCATION
<b>SEC. 13-443 (4) OPEN PLOT AREA</b>							
1 TREE PER 1000 SF	30,675	31	31	12	10	9	EX. TREES (1) FICUS, (4) OAK, 3 ROYAL PALMS, 2 * SABAL CLUSTERS - RELOCATED TREES: (1) ROYAL PALM, (1) OAK (4 SABAL PALM CLUSTERS, (4) TAMARIND - PROPOSED TREES: (7) DAHOON HOLLY, (2) TRIPLE FOX TAIL PALMS, (1) ROYAL PALM, (1) TAMARIND)
5 SHRUBS PER 1000 SF		154	154				
<b>SEC. 13-443 (6) COMMERCIAL ABUTTING RESIDENTIAL</b>							
3 TREES PER 100 LF	563	17	17	4	2	11	EX. TREES (1) OAK, (1) ORANGE GEIGER, (1) BLACK OLIVE, (1) *SABAL PALM CLUSTER - RELOCATED TREES: (2) OAKS - PROPOSED TREES: (6) ROYAL PALMS, (5) ORANGE GEIGER
CONTINUOUS HEDGE		CONTINUOUS HEDGE	CONTINUOUS HEDGE	X	X	CONTINUOUS HEDGE	
<b>SEC. 13-443 (7)(E) LANDSCAPE BETWEEN BUILDINGS AND VUA</b>							
1 TREE PER 40 LF OF GREEN SPACE	40	1	1			1	PROPOSED TREES: (1) ROYAL PALM
20 SHRUBS PER 40 LF OF GREEN SPACE		20	20	X	X		
30 GROUNDCOVERS PLANTS PER 40 LF OF GREEN SPACE		30	30	X	X		
<b>SEC. 13-443 (12) INTERIOR LANDSCAPE FOR VUA</b>							
1 TREE PER 10 PARKING SPACES	31	4	4	3		1	EX. TREES: (3) TAMARIND - PROPOSED TREES (1) TAMARIND
1 SF LANDSCAPE AREA PER 100 SF VUA	21,460	215	215	X	X		
<b>SEC. 13-443 (13) STREET TREES</b>							
COCONUT CREEK PARKWAY 1 TREE PER 40 LF OF STREET FRONTAGE	118	3	3	0	0	3	(3) ROYAL PALM TREES
NW 45TH AVENUE 1 TREE PER 40 LF OF STREET FRONTAGE	563	15	18	16	2		EX. TREES: (11) SPINDLE PALMS, (2) BLACK OLIVE, (2) CASSIA, (1) ROYAL PALM - RELOCATED TREES: (2) SPINDLE PALMS
<b>SEC. 13-443 (15) A) ROADWAY LANDSCAPE BUFFER WIDTH</b>							
COCONUT CREEK PARKWAY	70'	20'	20'				
NW 45TH AVENUE	115'	20'	VARIES**:				14.5' - 20'
<b>SEC. 13-443 (15)(C)(2) &amp; (5) ROADWAY LANDSCAPE BUFFER</b>							
COCONUT CREEK PARKWAY 1 TREE PER 2000 SF OF BUFFER	1,991	1	1	1			EX. TREES: (1) TAMARIND
40 SHRUBS PER 2000 SF OF BUFFER		40		X	X		
NW 45TH AVENUE 1 TREE PER 2000 SF OF BUFFER	11,119	6	6	6			EX. TREES: (4) OAKS, (2) ORANGE GEIGER
40 SHRUBS PER 2000 SF OF BUFFER		223	223	X	X		
<b>TOTAL TREES</b>		78	81	42	14	25	
<b>TOTAL SHRUBS</b>		682	642	X	X	0	

\* SABAL PALM CLUSTER = 3 INDIVIDUAL SABAL PALM TREES  
 \*\* APPLICANT HAS APPLIED FOR A VARIANCE WITH REGARDS TO THE REQUIRED BUFFER WIDTH ALONG NW 45TH AVENUE.

P:\PROJECTS\430.001 - COCONUT CREEK FIRE STATION 50\CAD\430.001\_LNP.DWG 4/21/14 by EHARRISON

NO. REVISION	DATE
2-7-14	Site Plan Submittal
3-17-14	DRG Comments
4-10-14	50% CD Set
4-17-14	DRG Comments #2

CONSULTANT:  
  
 CERTIFICATES OF AUTHORIZATION  
 EB0004573 LC26000425

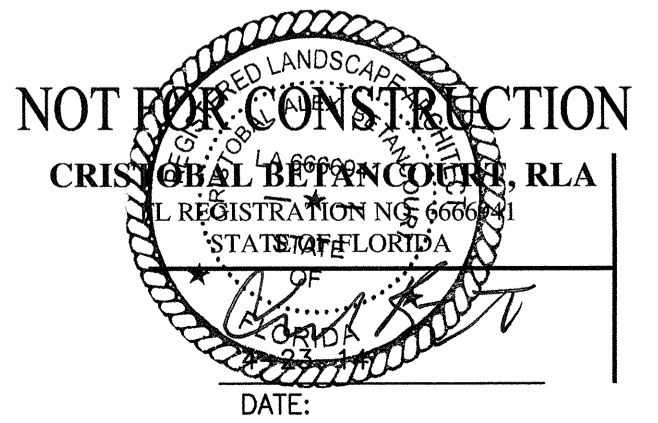
**PROPOSED NEW FIRE STATION 50**  
**NW 45 AVE.**  
 NW 45 AVE. & COCONUT CREEK PARKWAY  
 COCONUT CREEK, FLORIDA

**CPZ ARCHITECTS, INC.**  
 4316 WEST BROWARD BOULEVARD  
 PLANTATION, FLORIDA 33317  
 PH: (954) 377-0359  
 FAX: (954) 377-0359  
 WWW.CPZARCHITECTS.COM



DRAWING TITLE:  
 LANDSCAPE  
 DETAILS

DRAWN	EDH
CHECKED	MSB
DATE	4-23-14
SCALE	AS NOTED
PROJECT NO.	1220B
SHEET:	

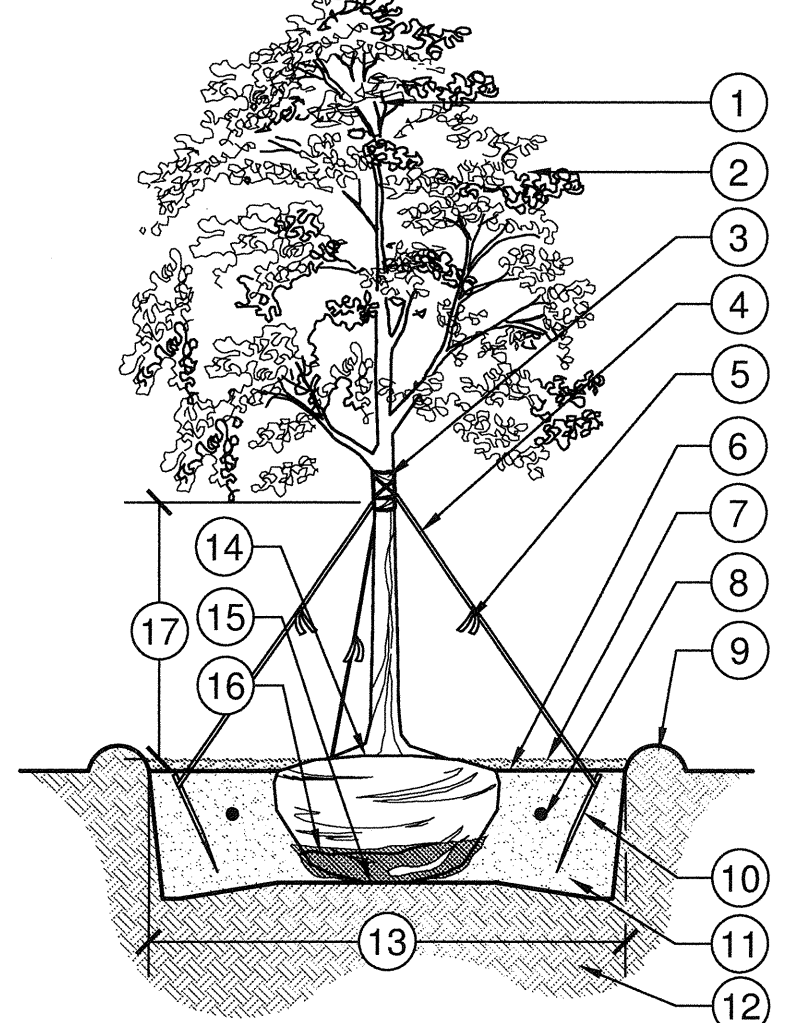


**L2.02**

**CALIPER MEASUREMENTS NOTES:**

- CALIPER MEASUREMENT IS 6" FROM TOP OF ROOT BALL FOR TREES WITH 6" CALIPER OR LESS.
- CALIPER MEASUREMENT IS 12" FROM TOP OF ROOT BALL FOR TREES WITH 6" CALIPER GREATER.

REFER TO PLANT SCHEDULE FOR INDIVIDUAL SIZES.



**1 LARGE TREE PLANTING: 2" CALIPER AND GREATER**

1/4" = 1'-0"

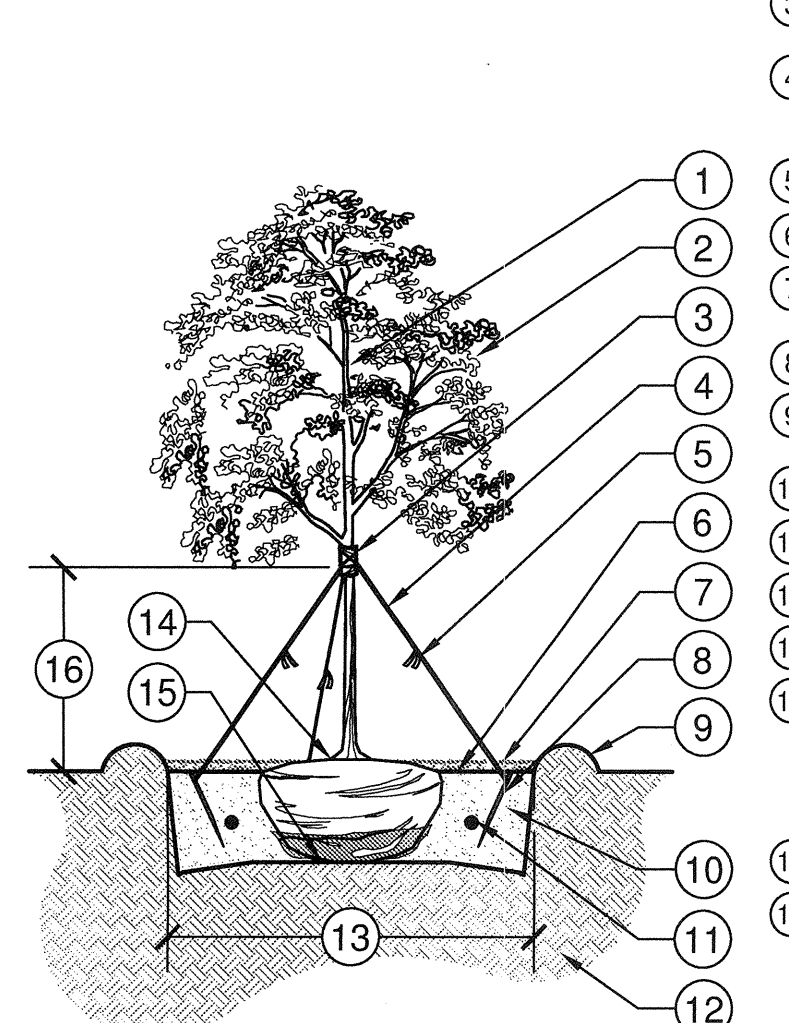
329343-17

- DO NOT PRUNE CENTRAL LEADER
- PRUNE DAMAGED OR DEAD WOOD IMMEDIATELY PRIOR TO PLANTING USING ACCEPTABLE NURSERY PRACTICES OR AS DIRECTED BY THE LANDSCAPE ARCHITECT
- PROTECT TRUNK WITH 3 LAYERS OF BURLAP MINIMUM
- 1" WIDE MIN. NYLON STRAPPING AT EQUAL SPACING (3 PER TREE) GUY WIRES SHALL NOT TO BE USED
- FLUORESCENT MARKING FLAG
- FINISH GRADE
- 3" LAYER OF SPECIFIED MULCH; DO NOT INSTALL WITHIN 3" OF TREE TRUNK
- FERTILIZER TABLET IF APPLICABLE
- CONSTRUCT TEMPORARY 3" WATERING BASIN
- 2"x4"x8" STAKE; SET 2" BELOW FINISH GRADE
- BACKFILL WITH SPECIFIED SOIL MIX
- SPECIFIED SOIL MIX
- EXISTING SOIL
- 2x DIAMETER OF THE ROOTBALL
- SET CROWN OF ROOT BALL SLIGHTLY ABOVE SURROUNDING FINISH GRADE. REMOVE TOP 2/3 OF BURLAP FROM ROOTBALL; TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION
- SET ROOTBALL ON UNDISTURBED SOIL
- REMOVE TOP 2/3 OF BURLAP/WIRE BASKET FROM ROOTBALL
- CLEAR TRUNK; REFER TO PLANT SCHEDULE

**CALIPER MEASUREMENTS NOTES:**

- CALIPER MEASUREMENT IS 6" FROM TOP OF ROOT BALL FOR TREES WITH 6" CALIPER OR LESS.
- CALIPER MEASUREMENT IS 12" FROM TOP OF ROOT BALL FOR TREES WITH 6" CALIPER GREATER.

REFER TO PLANT SCHEDULE FOR INDIVIDUAL SIZES.



**2 SMALL TREE PLANTING: LESS THAN 2" CALIPER**

1/4" = 1'-0"

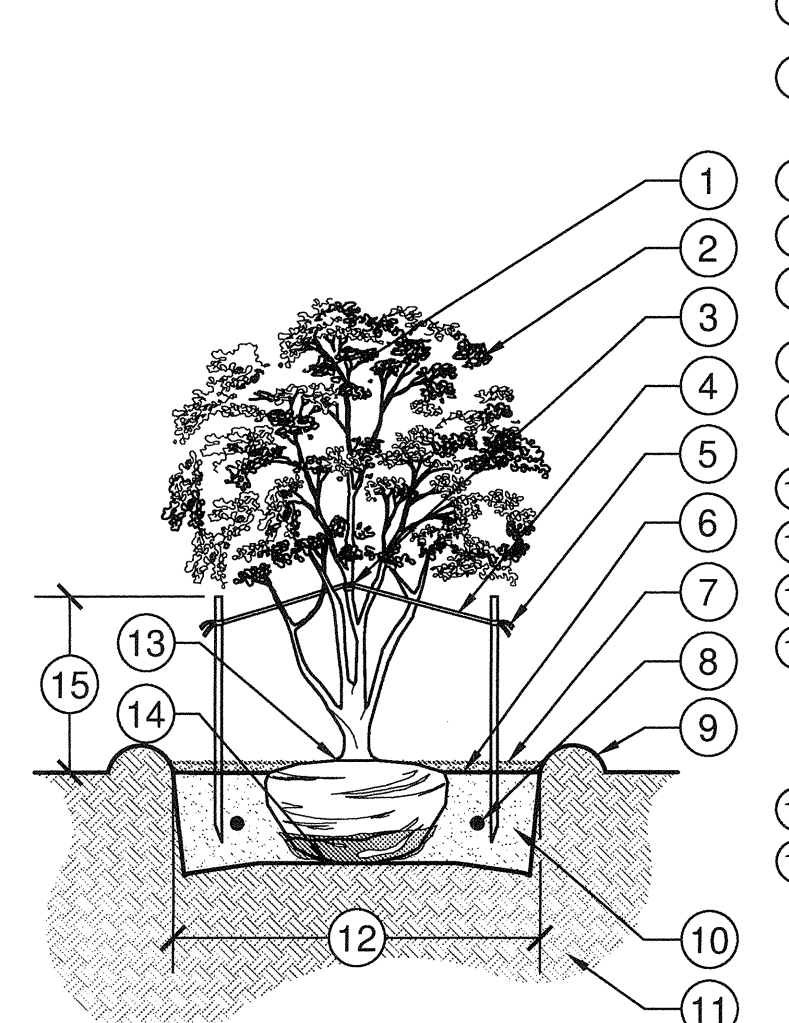
329343-18

- DO NOT PRUNE CENTRAL LEADER
- PRUNE DAMAGED OR DEAD WOOD IMMEDIATELY PRIOR TO PLANTING USING ACCEPTABLE NURSERY PRACTICES OR AS DIRECTED BY THE LANDSCAPE ARCHITECT
- PROTECT TRUNK WITH 3 LAYERS OF BURLAP MINIMUM
- 1" WIDE MIN. NYLON STRAPPING AT EQUAL SPACING (3 PER TREE) GUY WIRES SHALL NOT TO BE USED
- 1/2"x2" FLUORESCENT MARKER
- FINISH GRADE
- 3" LAYER OF SPECIFIED MULCH; DO NOT INSTALL WITHIN 3" OF TREE TRUNK
- 2"x4"x8" STAKE; SET 2" BELOW FINISH GRADE
- CONSTRUCT TEMPORARY 3" WATERING BASIN
- BACKFILL WITH SPECIFIED SOIL MIX
- FERTILIZER TABLET IF APPLICABLE
- EXISTING SOIL
- 2x DIAMETER OF THE ROOTBALL
- SET CROWN OF ROOT BALL SLIGHTLY ABOVE SURROUNDING FINISH GRADE. REMOVE TOP 2/3 OF BURLAP FROM ROOTBALL; TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION
- SET ROOTBALL ON UNDISTURBED SOIL
- CLEAR TRUNK; REFER TO PLANT SCHEDULE

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REFER TO PLANT SCHEDULE FOR INDIVIDUAL SIZES.

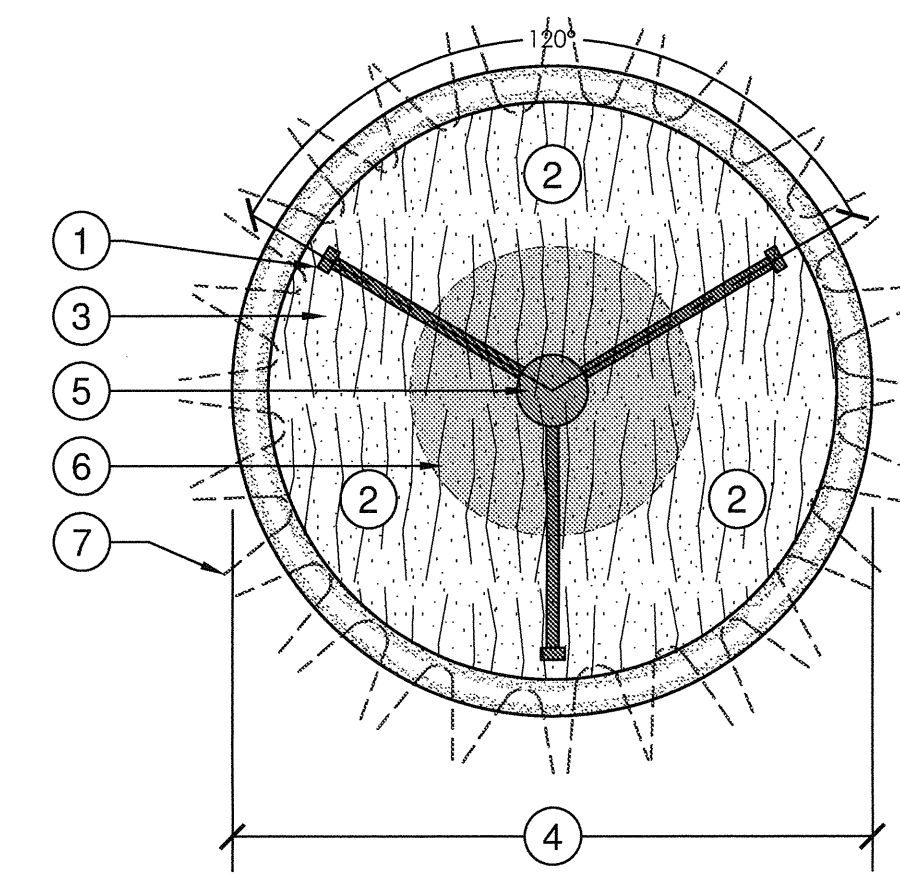


**3 MULTI-TRUNK TREE PLANTING**

1/4" = 1'-0"

329343-19

- DO NOT PRUNE CENTRAL LEADER
- PRUNE DAMAGED OR DEAD WOOD IMMEDIATELY PRIOR TO PLANTING USING ACCEPTABLE NURSERY PRACTICES OR AS DIRECTED BY THE LANDSCAPE ARCHITECT
- PROTECT TRUNK WITH 3 LAYERS OF BURLAP MINIMUM
- 1" WIDE MIN. NYLON STRAPPING AT EQUAL SPACING (3 PER TREE) GUY WIRES SHALL NOT TO BE USED
- 1/2"x2" FLUORESCENT MARKER
- FINISH GRADE
- 3" LAYER OF SPECIFIED MULCH; DO NOT INSTALL WITHIN 3" OF TREE TRUNK
- FERTILIZER TABLET IF APPLICABLE
- CONSTRUCT TEMPORARY 3" WATERING BASIN
- BACKFILL WITH SPECIFIED SOIL MIX
- EXISTING SOIL
- 2x DIAMETER OF THE ROOTBALL
- SET CROWN OF ROOT BALL SLIGHTLY ABOVE SURROUNDING FINISH GRADE. REMOVE TOP 2/3 OF BURLAP FROM ROOTBALL; TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION
- SET ROOTBALL ON UNDISTURBED SOIL
- CLEAR TRUNK; REFER TO PLANT SCHEDULE

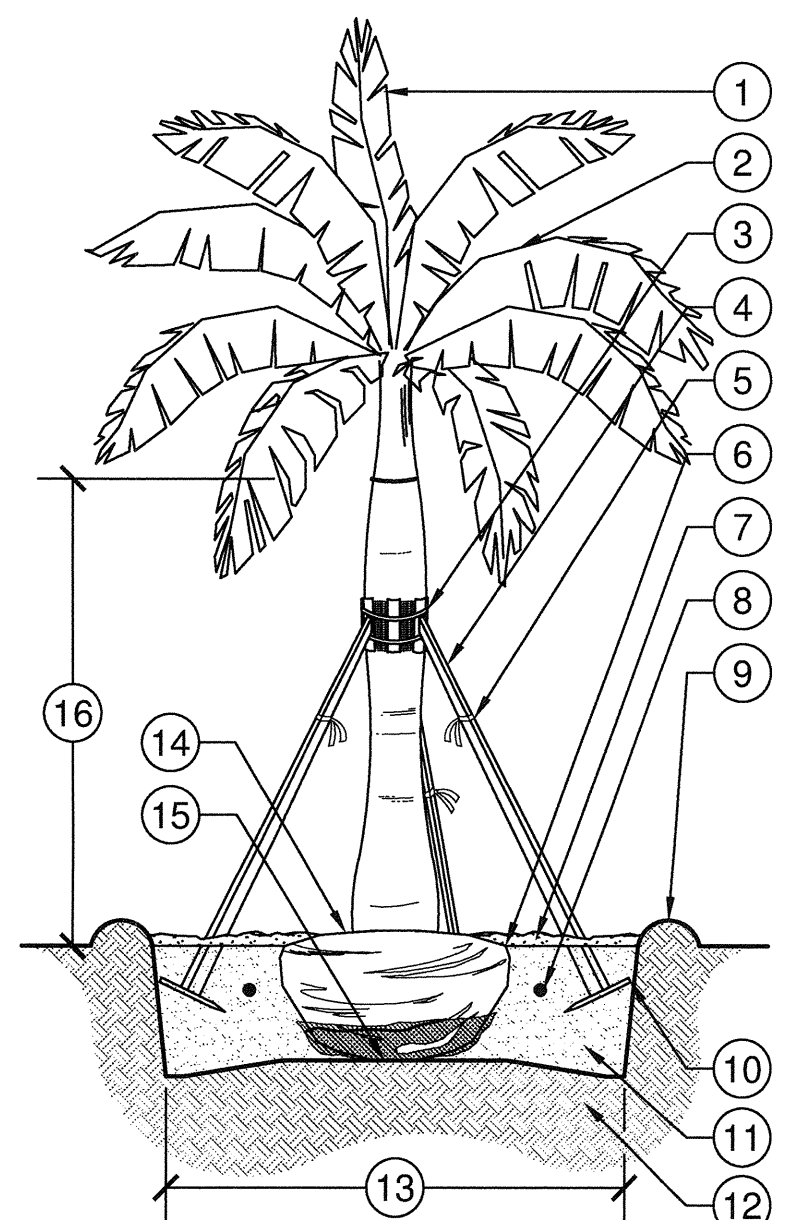


- 2"x4" WOOD BRACE AT EQUAL SPACING (3 PER TREE)
- 3" LAYER OF SPECIFIED MULCH; DO NOT INSTALL WITHIN 3" OF TREE TRUNK
- CONSTRUCT TEMPORARY 3" WATERING BASIN
- 2x DIAMETER OF THE ROOTBALL
- TREE TRUNK
- ROOTBALL
- TREE CANOPY

**4 LARGE TREE STAKING DETAIL**

3/8" = 1'-0"

329343-22

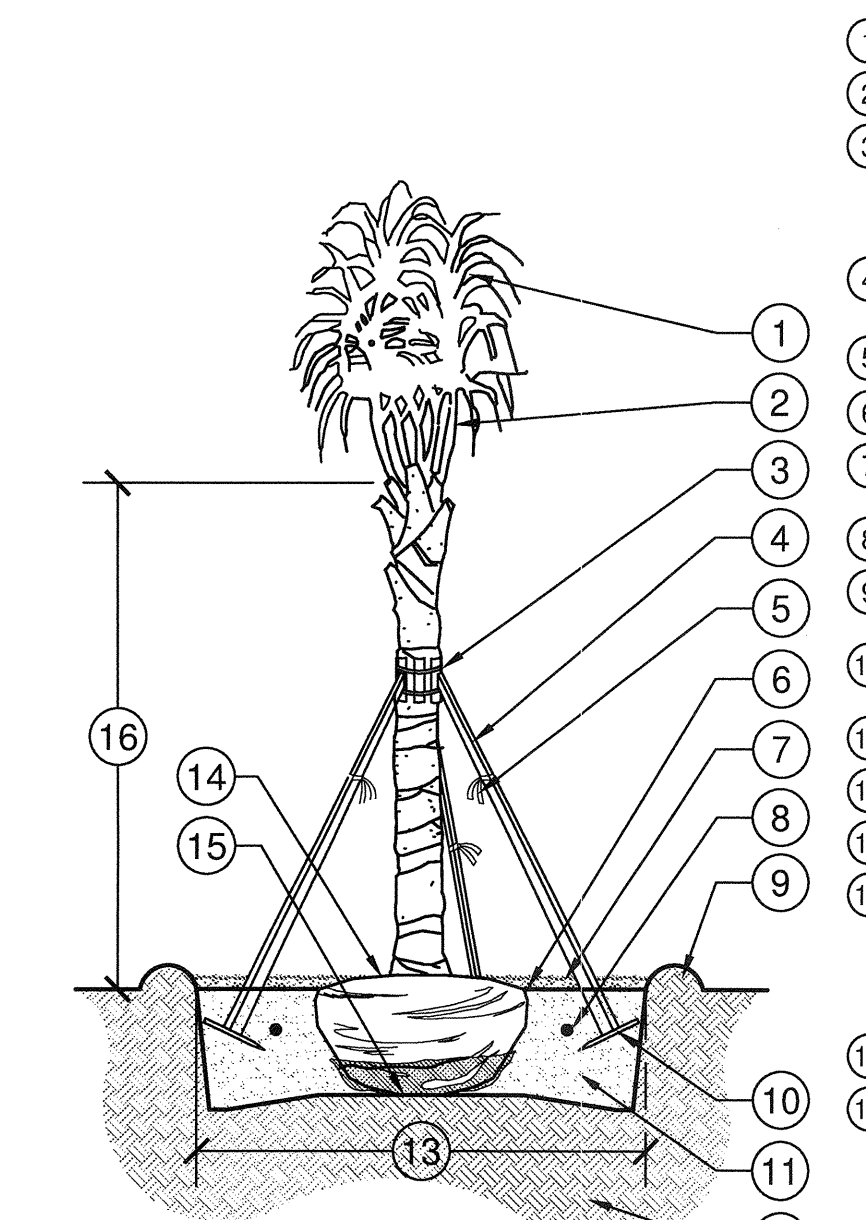


**5 LARGE PALM PLANTING DETAIL**

1/4" = 1'-0"

329343-25

- TERMINAL BUD/FROND.
- UNITE FRONDS PRIOR TO INSPECTION.
- METAL STRAPS SECURING 2"x4" WOOD BATTENS, MIN. 5 LAYERS BURLAP, TOE NAIL BRACES TO 2"x4" WOOD BATTENS, DO NOT NAIL STAKES DIRECTLY TO TRUNK.
- 2"x4" WOOD BRACE AT EQUAL SPACING (3 PER TREE).
- 1/2"x2" FLUORESCENT MARKER.
- FINISH GRADE.
- 3" LAYER OF SPECIFIED MULCH; DO NOT INSTALL WITHIN 3" OF TREE TRUNK.
- FERTILIZER TABLET IF APPLICABLE.
- CONSTRUCT TEMPORARY 3" WATERING BASIN.
- 2"x4"x8" STAKE; SET 2" BELOW FINISH GRADE.
- BACKFILL WITH SPECIFIED SOIL MIX.
- EXISTING SOIL.
- 2x DIAMETER OF THE ROOTBALL
- SET CROWN OF ROOT BALL 0'-2" ABOVE SURROUNDING FINISH GRADE. REMOVE TOP 2/3 OF BURLAP FROM ROOTBALL; TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION.
- SET ROOTBALL ON UNDISTURBED SOIL.
- CLEAR TRUNK/GRAY WOOD; REFER TO PLANT SCHEDULE



**6 SABAL PALM PLANTING**

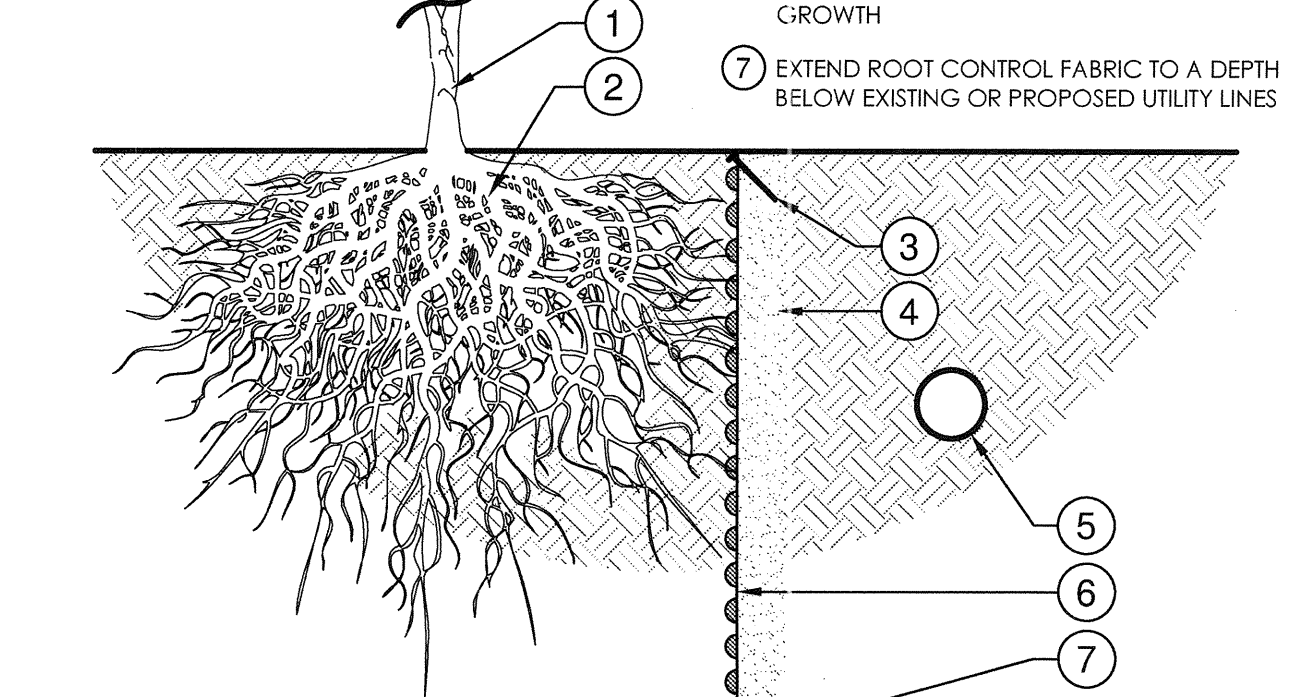
1/4" = 1'-0"

329343-21

- DO NOT HURRICANE CUT FRONDS
- UNITE FRONDS PRIOR TO INSPECTION
- METAL STRAPS SECURING 2"x4" WOOD BATTENS, MIN. 5 LAYERS BURLAP, TOE NAIL BRACES TO 2"x4" WOOD BATTENS; DO NOT NAIL STAKES DIRECTLY TO TRUNK
- 2"x4" WOOD BRACE AT EQUAL SPACING (3 PER TREE)
- 1/2"x2" FLUORESCENT MARKER
- FINISH GRADE
- 3" LAYER OF SPECIFIED MULCH; DO NOT INSTALL WITHIN 3" OF TREE TRUNK
- FERTILIZER TABLET IF APPLICABLE
- CONSTRUCT TEMPORARY 3" WATERING BASIN
- 2"x4"x8" STAKE; SET 2" BELOW FINISH GRADE
- BACKFILL WITH SPECIFIED SOIL MIX
- EXISTING SOIL
- 2x DIAMETER OF THE ROOTBALL
- SET CROWN OF ROOT BALL 0'-2" ABOVE SURROUNDING FINISH GRADE. REMOVE TOP 2/3 OF BURLAP FROM ROOTBALL; TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION
- SET ROOTBALL ON UNDISTURBED SOIL
- CLEAR TRUNK; REFER TO PLANT SCHEDULE

**INSTALLATION NOTES:**

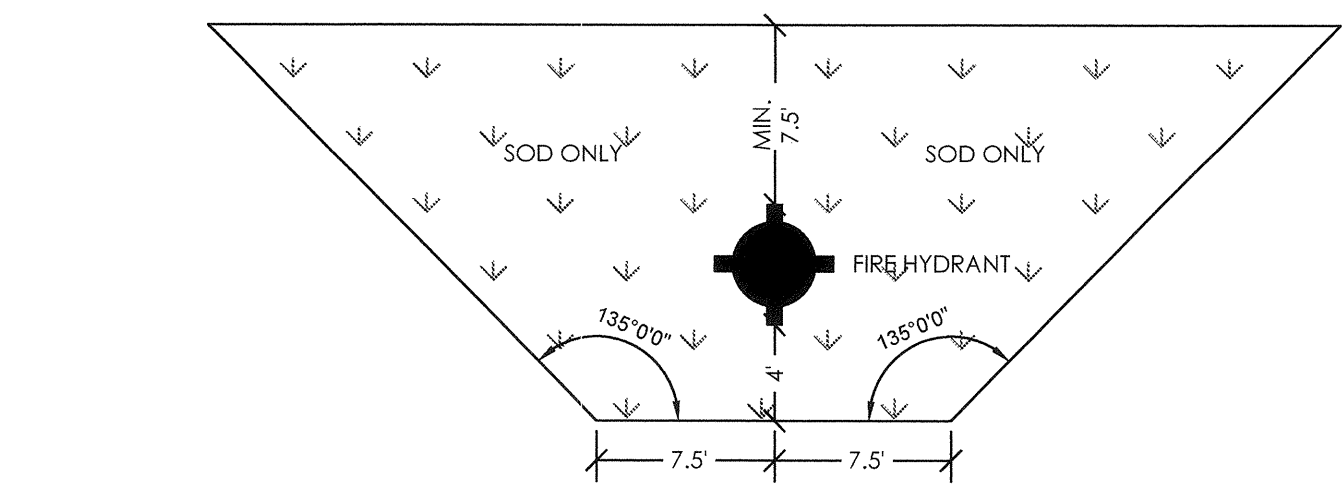
- CONTACT UTILITY COMPANY AND ENSURE UTILITY LINES ARE PROPERLY LOCATED PRIOR TO DIGGING OR TRENCHING.
- FOR EXISTING TREES, CONSULT A PROFESSIONAL ARBORIST IF ROOT TRIMMING IS REQUIRED.
- INSTALL & COVER BIOBARRIER WITHIN 12 HOURS AFTER OPENING. HIGH TEMPERATURES AND DIRECT SUNLIGHT CAN REDUCE EFFECTIVE PRODUCT LIFE.
- INSTALL TYPAR BIOBARRIER ROOT CONTROL FABRIC WITH NODULES FACING TOWARD ROOT SOURCE.
- BACKFILL AND TAMP FIRMLY TO ELIMINATE SOIL SETTLING. WET SOIL, IF NECESSARY, TO ENSURE PROPER SOIL COMPACTION.
- PROPOSED OR EXISTING TREE
- FUTURE OR EXISTING ROOT STRUCTURE
- SECURE FABRIC EVERY 2'-0" WITHIN 1/4" OF TOP EDGE
- EXCAVATE TRENCHES A MINIMUM OF 4" WIDE; TRENCHES MUST BE A MINIMUM LENGTH OF MATURE PLANT CANOPY PLUS 10 FEET, CENTERED ON THE ROOT SOURCE AND ADJACENT TO PROTECTION AREA
- PROPOSED OR EXISTING UTILITIES
- TYPAR BIOBARRIER ROOT CONTROL FABRIC VERTICALLY PLACED TO STOP LATERAL ROOT GROWTH
- EXTEND ROOT CONTROL FABRIC TO A DEPTH BELOW EXISTING OR PROPOSED UTILITY LINES



**8 TREE ROOT BARRIER - ADJACENT UTILITIES**

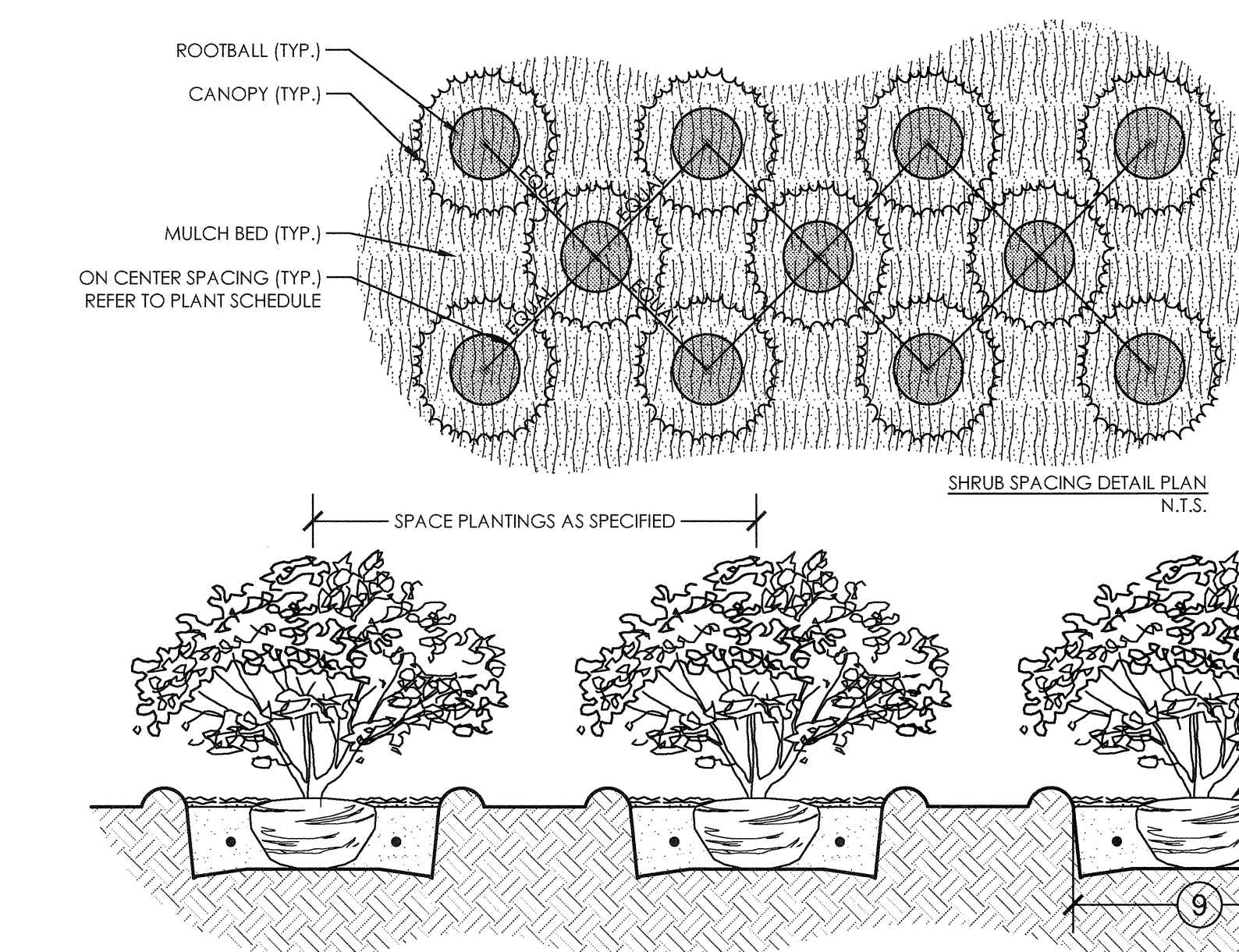
3/4" = 1'-0"

329413.23-01



**9 COCONUT CREEK FIRE HYDRANT CLEAR ZONE DETAIL**

N.T.S.



**7 SHRUB/GROUND COVER PLANTING & SPACING**

1" = 1'-0"

329333-08

- PLANT MATERIAL SHALL NOT BE PRUNED PRIOR TO INSTALLATION; AFTER PLANTS HAVE BEEN INSTALLED, EACH PLANT SHALL BE PRUNED FOR UNIFORMITY
- SET CROWN OF ROOT SLIGHTLY ABOVE SURROUNDING FINISH GRADE; TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION
- 3" LAYER OF SPECIFIED MULCH; DO NOT INSTALL WITHIN 3" OF TREE TRUNK
- CONSTRUCT TEMPORARY 3" WATERING BASIN
- FINISH GRADE
- FERTILIZER TABLET IF APPLICABLE.
- BACKFILL WITH SPECIFIED SOIL MIX
- EXISTING SOIL
- 2x DIAMETER OF THE ROOTBALL

NO. REVISION	DATE
2-7-14	Site Plan Submittal
3-17-14	DRC Comments
4-10-14	50% CD Set
4-17-14	DRC Comments #2

CONSULTANT:  
**CHEN+MOORE**  
ASSOCIATES  
CERTIFICATES OF AUTHORIZATION  
88004593 LC20000425

**PROPOSED NEW FIRE STATION 50  
NW 45 AVE.**  
NW 45 AVE. & COCONUT CREEK PARKWAY  
COCONUT CREEK, FLORIDA

**CPZ ARCHITECTS, INC.**  
4316 WEST BROWARD BOULEVARD  
PLANTATION, FLORIDA 33177  
AA 02600685 WWW.CPZARCHITECTS.COM



DRAWING TITLE:  
LANDSCAPE  
DETAILS

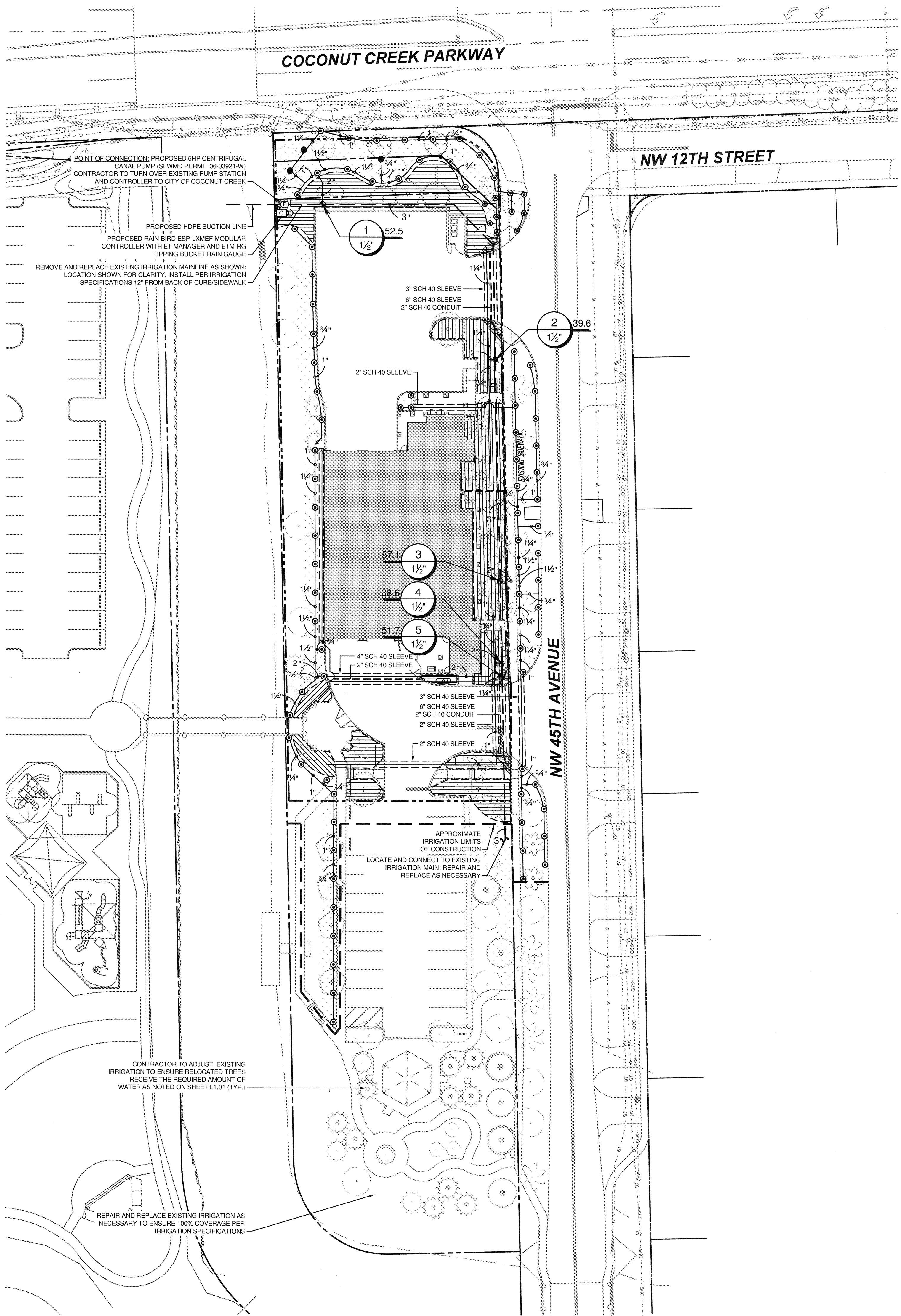
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CHECKED	MSB
DATE	4-23-14
SCALE	AS NOTED
PROJECT NO.	1220B
SHEET:	

**NOT FOR CONSTRUCTION**  
CRIS ROBAL BETANCOURT, RLA  
FL REGISTRATION NO. 668041  
STATE OF FLORIDA  
DATE:

**L2.03**

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P:\PROJECTS\430.001 - COCONUT CREEK FIRE STATION 50\CAD\430.001\_IRR.DWG 4/21/14 by EHARRISON



GRAPHIC SCALE  
0 15 30 60  
(IN FEET)  
1 INCH = 30 FEET

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### IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	ARC	PSI	RADIUS
●	Rain Bird RD-06-S-P30-F 15 Series MPR	3	360	30	15'
⊙	Rain Bird RD-06-S-P30-F 10 Series VAN	13	Adj	30	10'
⊙	Rain Bird RD-06-S-P30-F 15 Series VAN	80	Adj	30	15'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY			
■	Rain Bird XCZ-150-PRB-COM 1-1/2" PESB remote control valve with two 1" pressure regulating quick-check basket filters.	2			
▨	Area to Receive Dripline Rain Bird XFD-09-12 (18) XFD On-Surface Pressure Compensating UV Resistant Dripline, 0.9GPH emitters at 12" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern.	7,254 s.f.			
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY			
⊕	Rain Bird PEB-PRS-D 1-1/2" remote control valve with pressure regulator.	3			
□	Rain Bird ESP-LXMEF 8 Station modular controller with plastic wall mount, flow sensing, and water management capabilities	1			
⊕	Rain Bird ETC-LX and ETM-RG ET manager cartridge with ETM-RG tipping bucket rain gauge.	1			
⊕	Pump Station 5 HP centrifugal pumping system with variable frequency drive, flow sensor, and discharge isolation valve. 60 GPM, 150 TDH.	1			
—	Irrigation Lateral Line: PVC Class 200 SDR 21	2,300 l.f.			
---	Irrigation Mainline: PVC Class 200 SDR 21	550 l.f.			
---	Pipe Sleeve: PVC Schedule 40 Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	470 l.f.			

Valve Callout  
 # #  
 # #  
 # #  
 Valve Number  
 Valve Flow  
 Valve Size

### GENERAL NOTES

- CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES.
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH FPL ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.
- CONTRACTOR SHALL VERIFY PROPER CLEARANCE BELOW EXISTING OVERHEAD POWER LINES PRIOR TO WORKING WITHIN THE VICINITY THE POWER LINES.
- MAINLINE LOCATION, WHERE SHOWN, IS FOR GRAPHIC CLARITY PURPOSES ONLY. INSTALL AT THE BACK OF CURB, FRONT OF WALK, BACK OF WALK, OR ADJACENT TO OTHER HARDSCAPES TO FACILITATE FUTURE LOCATION AND TO PROTECT FROM DAMAGE. ENSURE MAINLINE IS INSTALLED ACCORDING TO THE IRRIGATION SPECIFICATIONS AND DETAILS.
- IF IT IS NECESSARY TO HAVE PIPING UNDER HARDSCAPE ITEMS, SUCH AS ROADS, WALKS AND PATIOS, THE PIPES MUST BE SLEEVED USING SCH 40 PVC WITH THE SLEEVE DIAMETER BEING AT LEAST TWICE THE SIZE OF THE PIPE IT IS CARRYING.
- IRRIGATION SYSTEM SHALL COMPLY WITH SFWMD IRRIGATION SYSTEM CRITERIA AND CURRENT WATER USE PERMIT.

### VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	PSI	PSI @ POC	GPM	PRECIP
1	Rain Bird PEB-PRS-D	1-1/2"	Turf Spray	39.48	39.54	52.49	1.43 in/h
2	Rain Bird XCZ-150-PRB-COM	1-1/2"	Shrub Dripline	52.17	52.46	39.61	1.03 in/h
3	Rain Bird PEB-PRS-D	1-1/2"	Turf Spray	38.10	39.02	57.12	1.46 in/h
4	Rain Bird XCZ-150-PRB-COM	1-1/2"	Shrub Dripline	53.56	54.07	38.63	1.03 in/h
5	Rain Bird PEB-PRS-D	1-1/2"	Turf Spray	40.94	41.84	51.68	0.81 in/h

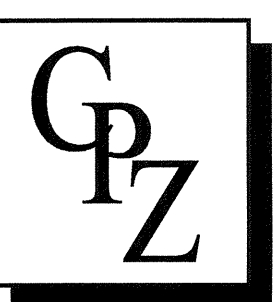
NO.	REVISION	DATE
2	Site Plan Submittal	2-7-14
3	DRC Comments	3-17-14
4	50% CD Set	4-10-14
4	DRC Comments #2	4-17-14

CONSULTANT:  
**CHEN-MOORE**  
6 ASSOCIATES  
CERTIFICATES OF AUTHORIZATION  
EB000493 LC28000425

**PROPOSED NEW FIRE STATION 50**  
**NW 45 AVE.**  
NW 45 AVE. & COCONUT CREEK PARKWAY  
COCONUT CREEK, FLORIDA

**CPZ ARCHITECTS, INC.**

4316 WEST BROWARD BOULEVARD  
PLANTATION, FLORIDA 33317  
PHONE: (954) 337-6599  
FAX: (954) 337-6599  
WWW.CPZARCHITECTS.COM

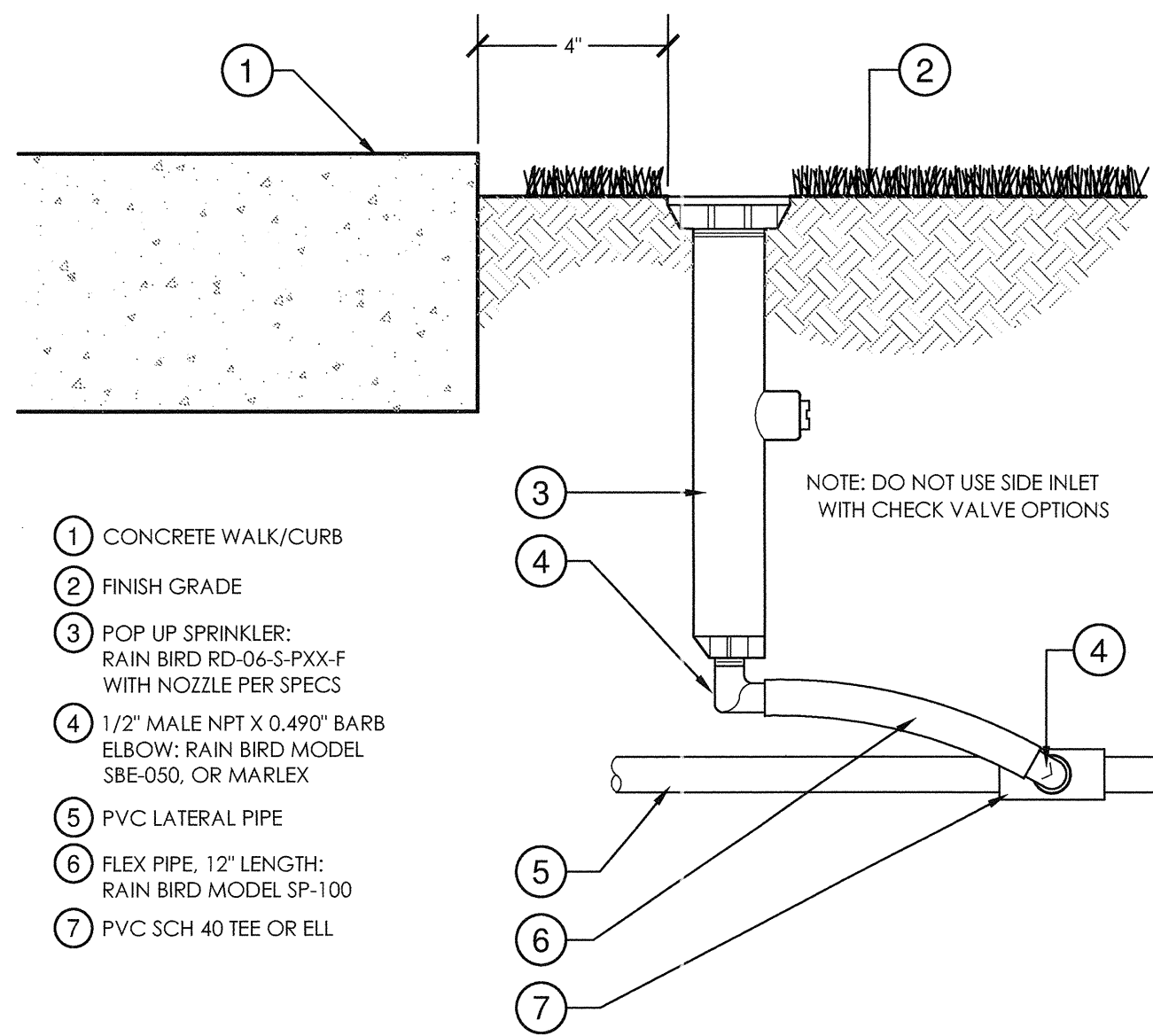


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IRRIGATION  
PLAN

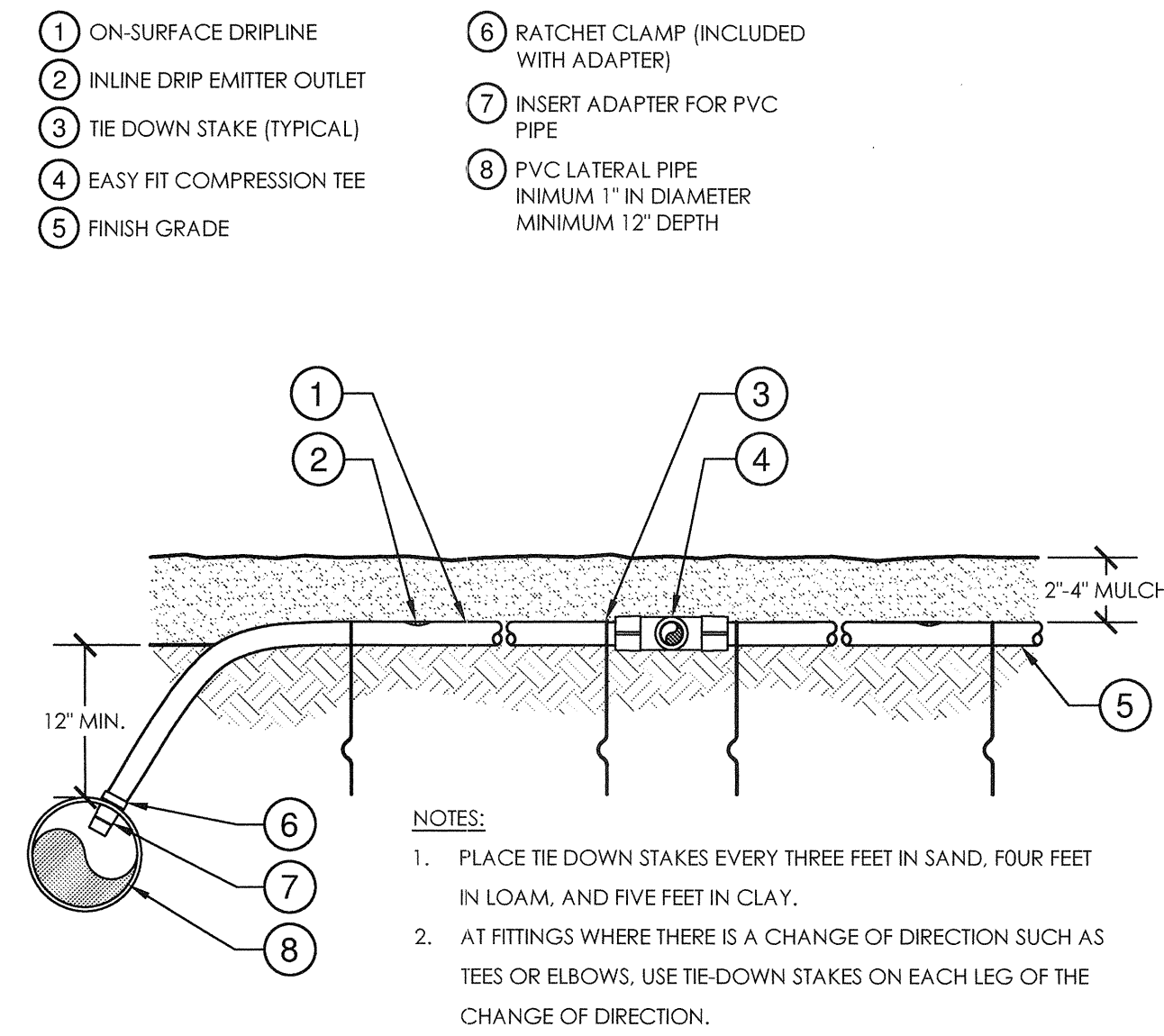
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CHECKED	MSB
DATE	4-23-14
SCALE	AS NOTED
PROJECT NO.	1220B
SHEET:	



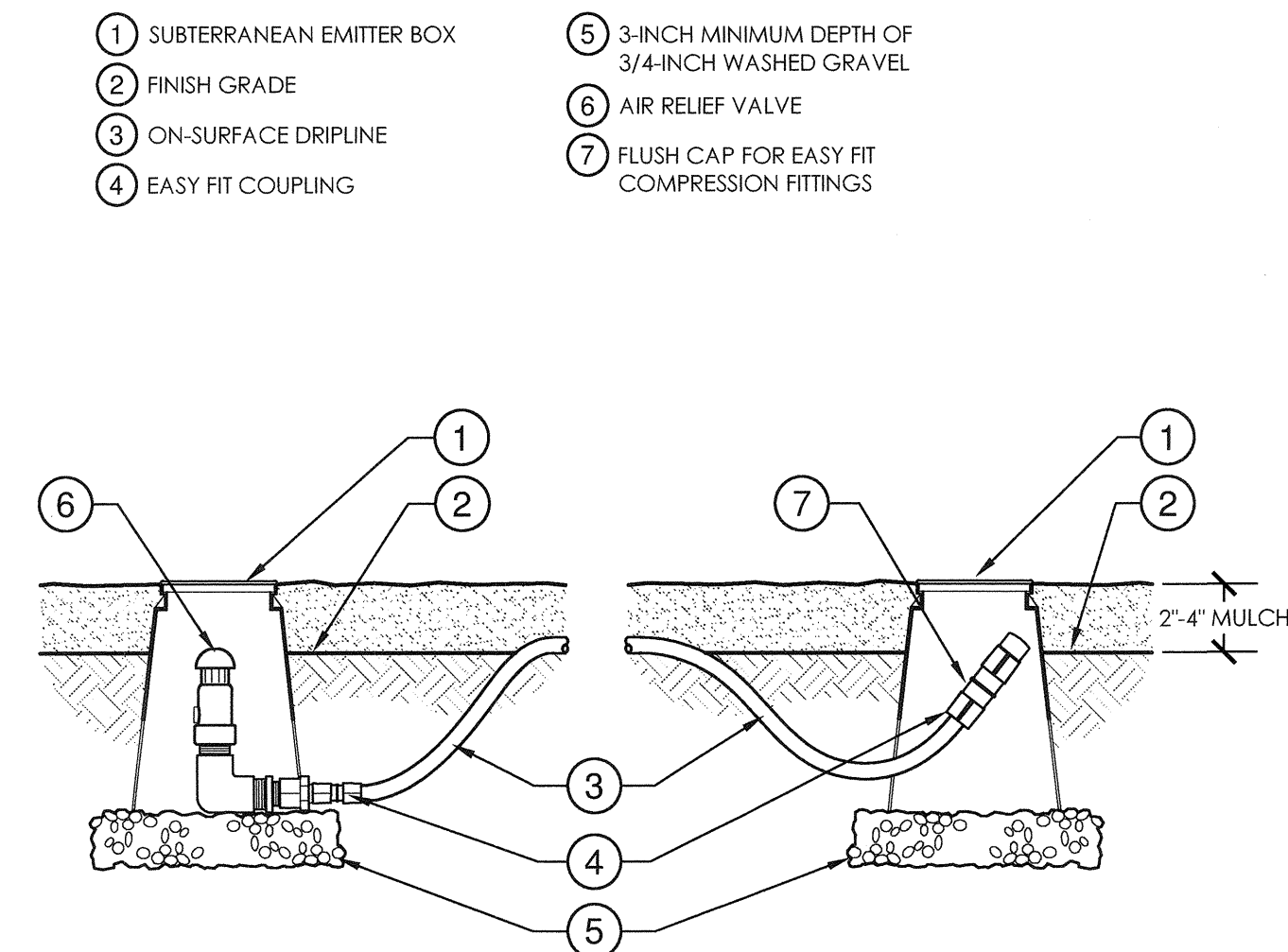
**L3.01**



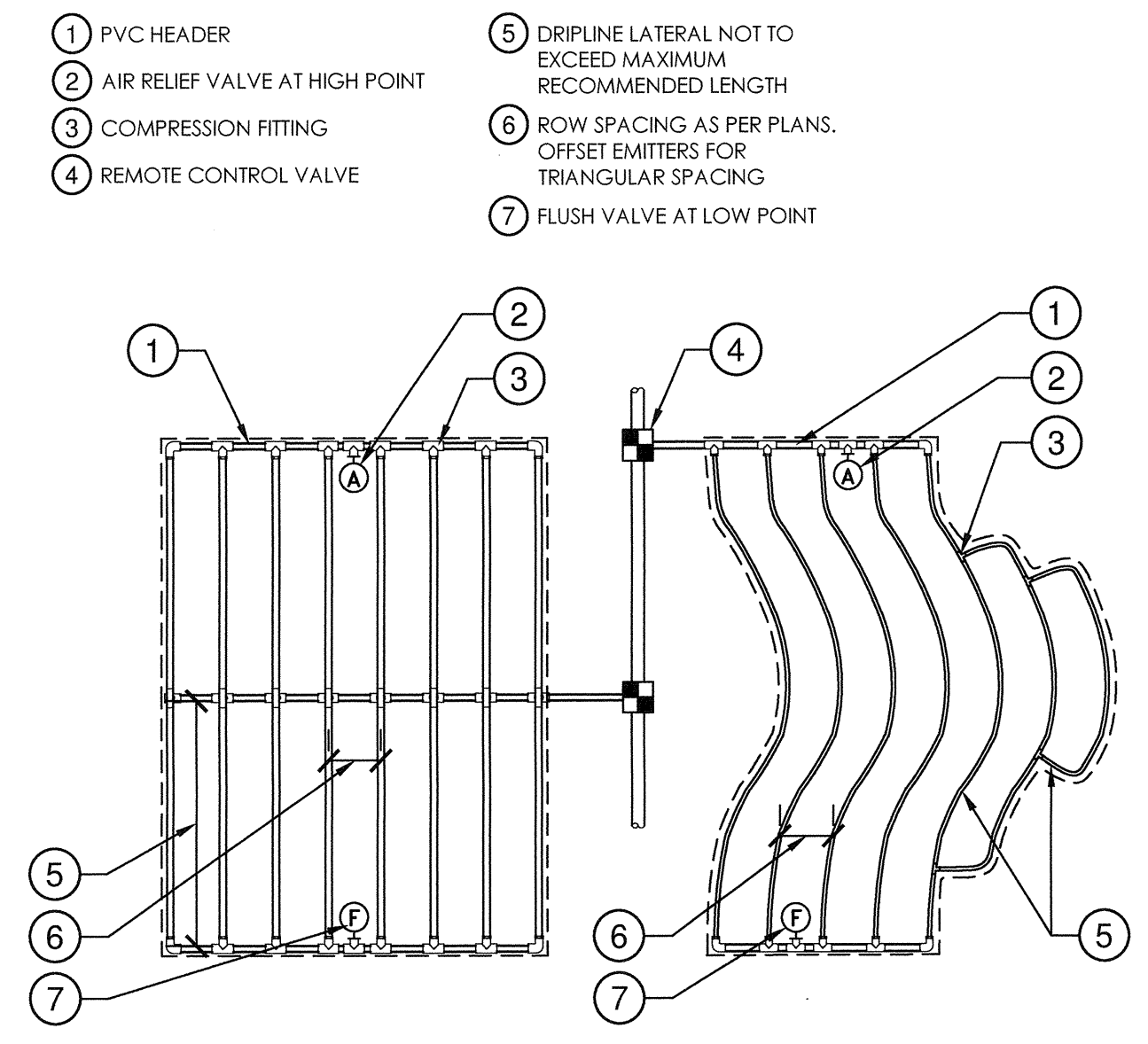
**1 6" POP-UP SPRAY**  
3" = 1'-0"



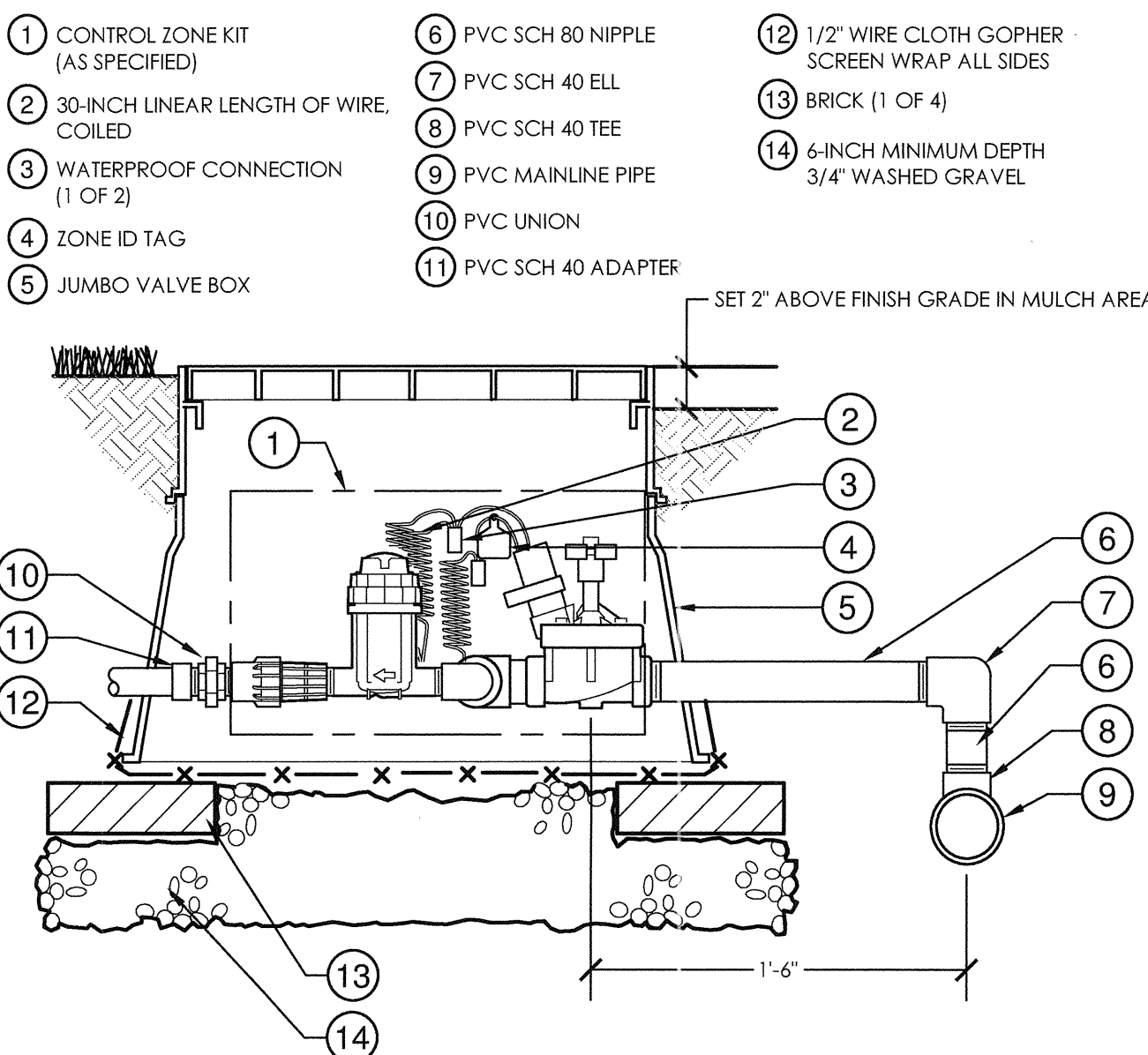
**2 TYPICAL DRIPLINE AND HEADER**  
1 1/2" = 1'-0"



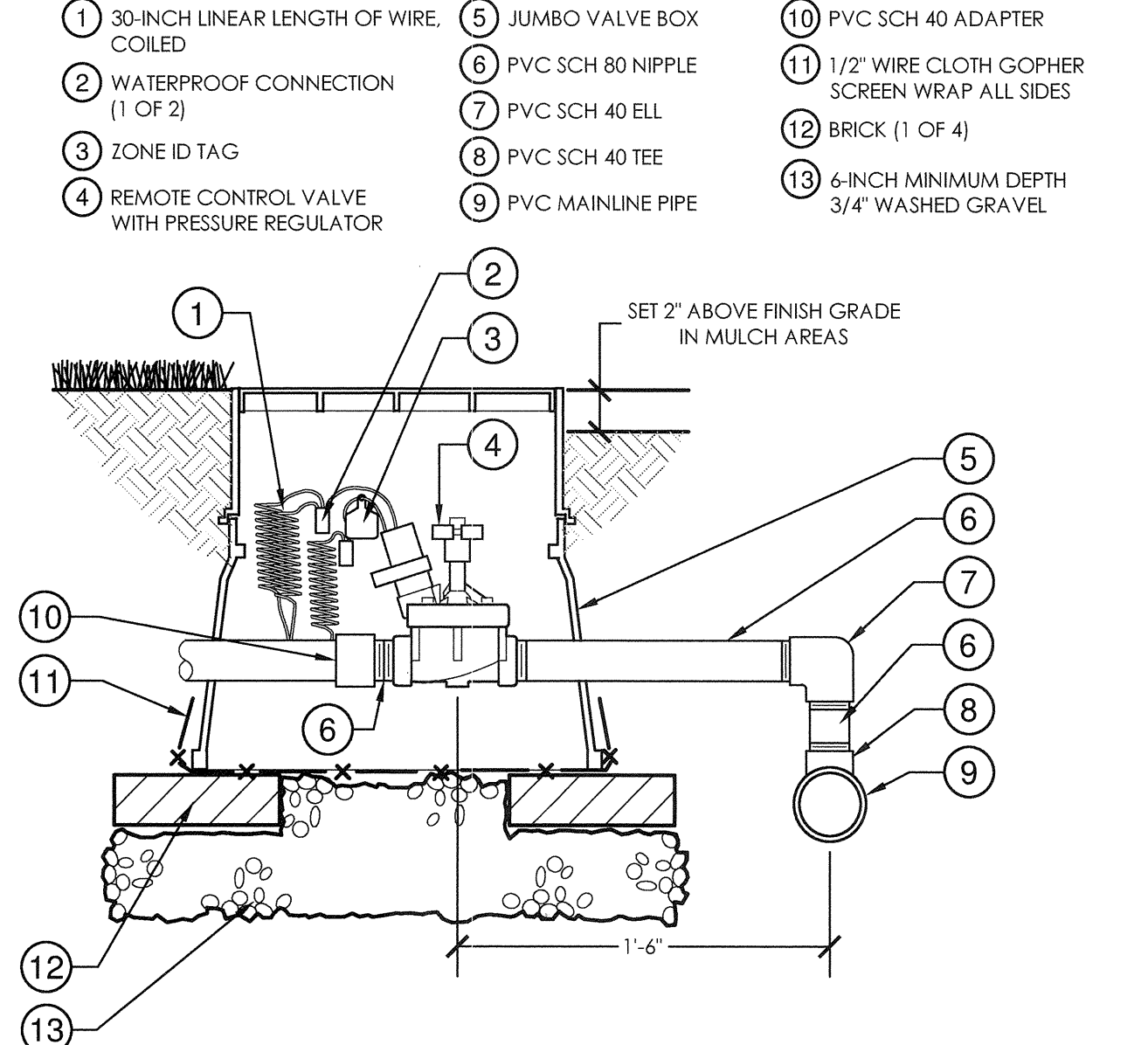
**3 AIR RELIEF AND FLUSH VALVE**  
1 1/2" = 1'-0"



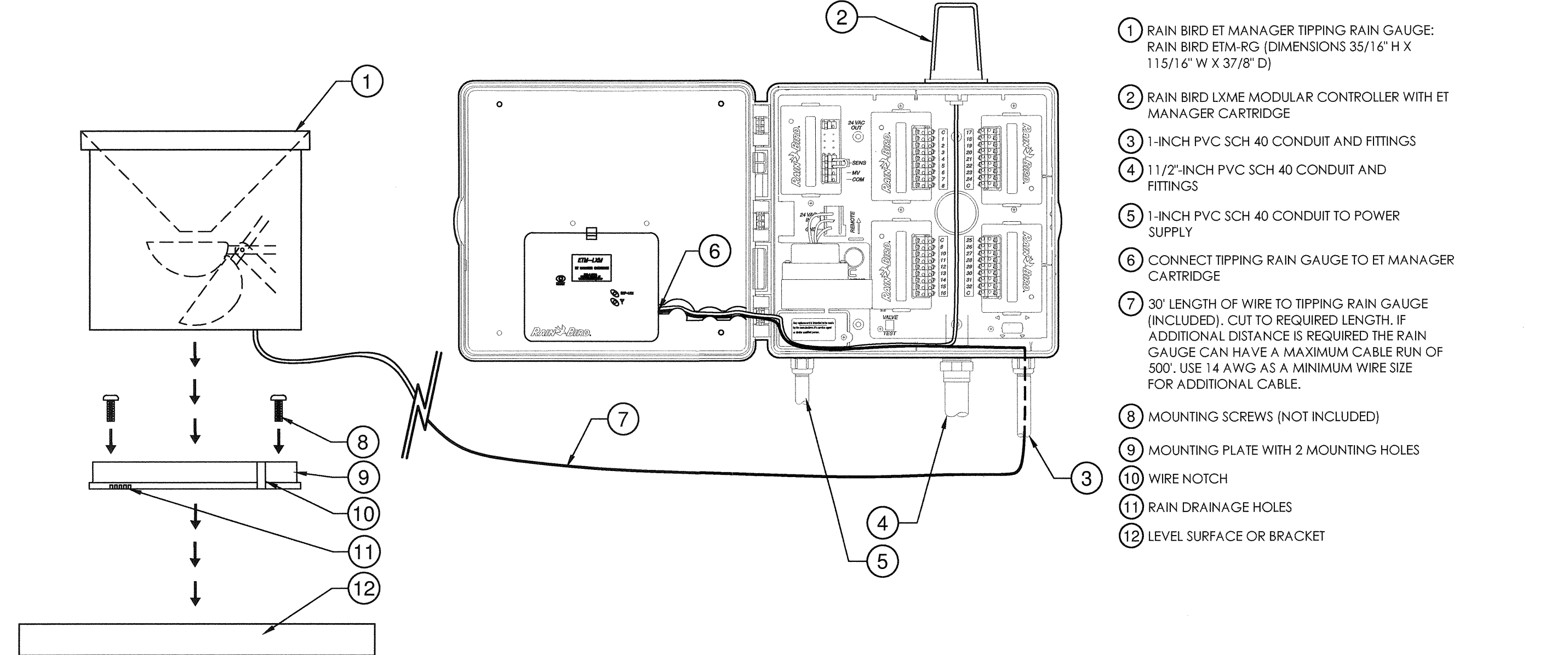
**4 TYPICAL DRIPLINE LAYOUT**  
1 1/2" = 1'-0"



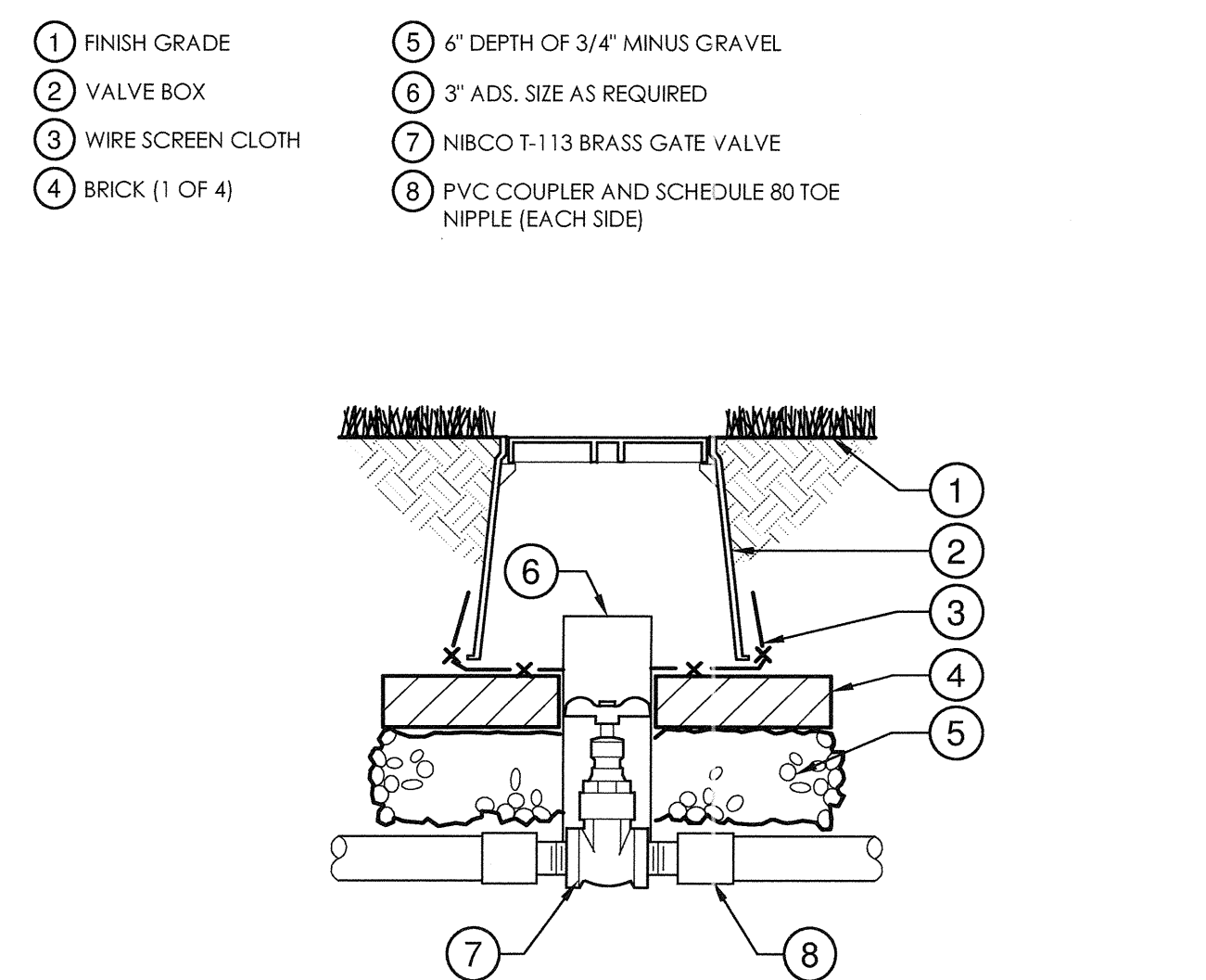
**5 CONTROL ZONE KIT WITH BASKET FILTER**  
1 1/2" = 1'-0"



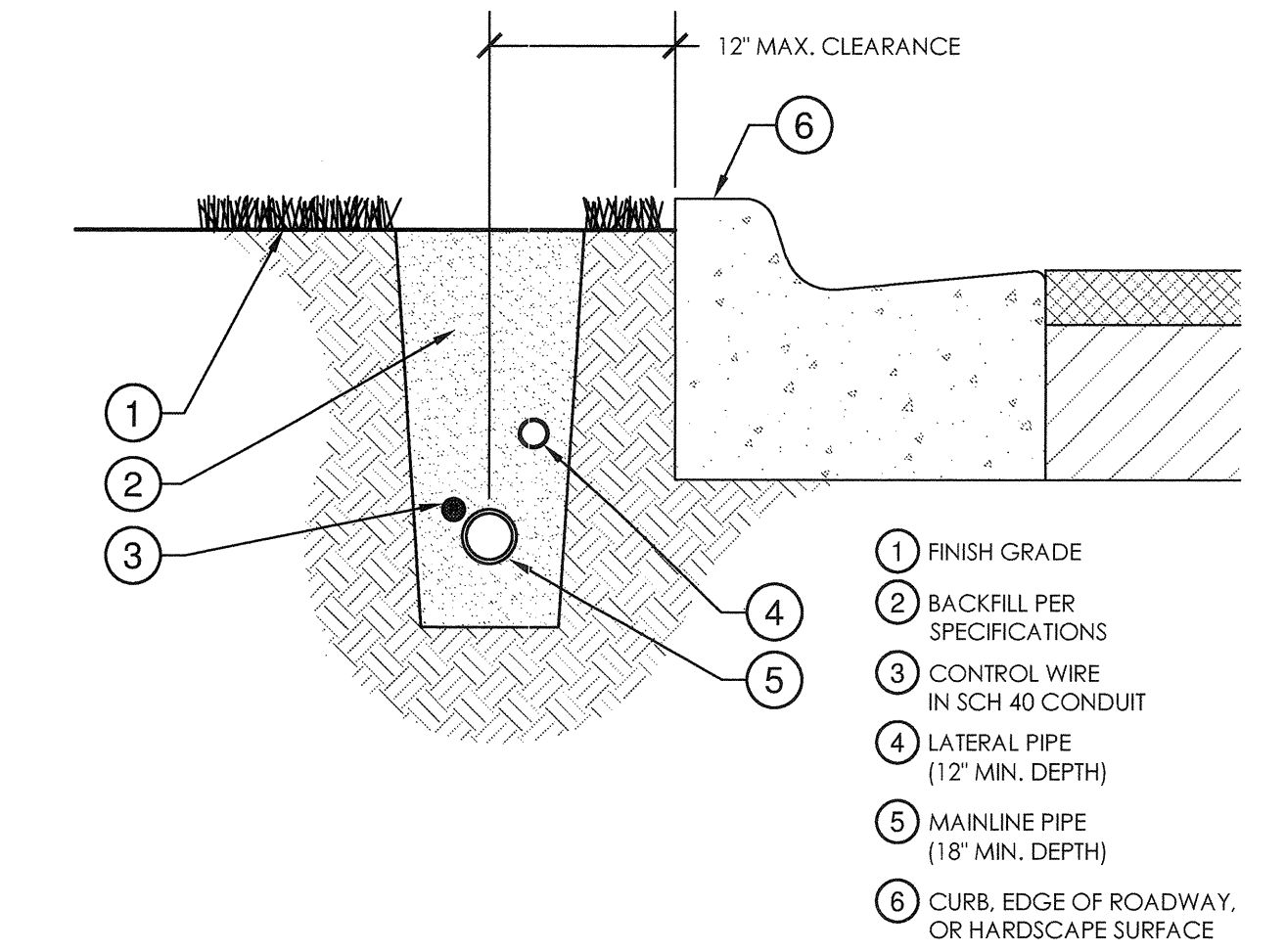
**6 PRESSURE REGULATING REMOTE CONTROL VALVE**  
1 1/2" = 1'-0"



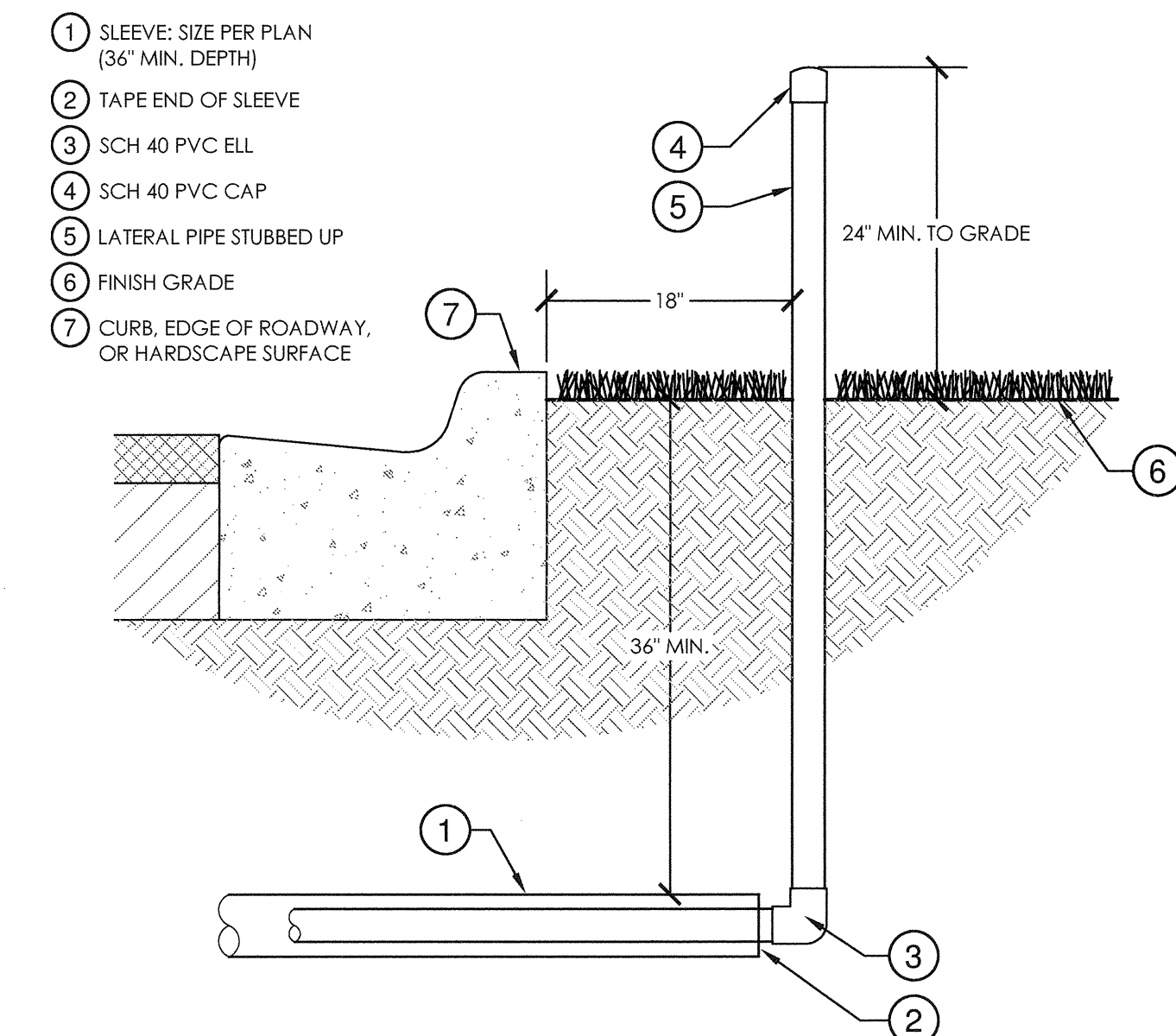
**7 LXME OUTDOOR CONTROLLER WITH ET AND ETM-RG**  
3/4" = 1'-0"



**8 ISOLATION VALVE**  
1 1/2" = 1'-0"



**9 MAINLINE AND LATERAL PIPING**  
1" = 1'-0"



**10 PIPE SLEEVING**  
1" = 1'-0"

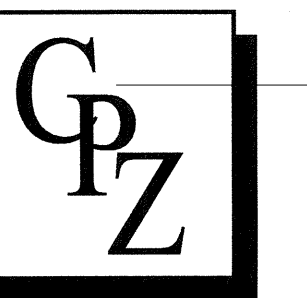
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CONSULTANT:  
**CHEN-MOORE**  
& ASSOCIATES  
CERTIFICATES OF AUTHORIZATION  
EB0004593 LC20000425

**PROPOSED NEW FIRE STATION 50 NW 45 AVE.**  
NW 45 AVE. & COCONUT CREEK PARKWAY  
COCONUT CREEK, FLORIDA

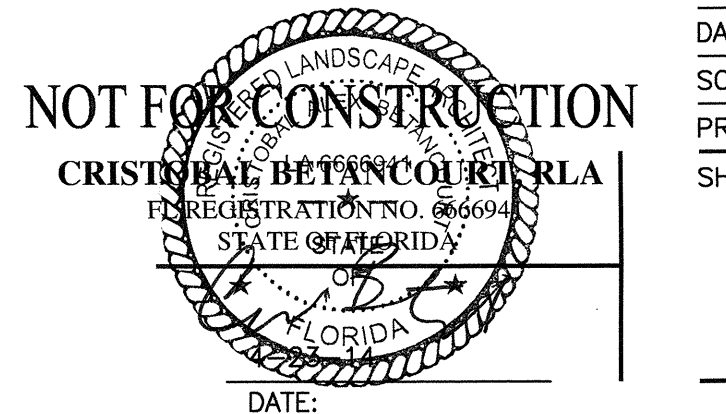
**CPZ ARCHITECTS, INC.**

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PLANTATION, FLORIDA 33317  
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WWW.CPZARCHITECTS.COM



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IRRIGATION  
DETAILS

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CHECKED	MSB
DATE	4-23-14
SCALE	AS NOTED
PROJECT NO.	1220B
SHEET:	



**L3.02**

# IRRIGATION SPECIFICATIONS

## GENERAL NOTES

- THE SYSTEM HAS BEEN DESIGNED TO CONFORM WITH THE REQUIREMENTS OF ALL APPLICABLE CODES. SHOULD ANY CONFLICT EXIST, THE REQUIREMENTS OF THE CODES SHALL PREVAIL. IT IS THE RESPONSIBILITY OF THE OWNER/INSTALLATION CONTRACTOR TO ENSURE THE ENTIRE SYSTEM IS INSTALLED ACCORDING TO ALL APPLICABLE LAWS, RULES, REGULATIONS AND CONVENTIONS. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS ACCORDING TO FEDERAL, STATE AND LOCAL LAWS.
- CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES.
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND VERIFY PROPER CLEARANCE WITH FPL ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.
- THE CONTRACTOR MUST SUBMIT FOR APPROVAL, PRIOR TO INSTALLATION, COPIES OF THE MANUFACTURER'S CUT SHEETS/SPECIFICATIONS FOR ALL COMPONENTS TO BE USED IN THE IRRIGATION SYSTEM.
- THE IRRIGATION CONTRACTOR SHALL BE CERTIFIED AS A CERTIFIED IRRIGATION CONTRACTOR BY THE IRRIGATION ASSOCIATION. THE CERTIFICATION SHALL BE CURRENT AND IN GOOD STANDING.

## SCOPE OF WORK

- THE WORK SPECIFIED IN THIS SECTION CONSISTS OF FURNISHING ALL COMPONENTS NECESSARY FOR THE INSTALLATION, TESTING, AND DELIVERY OF A COMPLETE, FULLY FUNCTIONAL AUTOMATIC LANDSCAPE IRRIGATION SYSTEM THAT COMPLETELY COMPLIES WITH THE 100% IRRIGATION PLANS, SPECIFICATIONS, NOTES, DETAILS AND ALL APPLICABLE LAWS, REGULATIONS, CODES AND ORDINANCES. THIS WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, THE PROVIDING OF ALL REQUIRED MATERIAL (PIPE, VALVES, FITTINGS, CONTROLLERS, WIRE, PRIMER, GLUE, ETC.), LAYOUT, PROTECTION OF THE PUBLIC, EXCAVATION, ASSEMBLY, INSTALLATION, BACK FILLING, COMPACTING, REPAIR OF ROAD SURFACES, CONTROLLER AND LOW VOLTAGE FEEDS TO VALVES, CLEANUP, MAINTENANCE, GUARANTEE AND AS-BUILT PLANS.
- ALL IRRIGATED AREAS SHALL PROVIDE 100% HEAD-TO-HEAD COVERAGE FROM A FULLY AUTOMATIC IRRIGATION SYSTEM WITH A RAIN SENSOR AS SHOWN. THE RAIN SENSOR SHALL BE INSTALLED TO PREVENT ITS ACTIVATION BY ADJACENT HEADS. ALL WATERING PROCEDURES SHALL CONFORM TO LOCAL CODES. AS WELL AS THIS PROJECT'S REGIONAL WATER MANAGEMENT DISTRICT RESTRICTIONS AND REGULATIONS. ZONES ARE PRIORITIZED FIRST BY PUBLIC SAFETY AND THEN BY HYDRAULIC CONCERNS. THIS SEQUENCING WILL BE A MANDATORY PUNCH LIST ITEM. THESE PLANS HAVE BEEN DESIGNED TO SATISFY/EXCEED THE FLORIDA BUILDING CODE (FBC) APPENDIX F AND THE FLORIDA IRRIGATION SOCIETY STANDARDS AND SPECIFICATIONS FOR TURF AND LANDSCAPE IRRIGATION SYSTEMS, FOURTH EDITION.
- CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES 72 HOURS PRIOR TO COMMENCEMENT OF WORK.
- IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, STRUCTURES AND UTILITIES. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTION, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN. SUCH OBSTRUCTIONS, OR DIFFERENCES, SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING SITE ITEMS DAMAGED BY THEIR WORK. IRRIGATION CONTRACTOR SHALL COORDINATE THEIR WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERALS THROUGH WALLS, UNDER ROADWAYS AND PAVING, ETC.
- THE CONTRACTOR SHALL TAKE IMMEDIATE STEPS TO REPAIR, REPLACE, OR RESTORE ALL SERVICES TO ANY UTILITIES WHICH ARE DISRUPTED DUE TO THEIR OPERATIONS. ALL COSTS INVOLVED IN DISRUPTION OF SERVICE AND REPAIRS DUE TO NEGLIGENCE ON THE PART OF THE CONTRACTOR SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

## POINT OF CONNECTION (POC)

- THE POC IS AN EXISTING 5HP PUMP SYSTEM UTILIZING A CANAL SOURCE (SFWMD PERMIT 06-03921-W). THE POC SHALL BE CAPABLE OF SUPPLYING A MINIMUM OF 50 GPM AT 150 TDH (60 PSI AT DISCHARGE). CONTRACTOR SHALL VERIFY THESE MINIMUM CONDITIONS CAN BE MET PRIOR TO BEGINNING IRRIGATION SYSTEM INSTALLATION.
- IF THE CONDITIONS CAN NOT BE MET, THE CONTRACTOR MUST NOTIFY THE DESIGNER PRIOR TO PROCEEDING WITH THE WORK. IF THE CONTRACTOR DOES NOT DO SO, THE CONTRACTOR PROCEEDS AT THEIR OWN RISK AND BECOMES RESPONSIBLE FOR ANY FUTURE WORK REQUIRED TO MAKE THE SYSTEM PERFORM AS REQUIRED.

## PIPING

- PIPE LOCATIONS SHOWN ON THE PLAN ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD. WHEN LAYING OUT MAINLINES PLACE A MAXIMUM OF 12" AWAY FROM EITHER THE BACK OF CURB, FRONT OF WALK, BACK OF WALK, OR OTHER HARDSCAPE TO ALLOW FOR EASE IN LOCATING AND PROTECTION FROM PHYSICAL DAMAGE. INSTALL ALL LATERAL PIPE NEAR EDGES OF PAVEMENT OR AGAINST BUILDINGS WHENEVER POSSIBLE TO ALLOW SPACE FOR PLANT ROOT BALLS. ALWAYS INSTALL PIPING INSIDE PROJECT PROPERTY BOUNDARY.
- PIPES SHALL ALWAYS BE PLACED IN PLANTING BEDS. IF IT IS NECESSARY TO HAVE PIPING UNDER HARDSCAPES, SUCH AS ROADS, WALKS, AND PATIOS, THE PIPES MUST BE SLEEVED USING SCH 40 PVC WITH THE SLEEVE DIAMETER BEING TWICE THE SIZE OF THE PIPE IT IS CARRYING WITH A MINIMUM SLEEVE SIZE OF 2".
- PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. NO SUBSTITUTIONS OF SMALLER PIPE SIZES SHALL BE PERMITTED, BUT SUBSTITUTIONS OF LARGER SIZES MAY BE APPROVED. ALL DAMAGED AND REJECTED PIPE SHALL BE REMOVED FROM THE SITE AT THE TIME OF SAID REJECTION.
- PVC PIPE JOINT COMPOUND AND PRIMER: SLOW-DRYING, HEAVY DUTY CEMENT AND TINTED (PURPLE) PRIMER THAT IS COMPATIBLE WITH THE CEMENT. THE PVC CEMENT SHALL BE WELD-ON 2711 GREY AND THE PRIMER SHALL BE WELD-ON P70 PURPLE PRIMER, OR APPROVED EQUALS.
- MAIN LINE PIPE DEPTH MEASURED TO THE TOP OF PIPE SHALL BE 18" MINIMUM, 36" MINIMUM AT VEHICULAR CROSSINGS.
- LATERAL LINE DEPTHS MEASURED TO TOP OF PIPE SHALL BE 12" MINIMUM, 30" MINIMUM AT VEHICULAR CROSSINGS.

## WIRING

- IRRIGATION CONTROL WIRE SHALL BE THERMOPLASTIC SOLID COPPER, SINGLE CONDUCTOR, LOW VOLTAGE IRRIGATION CONTROLLER WIRE SUITABLE FOR DIRECT BURIAL AND CONTINUOUS OPERATION AT RATED VOLTAGES.
- TAPE AND BUNDLE CONTROL WIRES EVERY 10' AND RUN ADJACENT TO THE MAINLINE INSIDE SCHEDULE 40 PVC CONDUIT. AT ALL TURNS IN DIRECTION MAKE A 2' COIL OF WIRE USING A JUNCTION BOX. AT ALL VALVE BOXES COIL WIRE AROUND A 3/4" PIECE OF PVC PIPE TO MAKE A COIL USING 30 LINEAR INCHES OF WIRE. MAKE ELECTRICAL CONNECTIONS WITH 3M-DBY,DBR CONNECTORS.
- WIRE SIZED, NUMBERED AND COLORED AS FOLLOWS:
  - #14 COMMON - WHITE
  - #14 TWO SPARE COMMON - BLACK
  - #14 HOT WIRES - RED
  - #14 FOUR SPARE HOT WIRES - YELLOW

## LAYOUT

- LAY OUT IRRIGATION SYSTEM MAINLINES AND LATERAL LINES. MAKE THE NECESSARY ADJUSTMENTS AS REQUIRED TO TAKE INTO ACCOUNT ALL SITE OBSTRUCTIONS AND LIMITATIONS PRIOR TO EXCAVATING TRENCHES.
- STAKE ALL SPRINKLER HEAD LOCATIONS. ADJUST LOCATION AND MAKE THE NECESSARY MODIFICATIONS TO NOZZLE TYPES, ETC. REQUIRED TO ENSURE 100% HEAD TO HEAD COVERAGE. REFER TO THE EDGE OF PAVEMENT DETAIL ON THE IRRIGATION DETAIL SHEET.
- SPRAY HEADS SHALL BE INSTALLED 4" FROM SIDEWALKS OR CURBED ROADWAYS AND 12" FROM UNCURBED ROADWAYS AND BUILDING FOUNDATIONS.
- LOCATE VALVES PRIOR TO EXCAVATION. ENSURE THAT THEIR LOCATION PROVIDES FOR EASY ACCESS AND THAT THERE IS NO INTERFERENCE WITH PHYSICAL STRUCTURES, PLANTS, TREES, POLES, ETC. VALVE BOXES MUST BE PLACED A MINIMUM OF 12" AND A MAXIMUM OF 15" FROM THE EDGE OF PAVEMENT, CURBS, ETC., AND THE TOP OF THE BOX MUST BE 2" ABOVE FINISH GRADE. NO VALVE BOXES SHALL BE INSTALLED IN TURF AREAS WITHOUT APPROVAL BY THE IRRIGATION DESIGNER. ONLY IN SHRUB BEDS, NEVER INSTALL VALVE BOXES IN SPORT FIELD AREAS.

## INSTALLATION

- PIPES MUST CURE A MINIMUM OF 30 MINUTES PRIOR TO HANDLING AND PLACING INTO TRENCHES. A LONGER CURING TIME MAY BE REQUIRED; REFER TO THE MANUFACTURER'S SPECIFICATIONS. THE PIPE MUST CURE A MINIMUM OF 24 HOURS PRIOR TO FILLING WITH WATER.
- PRIOR TO THE PLACEMENT OF HEADS, FLUSH ALL LINES FOR A MINIMUM OF 10 MINUTES OR UNTIL LINES ARE COMPLETELY CLEAN OF DEBRIS, WHICHEVER IS LONGER.

## BACKFILLING

- THE BACKFILL 6" BELOW AND 6" ABOVE ALL PIPING SHALL BE CLEAN SAND. ALL OTHER TRONCH BACKFILL CAN BE NATIVE MATERIAL BUT SHALL NOT CONTAIN ANYTHING LARGER THAN 2" IN DIAMETER.
- CONTRACTOR SHALL BACKFILL ALL PIPING, BOTH MAINLINE AND LATERALS, PRIOR TO PERFORMING ANY PRESSURE TESTS. THE PIPE SHALL BE BACKFILLED WITH THE EXCEPTION OF 2' ON EACH SIDE OF EVERY JOINT (BELL FITTINGS, 90'S, TEES, 45'S, ETC.). THESE JOINTS SHALL NOT BE BACKFILLED UNTIL ALL PIPING HAS SATISFACTORILY PASSED ITS APPROPRIATE PRESSURE TEST AS OUTLINED BELOW.

## FLUSHING

- PRIOR TO THE PLACEMENT OF HEADS, FLUSH ALL LINES FOR A MINIMUM OF 10 MINUTES OR UNTIL LINES ARE COMPLETELY CLEAN OF DEBRIS, WHICHEVER IS LONGER.
- USE SCREENS IN HEADS AND ADJUST HEADS FOR PROPER COVERAGE AVOIDING EXCESS WATER ON WALLS, WALKS AND PAVING.

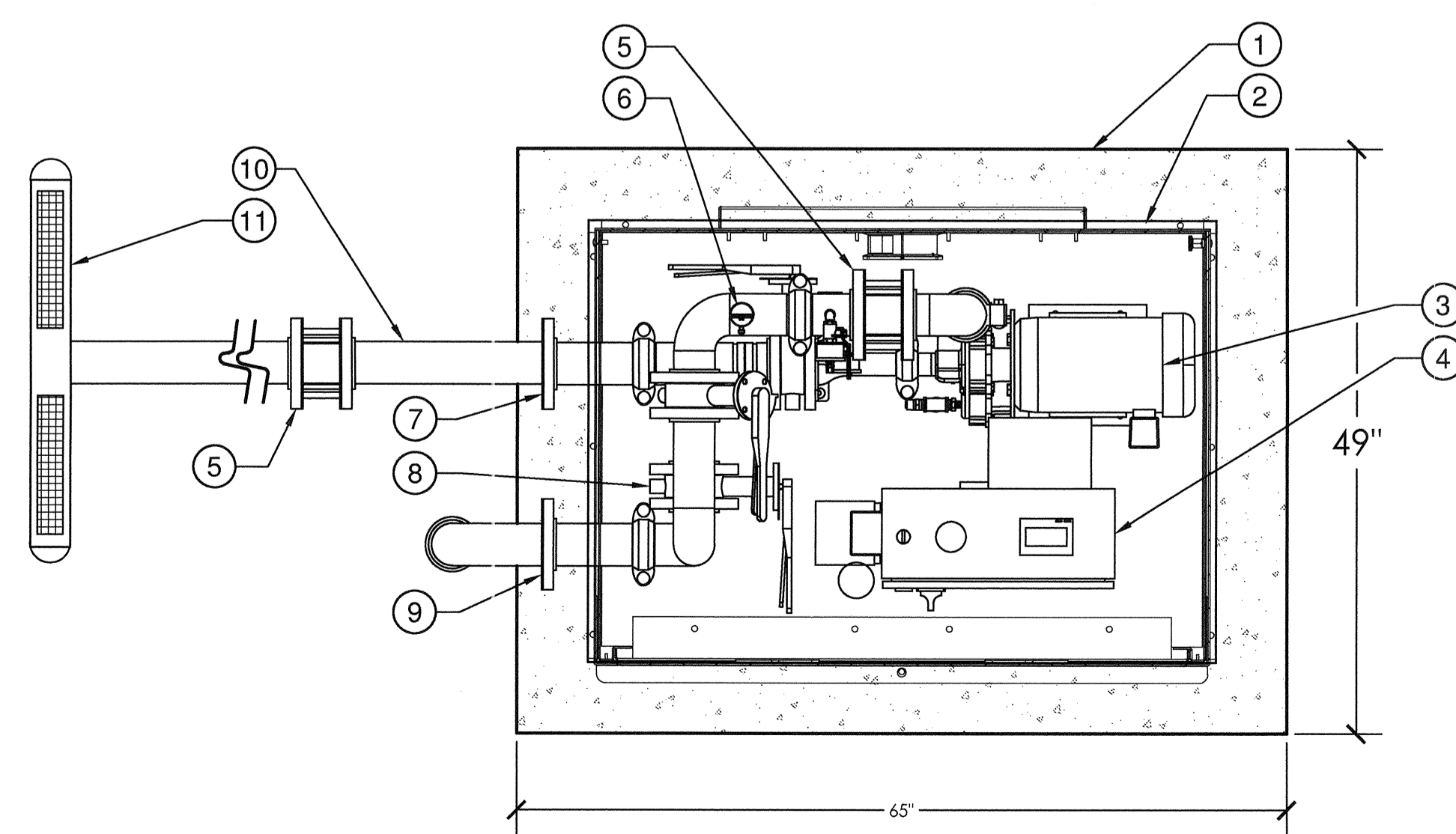
## SUBMITTALS

- THE CONTRACTOR MUST SUBMIT FOR APPROVAL, PRIOR TO INSTALLATION, COPIES OF THE MANUFACTURER'S CUT SHEETS/SPECIFICATIONS FOR ALL COMPONENTS TO BE USED IN THE IRRIGATION SYSTEM.
- AFTER PROJECT COMPLETION, AND AS A CONDITION OF FINAL ACCEPTANCE, THE IRRIGATION CONTRACTOR SHALL PROVIDE THE OWNER WITH A HIGH QUALITY, ACCURATE, AND LEGIBLE SET OF AS-BUILT DRAWINGS. THE AS-BUILTS MUST IDENTIFY ALL REMOTE CONTROL VALVES, GATE VALVES, BALL VALVES, SPLICE BOXES, CONTROLLERS, MAINLINE, SLEEVING, AND LOW VOLTAGE WIRING. EACH OF THESE ITEMS IS SHALL LOCATED USING A SUBMETER GPS SYSTEM. THE IRRIGATION CONTRACTOR MUST ALSO PROVIDE ACCURATE, INFORMATIVE, AND EASY TO FOLLOW AND UNDERSTAND OPERATION AND MAINTENANCE MANUALS FOR ALL COMPONENTS OF THE IRRIGATION SYSTEM.
- CONTROLLER CHARTS - UPON COMPLETION OF "AS-BUILTS", CONTRACTOR SHALL PREPARE CONTROLLER CHARTS AT ONE PER CONTROLLER. INDICATE ON EACH CHART THE AREA CONTROLLED BY A REMOTE CONTROL VALVE (USING A DIFFERENT COLOR FOR EACH ZONE). THIS CHART SHALL BE REDUCED TO A SIZE THAT WILL FIT INSIDE OF THE CONTROLLER DOOR. THE REDUCTION SHALL BE HERMETICALLY SEALED INSIDE TWO 2ML PIECES OF CLEAR PLASTIC.

## FINAL ACCEPTANCE

- FINAL ACCEPTANCE OF THE IRRIGATION SYSTEM WILL BE GIVEN AFTER THE FOLLOWING DOCUMENTS AND CONDITIONS HAVE BEEN COMPLETED AND APPROVED. FINAL PAYMENT WILL NOT BE RELEASED UNTIL THESE CONDITIONS ARE SATISFIED:
  - FINAL WALK-THRU AND CORRECTION OF ALL PUNCH LIST ITEMS.
  - COMPLETION AND ACCEPTANCE OF "AS-BUILT" DRAWINGS.
  - ACCEPTANCE OF REQUIRED CONTROLLER CHARTS AND PLACEMENT INSIDE OF CONTROLLERS.
  - TURNOVER OF ALL REQUIRED PARTS AND TOOLS AS OUTLINED IN THE PROJECT SPECIFICATIONS.
- GUARANTEE: THE IRRIGATION SYSTEMS SHALL BE GUARANTEED FOR A MINIMUM OF ONE CALENDAR YEAR FROM THE TIME OF FINAL ACCEPTANCE.

CENTRIFUGAL PUMP SYSTEM PLAN



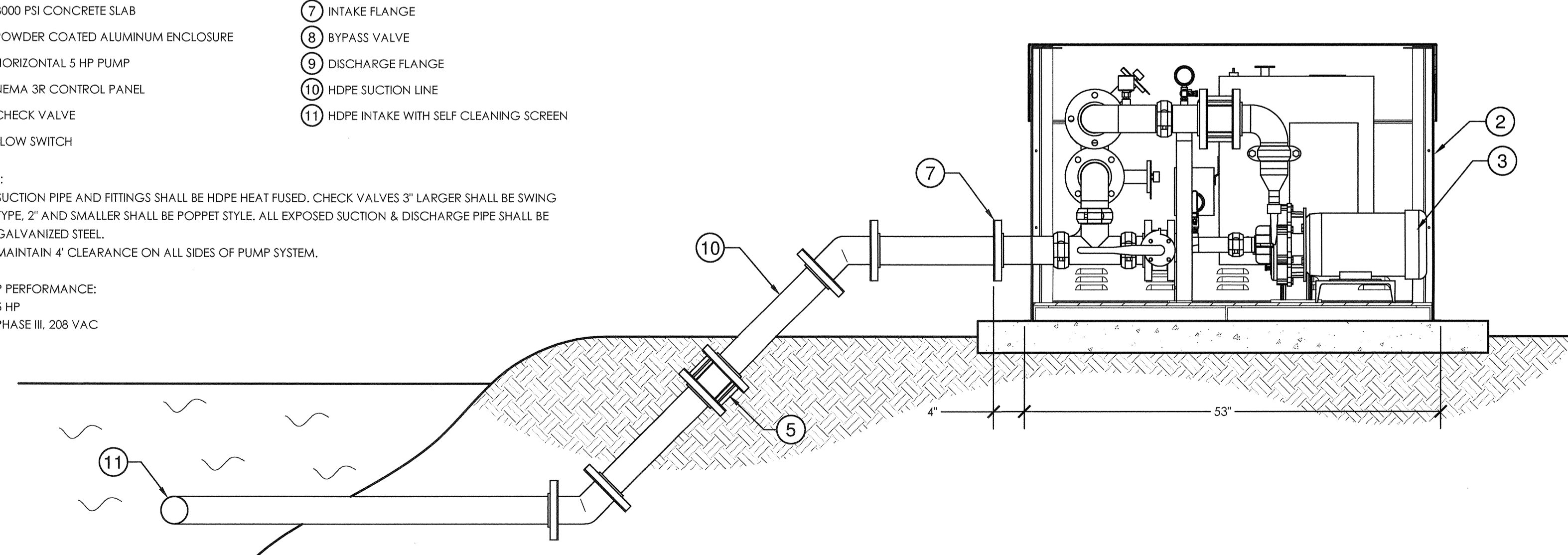
- ① 3000 PSI CONCRETE SLAB
- ② POWDER COATED ALUMINUM ENCLOSURE
- ③ HORIZONTAL 5 HP PUMP
- ④ NEMA 3R CONTROL PANEL
- ⑤ CHECK VALVE
- ⑥ FLOW SWITCH
- ⑦ INTAKE FLANGE
- ⑧ BYPASS VALVE
- ⑨ DISCHARGE FLANGE
- ⑩ HDPE SUCTION LINE
- ⑪ HDPE INTAKE WITH SELF CLEANING SCREEN

### NOTE:

- SUCTION PIPE AND FITTINGS SHALL BE HDPE HEAT FUSED. CHECK VALVES 3" LARGER SHALL BE SWING TYPE. 2" AND SMALLER SHALL BE POPPET STYLE. ALL EXPOSED SUCTION & DISCHARGE PIPE SHALL BE GALVANIZED STEEL.
- MAINTAIN 4" CLEARANCE ON ALL SIDES OF PUMP SYSTEM.

PUMP PERFORMANCE:  
 • 5 HP  
 • PHASE III, 208 VAC

CENTRIFUGAL PUMP SYSTEM ELEVATION



## 5 HP CENTRIFUGAL SURFACE WATER PUMP SYSTEM

1" = 1'-0"

32 8409.56-08



NO. REVISION	DATE
2-7-14	Site Plan Submittal
3-17-14	DRC Comments
4-10-14	50% CD Set
4-17-14	DRC Comments #2

CONSULTANT:



CERTIFICATES OF AUTHORIZATION  
 EB0004593 LC24000425

PROPOSED NEW FIRE STATION 50  
 NW 45 AVE.  
 NW 45 AVE. & COCONUT CREEK PARKWAY  
 COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.  
 4516 WEST BROWARD BOULEVARD  
 FORT LAUDERDALE, FLORIDA 33309  
 PHONE: (954) 792-8833 FAX: (954) 337-0359  
 AA 125600685 WWW.CPZARCHITECTS.COM



DRAWING TITLE:  
 IRRIGATION  
 SPECIFICATIONS

DRAWN	EDH
CHECKED	MSB
DATE	4-23-14
SCALE	AS NOTED
PROJECT NO.	1220B
SHEET:	

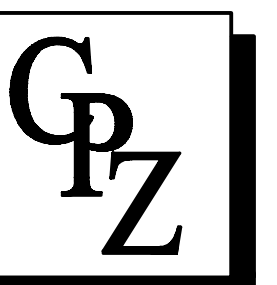
L3.03

CONSULTANT:

PROPOSED NEW FIRE STATION 50  
 NW 43 AVE.  
 NW 43 AVE & COCONUT CREEK PARKWAY  
 COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.

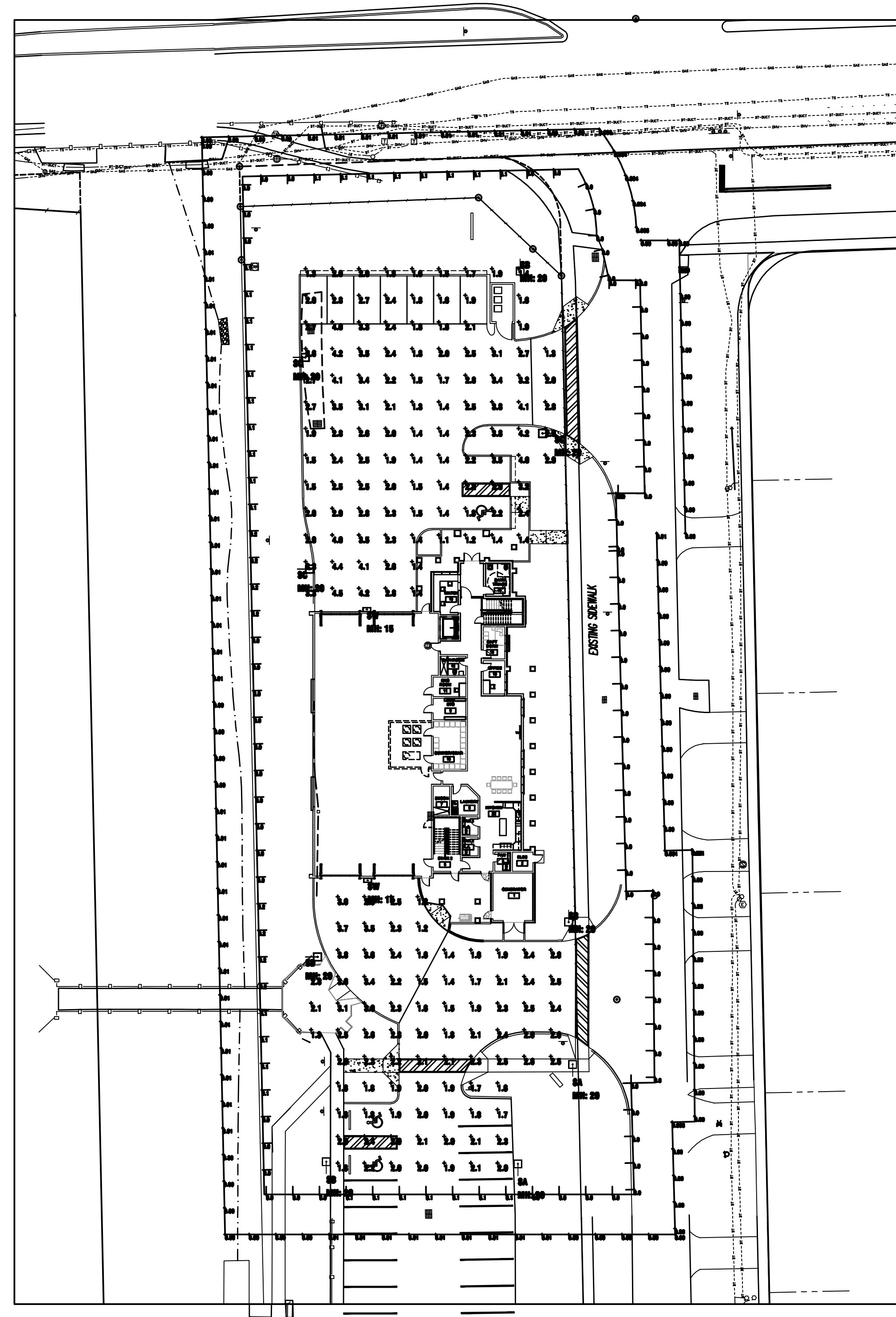
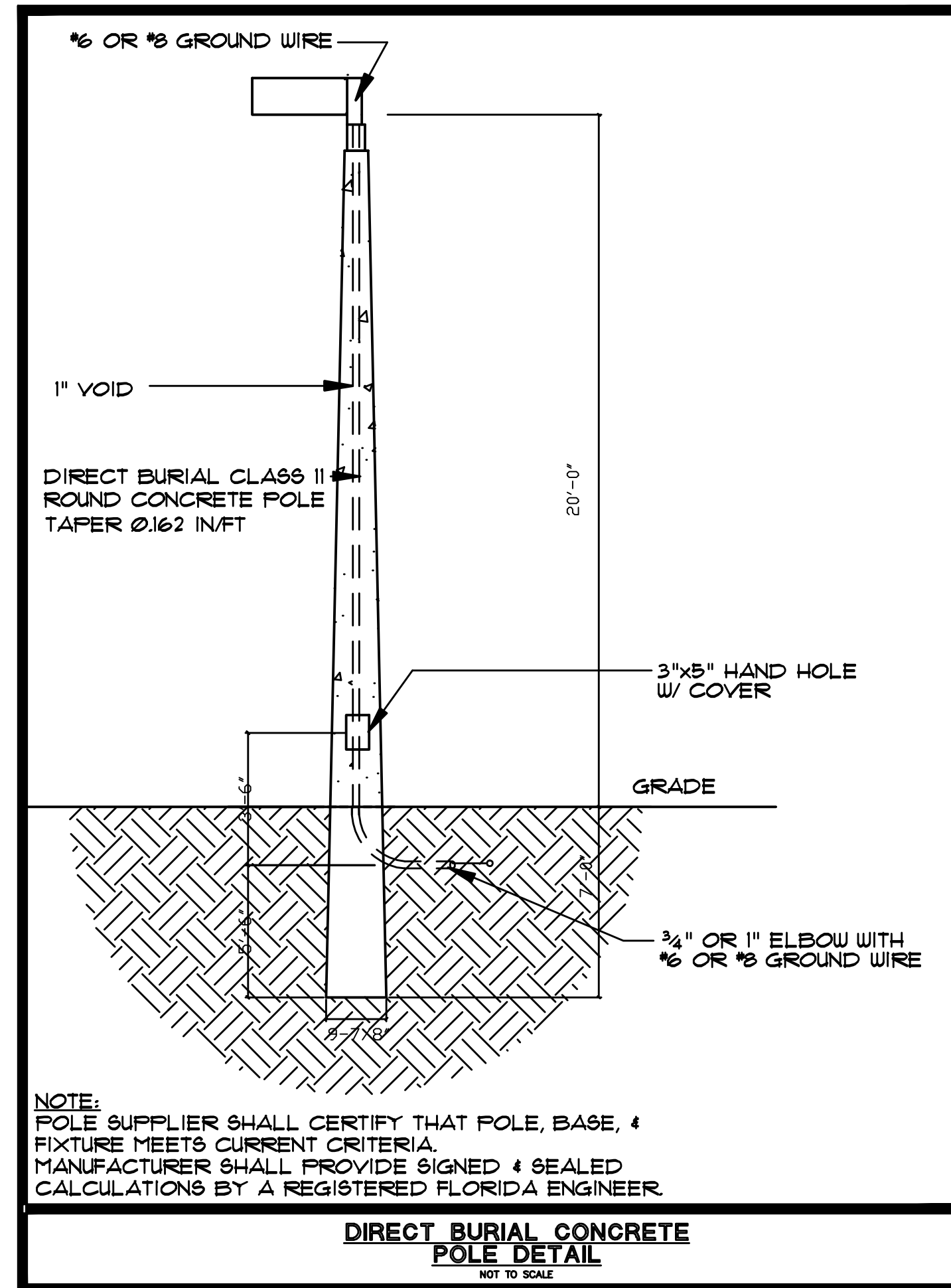
416 WEST BROWARD BOULEVARD  
 PLANTATION, FLORIDA 33317  
 PHONE: (954) 793-8325 FAX: (954) 337-6859  
 A/E 02/08/08 WWW.CPZARCHITECTS.COM



DRAWING TITLE:  
 LEED SITE  
 PHOTOMETRIC PLAN

DRAWN -  
 CHECKED CPZ  
 DATE -  
 SCALE AS NOTED  
 PROJECT NO. 1220B  
 SHEET:

E1.1



Landmark Schedule

Project: FIRE STATION 500 NW 43 AVE AND COCONUT CREEK PARKWAY COCONUT CREEK, FL 33408 REV 1 5-10-09

Symbol	Qty	Label	Description	Lot Number	LF	Lot Width	Total Width	LEED/Long-FL	LEED/Long-OR
□	1	01	PHILIPS MANNING P21-45-100L-01P POLE HEIGHT: 30'-0" JWP	5001	1,000	100	100	0.0	0.0
□	1	02	PHILIPS MANNING P21-45-100L-02P POLE HEIGHT: 30'-0" JWP	5001	1,000	100	100	0.0	0.0
□	1	03	PHILIPS MANNING P20-45-100L-03P POLE HEIGHT: 30'-0" JWP	5002	1,000	200	200	0.0	0.0
□	1	04	PHILIPS MANNING P20-45-100L-04P POLE HEIGHT: 30'-0" JWP	5002	1,000	170	170	0.0	0.0
□	1	05	PHILIPS MANNING 121-A-100L-01P WALL HEIGHT: 10'-0" JWP	5000	1,000	10	10	0.0	0.0

Material Summary

Project: FIRE STATION 500 NW 43 AVE AND COCONUT CREEK PARKWAY COCONUT CREEK, FL 33408 REV 1 5-10-09

Label	Qty	Wt	Vol	Height	Depth
ROOF PAVEMENT	2.00	4.5	1.1	2.51	4.00
DRIVE PAVEMENT	2.21	2.0	1.0	1.06	0.17
LEED	N/A	0.000	N/A	N/A	N/A
LEED V-01	N/A	0.000	N/A	N/A	N/A

LPI Area Summary

Project: FIRE STATION 500 NW 43 AVE AND COCONUT CREEK PARKWAY COCONUT CREEK, FL 33408 REV 1 5-10-09

Label	Area	Total Width	LPI
LPI Area	100127	1400	0.014

SITE PHOTOMETRIC PLAN



1/32"=1'-0" NORTH

ISSUED FOR RMC 02/04/14

KAMM CONSULTING PROJECT #: 2013-001  
 PROJECT MANAGER: JOHN MAXX

**KAMM** Consulting  
 1400 Orange Avenue  
 West Palm Beach, Florida 33409  
 Phone: 772.333.1744 Fax: 772.395.1745  
 www.kammconsulting.com  
 Construction of Architecture #110

PRINCIPAL: Brady L. Brown Florida License #58212  
 DATE: 02-17-14  
 SIGNATURE: [Signature]

CONSULTANT:

PROPOSED NEW FIRE STATION 50  
 NW 43 AVE.  
 NW 43 AVE & COCONUT CREEK PARKWAY  
 COCONUT CREEK, FLORIDA

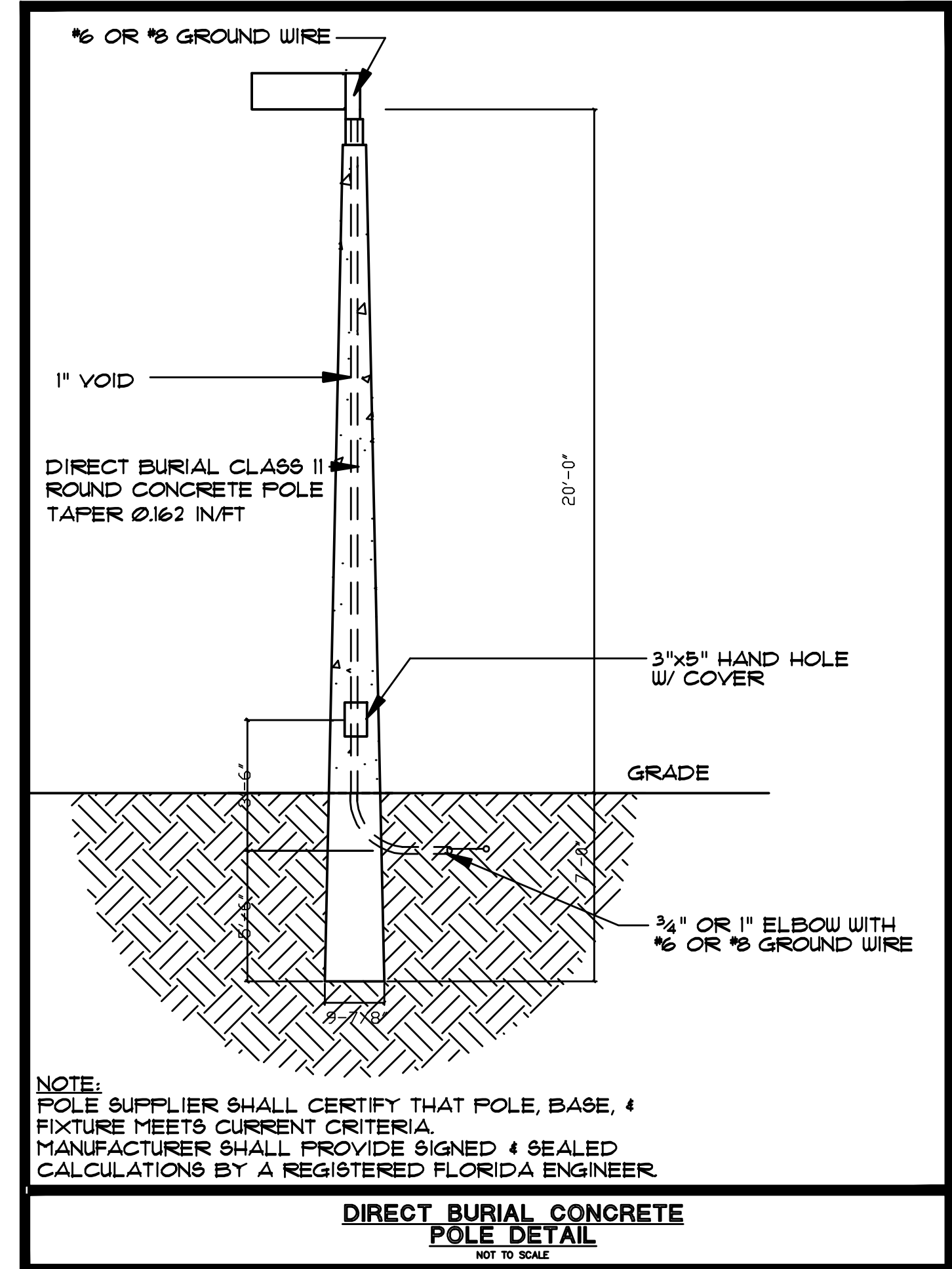
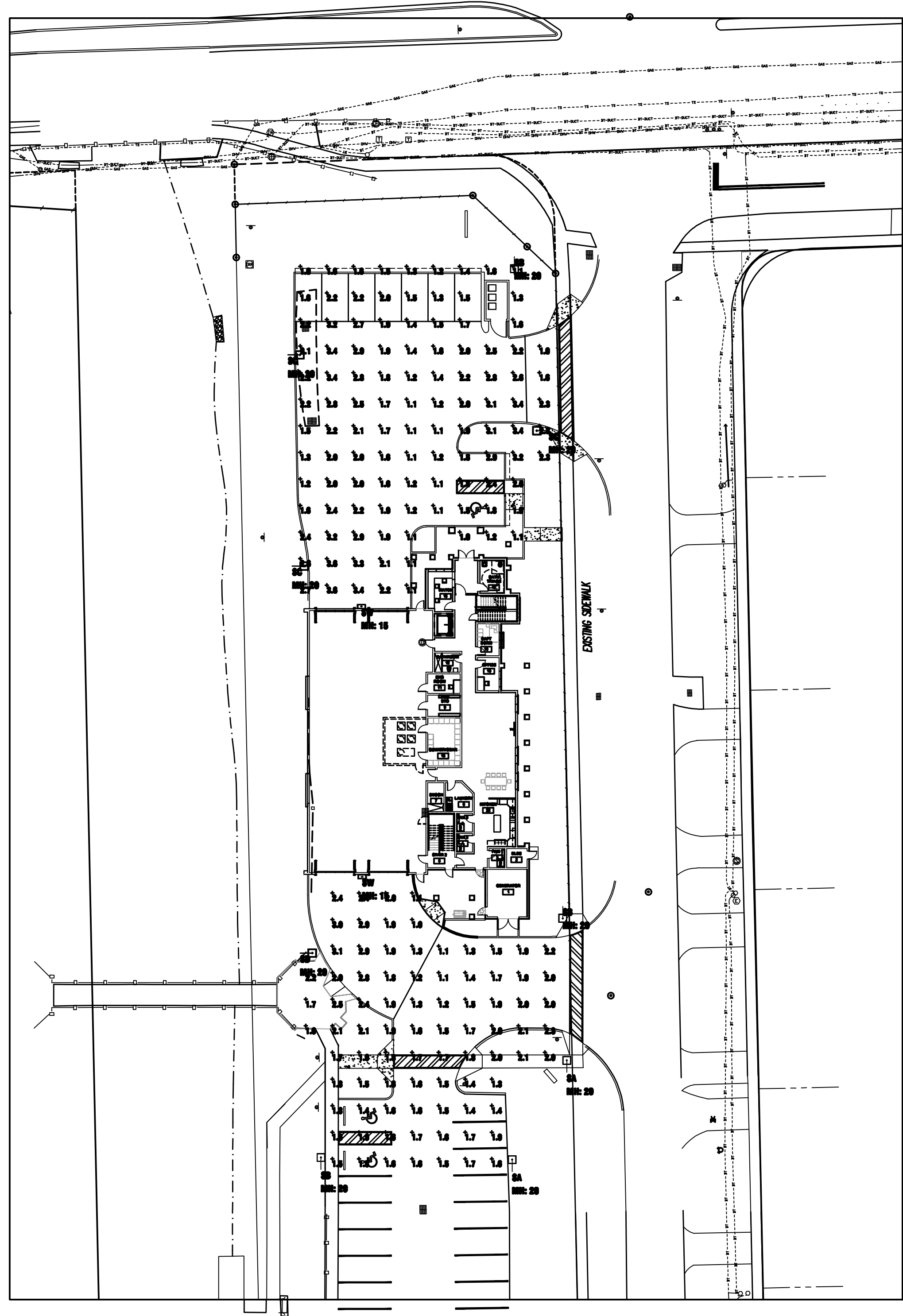
CPZ ARCHITECTS, INC.  
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 A/E 0000008 WWW.CPZARCHITECTS.COM



DRAWING TITLE:  
 SITE  
 PHOTOMETRIC PLAN

DRAWN -  
 CHECKED CPZ  
 DATE -  
 SCALE AS NOTED  
 PROJECT NO. 1220B  
 SHEET:

E1.2



Quantity Schedule

Project: FIRE STATION 490 HW 43 AVE AND COCONUT CREEK PARKWAY COCONUT CREEK, FL. DATE REV 1 3-10-2014

Quantity	Qty	Label	Description	Item Name	L10	L50	L10	L50	Total White	Total Yellow
2	01		PHILIPS HANDBO P01-430-100L3-01V POLE GROUP: SP - P' 470	0044	0.000	0.000	0.010	100	200	
2	02		PHILIPS HANDBO P01-430-100L3-01V POLE GROUP: SP - P' 470	0044	0.000	0.000	0.010	100	200	
2	03		PHILIPS HANDBO P00-610-CYLA-000-000 POLE GROUP: SP - P' 470	0040	0.000	0.000	0.010	210	000	
1	04		PHILIPS HANDBO P00-610-CYLA-000-000 POLE GROUP: SP - P' 470	0700	0.000	0.000	0.010	170	170	
2	05		PHILIPS HANDBO 121-4-10L3-01V WALL GROUP: 10' - P' 470	1040	0.000	0.000	0.010	10	20	

Photometric Summary

Project: FIRE STATION 490 HW 43 AVE AND COCONUT CREEK PARKWAY COCONUT CREEK, FL. DATE REV 1 3-10-2014

Label	Area	Min	Max	Avg/Min	Max/Min
WHITE PAVEMENT	1.07	0.0	1.0	1.07	0.00
GRASS PAVEMENT	1.70	0.1	1.0	1.70	0.10

LFD Area Summary

Project: FIRE STATION 490 HW 43 AVE AND COCONUT CREEK PARKWAY COCONUT CREEK, FL. DATE REV 1 3-10-2014

Label	Area	Total White	LFD
LFD Area	100127	1400	0.014

SITE PHOTOMETRIC PLAN



ISSUED FOR TMO 02/01/14

KAMM CONSULTING PROJECT #: 2013-001  
 PROJECT MANAGER: JOHN MAYER

**KAMM** Consulting  
 1400 Orange Avenue  
 West Palm Beach, Florida 33409  
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 www.kammconsulting.com  
 Construction of Architecture #1110

PRINCIPAL: Ready L. Brown Florida License #58232  
 DATE: 03-17-14  
 DRAWN BY: dms