VERTICAL DATUM: NAVD 88

SITE & DEVELOPMENT PLANS FOR

SARASOTA COUNTY - VENICE LIBRARY

300 NOKOMIS AVENUE, 326 NOKOMIS AVENUE & 390 NOKOMIS AVENUE

CITY OF VENICE, SARASOTA COUNTY, FLORIDA

PARCEL ID: 0408130012

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A Full Service A & E Firm
Plans Prepared By:
CPH, Inc.
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Sarasota, FL 34237
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DEVELOPER
SARASOTA COUNTY
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SARASOTA COUNTY ENVIRONMENTAL PROTECTION & LANDSCAPE
PLANNING AND DEVELOPMENT SERVICES
ENVIRONMENTAL PROTECTION DEPARTMENT
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SOUTH DISTRICT
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FORT MYERS, FLORIDA 33901
(239) 344-5600

WATER MANAGEMENT DISTRICT
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
6750 FRUITVILLE RD.
SARASOTA, FLORIDA 34240
(941) 377-3722

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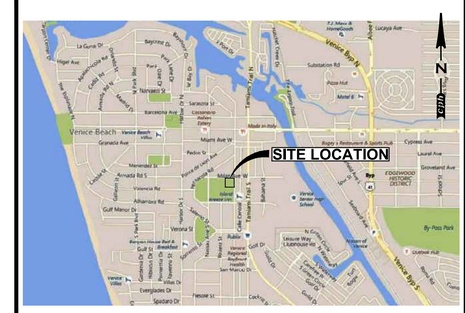
MAPS



VICINITY MAP
1" = 2,000'
SARASOTA COUNTY, FLORIDA
SECTION 7 - TOWNSHIP 39 SOUTH - RANGE 19 EAST

LOCATION MAP
1" = 300'
SARASOTA COUNTY, FLORIDA
SECTION 7 - TOWNSHIP 39 SOUTH - RANGE 19 EAST

NOTICE
THE SIZE OF THESE PLANS MAY HAVE BEEN SLIGHTLY ALTERED BY REPRODUCTION PROCESSES. THIS MUST BE CONSIDERED WHEN SCALING ANY REPRODUCED PLANS FOR THE PURPOSE OF COLLECTING DATA.

No.	Date	Revision
4		
3		
2		
1		
5	5/19/17	RESUBMIT TO THE CITY OF VENICE
4	5/05/17	RESUBMIT TO THE CITY OF VENICE
3	4/20/17	RESUBMIT TO THE CITY OF VENICE

Designed: K. Upp
Drawn: K. Upp
Checked: D. Moyer
Scale: As Noted
Job No.: S29701
Date: 12/16

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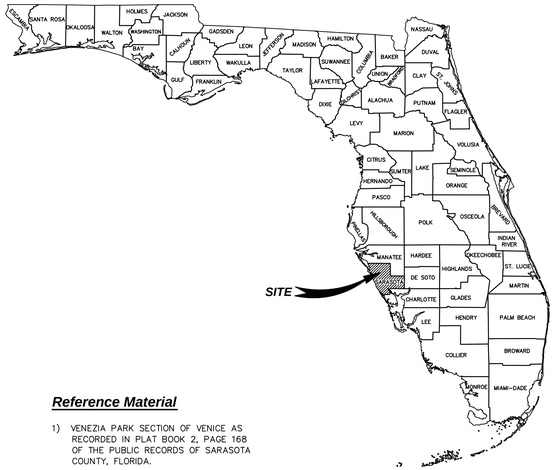
COVER SHEET

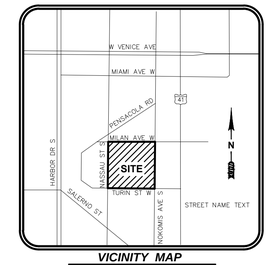
SARASOTA COUNTY - VENICE LIBRARY
CITY OF VENICE / SARASOTA COUNTY / FLORIDA

Sheet No.
C0.1

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND.

BOUNDARY & TOPOGRAPHIC SURVEY
FOR
SARASOTA COUNTY - VENICE LIBRARY
AT
300 NOKOMIS AVENUE, 326 NOKOMIS AVENUE & 390 NOKOMIS AVENUE
LYING IN
SECTION 07-TOWNSHIP 39 SOUTH-RANGE 19 EAST
SARASOTA COUNTY, FLORIDA





VICINITY MAP
NOT TO SCALE

Reference Material

1) VENEZIA PARK SECTION OF VENICE AS RECORDED IN PLAT BOOK 2, PAGE 168 OF THE PUBLIC RECORDS OF SARASOTA COUNTY, FLORIDA.

2) VACATED RIGHT-OF-WAY OF RIVIERA STREET PER INSTRUMENT NUMBER 206143527 OF THE PUBLIC RECORDS OF SARASOTA COUNTY, FLORIDA.

Legal Description:

BLOCK 88-A RESERVED, VENEZIA PARK SECTION OF VENICE AS RECORDED IN PLAT BOOK 2, PAGE 168 OF THE PUBLIC RECORDS OF SARASOTA COUNTY, FLORIDA.

CONTAINING 204,750 SQUARE FEET or 4.70 ACRES MORE OR LESS.

AND

BLOCK 91-A RESERVED, VENEZIA PARK SECTION OF VENICE AS RECORDED IN PLAT BOOK 2, PAGE 168 OF THE PUBLIC RECORDS OF SARASOTA COUNTY, FLORIDA.

CONTAINING 201,500 SQUARE FEET or 4.62 ACRES MORE OR LESS.

AND

1 A PARCEL OR TRACT OF LAND BEING A PORTION OF RIVIERA STREET (60.00 FOOT RIGHT-OF-WAY), VENICE VENEZIA PARK SECTION, AS PER PLAT THEREOF AS RECORDED IN PLAT BOOK 2, PAGE 168, OF THE PUBLIC RECORDS OF SARASOTA COUNTY, FLORIDA.

SAID LANDS BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE POINT OF BEGINNING BEING THE SOUTHWEST CORNER OF BLOCK 88-A, AS SHOWN ON SAID PLAT, THENCE WEST ALONG THE NORTH RIGHT-OF-WAY LINE OF TURIN STREET (60 FOOT RIGHT-OF-WAY) A DISTANCE OF 60.00 FEET TO THE SOUTHEAST CORNER OF BLOCK 91-A, AS SHOWN ON SAID PLAT; THENCE NORTH ALONG THE WEST RIGHT-OF-WAY LINE OF SAID RIVIERA STREET, A DISTANCE OF 650.00 FEET TO THE SOUTH RIGHT-OF-WAY LINE OF MILAN STREET (60 FOOT RIGHT-OF-WAY); THENCE EAST ALONG SAID SOUTH RIGHT-OF-WAY LINE A DISTANCE OF 60.00 FEET TO THE EAST RIGHT-OF-WAY LINE OF SAID RIVIERA STREET; THENCE SOUTH ALONG SAID EAST RIGHT-OF-WAY LINE A DISTANCE OF 650.00 FEET TO THE POINT OF BEGINNING.

SAID LANDS CONTAINING 39,000 SQUARE FEET or 0.90 ACRE MORE OR LESS.

OVERALL SITE AREA TOTALS = 445,250 SQUARE FEET or 10.22 ACRES MORE OR LESS.

Survey Notes:

1. COPIES OF THIS SURVEY ARE NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
2. "ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES."
3. THE SITE BENCHMARKS FOR THIS TOPOGRAPHIC SURVEY ARE DISPLAYED ON THE RESPECTIVE SURVEY FILE. THESE BENCHMARKS ARE BASED ON A CLOSED VERTICAL CONTROL LOOP HAVING AN ACTUAL ERROR OF CLOSURE OF 0.01' WHICH MEETS THE ALLOWABLE CLOSURE OF 0.037'. THIS FIELDWORK WAS PERFORMED USING TOPCON LEVEL MODEL #AT-G4 AND REFERENCES THE FOLLOWING PUBLISHED BENCHMARKS AS ESTABLISHED BY THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88) AND SAID ELEVATIONS ARE BASED ON VERTICAL CONTROL BENCHMARKS SUPPLIED BY FDOT DISTRICT ONE VERTICAL CONTROL DATA SHEETS AS FOLLOWS:
   a) DESIGNATION #BM 15, STANDARD 4"x4" FDOT CM WITH BRASS DISK NOT STAMPED. NAVD '88 ELEVATION = 13.397
   b) DESIGNATION #BM 222, STANDARD 4"x4" FDOT CM WITH BRASS DISK NOT STAMPED. NAVD '88 ELEVATION = 11.369

   SITE BENCHMARKS ARE AS SHOWN ON SHEET 3 OF 4.
4. THIS SURVEY IS NOT VALID WITHOUT SHEETS 1 THROUGH 4 OF 4.
5. THE LAST DAY FIELD WORK WAS PERFORMED WAS 10/13/16; ALL BOUNDARY CORNERS WERE RECOVERED OR SET AS NOTED HEREON.
6. THE "LEGAL DESCRIPTION" HEREON IS IN ACCORD WITH THE SARASOTA COUNTY PROPERTY APPRAISER OFFICE.
7. BEARINGS SHOWN HEREON ARE RELATIVE TO THE LINE BETWEEN THE TWO STATE PLANE CONTROL POINTS LISTED IN NOTE 16, HAVING A CALCULATED BEARING OF N 05°07'15" W (SEE SHEET 2 OF 4 FOR DETAIL).
8. HAVING CONSULTED THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NO. 125154-0005-D REVISED DATE MAY 18, 1992, THE SUBJECT PROPERTY APPEARS TO LIE IN ZONE C, WHICH ARE AREAS OF MINIMAL FLOODING (NO SHADING). THIS DETERMINATION WAS BASED ON A GRAPHIC INTERPOLATION OF SAID MAP AND NOT ON ACTUAL FIELD MEASUREMENTS.
9. THE APPARENT USE OF THE LAND, AS CLASSIFIED BY THE STANDARDS OF PRACTICE SET FORTH IN RULE CHAPTER 5J-17 OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO FS 472.027, ESTABLISHES THAT THE MINIMUM RELATIVE ACCURACY FOR THIS TYPE OF BOUNDARY SURVEY MEET THE HORIZONTAL CONTROL ACCURACY OF 1'/10,000 FEET FOR A HIGH RISK SURVEY. THE MEASUREMENTS AND CALCULATIONS OF THE CLOSED GEOMETRIC FIGURES WERE FOUND TO MEET THIS ACCURACY REQUIREMENT. THE EQUIPMENT USED TO VERIFY THE HORIZONTAL CONTROL ON THE SUBJECT SURVEY WAS A TOPCON GPS HIPER II.
10. HORIZONTAL WELL-IDENTIFIED FEATURES IN THIS SURVEY AND MAP HAVE BEEN MEASURED TO AN ESTIMATED HORIZONTAL POSITIONAL ACCURACY OF 0.05 (FT). THE EQUIPMENT USED TO LOCATE THE FEATURES WAS A LEICA SCANSTATION P30 AND A TOPCON GPS HIPER II.
11. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OR OPINION OF TITLE. NO INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHTS-OF-WAY, AND/OR OWNERSHIP WERE FURNISHED TO THIS SURVEYOR EXCEPT AS NOTED.
12. NO UNDERGROUND UTILITIES, FOUNDATIONS OR IMPROVEMENTS, IF ANY, HAVE BEEN LOCATED EXCEPT AS SHOWN.
13. THIS SURVEY DOES NOT IDENTIFY THE LIMITS OR EXTENT OF POTENTIAL JURISDICTIONAL WETLAND BOUNDARIES.
14. FENCES EXISTING ON, OVER OR ADJACENT TO SUBJECT PROPERTY, ARE DISPLAYED HEREON; OWNERSHIP WHETHER SINGULAR OR JOINT WAS NOT DETERMINED BY THIS SURVEY.
15. VERTICAL FEATURE ACCURACY: "ELEVATIONS OF WELL-IDENTIFIED FEATURES CONTAINED IN THIS SURVEY AND MAP HAVE BEEN MEASURED TO AN ESTIMATED VERTICAL POSITIONAL ACCURACY OF 0.05 (FT)."
16. STATE PLANE INFORMATION SHOWN HEREON IS BASED ON THE NORTH AMERICAN DATUM OF 1983 (1990) USING CONTROL POINTS FROM FDOT DISTRICT ONE VERTICAL CONTROL DATA SHEETS AND ARE AS FOLLOWS:
   a) DESIGNATION # BM 15 = N 1,004,303 FEET, E 511,665 FEET
   b) DESIGNATION # BM 222 = N 1,005,422 FEET, E 511,569 FEET

   THE EQUIPMENT USED TO TRANSFER THE STATE PLANE INFORMATION FROM THE ABOVE REFERENCED CONTROL POINTS TO THE SUBJECT SURVEY WAS A TOPCON GPS HIPER II.
17. DIMENSIONS ARE SHOWN RELATIVE TO UNITED STATES STANDARD FEET AND DECIMALS THEREOF, UNLESS THE OBJECT SHOWN IS COMMONLY IDENTIFIED IN INCHES, I.E. TREE DIAMETER, PIPE DIAMETER, ETC. TREES DEPICTED ARE MEASURED AND LABELED AS DIAMETER AT BREAST HEIGHT IN INCHES.
18. THE UNDERGROUND UTILITIES DEPICTED BY PIPE LINETYPES ARE APPROXIMATE IN NATURE BASED UPON AN INSPECTION OF THE MANHOLE, GRATE, ETC. OF EACH FACILITY. EXISTING PIPES WERE NOT LAMPED OR REMOTELY VIEWED FOR DIRECTION, OBSTRUCTIONS OR CONNECTIVITY.
19. TREE SIZE (DIAMETER AS MEASURED IN INCHES AT BREAST HEIGHT), COMMON NAME, SPECIES, CONDITION, AND NOTATIONS OF THE TREES LISTED HEREON WERE FURNISHED TO THE SURVEYOR BY CPH, INC. ENVIRONMENTAL DEPARTMENT ARBORIST. SEE SHEET 4 OF 4 FOR TREE LOCATIONS FOR SPECIFIC NUMBERED TREES.

Abbreviation Legend:

(A) – ACTUAL
A/C – AIR CONDITIONER
ACSM – AMERICAN CONGRESS ON SURVEYING & MAPPING
ADA – AMERICANS WITH DISABILITIES ACT
ALTA – AMERICAN LAND TITLE ASSOCIATION
APPROX – APPROXIMATE
ARV – AIR RELEASE VALVE
AVE – AVENUE
AVG – AVERAGE
(BB) – BEARING BASIS
BFP – BACK FLOW PREVENTER
BLK – BLOCK
BLDG – BUILDING
BLVD – BOULEVARD
BM – BENCH MARK
BOC – BACK OF CURB
BOW – BACK OF WALK
BSL – BUILDING SETBACK LINE
BWF – BARBED WIRE FENCE
C-X – DENOTES SHEET NUMBERING FOR ENGINEERING PLANS
(C) – CALCULATED
C – CHORD
CATV – CABLE TELEVISION RISER
CB – CHORD BEARING
CBS – CONCRETE BLOCK STRUCTURE
C.A.R. – CERTIFIED CORNER RECORD
C&G – CURB & GUTTER
CI – CATCH INLET
C/L – CENTERLINE
CLF – CHAIN LINK FENCE
CM – CONCRETE MONUMENT
CMP – CORRUGATED METAL PIPE
CO – CLEANOUT
CONC – CONCRETE
COR – CORNER
CRPP – CORRUGATED PLASTIC PIPE
CUE – COUNTY UTILITY EASEMENT
CWS – CROSSWALK SIGNAL
Δ – DELTA
(D) – DESCRIPTION
DB – DEED BOOK
DBH – DIAMETER AT BREAST HEIGHT IN INCHES
DE – DRAINAGE EASEMENT
DEPT – DEPARTMENT
DIP – DUCTILE IRON PIPE
DR – DRIVE
D/U – DRAINAGE AND UTILITY EASEMENT
(E) – ENGINEERING PLAN
EJB – ELECTRIC JUNCTION BOX
EL – UNDERGROUND ELECTRICAL LINES
ELEC – ELECTRIC
ELEV – ELEVATION
ELLIP – ELLIPTICAL
EOI – END OF INFORMATION
EOP – EDGE OF PAVEMENT
FB – FIELD BOOK
FDOT – FLORIDA DEPARTMENT OF TRANSPORTATION
FF – FINISH FLOOR
FGI – FLAT GRATE INLET
FGLP – FIBERGLASS LIGHT POLE
FHYD – FIRE HYDRANT
FM – FORCE MAIN
FND – FOUND
FP&L – FLORIDA POWER AND LIGHT
FS – FLORIDA STATUTES
(G) – GRID (STATE PLANE)
GL – UNDERGROUND GAS LINES
GOV'T – GOVERNMENT
GPR – GROUND PENETRATING RADAR
GTMH – GREASE TRAP MANHOLE
HDPE – HIGH DENSITY POLYETHYLENE PIPE
HWF – HOG WIRE FENCE
ID – IDENTIFICATION
ICV – IRRIGATION CONTROL VALVE
INFO – INFORMATION
INST – INSTRUMENT
INV – INVERT
IP – IRON PIPE
IP&C – IRON PIPE & CAP
IR – IRON ROD
IR&C – IRON REBAR & CAP
IRR – IRRIGATION
L – ARC LENGTH
LB# – LICENSED BUSINESS NUMBER
LP – LIGHT POLE
(M) – MEASURED
MB – MAP BOOK
MBX – MAILBOX
MES – MITERED END SECTION
MH – MANHOLE
MLP – METAL LIGHT POLE
MPH – MILES PER HOUR
MPP – METAL POWER POLE
N/A – NOT APPLICABLE
NAVD – NORTH AMERICAN VERTICAL DATUM
NAD – NORTH AMERICAN DATUM
NG – NATURAL GROUND
NGS – NATIONAL GEODETIC SURVEY
NGVD – NATIONAL GEODETIC VERTICAL DATUM
N & D – NAIL AND DISK
NO. – NUMBER
NR – NON-RADIAL
NSPS – NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS
NT – NON-TANGENT
NTS – NOT TO SCALE
OD – OUTSIDE DIAMETER
ORB – OFFICIAL RECORDS BOOK
OR – OFFICIAL RECORDS
OUL – OVERHEAD UTILITY LINES
OTL – OVERHEAD TRAFFIC LINES
(P) – PLAT
PB – PLAT BOOK
PC – POINT OF CURVATURE
PCC – POINT OF COMPOUND CURVATURE
PCP – PERMANENT CONTROL POINT
PFF – PROPOSED FINISHED FLOOR
PG – PAGE
PGS – PAGES
PI – POINT OF INTERSECTION
PIV – POST INDICATOR VALVE
PK – PARKER KAYLON
POB – POINT OF BEGINNING
POC – POINT OF COMMENCEMENT
POL – POINT ON LINE
PP – POWER POLE
PRC – POINT OF REVERSE CURVATURE
PRM – PERMANENT REFERENCE MONUMENT
PSM – PROFESSIONAL SURVEYOR & MAPPER
PT – POINT OF TANGENCY
PVC – POLYVINYL CHLORIDE PIPE
PVMT – PAVEMENT
R19E – RANGE 19 EAST
R – RADIUS
RAD – RADIAL
RCP – REINFORCED CONCRETE PIPE
REC – RECOVERED
REV – REVISION
RP – RADIUS POINT
R/W – RIGHT-OF-WAY
RLS – REGISTERED LAND SURVEYOR
RP – RADIUS POINT
RWL – UNDERGROUND RECLAIM WATER LINE
RWM – RECLAIMED WATER METER
SE – SPECIAL EASEMENT
SEC 07 – SECTION 07
SMH – SANITARY SEWER MANHOLE
(SP) – STATE PLANE
SQ – SQUARE
SQ FT – SQUARE FEET
ST – STREET
STMH – STORM DRAINAGE MANHOLE
S/W – SIDEWALK
TB – TANGENT BEARING
T39S – TOWNSHIP 39 SOUTH
TELE – TELEPHONE
TL – OVERHEAD TRAFFIC SIGNAL LINES
TOB – TOP OF BANK
TOE – TOE OF SLOPE
TR – TELEPHONE RISER
TRANS – TRANSFORMER
TSB – TRAFFIC SIGNAL BOX
TSSP – TRAFFIC SIGNAL SUPPORT POLE
TVL – UNDERGROUND CABLE TV LINES
(TYP) – TYPICAL
UE – UTILITY EASEMENT
UNK – UNKNOWN
UTL – UNDERGROUND TELEPHONE LINES
W/ – WITH
WL – UNDERGROUND WATER LINE
WLP – WOOD LIGHT POLE
WM – WATER METER
WP – WORK PROGRAM
WPF – WOOD POST FENCE
WPP – WOOD POWER POLE
WV – WATER VALVE

Line Legend:
NOT TO SCALE

= 1 FOOT CONTOURS
= 5 FOOT CONTOURS
= ADJOINER PROPERTY LINES
= BARBED WIRE FENCE
= BROKEN LINE
UC = BURIED CABLE
UCTV = BURIED CABLE TELEVISION
UE = BURIED ELECTRIC
UFO = BURIED FIBER OPTICS
UG = BURIED GAS
URW = BURIED RECLAIMED WATER LINE
SAN = BURIED SANITARY LINES
FM = BURIED SANITARY SEWER FORCE MAIN LINE
TC = BURIED TRAFFIC CONTROL
UT = BURIED TELEPHONE LINE
UW = BURIED WATER LINES
= CENTER LINE R/W
= CHAIN LINK FENCE
= EASEMENT LINES (EXISTING)
= EASEMENT LINES (PROPOSED)
EOW = EDGE OF WATER LINES
= EXISTING DRAINAGE PIPES
= EXISTING DRAINAGE PIPES (OUTFALL NOT LOCATED)
FW = FIRE WATER MAIN LINES
HW = HOT WATER SUPPLY LINES
IRR = IRRIGATION LINES
OTL = OVERHEAD TRAFFIC LINES
OHU = OVERHEAD UTILITY LINES
= RAILROAD TRACKS
= RIGHT-OF-WAY LINES
= SECTION LINES
= STONE WALL LINES
TOB = TOP OF BANK LINES
TOE = TOE OF SLOPE LINES
= TREE LINES
TRAV = TRAVERSE LINES
UNK = UNKNOWN BURIED LINES
= VINYL FENCE
= WOOD FENCE
= WETLAND LINE

Symbol Legend:
NOT TO SCALE

ARV – AIR RELEASE VALVE
– BORING HOLE LOCATION
– BRICK PAVERS
CTV – CABLE TV RISER
– CENTRAL ANGLE
– CONCRETE
– CLEAN OUT
– CONCRETE MITERED END SECTION
– CONCRETE RIP RAP
– CONCRETE UTILITY POLE
– COUNTY ROAD SYMBOL
– DUAL SUPPORT SIGN
– ELECTRICAL MANHOLE
EJB – ELECTRICAL JUNCTION BOX
– ELECTRIC OUTLET
– ELECTRIC RISER
– FIRE HYDRANT
– FLOOD LIGHT
– FOUND CONCRETE MONUMENT (AS NOTED)
– FOUND IRON PIPE (AS NOTED)
– FOUND IRON REBAR (AS NOTED)
– FOUND/SET NAIL (AS NOTED)
– GARBAGE CAN
– GAS VALVE
– GOPHER TORTOISE HOLE
– GRATE INLET
– GREASE TRAP MANHOLE
– GUY ANCHOR
– HANDICAP PARKING SPACE
– INTERSTATE SYMBOL
IRV – IRRIGATION CONTROL VALVE
– CONCRETE LIGHT POLE
– LIGHT POLE
– LIGHT POLE (DUAL)
– LIGHT POLE (TRIPLE)
– LIGHT POLE (QUAD)
– MAILBOX
MW – MONITOR WELLS
– NAIL & DISC (AS NOTED)
PBX – PULL BOX (AS NOTED)
GM – GAS MARKER
FOM – FIBER OPTIC MARKER
2 – PARKING SPACES (2)
3 – REVISION NUMBER (3)
RWM – RECLAIMED WATER METER
RWV – RECLAIMED WATER VALVE
– ROOF DRAIN
S – SANITARY SEWER MANHOLE
SV – SANITARY SEWER VALVE
– SCHEDULE B ITEM NUMBER (8)
– GROUND LIGHT
– SECTION CORNER
– 4" X 4" CM LB #7143
– 5/8" IR&C LB #7143
– SIGN
– SITE BENCH MARK
D – STORM SEWER MANHOLE
– STRIPING (DIRECTIONAL)
– TELEPHONE CABLE RISER
T – TELEPHONE MANHOLE
TJB – TELEPHONE JUNCTION BOX
– TEST HOLE
– TRAFFIC SIGNAL BOX
– TRAFFIC SIGNAL SUPPORT POLE
WM – WATER METER
WS – WATER SERVICE
– WATER SPIGOT
WS – WATER SPRINKLER
WV – WATER VALVE
W – WELL
– WETLAND FLAG
– WOOD UTILITY POLE
U – UNKNOWN MANHOLE
– CONCRETE PAVERS
– DETECTABLE WARNING AREA
– CONCRETE LIGHT POLE (DUAL)
– CONCRETE LIGHT POLE (TRIPLE)
– CONCRETE LIGHT POLE (QUAD)
UM – UNKNOWN RISER
– VENT (AS NOTED)
– WIRE HEIGHTS (SEE CHART)
– CROSSWALK SIGNAL POLE
UVM – UNKNOWN VALVE
UGM – WATER LINE MARKER

Sign Legend:
NOT TO SCALE

(R1) – ROW NUMBER SIGN
(B) – BUS STOP SIGN
(BL) – BIKE LANE
(DE) – DEAD END SIGN
(DNE) – DO NOT ENTER SIGN (R5-1)
(HC) – HANDICAP SIGN
(HC) – DUAL HANDICAP SIGN
(INFO) – INFORMATION SIGN
(KR) – KEEP RIGHT SIGN
(LTO) – LEFT TURN ONLY
(ME) – MEDIAN SIGN
(ND) – NO DUMPING SIGN
(NL) – NO LEFT TURN SIGN (R3-2)
(NLI) – NO LITTERING SIGN
(NO) – NO OUTLET SIGN
(FL) – NO PARKING FIRE LANE SIGN
(NOR) – NO RIGHT TURN SIGN (R3-1)
(NTT) – NO THRU TRAFFIC SIGN
(NOT) – NO TRUCKS (R5-2)
(NP) – NO PARKING SIGN
(1W) – ONE WAY SIGN (R6-2)
(PE) – PEDESTRIAN CROSSING SIGN
(RTO) – RIGHT TURN ONLY
(SL) – SPEED LIMIT SIGN
(ST) – STOP SIGN (R1-1)
(SS) – STREET SIGN
(TZ) – TOW AWAY ZONE SIGN
(TE) – TRUCK ENTRANCE SIGN
(U) – UNKNOWN SIGN
(WL) – WEIGHT LIMIT SIGN
(WW) – WRONG WAY SIGN
(Y) – YIELD SIGN

NOTE:
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C.O.A. = CERTIFICATE OF AUTHORIZATION *Arch.= ARCHITECTURAL*
Landscape. = LANDSCAPE *N/A = NOT APPLICABLE* *Lic. = LICENSED*
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Index of Sheets

1 COVER SHEET
2 BOUNDARY SURVEY
3 TOPOGRAPHIC SURVEY
4 TREE LOCATION

Surveyor's Certification:

I hereby certify that the attached "Boundary & Topographic Survey" of the hereon-described property is true and correct to the best of my knowledge, information and belief as surveyed in the field on October 13, 2016. I further certify that this "Boundary & Topographic Survey" meets the standards of practice set forth in Rule Chapter 5J-17 of the Florida Administrative Code, pursuant to FS 472.027.

For the Firm By: _____

Thomas J. Galloway, PSM
Professional Surveyor and Mapper
Florida Registration No. 6549

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No.	Date	Revision	By
1	3/1/17	EDIT TO INDICATE VACATED RIVIERA STREET	J.A.B.

Field Crew:	M.R.
Drawn by:	J.A.B.
Checked by:	R.L.R.
Approved by:	T.J.G.
Scale:	N/A
Date:	10/13/16
Job No.:	S29701
File:	S29701.dwg

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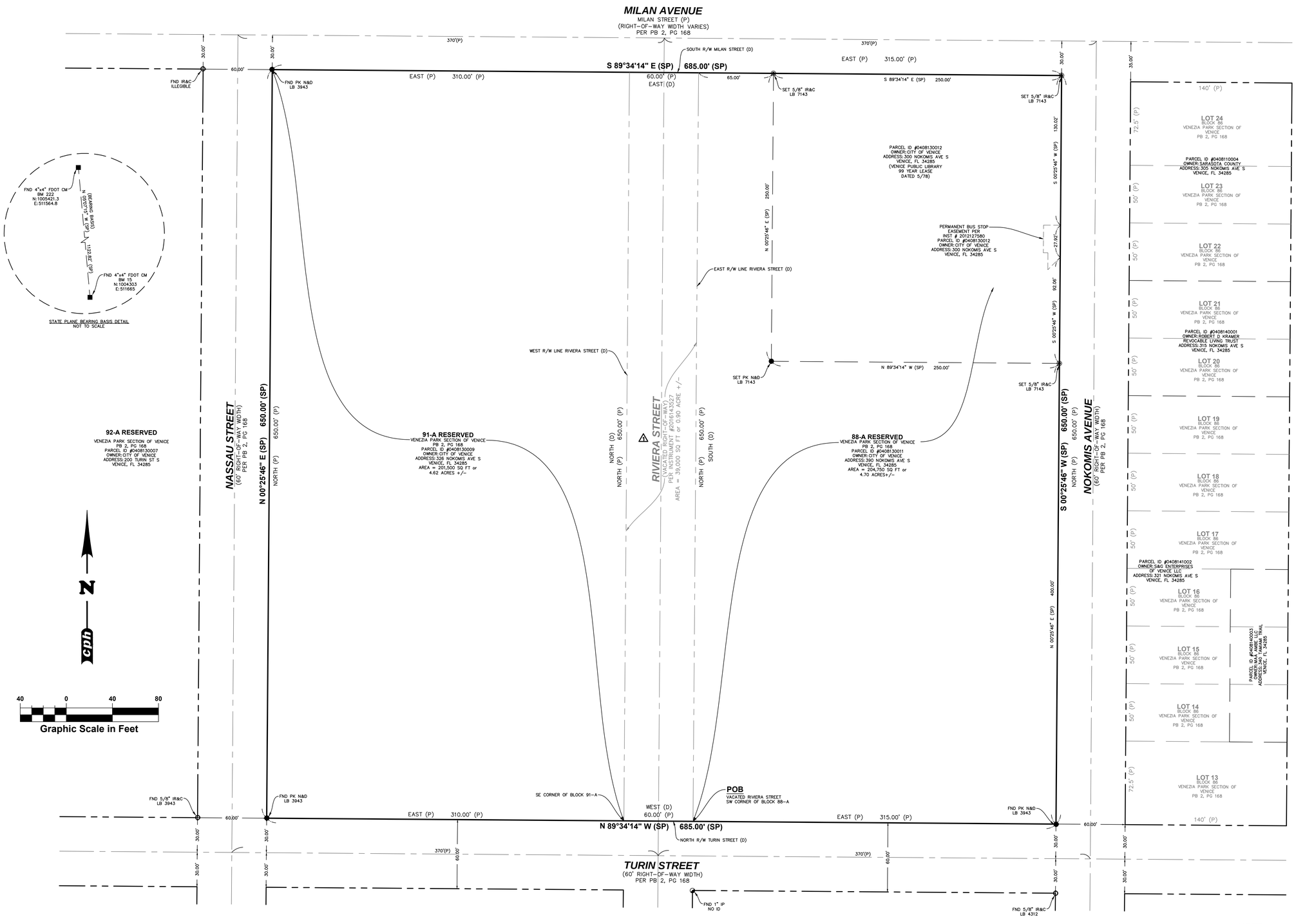
Survey Prepared By:
CPH, Inc.
500 West Fulton St.
Sanford, Fl. 32771
Ph: 407.322.6841
Licenses:
Eng. C.O.A. No. 3215
Survey L.B. No. 7143
Arch. Lic. No. AA2600926
Lndscp. Lic. No. LC0000298

BOUNDARY & TOPOGRAPHIC SURVEY
SARASOTA COUNTY - VENICE LIBRARY
300 NOKOMIS AVENUE, 326 NOKOMIS AVENUE & 390 NOKOMIS AVENUE
SECTION 07-TOWNSHIP 39 SOUTH-RANGE 19 EAST
SARASOTA COUNTY, FLORIDA



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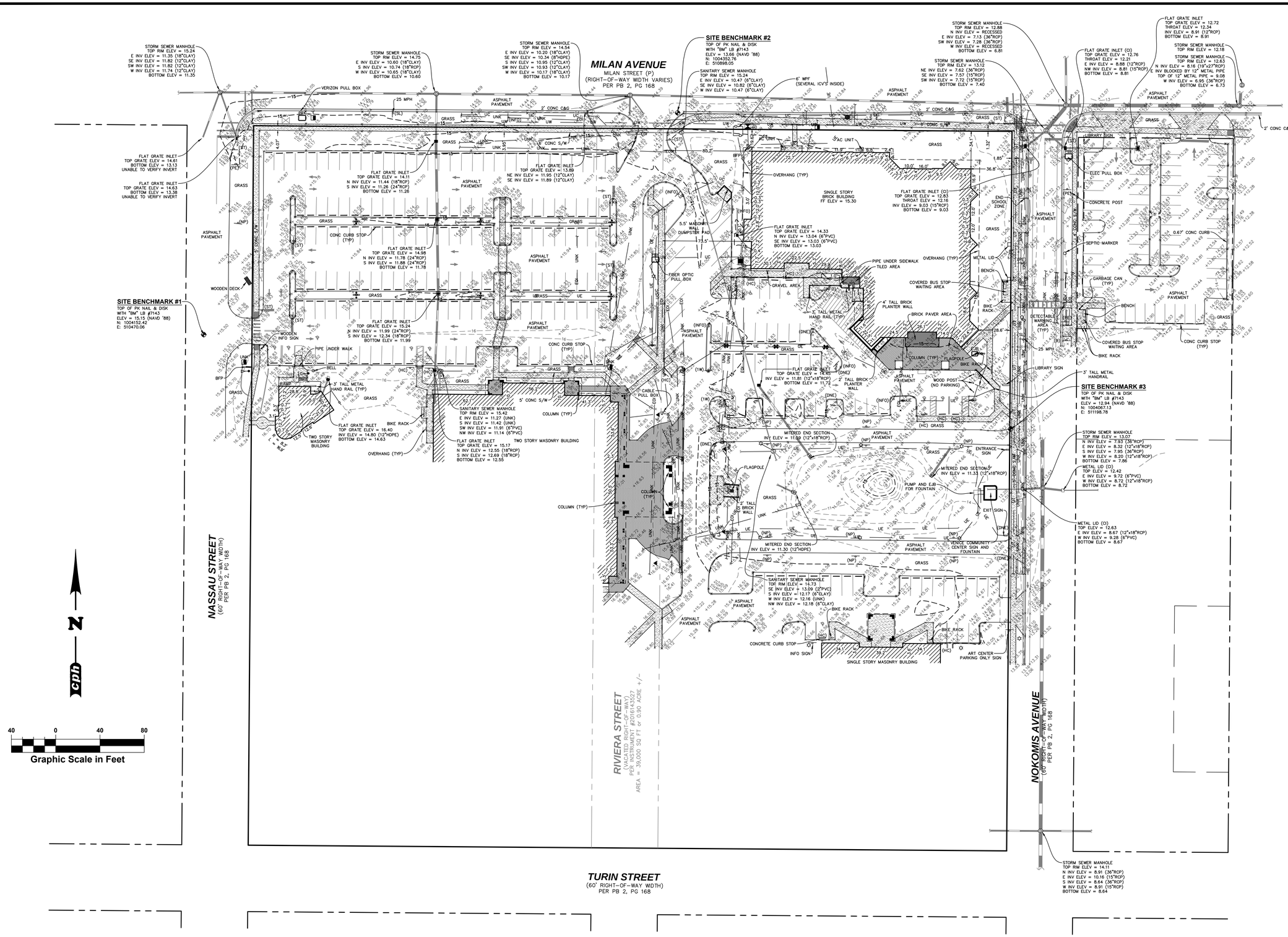

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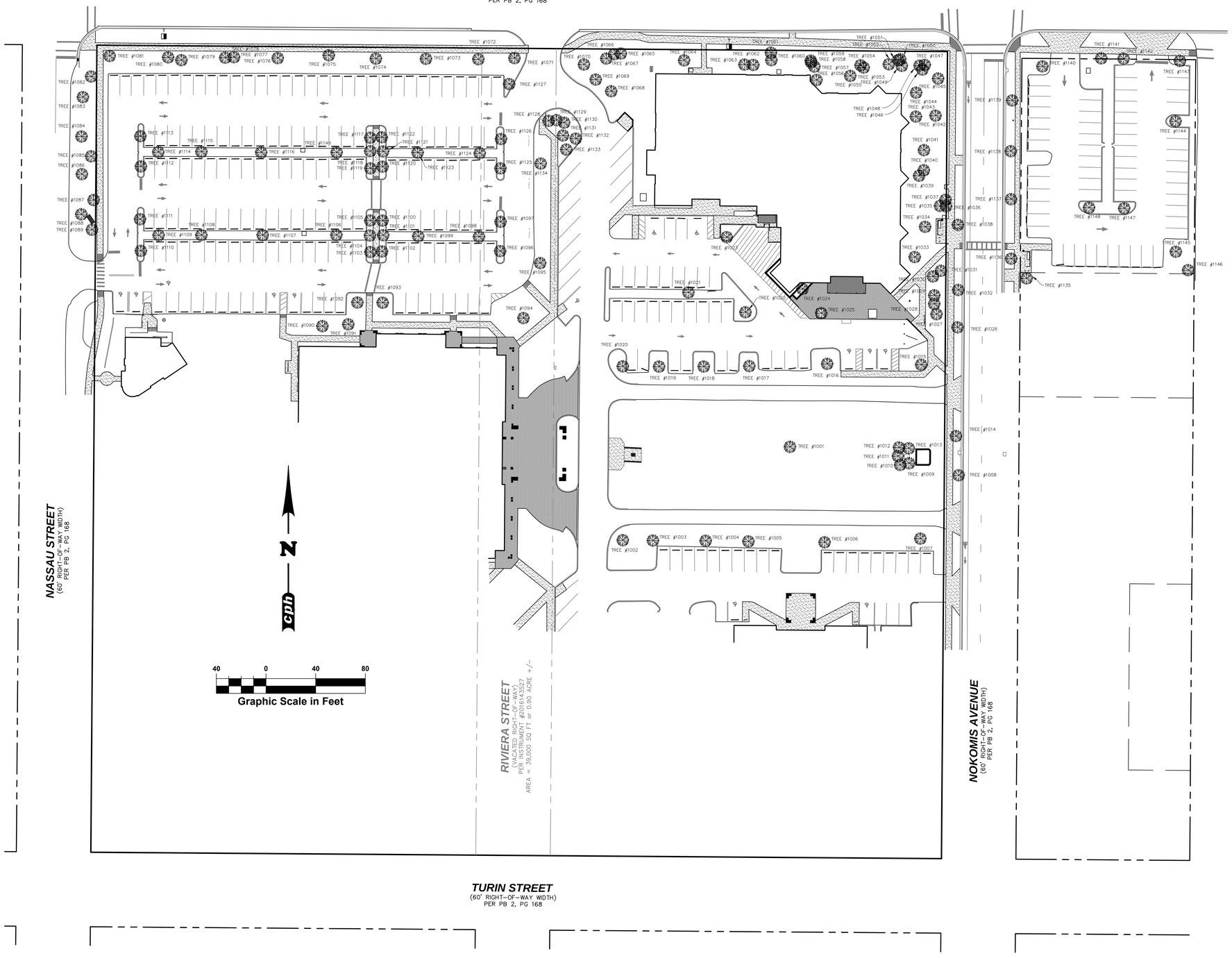
Tree Data Table

Tree #	DBH (in.)	Common Name	Botanical Name	Height (ft.)	Spread (ft.)	Condition
1001	58	Indian Rosewood	*Dalbergia sissoo*	50	45	Fair
1002	27	Live Oak	*Quercus virginiana*	40	50	Fair
1003	15.5	Live Oak	*Quercus virginiana*	40	30	Good
1004	23	Live Oak	*Quercus virginiana*	45	40	Good
1005	20	Live Oak	*Quercus virginiana*	45	35	Good
1006	28.5	Live Oak	*Quercus virginiana*	50	55	Fair
1007	5	Black Olive	*Bucida buceras*	20	15	Fair
1008	14.5	Live Oak	*Quercus virginiana*	30	30	Fair
1009	11	Cabbage Palm	*Sabal palmetto*	12	-	Good
1010	8	Cabbage Palm	*Sabal palmetto*	15	-	Good
1011	9	Cabbage Palm	*Sabal palmetto*	20	-	Good
1012	10.5	Cabbage Palm	*Sabal palmetto*	20	-	Good
1013	11	Cabbage Palm	*Sabal palmetto*	15	-	Good
1014	14.5	Live Oak	*Quercus virginiana*	40	40	Fair
1015	25	Live Oak	*Quercus virginiana*	50	60	Good
1016	22.5	Live Oak	*Quercus virginiana*	35	40	Good
1017	22	Live Oak	*Quercus virginiana*	30	40	Good
1018	15.5	Live Oak	*Quercus virginiana*	30	30	Fair
1019	17	Live Oak	*Quercus virginiana*	40	30	Fair
1020	19.5	Live Oak	*Quercus virginiana*	30	35	Fair
1021	27	Cabbage Palm	*Sabal palmetto*	7	-	Fair
1022	24	Bottlebrush	*Callistemon viminalis*	20	20	Fair
1023	10	Queen Palm	*Syagrus romanzoffiana*	10	-	Fair
1024	18	Christmas Palm	*Adonidia merrillii*	8	-	Fair
1025	20	Royal Palm	*Roystonea regia*	25	-	Fair
1026	16.5	Live Oak	*Quercus virginiana*	40	30	Fair
1027	9	Queen Palm	*Syagrus romanzoffiana*	20	-	Fair
1028	9	Queen Palm	*Syagrus romanzoffiana*	25	-	Fair
1029	7	Queen Palm	*Syagrus romanzoffiana*	13	-	Fair
1030	9	Queen Palm	*Syagrus romanzoffiana*	20	-	Fair
1031	10.5	Queen Palm	*Syagrus romanzoffiana*	30	-	Fair
1032	13.5	Live Oak	*Quercus virginiana*	25	25	Fair
1033	6.5	Christmas Palm	*Adonidia merrillii*	20	-	Fair
1034	30	Honytail Palm	*Beaucarnea recurvata*	20	-	Fair
1035	9	Cabbage Palm	*Sabal palmetto*	20		Poor
1036	13.5	Cabbage Palm	*Sabal palmetto*	20	-	Fair
1037	14.5	Cabbage Palm	*Sabal palmetto*	15	-	Fair
1038	16.5	Live Oak	*Quercus virginiana*	25	25	Fair
1039	13.5	Washingtonia Palm	*Washingtonia robusta*	25	-	Fair
1040	32	Bottlebrush	*Callistemon viminalis*	25	30	Fair
1041	10	Queen Palm	*Syagrus romanzoffiana*	25	-	Fair
1042	46	Laurel Oak	*Quercus laurifolia*	40	50	Fair
1043	7	Queen Palm	*Syagrus romanzoffiana*	20	-	Fair
1044	9.5	Queen Palm	*Syagrus romanzoffiana*	20	-	Fair
1045	7	Queen Palm	*Syagrus romanzoffiana*	15		Fair
1046	10	Cabbage Palm	*Sabal palmetto*	20	-	Poor
1047	10	Cabbage Palm	*Sabal palmetto*	25	-	Fair
1048	9.5	Cabbage Palm	*Sabal palmetto*	25		Fair
1049	8	Queen Palm	*Syagrus romanzoffiana*	20	-	Fair
1050	8	Queen Palm	*Syagrus romanzoffiana*	25	-	Fair
1051	6	Queen Palm	*Syagrus romanzoffiana*	20	-	Fair
1052	6	Queen Palm	*Syagrus romanzoffiana*	20	-	Fair
1053	10.5	Cabbage Palm	*Sabal palmetto*	20	-	Fair
1054	9	Cabbage Palm	*Sabal palmetto*	20		Fair
1055	60	Areca Palm	*Dypsis lutescens*	20	25	Fair
1056	14.5	Singapore Strangler	*Mycianthes fragrans*	25	20	Fair
1057	11.5	Cabbage Palm	*Sabal palmetto*	25		Fair
1058	10	Cabbage Palm	*Sabal palmetto*	20	-	Fair
1059	10.5	Cabbage Palm	*Sabal palmetto*	25		Fair
1060	24	Longleaf Pine	*Pinus palustris*	40	40	Fair
1061	12	Cabbage Palm	*Sabal palmetto*	20	-	Fair
1062	9	Cabbage Palm	*Sabal palmetto*	15		Fair
1063	8.5	Cabbage Palm	*Sabal palmetto*	18	-	Fair
1064	11	Black Olive	*Bucida buceras*	40	30	Fair
1065	58	Seagrape	*Coccoloba uvifera*	30	30	Fair
1066	14.5	Seagrape	*Coccoloba uvifera*	30	20	Fair
1067	33.5	Seagrape	*Coccoloba uvifera*	20	20	Fair
1068	67	Seagrape	*Coccoloba uvifera*	15	25	Poor
1069	21	Seagrape	*Coccoloba uvifera*	25	20	Fair
1070	33.5	Mahogany	*Swietenia mahagoni*	40	50	Fair
1071	9	Mahogany	*Swietenia mahagoni*	15	10	Fair
1072	20	Laurel Oak	*Quercus laurifolia*	40	30	Fair
1073	14.5	Date Palm	*Phoenix dactylifera*	7	-	Fair
1074	16	Laurel Oak	*Quercus laurifolia*	30	30	Fair
1075	12	Date Palm	*Phoenix dactylifera*	5	-	Fair
1076	20	Laurel Oak	*Quercus laurifolia*	35	30	Fair
1077	16.5	Live Oak	*Quercus virginiana*	35	25	Fair
1078	13	Date Palm	*Phoenix dactylifera*	8	-	Fair
1079	24.5	Live Oak	*Quercus virginiana*	35	25	Fair
1080	14	Laurel Oak	*Quercus laurifolia*	20	25	Fair
1081	18	Date Palm	*Phoenix dactylifera*	13	-	Fair
1082	13	Slash Pine	*Pinus elliottii*	20	20	Fair
1083	9	Cabbage Palm	*Sabal palmetto*	12	-	Fair
1084	8	Cabbage Palm	*Sabal palmetto*	12	-	Fair
1085	12.5	Slash Pine	*Pinus elliottii*	25	20	Fair
1086	10.5	Cabbage Palm	*Sabal palmetto*	15		Fair
1087	7	Slash Pine	*Pinus elliottii*	20	15	Fair
1088	15	Cabbage Palm	*Sabal palmetto*	15	-	Fair
1089	15	Cabbage Palm	*Sabal palmetto*	15	-	Fair
1090	13	Gold Tree	*Tabebuia aurea*	25	25	Fair
1091	10.5	Gold Tree	*Tabebuia aurea*	20	20	Fair
1092	13	Cabbage Palm	*Sabal palmetto*	15	-	Fair
1093	13	Cabbage Palm	*Sabal palmetto*	12	-	Fair
1094	18	Reclining Date Palm	*Phoenix reclinata*	25	25	Fair
1095	30.5	Live Oak	*Quercus virginiana*	40	45	Fair
1096	11.5	Cabbage Palm	*Sabal palmetto*	10		Fair
1097	10.5	Cabbage Palm	*Sabal palmetto*	15	-	Fair
1098	10	Dahoon Holly	*Ilex cassine*	25	20	Fair
1099	8	Winged Elm	*Ulmus alata*	15	15	Fair
1100	10	Cabbage Palm	*Sabal palmetto*	10	-	Fair
1101	10	Cabbage Palm	*Sabal palmetto*	15	-	Fair
1102	12.5	Cabbage Palm	*Sabal palmetto*	15		Fair
1103	11.5	Cabbage Palm	*Sabal palmetto*	10	-	Fair
1104	9.5	Cabbage Palm	*Sabal palmetto*	15	-	Fair
1105	10.5	Cabbage Palm	*Sabal palmetto*	12		Fair
1106	8	Dahoon Holly	*Ilex cassine*	15	15	Fair
1107	7.5	Dahoon Holly	*Ilex cassine*	15	15	Fair
1108	4	Winged Elm	*Ulmus alata*	12	10	Fair
1109	3	Black Olive	*Bucida buceras*	12	10	Fair
1110	11	Cabbage Palm	*Sabal palmetto*	12		Fair
1111	12	Cabbage Palm	*Sabal palmetto*	12		Fair
1112	10	Cabbage Palm	*Sabal palmetto*	15	-	Fair
1113	10.5	Cabbage Palm	*Sabal palmetto*	15	-	Fair
1114	3	Black Olive	*Bucida buceras*	10	6	Fair
1115	8	Dahoon Holly	*Ilex cassine*	15	15	Fair
1116	9.5	Winged Elm	*Ulmus alata*	10	8	Fair
1117	11.5	Cabbage Palm	*Sabal palmetto*	12	-	Fair
1118	12	Cabbage Palm	*Sabal palmetto*	10	-	Fair
1119	12	Cabbage Palm	*Sabal palmetto*	10		Fair
1120	13.5	Cabbage Palm	*Sabal palmetto*	10	-	Fair
1121	12	Cabbage Palm	*Sabal palmetto*	12	-	Fair
1122	13.5	Cabbage Palm	*Sabal palmetto*	10		Fair
1123	5.5	Winged Elm	*Ulmus alata*	10	10	Fair
1124	10	Winged Elm	*Ulmus alata*	15	20	Fair
1125	12	Cabbage Palm	*Sabal palmetto*	12		Fair
1126	12	Cabbage Palm	*Sabal palmetto*	13	-	Fair
1127	11	Cabbage Palm	*Sabal palmetto*	10		Fair
1128	12	Cabbage Palm	*Sabal palmetto*	15	-	Fair
1129	12	Cabbage Palm	*Sabal palmetto*	20	-	Fair
1130	12.5	Cabbage Palm	*Sabal palmetto*	20		Fair
1131	13	Cabbage Palm	*Sabal palmetto*	20	-	Fair
1132	12.5	Cabbage Palm	*Sabal palmetto*	15	-	Fair
1133	12.5	Cabbage Palm	*Sabal palmetto*	20		Fair
1134	14	Live Oak	*Quercus virginiana*	20	25	Fair
1135	25	Senegal Date Palm	*Phoenix reclinata*	25	-	Fair
1136	14.5	Live Oak	*Quercus virginiana*	25	30	Fair
1137	15	Live Oak	*Quercus virginiana*	20	30	Fair
1138	19.5	Live Oak	*Quercus virginiana*	35	40	Fair
1139	20.5	Live Oak	*Quercus virginiana*	35	40	Fair
1140	4.5	Black Olive	*Bucida buceras*	10	10	Fair
1141	17	Live Oak	*Quercus virginiana*	35	35	Fair
1142	18	Live Oak	*Quercus virginiana*	40	40	Fair
1143	15	Live Oak	*Quercus virginiana*	25	30	Fair
1144	5	Black Olive	*Bucida buceras*	25	15	Fair
1145	4	Black Olive	*Bucida buceras*	20	15	Fair
1146	20	Cabbage Palm	*Sabal palmetto*	7	-	Fair
1147	5	Black Olive	*Bucida buceras*	20	20	Fair
1148	5.5	Black Olive	*Bucida buceras*	20	20	Fair
1149	5.5	Winged Elm	*Ulmus alata*	12	10	Fair



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GENERAL PROVISIONS

1. THE CONTRACTOR SHALL OBTAIN FROM THE OWNER COPIES OF ALL AVAILABLE REGULATORY AGENCY PERMITS AND LOCAL AGENCY PERMITS.

2. CONTRACTOR, AS PART OF THE BASE BID, SHALL FIELD LOCATE ALL UNDERGROUND UTILITIES WITHIN THE PROJECT AREA WITHIN THE 30 DAYS OF PROJECT AWARD. CONTRACTOR SHALL REVIEW THE PLANS AND SHALL NOTE ANY DISCREPENCIES TO THE ENGINEER IMMEDIATELY.

3. CONTRACTORS, AS PART OF THE BASE BID, SHALL PROVIDE ALL COORDINATION WITH UTILITY PROVIDERS TO PROVIDE FOR THE MATERIALS AND WORK NEEDED TO PROVIDE SERVICES TO THE PROJECT.

4. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE FOR ALL DEMOLITION OF ABOVE GROUND AND UNDERGROUND IMPROVEMENTS IN ORDER TO CONSTRUCT THE PROPOSED IMPROVEMENTS NOTED ON THE PLANS. UNLESS APPROVED IN WRITING FROM THE OWNER, ALL MATERIALS SHALL BE REMOVED FROM THE SITE AS PART OF THE BASE BID.

5. ALL DETAILS AND REFERENCES TO FDOT REFER TO THE LATEST EDITION OF THE FDOT DESIGN STANDARDS.

6. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTRANCES TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, TELEPHONE AND GAS SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES, IN SUCH A MANNER AS TO AVOID CONFLICT AND ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH UTILITY REQUIREMENTS AS TO LOCATION AND SCHEDULING FOR TIE-INS/ CONNECTIONS PRIOR TO CONNECTING TO EXISTING UTILITIES.

7. CONTRACTOR AND HIS SURVEYOR SHALL NOTE THE PROJECT BENCHMARK INFORMATION PROVIDED IN THE PLANS AND VERIFY PRIOR TO CONSTRUCTION.

8. ALL CONSTRUCTION PROJECTS 1 OR MORE ACRES IN SIZE THAT DISCHARGE TO OFFSITE AREAS ARE REQUIRED TO COMPLY WITH THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR STORMWATER DISCHARGE FROM SMALL AND LARGE CONSTRUCTION ACTIVITIES. IN ORDER TO MEET NPDES REQUIREMENTS, THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING, INSPECTING, MAINTAINING, AND REPORTING ON ALL ELEMENTS OF THE SWPPP, COMPLETING AND SUBMITTING THE REQUIRED NOTICE OF INTENT (NOI) AND NOTICE OF TERMINATION (NOT) FORMS AS THE OPERATOR, AND PAYING ALL ASSOCIATED FEES. FOR PROJECTS LESS THAN 1 ACRE IN SIZE THAT ARE NOT REQUIRED TO COMPLY WITH THE NPDES GENERAL PERMIT, THE CONTRACTOR IS STILL RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO AND DURING CONSTRUCTION IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.

9. UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL USE THE GEOMETRY PROVIDED ON THE CONSTRUCTION PLANS. BENCHMARK INFORMATION SHALL BE PROVIDED TO THE CONTRACTOR BY THE OWNER OR OWNER'S SURVEYOR. ANY DISCREPANCIES BETWEEN FIELD MEASUREMENTS AND CONSTRUCTION PLAN INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

10. BASE SURVEY INFORMATION INCLUDING BUT NOT LIMITED TO ELEVATIONS, EASEMENTS, RIGHTS OF WAY, AND OTHER TOPOGRAPHIC INFORMATION HAS BEEN PREPARED BY OTHER PROFESSIONALS. CPH, INC. ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS INFORMATION.

11. THIS SET OF PLANS MAY CONTAIN DRAWINGS PREPARED BY OTHER PROFESSIONALS, WHICH CONTAIN THE NAME, ADDRESS, AND LOGO OF THE PROFESSIONAL. CPH, INC. IS NOT RESPONSIBLE FOR DRAWINGS PREPARED BY OTHER PROFESSIONALS.

12. THE CONTRACTOR SHALL SUBMIT ONE ELECTRONIC COPY OF SHOP DRAWINGS TO THE ENGINEER TO KEEP FOR HIS RECORDS. THE ENGINEER WILL NOT PROVIDE FOR APPROVAL OF SHOP DRAWINGS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL MATERIALS FOR ACCURACY PRIOR TO ORDERING THE MATERIALS. ANY DESCREPENCIES IDENTFIED BY THE CONTRACTOR SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

13. PROTECT BENCHMARKS, PROPERTY CORNERS, AND OTHER SURVEY MONUMENTS FROM DAMAGE OR DISPLACEMENT. IF MARKER NEEDS TO BE REMOVED IT SHALL BE REFERENCED BY LICENSED LAND SURVEYOR AND REPLACED, AS NECESSARY, BY SAME.

14. THE CONTRACTOR IS RESPONSIBLE FOR ALL QUALITY CONTROL TESTING. AS A MINIMUM, TESTING SHALL INCLUDE A) PIPING AND STRUCTURAL EXCAVATION, BEDDING AND BACKFILL MATERIALS AND DENSITY TESTS; B) DETERMINATION OF COMPACTIVE EFFORT NEEDED FOR COMPLIANCE WITH THE DENSITY REQUIREMENTS; C) PORTLAND CEMENT CONCRETE AND ASPHALT PAVING QUALITY CONTROL TESTING INCLUDING DESIGN MIX REVIEW, MATERIALS, FIELD SLUMP AND AIR CONTENT, AND FIELD AND LAB CURED STRENGTH SAMPLES AND TESTING.

15. IN ADDITION TO QUALITY CONTROL TESTING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REQUIRED TESTING OR APPROVALS FOR ANY WORK (OR ANY PART THEREOF) IF LAWS OR REGULATIONS OF ANY PUBLIC BODY HAVING JURISDICTION SPECIFICALLY REQUIRE TESTING, INSPECTIONS OR APPROVAL. THE CONTRACTOR SHALL PAY ALL COSTS IN CONNECTION THEREWITH AND SHALL FURNISH THE OWNER AND ENGINEER THE REQUIRED CERTIFICATES OF INSPECTION, TESTING OR APPROVAL.

16. ANY DESIGN OR TESTING LABORATORY UTILIZED BY THE CONTRACTOR SHALL BE AN INDEPENDENT LABORATORY ACCEPTABLE TO THE OWNER AND THE ENGINEER, APPROVED IN WRITING, AND COMPLYING WITH THE LATEST EDITION OF THE "RECOMMENDED REQUIREMENTS FOR INDEPENDENT LABORATORY QUALIFICATION", PUBLISHED BY THE AMERICAN COUNCIL OF INDEPENDENT LABORATORIES.

17. TESTING RESULTS SHALL BE PROVIDED TO THE OWNER/OPERATOR AND THE ENGINEER. ALL TEST RESULTS SHALL BE PROVIDED (PASSING AND FAILING) ON A REGULAR AND IMMEDIATE BASIS.

18. THE ENTIRE PROJECT SITE SHALL BE THOROUGHLY CLEANED AT THE COMPLETION OF THE WORK. CLEAN ALL INSTALLED PIPELINES, STRUCTURES, SIDEWALKS, PAVED AREAS, ACCUMULATED SILT IN PONDS, PLUS ALL ADJACENT AREAS AFFECTED BY CONSTRUCTION, AS DIRECTED BY THE OWNER OR JURISDICTIONAL AGENCY. EQUIPMENT TO CLEAN THESE SURFACES SHALL BE SUBJECT TO APPROVAL BY THE OWNER.

19. ALL DISTRUBED AREAS WITHIN RIGHT OF WAYS SHALL BE SODDED.

20. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS TO INCLUDE BUT NOT BE LIMITED, FOR ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.

21. THE CONTRACTOR SHALL RECOGNIZE AND ABIDE BY ALL OSHA EXCAVATION SAFETY STANDARDS, INCLUDING THE FLORIDA TRENCH SAFETY ACT (90-96, LAWS OF FLORIDA). ANY MATERIAL, CONSTRUCTION METHODS, OR MATERIAL COST TO COMPLY WITH THESE LAWS SHALL BE INCIDENTAL TO THE CONTRACT.

22. CONTRACTOR MUST STOP OPERATION AND NOTIFY THE OWNER FOR PROPER DIRECTION IF ANY ENVIRONMENTAL OR HEALTH RELATED CONTAMINATE IS ENCOUNTERED DURING EXCAVATION.

UTILITY GENERAL NOTES

1. THE UTILITY DATA SHOWN ON THESE PLANS WAS LOCATED BY THE RESPECTIVE UTILITY, OR IS BASED ON UTILITY DRAWINGS, MAPS, OR FIELD RECONNAISSANCE.

2. THE LOCATION, MATERIAL TYPE, AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING AN UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. ANY UTILITIES, WHETHER SHOWN ON THESE PLANS OR NOT, THAT INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE CLOSELY COORDINATED WITH THE ENGINEER AND THE RESPECTIVE UTILITY COMPANY FOR RELOCATION OR PROPER INSTRUCTION.

3. A SINGLE POINT UTILITY IDENTIFICATION SERVICE HAS BEEN SET UP FOR EXISTING UTILITIES. THE CONTRACTOR IS TO CONTACT THE SUNSHINE STATE ONE CALL CENTER BY DIALING "811" AT LEAST TWO (2) AND NO MORE THAN FIVE (5) WORKING DAYS PRIOR TO THE SPECIFIC CONSTRUCTION ACTIVITY FOR FIELD LOCATION. NOTE THAT NOT ALL UTILITIES PARTICIPATE IN THIS PROGRAM. THE CONTRACTOR SHOULD CONTACT ALL NON-PARTICIPATING UTILITIES SEPARATELY FOR FIELD LOCATION OF THEIR FACILITIES AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

4. THE UTILITY PROVIDERS NOTED ON THE COVER SHEET HAVE PREVIOUSLY INDICATED THAT THEY MAY HAVE FACILITIES IN THE VICINITY OF THE CONSTRUCTION AREA.

5. THE CONTRACTOR SHALL KEEP LOCATE TICKETS UP TO DATE AT ALL TIMES.

6. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH EACH UTILITY AND ALL COSTS ASSOCIATED WITH THE PROTECTION OF EXISTING FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL ALSO COORDINATE NECESSARY RELOCATIONS OR OTHER CONSTRUCTION RELATED MATTERS WITH EACH UTILITY.

7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN IN SERVICE ALL EXISTING PIPING ENCOUNTERED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED IN THE DRAWINGS. ANY PIPING WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION OF SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR WITH THE PERMISSION OF THE OWNER AND THE ENGINEER.

8. TYPICAL DETAILS AND PROPOSED CONSTRUCTION AS SHOWN ILLUSTRATE THE ENGINEER'S INTENT AND ARE NOT PRESENTED AS A SOLUTION TO ALL CONSTRUCTION PROBLEMS ENCOUNTERED IN THE FIELD. THE CONTRACTOR MAY ALTER THE PROPOSED CONSTRUCTION TO SUIT FIELD CONDITIONS, PROVIDED IT COMPLIES WITH THE PROJECT SPECIFICATIONS AND APPROVAL IS RECEIVED FROM THE ENGINEER. WHERE SUCH PROPOSED REVISIONS DEVIATE FROM THE FDEP CONSTRUCTION PERMIT, THEN SUCH REVISIONS WILL ALSO REQUIRE APPROVAL FROM FDEP.

9. FOR EACH RESPECTIVE PIPELINE CONSTRUCTION REQUIRED, THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION, DEPTH, SIZE, MATERIAL TYPE, AND ALIGNMENT OF ALL EXISTING PIPES, CABLES, ETC. TO BE CROSSED OR CONNECTED TO. IF THE CONTRACTOR DEEMS NECESSARY (A) A CHANGE IN ALIGNMENT OR DEPTH, OR THE NEED FOR ADDITIONAL FITTINGS, BENDS, OR COUPLINGS, WHICH REPRESENT A DEPARTURE FROM THE CONTRACT DRAWING, OR (B) A NEED FOR RELOCATION OF EXISTING UTILITIES, THEN DETAILS OF SUCH DEPARTURES, RELOCATIONS, OR ADDITIONAL FITTINGS, INCLUDING CHANGES IN RELATED PORTIONS OF THE PROJECT AND THE REASONS THEREFORE, SHALL BE SUBMITTED WITH SHOP DRAWINGS. APPROVED DEPARTURES FOR THE CONTRACTOR'S CONVENIENCE SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.

10. THE CONTRACTOR SHALL PROVIDE AT HIS OWN EXPENSE ALL NECESSARY TEST PUMPING EQUIPMENT, WATER, WATER METERS, PRESSURE GAUGES, AND OTHER EQUIPMENT, MATERIAL AND FACILITIES REQUIRED FOR ALL HYDROSTATIC, LEAKAGE, AND PRESSURE TESTING. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND THE OWNER IN WRITTEN FORM, FORTY-EIGHT (48) HOURS IN ADVANCE OF PROPOSED TESTING. THE CONTRACTOR SHALL PERFORM SATISFACTORY PRETESTING PRIOR TO NOTIFICATION.

AS-BUILT DRAWING REQUIREMENTS

1. AS-BUILT DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER AT LEAST THREE WEEKS PRIOR TO FINAL INSPECTION. ALL AS-BUILT DATA SHALL BE PROVIDED BY A FLORIDA LICENSED SURVEYOR, SIGNED, SEALED AND DATED BY THE RESPONSIBLE PARTY. THE CONTRACTOR SHALL BE RESPONSBILE TO IDENTIFY ALL AS-BUILT SURVEY REQUIREMENTS BY THE GOVERNING AGENCIES PRIOR TO START OF CONSTRUCTION TO ENSURE THAT AS-BUILT INFORMATION IS PROVIDED FOR.

2. ALL RECORD DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR IN ACAD FORMAT USING CONSTRUCTION PLAN SHEETS PROVIDED BY THE ENGINEER. AS-BUILT INFORMATION SHALL BE FIELD VERIFIED, MEASURED, ADDED TO THE ACAD FILES OF THE CONSTRUCTION PLAN SHEETS PROVIDED BY THE ENGINEER, AND CERTIFIED, SIGNED AND SEALED BY THE CONTRACTOR'S LICENSED SURVEYOR WHO WILL BE RESPONSIBLE FOR THE ACCURACY OF ALL DIMENSIONS AND ELEVATIONS.

3. THE AS-BUILT INFORMATION IS TO INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

A. HORIZONTAL LOCATIONS AND VERTICAL ELEVATIONS FOR ALL UTILITY AND STORM STRUCTURES INCLUDING BUT NOT LIMITED TO MANHOLES, INLETS AND CLEANOUTS, INCLUDING STRUCTURE TOP AND INVERT ELEVATIONS.

B. DISTANCE ALONG PIPELINES BETWEEN STRUCTURES.

C. STORMWATER POND TOP OF BERM AND POND BOTTOM ELEVATIONS AND HORIZONTAL DIMENSIONS MEASURED AT A MINIMUM OF TEN LOCATIONS PER POND, AT LOCATIONS DESIGNATED BY THE ENGINEER. TOP OF POND HORIZONTAL DIMENSIONS ARE ALSO TO BE TIED TO PROPERTY CORNERS, EASEMENTS, AND RIGHTS-OF-WAY.

D. STORMWATER CONTROL STRUCTURE DIMENSIONS AND ELEVATIONS, INCLUDING ALL WEIRS, SLOTS, ORIFICES, GRATES, AND SKIMMERS.

E. STORMWATER CONVEYANCE SYSTEMS INCLUDING DIMENSIONS, ELEVATIONS, CONTOURS, AND CROSS SECTIONS.

F. HORIZONTAL LOCATIONS AND VERTICAL ELEVATIONS OF ALL UTILITY VALVES, FITTINGS, CONNECTION POINTS, ETC.

G. VERTICAL ELEVATIONS OF ALL PIPELINES AT CROSSINGS OF POTABLE WATER MAINS (WHETHER THE WATER MAIN IS EXISTING OR NEW) IN ORDER TO DOCUMENT THAT THE MINIMUM REQUIRED VERTICAL SEPARATION HAS BEEN MET.

H. UTILITY PIPELINE TIED HORIZONTALLY TO EDGE OF PAVEMENT AND RIGHT-OF-WAY LINES, LOCATED EVERY 200-FT PLUS ALL CHANGES IN HORIZONTAL OFFSET.

I. PAVEMENT WIDTH AND ELEVATIONS AT THE CENTERLINE AND EDGE OF PAVEMENT EVERY 200 FEET PLUS AT ALL CHANGES IN LONGITUDINAL SLOPE, CROSS SLOPE, INLET LOCATIONS, AND AT ALL DRIVEWAY AND STREET INTERSECTIONS. FOR PARKING LOTS, RECORD CENTERLINE AND EDGE OF PAVEMENT ELEVATIONS ALONG ALL DRIVE AISLES AND ISLANDS.

J. ALL PARKING AREAS AND SIDEWALK RAMPS DESIGNATED FOR HANDICAP ACCESS SHALL CONTAIN HORIZONTAL AND VERTICAL MEASUREMENTS IN ORDER TO VERIFY REQUIRED WIDTHS AND SLOPES HAVE BEEN MET.

K. HORIZONTAL AND VERTICAL DATA FOR ANY CONSTRUCTION THAT DEVIATES FROM THE APPROVED ENGINEERING DRAWINGS.

L. WHERE THE PLANS CONTAIN SPECIFIC HORIZONTAL LOCATION DATA, SUCH AS STATION AND OFFSET, THE AS-BUILT DRAWINGS ARE TO REFLECT THE ACTUAL HORIZONTAL LOCATION.

M. WHERE THE PLANS CONTAIN SPECIFIC VERTICAL ELEVATION DATA, THE AS-BUILT DRAWINGS ARE TO REFLECT THE ACTUAL MEASURED VERTICAL ELEVATION.

N. ANY ADDITIONAL INFORMATION REQUIRED BY GOVERNING AGENCIES.

4. IN CASES WHERE THE OWNER DETERMINES PARTIAL CLEARANCES FROM PERMITTING AGENCIES ARE BENEFICIAL TO THE OWNER FOR COMPLETED PORTIONS OF THE PROJECT, PROVIDE PRELIMINARY AS-BUILT DRAWINGS (ACAD FORMAT) TO THE ENGINEER FOR ITS USE IN PREPARING THE PARTIAL CLEARANCE APPLICATIONS FOR THE OWNER.

5. COMPLETE AS-BUILT DRAWINGS THAT ARE FOUND TO BE SATISFACTORY AS A RESULT OF THE ENGINEER'S REVIEW WILL BE USED AS THE BASIS FOR THE FINAL PROJECT RECORD DRAWINGS PREPARED BY THE ENGINEER USING THE CONTRACTOR PROVIDED AS-BUILT DRAWINGS PLUS ENGINEER ADDED INFORMATION.

TRAFFIC CONTROL

1. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A MAINTENANCE OF TRAFFIC (M.O.T.) PLAN PRIOR TO CONSTRUCTION. THE M.O.T. PLAN SHALL SHOW ALL PROPOSED TRAFFIC CONTROL SIGNS, PAVEMENT MARKINGS, AND BARRICADES, AND SHALL DETAIL ALL PROPOSED CONSTRUCTION SEQUENCING. THE M.O.T. PLAN AND INSTALLED TRAFFIC CONTROL MEASURES SHALL BE APPROVED BY THE ENGINEER, OWNER, AND ROADWAY JURISDICTIONAL AGENCY PRIOR TO CONSTRUCTION. IN GENERAL, ROADWAY AND DRIVEWAY LANE CLOSURES ARE PROHIBITED DURING CONSTRUCTION UNLESS SPECIFICALLY DETAILED ON THESE PLANS. IN THE EVENT IT IS DETERMINED THAT ROADWAY AND DRIVEWAY LANE CLOSURES WILL BE ALLOWED, THE CLOSURES SHALL BE RESTRICTED TO THE HOURS BETWEEN 9:00 A.M. AND 4:00 P.M. UNLESS OTHERWISE AUTHORIZED IN THE APPROVED M.O.T.

2. ALL TRAFFIC CONTROL MEASURES SHALL BE IN ACCORDANCE WITH FDOT INDEX NO. 600 AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL TRAFFIC CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND MAINTAINED DURING CONSTRUCTION.

3. INSPECT TRAFFIC CONTROL DEVICES ON A DAILY BASIS TO ENSURE PLACEMENT OF BARRICADES AND FUNCTION OF LIGHTS IS MAINTAINED THROUGHOUT CONSTRUCTION.

4. CONTACT PROPERTY OWNERS AFFECTED BY CONSTRUCTION. COORDINATE TEMPORARY DRIVEWAY CLOSURES AND SEQUENCING. MAINTAIN ACCESS FOR ALL PROPERTY OWNERS DURING CONSTRUCTION.

5. WET UNSTABILIZED AREAS AS NECESSARY TO CONTROL DUST.

6. ADJUST TRAFFIC CONTROL DEVICES AS REQUIRED UNDER EMERGENCY CONDITIONS.

7. THE CONTRACTOR IS EXPECTED TO COORDINATE ITS ACTIVITIES WITH OTHER CONTRACTORS WHO MAY BE WORKING IN THE IMMEDIATE VICINITY.

8. WHEN WORK OCCURS WITHIN 15-FT OF ACTIVE ROAD TRAVEL LANES BUT NO CLOSER THAN 2-FT FROM THE EDGE OF PAVEMENT, SIGNAGE AND WARNING DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH FDOT INDEX NO. 600 AND 602.

9. TYPE I OR TYPE II BARRICADES AT 20-FT CENTERS SHALL BE PLACED AND MAINTAINED ALONG THE EDGE OF THE ROAD WHEREVER DROP-OFFS OR OTHER HAZARDS EXIST AND TO BLOCK ENTRANCE INTO COMPLETED OR PARTIALLY COMPLETED PAVEMENTS UNTIL SUCH PAVEMENTS ARE OPEN TO PUBLIC USE.

SITE PREPARATION

1. UNLESS OTHERWISE DIRECTED BY THE OWNER OR ENGINEER, THE CONTRACTOR IS EXPECTED TO CONTAIN ALL CONSTRUCTION ACTIVITIES WITHIN THE PROPERTY, RIGHT-OF-WAY, AND EASEMENTS AS INDICATED ON THE DRAWINGS. AT NO TIME SHALL THE CONTRACTOR DISTURB SURROUNDING PROPERTIES OR TRAVEL ON SURROUNDING PROPERTIES WITHOUT WRITTEN CONSENT FROM THE PROPERTY OWNER. ANY REPAIR OR RECONSTRUCTION OF DAMAGED AREAS IN SURROUNDING PROPERTIES SHALL BE REPAIRED BY THE CONTRACTOR ON AN IMMEDIATE BASIS. ALL COSTS FOR REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION SHALL BE PROVIDED.

2. STAKE OUT THE CONSTRUCTION, ESTABLISH LINES AND LEVELS, TEMPORARY BENCH MARKS, BATTER BOARDS, CENTERLINES, BASELINES, AND REFERENCE POINTS FOR THE WORK, AND VERIFY ALL DIMENSIONS RELATING TO INTERCONNECTION WITH EXISTING FEATURES. REPORT ANY INCONSISTENCIES IN THE PROPOSED GRADES, LINES AND LEVELS, DIMENSIONS AND LOCATIONS TO THE ENGINEER BEFORE COMMENCING WORK.

3. PROTECT ALL TREES AND SHRUBS LOCATED OUTSIDE THE RIGHT-OF-WAY, EASEMENTS, AND OWNER SECURED PROPERTY, PARTICULARLY THOSE TREES AND SHRUBS LOCATED ADJACENT TO WORK AREAS.

4. WITHIN THE RIGHT-OF-WAY, EASEMENTS, AND OWNER SECURED PROPERTY, THE INTENT IS TO ALLOW TREES AND SHRUBS TO REMAIN IN ACCORDANCE WITH THE FOLLOWING SCHEDULE: NEW ROADWAY CONSTRUCTION - TREES AND SHRUBS TO REMAIN WHERE LOCATED MORE THAN 15 FEET FROM THE BACK OF CURB, OR OUTSIDE THE LIMITS OF EXCAVATION OR FILL AREAS, WHICHEVER IS FURTHER. UTILITY PIPELINE CONSTRUCTION - TREES AND SHRUBS TO REMAIN OUTSIDE A 15 FOOT WIDE PATH, CENTERED ON THE PIPELINE.

5. TREES TO REMAIN IN THE CONSTRUCTION AREA SHALL BE BOXED, FENCED OR OTHERWISE PROTECTED IN ACCORDANCE WITH DETAILS ON THE DRAWINGS. DO NOT PERMIT HEAVY EQUIPMENT OR STOCKPILES WITHIN BRANCH SPREAD

6. AREAS TO RECEIVE CLEARING AND GRUBBING SHALL INCLUDE ALL AREAS TO BE OCCUPIED BY THE PROPOSED IMPROVEMENTS, AREAS FOR FILL AND SITE GRADING, AND BORROW SITES. REMOVE TREES OUTSIDE OF THESE AREAS ONLY AS INDICATED ON THE DRAWINGS OR AS APPROVED IN WRITING BY THE ENGINEER.

7. CLEARING SHALL CONSIST OF REMOVING TREES AND BRUSH AND DISPOSAL OF OTHER MATERIALS THAT ENCROACH UPON OR OTHERWISE OBSTRUCT THE WORK.

8. EXERCISE EXTREME CARE DURING THE CLEARING AND GRUBBING OPERATIONS. DO NOT DAMAGE EXISTING STRUCTURES, PIPES OR UTILITIES.

9. GRUBBING SHALL CONSIST OF REMOVING AND DISPOSING OF STUMPS, ROOTS LARGER THAN 2" IN DIAMETER, AND MATTED ROOTS. REMOVE TO A DEPTH OF NOT LESS THAN 18" BELOW THE ORIGINAL SURFACE LEVEL OF THE GROUND.

10. ALL COMBUSTIBLE DEBRIS AND REFUSE FROM SITE PREPARATION OPERATIONS SHALL BE REMOVED TO LEGAL OFFSITE DISPOSAL AREAS.

DEWATERING

1. DESIGN AND PROVIDE A DEWATERING SYSTEM USING ACCEPTED AND PROFESSIONAL METHODS CONSISTENT WITH CURRENT INDUSTRY PRACTICE. PROVIDE A DEWATERING SYSTEM OF SUFFICIENT SIZE AND CAPACITY TO CONTROL GROUNDWATER IN A MANNER THAT PRESERVES STRENGTH OF FOUNDATION SOILS, DOES NOT CAUSE INSTABILITY OR RAVELING OF EXCAVATION SLOPES, AND DOES NOT RESULT IN DAMAGE TO EXISTING STRUCTURES. WHERE NECESSARY TO THESE PURPOSES, LOWER WATER LEVEL IN ADVANCE OF EXCAVATION, UTILIZING WELLS, WELLPOINTS, OR SIMILAR POSITIVE METHODS. MAINTAIN THE GROUNDWATER LEVEL TO A MINIMUM OF 2 FEET BELOW EXCAVATIONS. PROVIDE PIEZOMETERS IF DIRECTED BY THE ENGINEER TO DOCUMENT THE GROUNDWATER LEVEL IS BEING MAINTAINED.

2. CONTROL, BY ACCEPTABLE MEANS, ALL WATER REGARDLESS OF SOURCE AND BE FULLY RESPONSIBLE FOR DISPOSAL OF THE WATER. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY SUPPLEMENTAL MEASURES TO CONTROL SEEPAGE, GROUNDWATER, OR ARTESIAN HEAD.

3. DEWATERING DISCHARGE FROM THE SITE SHALL COMPLY WITH ALL NPDES GENERAL PERMIT REQUIREMENTS AND STATE WATER QUALITY STANDARDS. PROVIDE ALL TESTING AND PERMITTING REQUIRED AND COMPLY WITH ALL TREATMENT OR DISPOSAL METHODS REQUIRED TO MEET ALL LOCAL, STATE AND FEDERAL REQUIREMENTS.

4. OPEN PUMPING WITH SUMPS AND DITCHES SHALL BE ALLOWED, PROVIDED IT DOES NOT RESULT IN BOILS, LOSS OF FINES, SOFTENING OF THE GROUND, OR INSTABILITY OF SLOPES. SUMPS SHALL BE LOCATED OUTSIDE OF LOAD BEARING AREAS SO THE BEARING SURFACES WILL NOT BE DISTURBED. WATER CONTAINING SILT IN SUSPENSION SHALL NOT BE PUMPED INTO SEWER LINES OR ADJACENT STREAMS. DURING NORMAL PUMPING, AND UPON DEVELOPMENT OF WELL(S), LEVELS OF FINE SAND OR SILT IN THE DISCHARGE WATER SHALL NOT EXCEED 5 PPM.

5. IF DEWATERING EQUIPMENT NEEDED EXCEEDS ANY OF THE FOLLOWING: 1) 6" PUMP VOLUTE; 2) 100,000 GPD TOTAL 24 HOUR (1 DAY) DEWATERING, AND; 3) 1,000,000 GPD PUMP CAPACITY, THE CONTRACTOR SHALL BE REQUIRED TO PERMIT THE DEWATERING SYSTEM WITH THE WATER MANAGEMENT DISTRICT.

6. CONTINUOUSLY MAINTAIN EXCAVATIONS IN A DRY CONDITION WITH POSITIVE DEWATERING METHODS DURING PREPARATION OF SUBGRADE, INSTALLATION OF PIPE, AND CONSTRUCTION OF STRUCTURES UNTIL THE CRITICAL PERIOD OF CONSTRUCTION AND/OR BACKFILL IS COMPLETED TO PREVENT DAMAGE OF SUBGRADE SUPPORT, PIPING, STRUCTURE, SIDE SLOPES, OR ADJACENT FACILITIES FROM FLOTATION OR OTHER HYDROSTATIC PRESSURE IMBALANCE.

7. WHEN CONSTRUCTION IS COMPLETE, REMOVE ALL DEWATERING EQUIPMENT FROM THE SITE, INCLUDING WELLS AND RELATED TEMPORARY ELECTRICAL SERVICE.

GRADING

1. GRADING SHOWN ON THESE PLANS IS PROVIDED TO THE CONTRACTOR TO EXPRESS THE GENERAL GRADING INTENT OF THE PROJECT. THE CONTRACTOR SHALL BE EXPECTED TO GRADE THE ENTIRE SITE TO PROVIDE POSITIVE DRAINAGE IN ALL AREAS THROUGHOUT THE SITE. THE FOLLOWING MINIMUM SLOPES SHALL BE PROVIDED BY THE CONTRACTOR:
a. ASPHALT PAVEMENT: MIN. 1% SLOPE
b. CONCRETE PAVEMENT: MIN. 1% SLOPE
c. GUTTERS: MIN 0.5%

2. SMOOTH TRANSITIONS SHALL BE PROVIDED BETWEEN CONTOURS OR SPOT ELEVATIONS AS SHOWN ON THE PLANS TO ACCOMPLISH THE GRADING INTENT. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADING HAS BEEN COMPLETED. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER PRIOR TO DEMOBILIZATION OF GRADING EQUIPMENT TO DETERMINE THAT THE GRADING INTENT HAS BEEN ACHIEVED.

3. ALL PROPOSED ELEVATIONS ON THE PLANS WITHIN PAVED AREAS ARE SHOWN AT PAVEMENT, UNLESS OTHERWISE NOTED.

4. ALL PAVING SURFACES IN INTERSECTIONS AND ADJACENT SECTIONS SHALL BE GRADED TO DRAIN POSITIVELY AND TO PROVIDE A SMOOTHLY TRANSITIONED DRIVING SURFACE FOR VEHICLES WITH NO SHARP BREAKS IN GRADE, AND NO UNUSUALLY STEEP OR REVERSE CROSS SLOPES. THE STANDARD CROWN MAY HAVE TO BE CHANGED IN ORDER TO DRAIN POSITIVELY IN THE AREA OF INTERSECTIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH THE ABOVE AND THE ENGINEER SHALL BE CONSULTED SO THAT HE MAY MAKE ANY AND ALL REQUIRED INTERPRETATIONS OF THE PLANS OR GIVE SUPPLEMENTARY INSTRUCTIONS TO ACCOMPLISH THE INTENT OF THE PLANS.

5. UNIFORMLY SMOOTH GRADE THE SITE. DEPRESSIONS FROM SETTLEMENT SHALL BE FILLED AND COMPACTED. TOPS OF EMBANKMENTS AND BREAKS IN GRADE SHALL BE ROUNDED. FINISHED SURFACES SHALL BE REASONABLY SMOOTH, COMPACTED, FREE FROM IRREGULAR SURFACE CHANGES AND COMPARABLE TO THE SMOOTHNESS OBTAINED BY BLADE-GRADER OPERATIONS.

6. NEWLY GRADED AREAS SHALL BE PROTECTED FROM TRAFFIC AND EROSION. ALL SETTLEMENT OR WASHING AWAY THAT MAY OCCUR FROM ANY CAUSE PRIOR TO SEEDING OR ACCEPTANCE SHALL BE REPAIRED AND GRADES RE-ESTABLISHED TO THE REQUIRED ELEVATIONS AND SLOPES AT NO ADDITIONAL COST TO THE OWNER.

EXCAVATION, TRENCHING, AND FILL

1. THE CONTRACTOR SHALL RECOGNIZE AND ABIDE BY ALL OSHA EXCAVATION SAFETY STANDARDS, INCLUDING THE FLORIDA TRENCH SAFETY ACT (FS 553.60-553.64). ANY MATERIAL, CONSTRUCTION METHODS, OR MATERIAL COST TO COMPLY WITH THESE LAWS SHALL BE INCIDENTAL TO THE CONTRACT.

2. ROUGH EXCAVATE AND GRADE ANY PROPOSED STORMWATER PONDS AT THE START OF SITE GRADING ACTIVITIES. DIRECT SITE RUNOFF TO THE PONDS TO MINIMIZE RUNOFF TO OFFSITE AREAS.

3. POND CONSTRUCTION SHALL RESULT IN THE FINISHED POND HAVING SIDE SLOPES AND DIMENSIONS THAT ARE IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THAT THESE REQUIREMENTS HAVE BEEN MET. IF THE CONSTRUCTED SIDE SLOPES ARE STEEPER THAN THE REQUIRED SIDE SLOPES, OR THE POND VOLUME IS NOT WITHIN THREE (3) PERCENT OF THE DESIGN VOLUME, THE CONTRACTOR SHALL BE REQUIRED TO MAKE CORRECTIONS TO THE POND AT NO ADDITIONAL COST TO THE OWNER.

4. FIELD DENSITY TESTING FREQUENCIES: A) ONE TEST FOR EACH 10,000 SQUARE FEET OR FRACTION THEREOF PER LIFT OF GENERAL BACKFILLING, MINIMUM 2 TESTS EACH LAYER; B) ONE TEST FOR EACH 100 SQUARE FEET OR FRACTION THEREOF OF BACKFILL AROUND AND UNDER STRUCTURES; C) ONE TEST FOR EACH 300 LINEAL FEET OR FRACTION THEREOF PER LIFT OF GENERAL BACKFILLING IN THE PIPELINE TRENCH; D) ONE TEST PER LIFT PER EACH CHANGE IN TYPE OF FILL; E) ONE TEST PER 1000 SQUARE FEET OF PAVEMENT SUBGRADE, MINIMUM OF 2 TESTS.

5. IT IS INTENDED THAT PREVIOUSLY EXCAVATED MATERIALS CONFORMING TO THE FOLLOWING REQUIREMENTS BE UTILIZED WHEREVER POSSIBLE.

A. ACCEPTABLE MATERIALS: AASHTO M145 CLASSIFICATION A-1, A-3, A-2-4, A-2-6; ASTM D2487 CLASSIFICATION GW, GP, GM, SM, SW, SP; UNLESS OTHERWISE DISAPPROVED WITHIN THE SOIL AND SUBSURFACE INVESTIGATION REPORTS. NO MORE THAN 12% OF ACCEPTABLE MATERIALS SHALL PASS THE NUMBER 200 SIEVE.

B. UNACCEPTABLE MATERIALS: AASHTO M145 CLASSIFICATION A-2-5, A-2-7, A-4, A-5, A-6, A-7, A-8; ASTM D2487 CLASSIFICATION GC, SC, ML, MH, CL, CH, OL, OH, PT; UNLESS OTHERWISE APPROVED WITHIN THE SOIL AND SUBSURFACE INVESTIGATION REPORTS.

6. PROVIDE BARRIERS, WARNING LIGHTS AND OTHER PROTECTIVE DEVICES AT ALL EXCAVATIONS.

7. SIDEWALKS, ROADS, STREETS, AND PAVEMENTS SHALL NOT BE BLOCKED OR OBSTRUCTED BY EXCAVATED MATERIALS, EXCEPT AS AUTHORIZED BY THE ENGINEER, IN WHICH CASE ADEQUATE TEMPORARY PROVISIONS MUST BE MADE FOR SATISFACTORY TEMPORARY PASSAGE OF PEDESTRIANS, AND VEHICLES. MINIMIZE INCONVENIENCE TO PUBLIC TRAVEL OR TO TENANTS OCCUPYING ADJOINING PROPERTY.

8. FURNISH, INSTALL, AND MAINTAIN, WITHOUT ADDITIONAL COMPENSATION, SHEETING, BRACING, AND SHORING SUPPORT REQUIRED TO KEEP EXCAVATIONS WITHIN THE PROPERTY OR EASEMENTS PROVIDED, TO SUPPORT THE SIDES OF THE EXCAVATION, AND TO PREVENT ANY MOVEMENT WHICH MAY DAMAGE ADJACENT PAVEMENTS OR STRUCTURES, DAMAGE OR DELAY THE WORK, OR ENDANGER LIFE AND HEALTH. VOIDS OUTSIDE THE SUPPORTS SHALL BE IMMEDIATELY FILLED AND COMPACTED.

9. SHEETING, SHORING, AND BRACING USED FOR THE SUPPORT OF EXCAVATIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED BY THE STATE OF FLORIDA.

10. ALL EXCAVATIONS SHALL BE MADE BY OPEN CUT UNLESS OTHERWISE INDICATED. SLOPE SIDES OF TRENCHES IN ACCORDANCE WITH OSHA REQUIREMENTS AND THE RECOMMENDATIONS CONTAINED WITHIN THE PROJECT GEOTECHNICAL REPORT.

11. EXCAVATE TRENCHES TO DEPTH INDICATED OR REQUIRED FOR INDICATED FLOW LINES AND INVERT ELEVATIONS. OVER EXCAVATE TRENCHES A MINIMUM OF 2 FEET WHERE EXCAVATIONS OCCUR WITHIN UNSUITABLE SOILS, AND REPLACE OVER EXCAVATED MATERIAL WITH SUITABLE SOILS.

12. TRENCH BOTTOMS AND THE BOTTOMS OF ALL STRUCTURES SHALL BE KEPT DRY, COMPACTED, AND STABLE TO A DEPTH TWO FEET BELOW THE BOTTOM OF THE TRENCH OR STRUCTURE.

13. ALL BEDDING, FILL, AND BACKFILL MATERIAL SHALL BE SUITABLE SOILS OR FLOWABLE FILL. WHERE TRENCH OR EXCAVATION IS WITHIN THE INFLUENCE AREA OF ROADWAYS, STRUCTURES, FOUNDATIONS, OR SLABS, PLACE BACKFILL IN LAYERS OF 8 INCH LOOSE DEPTH. IN ALL OTHER AREAS, PLACE FILL AND BACKFILL IN LAYERS OF 12 INCH LOOSE DEPTH.

14. MINIMUM DENSITY REQUIREMENT (ASTM D1557 OR AASHTO T180): BACKFILL AND FILL UNDER AND WITHIN THE INFLUENCE AREA OF ROADWAYS, STRUCTURES, SLABS, FOUNDATIONS = 98 PERCENT; BACKFILL AND FILL PLACED WITHIN PUBLIC ROAD RIGHT-OF-WAY AND UTILITY EASEMENTS = 95 PERCENT; BACKFILL AND FILL PLACED WITHIN POND AND ROAD EMBANKMENT = 95 PERCENT; BACKFILL AND FILL PLACED IN ALL OTHER AREAS = 90 PERCENT.

RIPRAP

1. ALL RIPRAP CONSTRUCTION SHALL MEET THE REQUIREMENTS OF SECTION 530 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

UTILITY SEPARATION REQUIREMENTS

1. THE HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SANITARY SEWER, STORM SEWER, WASTEWATER FORCE MAINS, STORMWATER FORCE MAINS, RECLAIMED WATER MAINS AND ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

A. THE OUTSIDE OF WATER MAINS SHALL BE A MINIMUM OF FIVE FEET FROM THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, VACUUM TYPE SANITARY SEWER AND RECLAIMED WATER MAIN.

B. THE OUTSIDE OF WATER MAINS SHALL BE A MINIMUM OF TEN FEET FROM THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY SANITARY SEWER AND WASTEWATER FORCE MAIN. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN THE OUTSIDE OF WATER MAINS AND THE OUTSIDE OF GRAVITY SANITARY SEWERS CAN BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS AT LEAST EIGHTEEN INCHES ABOVE THE TOP OF THE SEWER.

C. THE OUTSIDE OF WATER MAINS SHALL BE A MINIMUM OF TEN FEET FROM ALL PARTS OF ANY EXISTING OR PROPOSED ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM SUCH AS SEPTIC TANKS, DRAINFIELDS, AND GREASE TRAPS. ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS DO NOT INCLUDE PACKAGE SEWAGE TREATMENT FACILITIES AND PUBLIC WASTEWATER TREATMENT FACILITIES.

2. THE VERTICAL SEPARATION BETWEEN WATER MAINS AND SANITARY AND STORM SEWER, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER MAINS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

A. WHEREVER POSSIBLE, WATER MAINS SHALL CROSS OVER EXISTING OR PROPOSED GRAVITY SANITARY SEWER, VACUUM TYPE SANITARY SEWER, AND STORM SEWER, SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE OUTSIDE OF THE SEWER. WHERE IT IS NOT POSSIBLE FOR THE WATER MAIN TO CROSS OVER EXISTING OR PROPOSED GRAVITY SANITARY SEWER, VACUUM TYPE SANITARY SEWER, AND STORM SEWER, THEN THE WATER MAIN CAN CROSS UNDER THESE TYPES OF PIPELINE SYSTEMS PROVIDED THE OUTSIDE OF THE WATER MAIN IS AT LEAST 18 INCHES BELOW THE OUTSIDE OF THE PIPELINE. AT THE CROSSING, THE PROPOSED PIPE JOINTS SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST FIVE FEET FROM VACUUM TYPE SANITARY SEWER OR STORM SEWER JOINTS, AND AT LEAST TEN FEET FROM GRAVITY SANITARY SEWER JOINTS.

B. WHEREVER POSSIBLE, WATER MAINS SHALL CROSS OVER EXISTING OR PROPOSED RECLAIMED WATER MAINS, WASTEWATER FORCE MAINS AND STORMWATER FORCE MAINS. WHETHER THE WATER MAIN CROSSES OVER OR UNDER THESE TYPES OF PIPELINE SYSTEMS, THE OUTSIDE OF THE WATER MAIN SHALL BE AT LEAST 18 INCHES FROM THE OUTSIDE OF THE EXISTING OR PROPOSED RECLAIMED WATER MAIN, WASTEWATER FORCE MAIN AND STORMWATER FORCE MAIN. AT THE CROSSING, THE PROPOSED PIPE JOINTS SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST FIVE FEET FROM RECLAIMED WATER MAIN JOINTS AND STORMWATER FORCE MAIN JOINTS, AND AT LEAST TEN FEET FROM THE JOINTS OF WASTEWATER FORCE MAINS.

3. NO WATER MAIN SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY SEWER MANHOLE.

4. NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SUCH THAT THE UNDERGROUND DRAIN (WEEP HOLE) IS AT LEAST:

A. FIVE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, RECLAIMED WATER MAIN, OR VACUUM TYPE SANITARY SEWER.

B. TEN FEET FROM ANY EXISTING OR PROPOSED GRAVITY SANITARY SEWER AND WASTEWATER FORCE MAIN.

C. TEN FEET FROM ANY ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM SUCH AS SEPTIC TANKS, DRAINFIELDS, AND GREASE TRAPS. ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS DO NOT INCLUDE PACKAGE SEWAGE TREATMENT FACILITIES AND PUBLIC WASTEWATER TREATMENT FACILITIES.

WATER AND RECLAIMED WATER DISTRIBUTION SYSTEMS

1. THE ENTITY THAT WILL OPERATE AND MAINTAIN THE WATER AND RECLAIMED WATER SYSTEMS SHOWN ON THESE PLANS IS THE CITY OF VENICE. THE CONTRACTOR SHALL MEET ALL THE REQUIREMENTS OF THE CITY OF VENICE.

2. INSTALL ALL WATER AND RECLAIMED MAINS AT A MINIMUM 36 INCHES OF COVER.

3. BURIED DUCTILE IRON PIPE SHALL COMPLY WITH THE FOLLOWING PRESSURE CLASS (PC) DESIGNATIONS UNLESS OTHERWISE INDICATED ON THE DRAWINGS: A) 12" DIAMETER AND SMALLER = PC 350; B) 14" THROUGH 24" DIAMETER = PC 250; C) 30" THROUGH 64" DIAMETER = PC 200.

4. DUCTILE IRON PIPE AND FITTINGS WITHIN 10 FEET OF GAS MAINS SHALL HAVE AN 8-MIL POLYETHYLENE WRAP IN ACCORDANCE WITH ANSI/AWWA C105/A21.5.

5. PVC PIPE SHALL BE NATIONAL SANITATION FEDERATION (NSF) APPROVED. PIPE SHALL HAVE MARKINGS ON EACH SECTION SHOWING CONFORMANCE TO THE ABOVE SPECIFICATIONS. JOINTS SHALL BE RUBBER GASKETED CONFORMING TO AWWA C900 OR C905 THE BELL SHALL BE INTEGRAL WITH THE PIPE AND OF EQUAL OR GREATER PRESSURE RATING. THE BELL OF PIPE AND FITTINGS USING PUSH-ON JOINTS SHALL HAVE AN INTEGRAL GROOVE TO RETAIN THE GASKET IN PLACE.

6. ALL FITTINGS SHALL BE MANUFACTURED OF DUCTILE IRON, CONFORMING TO ANSI/AWWA C110/A21.10 OR ANSI/AWWA C153/A21.53. ALL FULL BODY (C110/A21.10) FITTINGS SHALL BE PRESSURE RATED TO 250 PSI, MINIMUM. ALL COMPACT FITTINGS (C153/A21.53) SHALL BE PRESSURE RATED TO 350 PSI, MINIMUM.

7. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE LINED AND COATED. INTERIOR LINING SHALL BE STANDARD THICKNESS CEMENT MORTAR LINING PER ANSI/AWWA C104/A21.4. EXTERIOR COATING FOR BURIED PIPE AND FITTINGS SHALL BE A PETROLEUM ASPHALTIC COATING IN ACCORDANCE WITH ANSI/AWWA C110/A21.10. EXTERIOR COATING OF EXPOSED PIPE AND FITTINGS SHALL BE FACTORY APPLIED RUST INHIBITING EPOXY PRIMER, MINIMUM 3 MILS DRY FILM THICKNESS. AFTER INSTALLATION, EXTERIOR SURFACES SHALL BE PAINTED WITH A TWO COAT SYSTEM. THE FIRST COAT (INTERMEDIATE COAT) SHALL BE 4.0-10.0 MIL DFT TNEMEC COLOR HI-BUILD EPOXOLINE II SERIES N69 OR APPROVED EQUAL, AND THE FINAL COAT SHALL BE 2.0-3.0 MIL DFT TNEMEC ENDURASHIELD SERIES 73 OR APPROVED EQUAL. THE FINAL COAT PAINT COLOR SHALL BE AS SELECTED BY THE LOCAL UTILITY.

8. MECHANICAL AND PUSH ON JOINTS FOR DUCTILE IRON PIPE AND FITTINGS SHALL BE RUBBER GASKETED, CONFORMING TO ANSI/AWWA C111/A21.11. LUBRICANTS OTHER THAN THAT FURNISHED BY THE PIPE MANUFACTURER WITH THE PIPE SHALL NOT BE USED.

9. RESTRAINED JOINTS FOR DUCTILE IRON PIPE BELL JOINTS SHALL BE AMERICAN FAST GRIP GASKET, MCWANE SURE GRIP 350 GASKET, U.S. PIPE FIELD LOK 350 GASKET, OR EBAA IRON MEGA LUG SERIES 1100HD. RESTRAINED JOINTS FOR DUCTILE IRON PIPE AND FITTING MECHANICAL JOINTS SHALL BE EBAA IRON MEGA LUG SERIES 1100, STAR GRIP SERIES 3000, OR TYLER UNION TUF-GRIP SERIES TLD. LOCKING BELL JOINT RESTRAINT SHALL BE AMERICAN FLEX RING JOINT, AMERICAN LOK-RING JOINT, OR U.S. PIPE TR-FLEX. RESTRAINED JOINTS FOR PVC PIPE MECHANICAL JOINTS SHALL BE TYLER UNION SERIES 2000 TUF GRIP TLP, JCM SUR-GRIP BELL RESTRAINER, FORD UNI-FLANGE SERIES 1500 CIRCLE LOCK, OR EBAA IRON MEGA LUG SERIES 2000PV. RESTRAINED JOINTS FOR PVC PIPE PUSH ON JOINTS SHALL BE EBAA IRON MEGA LUG SERIES 1500 OR SERIES 1600 (C900 PVC), SERIES 2800 (C905 PVC), FORD UNI-FLANGE SERIES 1390, OR SMITH-BLAIR BELL-LOK SERIES 165. PIPE JOINTS SHALL BE RESTRAINED UPSTREAM AND DOWNSTREAM OF FITTINGS IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS OR THE TABLE SHOWN IN THE DRAWINGS, WHICHEVER IS GREATER.

10. POLYETHYLENE PIPE AND TUBING SHALL BE COLOR CODED BLUE (POTABLE WATER) OR PURPLE (RECLAIMED WATER). PIPE AND FITTINGS SHALL BE NSF APPROVED FOR THE USAGE TO WHICH THEY ARE TO BE APPLIED. JOINTS IN SDR-PR PE PIPE SHALL BE BUTT HEAT FUSION OR SOCKET HEAT FUSION TYPE. FITTINGS SHALL BE MANUFACTURED OF THE SAME MATERIAL AS THE PIPE AND SHALL BE OF THE SAME SDR OR LESS. PROVIDE ADAPTERS AS REQUIRED TO JOIN PE PIPE TO PIPE, FITTINGS AND EQUIPMENT OF OTHER MATERIALS.

11. SERVICE SADDLES SHALL MEET THE REQUIREMENTS OF AWWA C800 AND SHALL CONSIST OF EPOXY COATED DUCTILE IRON BODIES IN ACCORDANCE WITH ASTM A536, WITH DOUBLE STAINLESS STEEL STRAPS, BOLTS, WASHERS AND NUTS. STAINLESS STEEL SHALL BE TYPE 304, AND NUTS ARE TO BE TEFLON COATED. THE DUCTILE IRON BODY IS TO BE FUSION BONDED NYLON COATED, MINIMUM THICKNESS 12 MILS, OUTLET OF SADDLE IS TO HAVE NPT THREADS. SERVICE SADDLES SHALL BE MANUFACTURED BY FORD, MUELLER, OR SMITH-BLAIR.

12. ALL SERVICES SHALL INCLUDE THE FOLLOWING: CURB STOPS, UNIONS AS REQUIRED, CORPORATION STOPS. CONFORMANCE WITH AWWA C800 AND C901 IS REQUIRED. THE CONTRACTOR SHALL CUT "W" IN THE TOP CURB OF EACH WATER SERVICE AND A "V" AT ALL VALVE LOCATIONS. CUT W'S AND V'S SHALL BE HIGHLIGHTED WITH BLUE PAINT.

13. UNLESS OTHERWISE NOTED IN THE PLANS, THE UTILITY COMPANY SHALL PROVIDE AND INSTALL WATER METERS AND RECLAIMED WATER METERS. CONTRACTOR SHALL CONSTRUCT WATER SERVICE AND RECLAIMED WATER SERVICE TO THE CORPORATION STOP.

14. UNLESS OTHERWISE INDICATED OR SPECIFIED, ALL VALVES TWO INCHES AND SMALLER SHALL BE ALL BRASS OR BRONZE; VALVES OVER TWO INCHES SHALL BE IRON BODY, FULLY BRONZE OR BRONZE MOUNTED.

15. VALVES 4 INCHES AND LARGER SHALL BE LINED AND COATED. BURIED AND EXPOSED VALVES SHALL BE COATED INSIDE AND OUT WITH A RUST INHIBITING EPOXY PRIMER, FOLLOWED BY AN EPOXY COATING MEETING THE REQUIREMENTS OF AWWA C550, APPLIED AT THE FACTORY. THE INTERIOR OF VALVES WITH A CAST IRON OR DUCTILE IRON BODY SHALL BE COATED WITH AN EPOXY PROTECTIVE COATING MEETING NSF INTERNATIONAL STANDARD 61 AND AWWA C550. AFTER INSTALLATION, EXTERIOR SURFACES SHALL BE PAINTED WITH A TWO COAT SYSTEM. THE FIRST COAT (INTERMEDIATE COAT) SHALL BE 4.0-10.0 MIL DFT TNEMEC COLOR HI-BUILD EPOXOLINE II SERIES N69 OR APPROVED EQUAL, AND THE FINAL COAT SHALL BE 2.0-3.0 MIL DFT TNEMEC ENDURASHIELD SERIES 73 OR APPROVED EQUAL. THE FINAL COAT PAINT COLOR SHALL BE AS SELECTED BY THE LOCAL UTILITY.

16. ALL VALVES 12" AND SMALLER SHALL BE GATE VALVES UNLESS OTHERWISE INDICATED ON THE DRAWINGS. GATE VALVES 3 INCHES TO 12 INCHES SHALL CONFORM TO AWWA C509 OR AWWA C515. THE VALVES SHALL BE IRON BODY, CAST IRON FULLY ENCAPSULATED MOLDED RUBBER WEDGE COMPLYING WITH ASTM D2000, NON-RISING STEM WITH O-RING SEALS. VALVES SHALL OPEN COUNTERCLOCKWISE.

17. TAPPING SLEEVES ARE TO BE 18-8 TYPE 304 STAINLESS STEEL AND STAINLESS STEEL OUTLET, AS MANUFACTURED BY JCM OR APPROVED EQUAL. TAPPING VALVES SHALL BE RESILIENT SEATED GATE VALVES AND SHALL CONFORM TO THE REQUIREMENTS OF AWWA C509. TAPPING VALVES SHALL BE AMERICAN FLOW CONTROL SERIES 2500, CLOW SERIES F-6100, OR MUELLER SERIES A2361.

18. VALVES 14" AND LARGER SHALL BE BUTTERFLY VALVES. BUTTERFLY VALVES SHALL MEET OR EXCEED THE DESIGN STRENGTH, TESTING AND PERFORMANCE REQUIREMENTS OF AWWA C504, CLASS 150. VALVE BODY SHALL BE MECHANICAL JOINT END TYPE VALVE CONSTRUCTED OF CAST IRON OR DUCTILE IRON. DISC SHALL BE ONE PIECE CAST DESIGN WITH NO EXTERNAL RIBS TRANSVERSE TO FLOW. DISC SHALL BE CAST IRON OR DUCTILE IRON. THE RESILIENT SEAT SHALL MATE WITH A 304 OR 316 STAINLESS STEEL SURFACE.

19. VALVE SEATS SHALL BE MECHANICALLY RETAINED, AND MAY BE INSTALLED ON EITHER THE BODY OR DISC. O-RING SEATS ON VALVE DISCS ARE UNACCEPTABLE. SEATS FOR VALVES 14" DIAMETER AND LARGER SHALL BE FULLY FIELD REPLACEABLE WITHOUT THE USE OF SPECIAL TOOLS. OPERATORS OF THE ENCLOSED TRAVELING-NUT TYPE SHALL BE PROVIDED UNLESS OTHERWISE INDICATED.

20. ALL BURIED VALVES SHALL BE PROVIDED WITH ADJUSTABLE VALVE BOXES APPROXIMATELY 5 INCHES IN DIAMETER WITH A MINIMUM THICKNESS OF 3/16 INCH CAST IRON. BOXES SHALL BE OF SUFFICIENT LENGTH TO OPERATE ALL VALVES BURIED IN THE GROUND, CONSISTING OF BASE, CENTER SECTION, AND TOP SECTION WITH COVER. VALVE BOXES LOCATED IN UNPAVED AREAS SHALL BE SLIP TYPE DESIGN TO PERMIT MOVEMENT OF THE TOP SECTION WITHOUT TRANSMITTING FORCES ONTO THE VALVE BODY. VALVE BOXES CAST INTO CONCRETE OR ASPHALT SURFACING SHALL HAVE BRASS COVERS. ALL VALVE BOX COVERS SHALL BE INTERNALLY CHAINED TO VALVE BOXES WITH AN APPROXIMATELY 18 INCH GALVANIZED CHAIN. VALVE BOX COVERS SHALL BE CAST WITH THE INSCRIPTION "WATER" OR "RECLAIMED WATER".

21. PVC PIPES SHALL BE COLOR CODED BLUE (WATER MAINS) OR PURPLE (RECLAIMED WATER MAINS) AND STENCILED (0.75-INCH LETTERING ON THE PIPE IN AT LEAST THREE AREAS PER PIPE SECTION) "POTABLE WATER MAIN" OR "RECALIMED WATER MAIN" AS APPLICABLE.

22. INSTALL IDENTIFICATION TAPE ALONG ALL DUCTILE IRON PIPE AND PVC PIPE, MINIMUM THICKNESS 4 MILS, WIDTH 6 INCHES, LETTER SIZE 1 INCH. APPLY TAPE TO SURFACE OF PIPE, CONTINUOUSLY EXTENDING FROM JOINT TO JOINT. TAPE COLOR AND LETTERING SHALL BE BLACK PRINTING ON BLUE BACKGROUND (WATER MAINS), BLACK PRINTING ON PURPLE BACKGROUND (RECLAIMED WATER MAINS). PLACE TAPE AS FOLLOWS: 2" - 8" PIPE - CENTER ALONG TOP HALF OF PIPE; 10" - 18" PIPE - PLACE ALONG BOTH SIDES OF THE TOP HALF OF PIPE; 20" PIPE AND LARGER - PLACE ON BOTH SIDES OF TOP HALF OF PIPE WITH A THIRD STRIP CENTERED ALONG TOP HALF OF PIPE.

23. INSTALL WARNING TAPE ALONG ALL PIPELINES, PLACED 2 FEET ABOVE PIPE. TAPE SHALL BE 6-INCH WIDE VINYL CONTINUOUS TAPE. TAPE SHALL BE COLORED BLUE (WATER MAINS) OR PURPLE (RECLAIMED WATER MAINS) WITH BLACK LETTERING, CODED AND WORDED "CAUTION: WATER MAIN BURIED BELOW", OR "CAUTION: RECLAIMED WATER MAIN BURIED BELOW", AS APPLICABLE.

24. INSTALL LOCATING WIRE ALONG ALL PVC PIPELINES. WIRE SHALL BE COLOR-CODED 10 GAUGE CONTINUOUS INSULATED WIRE. COLOR CODING SHALL BE SIMILAR TO WARNING TAPE COLORS. INSTALL LOCATOR WIRE ALONG ALL PRESSURIZED PIPELINES 2" AND LARGER. LOOP WIRE INTO ALL VALVE BOXES. LOOPING TO OCCUR EVERY 500 FEET MINIMUM. WHERE THERE ARE NO VALVE BOXES TO ALLOW LOOPING, PROVIDE ACCESS BOXES PER CITY REQUIREMENTS. CHECK WIRE FOR ELECTRICAL CONTINUITY.

25. ALL CHANGES IN DIRECTION SHALL BE MADE WITH FITTINGS OR APPROVED JOINT DEFLECTION. BENDING OF PIPE, EXCEPT COPPER AND POLYETHYLENE, IS PROHIBITED. JOINT DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION.

26. TEST PROCEDURES SHALL BE APPROVED BY THE ENGINEER. ALL TESTS SHALL BE MADE IN THE PRESENCE OF THE ENGINEER AND UTILITY. NOTIFY THE ENGINEER AND THE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY WORK IS TO BE INSPECTED OR TESTED.

27. PROVIDE ALL EQUIPMENT FOR TESTING. INCREMENTS ON GAGES USED FOR LOW PRESSURE AIR TESTING SHALL BE OF SCALED TO THE NEAREST 0.1 PSI. GAGES, PUMPS, AND HOSES SHALL BE IN GOOD WORKING ORDER WITH NO NOTICEABLE LEAKS.

28. ALL SERVICE LINES SHALL BE COMPLETED PRIOR TO TESTING, AND ARE SUBJECT TO THE SAME TESTING REQUIREMENTS AS THE MAIN LINE.

29. THE SEQUENCE OF TESTING AND DISINFECTION SHALL BE AS FOLLOWS: 1) CONDUCT PRESSURE AND LEAKAGE TESTING; 2) PERFORM FLUSHING PER UTILITY REQUIREMENTS AND AWWA C651; 3) DISINFECT THE WATER MAIN, INCLUDING VALVES AND FITTINGS; AND 4) DECHLORINATE AND FLUSH AFTER DISINFECTION.

30. APPLY HYDROSTATIC TEST PRESSURE OF 150 PSI (WATER MAINS), 200 PSI (FIRE MAINS), OR 150 PSI (RECLAIMED WATER MAINS) FOR 10 MINUTES AND FOR SUCH ADDITIONAL PERIOD NECESSARY FOR THE ENGINEER TO COMPLETE THE INSPECTION OF THE LINE UNDER TEST. DO NOT EXCEED PIPE MANUFACTURER'S SUGGESTED TIME DURATION AT THE TEST PRESSURE. IF DEFECTS ARE NOTED, REPAIRS SHALL BE MADE AND THE TEST REPEATED UNTIL ALL PARTS OF THE LINE WITHSTAND THE TEST PRESSURE.

31. APPLY LEAKAGE TEST PRESSURE OF 150 PSI (WATER MAINS), 200 PSI (FIRE MAINS) OR 150 PSI (RECLAIMED WATER MAINS). MAINTAIN PRESSURE AT A MAXIMUM VARIATION OF 5% DURING THE ENTIRE LEAKAGE TEST. THE DURATION OF THE LEAKAGE TEST SHALL BE TWO HOURS MINIMUM, AND FOR SUCH ADDITIONAL TIME NECESSARY FOR THE ENGINEER TO COMPLETE INSPECTION OF THE SECTION OF LINE UNDER TEST. LEAKAGE MEASUREMENTS SHALL NOT BE STARTED UNTIL A CONSTANT TEST PRESSURE HAS BEEN ESTABLISHED. THE LINE LEAKAGE SHALL BE MEASURED BY MEANS OF A WATER METER INSTALLED ON THE SUPPLY SIDE OF THE PRESSURE PUMP.

32. NO LEAKAGE IS ALLOWED IN EXPOSED PIPING, BURIED PIPING WITH FLANGED, THREADED, OR WELDED JOINTS OR BURIED NON-POTABLE PIPING IN CONFLICT WITH POTABLE WATER LINES.

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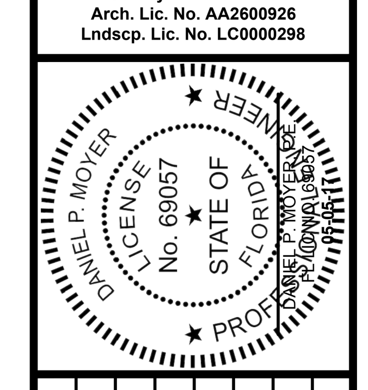

No.	Date	Revision
1	4/20/17	RESUBMIT TO THE CITY OF VENICE
2	5/05/17	RESUBMIT TO THE CITY OF VENICE
3		
4		
5		
6		
7		

Designed: K. Upp
Drawn: K. Upp
Checked: D. Moyer
Scale: As Noted
Job No.: S29701
Date: 12/16

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GENERAL NOTES SHEET

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Sheet No.

C0.2

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND.

33. TESTED SECTIONS OF BURIED PIPING WITH SLIP-TYPE OR MECHANICAL JOINTS WILL NOT BE ACCEPTED IF IT HAS A LEAKAGE RATE IN EXCESS OF THAT RATE DETERMINED BY THE FORMULA L = SDP/148000 WHERE L = MAXIMUM PERMISSIBLE LEAKAGE RATE, IN GALLONS PER HOUR, THROUGHOUT THE ENTIRE LENGTH OF LINE BEING TESTED; S = LENGTH OF LINE TESTED (IN FEET); D = NOMINAL INTERNAL DIAMETER (IN INCHES) OF THE PIPE; AND P = THE SQUARE ROOT OF THE ACTUAL PRESSURE IN PSIG ON ALL JOINTS IN THE TESTED PORTION OF THE LINE. THIS ACTUAL PRESSURE SHALL BE DETERMINED BY FINDING THE DIFFERENCE BETWEEN THE AVERAGE ELEVATION OF ALL TESTED PIPE JOINTS AND THE ELEVATION OF THE PRESSURE GAUGE AND ADDING THE DIFFERENCE IN ELEVATION HEAD TO THE AUTHORIZED TEST PRESSURE.

34. ALL APPARENT LEAKS DISCOVERED WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER SHALL BE LOCATED AND REPAIRED BY CONTRACTOR, REGARDLESS OF THE TOTAL LINE LEAKAGE RATE.

35. PRIOR TO DISINFECTION, CONDUCT FULL DIAMETER FLUSHING OF PIPELINE IN SECTIONS IN ORDER TO REMOVE ANY SOLIDS OR CONTAMINATED MATERIAL THAT MAY HAVE BECOME LODGED IN THE PIPE.

36. OBTAIN A MINIMUM FLUSHING VELOCITY OF 2.5 FEET PER SECOND PER AWWA C651.

37. ALL TAPS REQUIRED FOR FLUSHING AND THE TEMPORARY OR PERMANENT RELEASE OF AIR AS NEEDED FOR FLUSHING SHALL BE PROVIDED BY THE CONTRACTOR.

38. DISINFECT ALL POTABLE WATER LINES, FIRE LINES, VALVES, FITTINGS, HYDRANTS. THE WATER MAIN DISINFECTION AND BACTERIOLOGICAL SAMPLING AND METHODS OF DISINFECTION FOR ALL WATER CONTAINMENT DEVICES AND PIPING SYSTEMS SHALL CONFORM TO AWWA C651. THE DISCHARGE LOCATIONS FOR THE CHLORINATED WATER SHALL BE APPROVED BY THE OWNER. NEUTRALIZE THE CHLORINE RESIDUAL BY MEANS OF A REDUCING AGENT IN ACCORDANCE WITH AWWA C651.

39. ALL DISINFECTION WORK SHALL BE ACCEPTABLE TO THE STATE HEALTH AUTHORITY. IF ANY REQUIREMENTS OF THIS SECTION ARE IN CONFLICT WITH REQUIREMENTS OF THE AUTHORITY FOR DISINFECTION, THOSE OF THE AUTHORITY SHALL GOVERN. ALL BACTERIOLOGICAL TESTING SHALL BE PERFORMED BY A STATE CERTIFIED LABORATORY CONTRACTED BY THE CONTRACTOR. PROPER CHAIN OF CUSTODY PROCEDURES MUST BE FOLLOWED AND SAMPLES SHALL ONLY BE COLLECTED BY CERTIFIED LABORATORY PERSONNEL. COPIES OF ALL TESTING RESULTS AND ALL RELATED CORRESPONDENCE FROM THE TESTING LAB SHALL BE SUBMITTED TO THE OWNER, UTILITY, AND ENGINEER.

FIRE PROTECTION SYSTEMS

1. COMBUSTIBLE CONSTRUCTION CANNOT OCCUR UNTIL PROPER DOCUMENTATION HAS BEEN SUBMITTED TO THE LOCAL FIRE MARSHAL. DOCUMENTATION SHALL SHOW THAT HYDRANTS HAVE BEEN INSTALLED, TESTED, AND ARE IN PROPER WORKING ORDER.

2. INSTALL ALL FIRE LINE PIPING AT A MINIMUM 36 INCHES OF COVER.

3. THE CONTRACTOR INSTALLING THE UNDERGROUND FIRE PROTECTION PIPING SHALL HOLD A CLASS I, II, OR LEVEL V CERTIFICATION AS ISSUED BY THE STATE OF FLORIDA, AS REQUIRED BY FS 633.021(5).

4. ALL FIRE PROTECTION SPRINKLER SYSTEMS INSTALLED SHALL COMPLY WITH NFPA 13, AND SHALL BE MONITORED BY A COMPANY LISTED AS A CENTRAL STATION.

5. HYDRANTS SHALL CONFORM TO AWWA C502 AND SHALL BE FURNISHED COMPLETE WITH WRENCH AND OTHER APPURTENANCES. MANUFACTURER'S CERTIFICATION OF COMPLIANCE WITH AWWA C502 AND TESTS LISTED THEREIN WILL BE REQUIRED.

6. ALL HYDRANTS SHALL BE OF BREAKABLE TYPE, WITH THE BREAKABLE SECTION LOCATED SLIGHTLY ABOVE THE FINISH GROUND LINE. HYDRANTS SHALL CONTAIN TWO-TWO AND A HALF INCH (2-1/2") HOSE CONNECTIONS AND ONE-FOUR AND A HALF INCH (4-1/2") STEAMER CONNECTIONS WITH NATIONAL STANDARD FIRE HOSE COUPLING SCREW THREADS, FIVE AND ONE QUARTER INCH (5-1/4") VALVE OPENING, SIX INCH (6") DIAMETER MECHANICAL JOINT INLET, ONE AND ONE-HALF INCH (1-1/2") PENTAGON OPERATING NUT. THE HYDRANTS SHALL OPEN COUNTERCLOCKWISE.

7. ALL HYDRANTS SHALL BE PAINTED IN AN APPROVED MANNER WITH THE PRIMER PAINT BEING KOPPER'S "GLAMORTEX" NO. 622 RUST PRIMER AND THE FINISH PAINT SHALL BE TWO COATS OF ENAMEL OR SPECIAL COATING TO COLOR AS REQUIRED BY THE LOCAL FIRE DEPARTMENT.

8. BLUE PAVEMENT REFLECTORS (CAT EYES) SHALL BE PLACED IN THE CENTERLINE OF THE DRIVING LANE DIRECTLY IN FRONT OF ALL FIRE HYDRANTS. THERE SHALL BE NO TREES, SHRUBS, OR LANDSCAPING PLANTED AROUND THE FIRE HYDRANTS OR IN AREAS DESIGNATED AS FIRE LANES.

9. NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SUCH THAT THE UNDERGROUND DRAIN (WEEP HOLE) IS AT LEAST: THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, RECLAIMED WATER MAIN, OR VACUUM TYPE SANITARY SEWER; SIX FEET FROM ANY EXISTING OR PROPOSED GRAVITY SANITARY SEWER AND WASTEWATER FORCE MAIN; AND TEN FEET FROM ANY ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM SUCH AS SEPTIC TANKS, DRAINFIELDS, AND GREASE TRAPS. ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS DO NOT INCLUDE PACKAGE SEWAGE TREATMENT FACILITIES AND PUBLIC WASTEWATER TREATMENT FACILITIES.

10. THE SEQUENCE OF TESTING AND DISINFECTION SHALL BE AS FOLLOWS: 1) CONDUCT FIRE FLOW, PRESSURE AND LEAKAGE TESTING; 2) PERFORM FLUSHING PER UTILITY REQUIREMENTS AND AWWA C651; 3) DISINFECT THE WATER MAIN, INCLUDING VALVES AND FITTINGS; AND 4) FLUSH AFTER DISINFECTION.

11. THE CONTRACTOR SHALL PROVIDE A POST-CONSTRUCTION FIRE FLOW TEST WITNESSED AND APPROVED BY THE ENGINEER AND THE UTILITY. HYDRANTS SHALL DELIVER A MINIMUM OF 1250 GPM WITH A RESIDUAL PRESSURE OF 20 PSI.

12. APPLY HYDROSTATIC TEST PRESSURE OF 200 PSI (FIRE MAINS) FOR 10 MINUTES AND FOR SUCH ADDITIONAL PERIOD NECESSARY FOR THE ENGINEER TO COMPLETE THE INSPECTION OF THE LINE UNDER TEST. DO NOT EXCEED PIPE MANUFACTURER'S SUGGESTED TIME DURATION AT THE TEST PRESSURE. IF DEFECTS ARE NOTED, REPAIRS SHALL BE MADE AND THE TEST REPEATED UNTIL ALL PARTS OF THE LINE WITHSTAND THE TEST PRESSURE.

13. APPLY LEAKAGE TEST PRESSURE OF 200 PSI (FIRE MAINS) MAINTAIN PRESSURE AT A MAXIMUM VARIATION OF 5% DURING THE ENTIRE LEAKAGE TEST. THE DURATION OF THE LEAKAGE TEST SHALL BE TWO HOURS MINIMUM, AND FOR SUCH ADDITIONAL TIME NECESSARY FOR THE ENGINEER TO COMPLETE INSPECTION OF THE SECTION OF LINE UNDER TEST. LEAKAGE MEASUREMENTS SHALL NOT BE STARTED UNTIL A CONSTANT TEST PRESSURE HAS BEEN ESTABLISHED. THE LINE LEAKAGE SHALL BE MEASURED BY MEANS OF A WATER METER INSTALLED ON THE SUPPLY SIDE OF THE PRESSURE PUMP.

14. NO LEAKAGE IS ALLOWED IN EXPOSED PIPING, BURIED PIPING WITH FLANGED, THREADED, OR WELDED JOINTS OR BURIED NON-POTABLE PIPING IN CONFLICT WITH POTABLE WATER LINES.

15. TESTED SECTIONS OF BURIED PIPING WITH SLIP-TYPE OR MECHANICAL JOINTS WILL NOT BE ACCEPTED IF IT HAS A LEAKAGE RATE IN EXCESS OF THAT RATE DETERMINED BY THE FORMULA L = SDP/148000 WHERE L = MAXIMUM PERMISSIBLE LEAKAGE RATE, IN GALLONS PER HOUR, THROUGHOUT THE ENTIRE LENGTH OF LINE BEING TESTED; S = LENGTH OF LINE TESTED (IN FEET); D = NOMINAL INTERNAL DIAMETER (IN INCHES) OF THE PIPE; AND P = THE SQUARE ROOT OF THE ACTUAL PRESSURE IN PSIG ON ALL JOINTS IN THE TESTED PORTION OF THE LINE. THIS ACTUAL PRESSURE SHALL BE DETERMINED BY FINDING THE DIFFERENCE BETWEEN THE AVERAGE ELEVATION OF ALL TESTED PIPE JOINTS AND THE ELEVATION OF THE PRESSURE GAUGE AND ADDING THE DIFFERENCE IN ELEVATION HEAD TO THE AUTHORIZED TEST PRESSURE.

16. DISINFECT ALL POTABLE WATER LINES, FIRE LINES, VALVES, FITTINGS, HYDRANTS.

17. ALL DISINFECTION WORK SHALL BE ACCEPTABLE TO THE STATE HEALTH AUTHORITY. IF ANY REQUIREMENTS OF THIS SECTION ARE IN CONFLICT WITH REQUIREMENTS OF THE AUTHORITY FOR DISINFECTION, THOSE OF THE AUTHORITY SHALL GOVERN. THE WATER MAIN DISINFECTION AND BACTERIOLOGICAL SAMPLING AND METHODS OF DISINFECTION FOR ALL WATER CONTAINMENT DEVICES AND PIPING SYSTEMS SHALL CONFORM TO AWWA C651.

SANITARY SEWER SYSTEMS

1. THE ENTITY THAT WILL OPERATE AND MAINTAIN THE SEWER SYSTEM SHOWN ON THESE PLANS IS THE CITY OF VENICE. THE CONTRACTOR SHALL MEET ALL THE REQUIREMENTS OF THE CITY OF VENICE.

2. INSTALL ALL SEWER MAINS AT A MINIMUM 36 INCHES OF COVER.

3. JOINTS SHALL MEET THE REQUIREMENTS OF ASTM D3212 USING RUBBER GASKETS CONFORMING TO ASTM F477.

4. FITTINGS SHALL CONFORM TO THE SAME REQUIREMENTS AS THE PIPE. PROVIDE ADAPTERS AS REQUIRED TO JOIN PVC PIPE TO PIPE, FITTINGS AND EQUIPMENT OF OTHER MATERIALS. SOLVENT CEMENT SHALL BE AS RECOMMENDED BY THE PIPE MANUFACTURER.

5. SEWER PIPE SHALL BE COLOR CODED GREEN, STENCILED "SEWER LINE" (2" LETTERING ON TWO SIDES OF THE PIPE IN AT LEAST THREE AREAS PER PIPE SECTION).

6. INSTALL ADHESIVE IDENTIFICATION TAPE ALONG PIPELINE. TAPE SHALL BE MINIMUM THICKNESS 4 MILS, WIDTH 6 INCHES, LETTER SIZE 1 INCH. TAPE COLOR AND LETTERING SHALL BE "SEWER LINE", BLACK PRINTING ON GREEN BACKGROUND. PLACE TAPE AS FOLLOWS: 2" - 8" PIPE - CENTER ALONG TOP HALF OF PIPE; 10" - 18" PIPE - PLACE ALONG BOTH SIDES OF THE TOP HALF OF PIPE; 20" PIPE AND LARGER - PLACE ON BOTH SIDES OF TOP HALF OF PIPE WITH A THIRD STRIP CENTERED ALONG TOP HALF OF PIPE.

7. INSTALL WARNING TAPE ALONG ALL SEWER PIPELINES. TAPE SHALL BE 6-INCH WIDE VINYL CONTINUOUS TAPE, COLORED GREEN WITH BLACK LETTERING CODED AND WORDED "CAUTION: SEWER BURIED BELOW". INSTALL ALONG PIPELINE, 2 FEET ABOVE PIPE, MINIMUM OF 1 FOOT BELOW GRADE.

8. CONNECTIONS TO EXISTING SEWER SHALL BE CONDUCTED IN SUCH A MANNER THAT THE EXISTING SEWER REMAINS IN OPERATION. PROVIDE BY PASS PUMPING OF EXISTING FLOWS OR COLLECT AND LEGALLY DISPOSE OF EXISTING SEWER FLOW AS NEEDED TO ACCOMMODATE CONSTRUCTION WHILE KEEPING EXISTING SEWER IN SERVICE.

9. PRIOR TO INSPECTIONS AND TESTING, CLEAN ALL INSTALLED LINES AND MANHOLES. TEST PROCEDURES SHALL BE APPROVED BY THE ENGINEER. ALL TESTS SHALL BE MADE IN THE PRESENCE OF THE ENGINEER AND UTILITY. NOTIFY THE ENGINEER AND THE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY WORK IS TO BE INSPECTED OR TESTED.

10. PROVIDE ALL EQUIPMENT FOR TESTING. INCREMENTS ON GAGES USED FOR LOW PRESSURE AIR TESTING SHALL BE OF SCALED TO THE NEAREST 0.1 PSI. GAGES, PUMPS, AND HOSES SHALL BE IN GOOD WORKING ORDER WITH NO NOTICEABLE LEAKS.

11. ALL SERVICE LATERALS SHALL BE COMPLETED PRIOR TO TESTING, AND ARE SUBJECT TO THE SAME TESTING REQUIREMENTS AS THE MAIN LINE.

12. PROVIDE LIGHT SOURCE AND MIRRORS FOR LAMPING OF SEWER. ANY SEWER IN WHICH THE DIRECT LIGHT OF A LAMP CANNOT BE VIEWED IN EITHER DIRECTION, FULL CIRCLE, BETWEEN ADJACENT MANHOLES SHALL BE CONSIDERED UNSATISFACTORY, UNLESS THE LINE IS DESIGNED WITH HORIZONTAL DEFLECTIONS, AND SHALL BE REPAIRED BY THE CONTRACTOR WITHOUT ADDITIONAL COMPENSATION.

13. CONDUCT LOW PRESSURE AIR TESTING (4.0 PSI INITIAL PRESSURE) OF INSTALLED SEWER PIPING IN ACCORDANCE WITH ASTM F1417. MAXIMUM ALLOWABLE LEAKAGE IS 0.0015 CUBIC FEET PER MINUTE PER SQUARE FOOT INTERNAL SURFACE AREA BEING TESTED. ALLOWABLE AIR PRESSURE DROP DURING THE TEST IS 0.5 PSIG. MINIMUM REQUIRED TEST TIME (DURATION) IS: A) 4" PIPE = 1 MIN 53 SEC; B) 6" PIPE = 2 MIN 50 SEC, OR 0.427 X LENGTH OF PIPE TESTED, WHICHEVER IS GREATER; C) 8" PIPE = 3 MIN 47 SEC, OR 0.760 X LENGTH OF PIPE TESTED, WHICHEVER IS GREATER; D) 10" PIPE = 4 MIN 43 SEC, OR 1.187 X LENGTH OF PIPE TESTED, WHICHEVER IS GREATER; E) 12" PIPE = 5 MIN 40 SEC, OR 1.709 X LENGTH OF PIPE TESTED, WHICHEVER IS GREATER.

14. CONDUCT DEFLECTION TESTING OF PIPELINE AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. MAXIMUM ALLOWABLE PIPE DEFLECTION IS 5%. MEASURE DEFLECTION BY MANUALLY PULLING A MANDREL THROUGH THE PIPE. THE MINIMUM MANDREL OUTER DIAMETER SHALL BE IN ACCORDANCE WITH THE FOLLOWING: 6" SEWER = 5.45" MANDREL; 8" SEWER = 7.28" MANDREL; 10" SEWER = 9.08" MANDREL; 12" SEWER = 10.79" MANDREL; 15" SEWER = 13.20" MANDREL; 18" SEWER = 16.13" MANDREL; 21" SEWER = 19.00" MANDREL; 24" SEWER = 21.36" MANDREL; 27" SEWER = 24.06" MANDREL.

15. DEFLECTION TESTING IS CONSIDERED SATISFACTORY IF THE MANDREL CAN BE PULLED BY HAND THROUGH THE PIPE BEING TESTED. IF THE MANDREL CANNOT BE PULLED THROUGH THE PIPE, REPLACE OR CORRECT THE PIPE AND RETEST UNTIL TESTING IS SATISFACTORY. ANY PIPE REMOVED OR CORRECTED DUE TO FAILING DEFLECTION TESTING SHALL ALSO BE RE-TESTED FOR LEAKAGE.

FORCE MAIN SYSTEMS

1. THE ENTITY THAT WILL OPERATE AND MAINTAIN THE FORCE MAIN SYSTEM SHOWN ON THESE PLANS IS THE CITY OF VENICE. THE CONTRACTOR SHALL MEET ALL THE REQUIREMENTS OF THE CITY OF VENICE.

2. INSTALL ALL FORCE MAINS AT A MINIMUM 36 INCHES OF COVER.

3. DUCTILE IRON PIPE AND FITTINGS WITHIN 10 FEET OF GAS MAINS SHALL HAVE AN 8-MIL POLYETHYLENE WRAP IN ACCORDANCE WITH ANSI/AWWA C105/A21.5.

4. PVC PIPE JOINTS SHALL BE RUBBER GASKETED CONFORMING TO AWWA C900 OR C905 THE BELL SHALL BE INTEGRAL WITH THE PIPE AND OF EQUAL OR GREATER PRESSURE RATING. THE BELL OF PIPE AND FITTINGS USING PUSH-ON JOINTS SHALL HAVE AN INTEGRAL GROOVE TO RETAIN THE GASKET IN PLACE.

5. ALL FITTINGS SHALL BE MANUFACTURED OF DUCTILE IRON, CONFORMING TO ANSI/AWWA C110/A21.10 OR ANSI/AWWA C153/A21.53. ALL FULL BODY (C110/A21.10) FITTINGS SHALL BE PRESSURE RATED TO 250 PSI, MINIMUM. ALL COMPACT FITTINGS (C153/A21.53) SHALL BE PRESSURE RATED TO 350 PSI, MINIMUM.

6. INTERIOR LINING FOR PIPES AND FITTINGS SHALL BE EITHER MINIMUM 40 MILS DRY FILM THICKNESS (60 MILS NOMINAL) OF CERAMIC EPOXY LINING, AS MANUFACTURED UNDER THE NAME OF "PROTECTO 401", OR MINIMUM 40 MILS DRY FILM THICKNESS (60 MILS NOMINAL) OF FUSION BONDED EPOXY AND POLYETHYLENE LINING, AS MANUFACTURED UNDER THE NAME OF "POLYBOND PLUS", OR EQUAL. EXTERIOR COATING FOR BURIED PIPE AND FITTINGS SHALL BE A PETROLEUM ASPHALTIC COATING IN ACCORDANCE WITH ANSI/AWWA C110/A21.10. EXTERIOR COATING OF EXPOSED PIPE AND FITTINGS SHALL BE FACTORY APPLIED RUST INHIBITING EPOXY PRIMER, MINIMUM 3 MILS DRY FILM THICKNESS. AFTER INSTALLATION, EXTERIOR SURFACES SHALL BE PAINTED WITH A TWO COAT SYSTEM. THE FIRST COAT (INTERMEDIATE COAT) SHALL BE 4.0-10.0 MIL DFT TNEMEC COLOR HI-BUILD EPOXOLINE II SERIES N69 OR APPROVED EQUAL, AND THE FINAL COAT SHALL BE 2.0-3.0 MIL DFT TNEMEC ENDURASHIELD SERIES 73 OR APPROVED EQUAL. THE FINAL COAT PAINT COLOR SHALL BE AS SELECTED BY THE LOCAL UTILITY.

7. MECHANICAL AND PUSH ON JOINTS FOR DUCTILE IRON PIPE AND FITTINGS SHALL BE RUBBER GASKETED, CONFORMING TO ANSI/AWWA C111/A21.11. LUBRICANTS OTHER THAN THAT FURNISHED BY THE PIPE MANUFACTURER WITH THE PIPE SHALL NOT BE USED.

8. RESTRAINED JOINTS FOR DUCTILE IRON PIPE BELL JOINTS SHALL BE AMERICAN FAST GRIP GASKET, MCWANE SURE GRIP 350 GASKET, U.S. PIPE FIELD LOK 350 GASKET, OR EBAA IRON MEGA LUG SERIES 1100HD. RESTRAINED JOINTS FOR DUCTILE IRON PIPE AND FITTING MECHANICAL JOINTS SHALL BE EBAA IRON MEGA LUG SERIES 1100, STAR GRIP SERIES 3000, OR TYLER UNION TUF-GRIP SERIES TLD. LOCKING BELL JOINT RESTRAINT SHALL BE AMERICAN FLEX RING JOINT, AMERICAN LOK-RING JOINT, OR U.S. PIPE TR-FLEX. RESTRAINED JOINTS FOR PVC PIPE MECHANICAL JOINTS SHALL BE TYLER UNION SERIES 2000 TUF GRIP TLP, JCM SUR-GRIP BELL RESTRAINER, FORD UNI-FLANGE SERIES 1500 CIRCLE LOCK, OR EBAA IRON MEGA LUG SERIES 2000PV. RESTRAINED JOINTS FOR PVC PIPE PUSH ON JOINTS SHALL BE EBAA IRON MEGA LUG SERIES 1500 OR SERIES 1600 (C900 PVC), SERIES 2800 (C905 PVC), FORD UNI-FLANGE SERIES 1390, OR SMITH-BLAIR BELL-LOK SERIES 165. PIPE JOINTS SHALL BE RESTRAINED UPSTREAM AND DOWNSTREAM OF FITTINGS IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS OR THE TABLE SHOWN IN THE DRAWINGS, WHICHEVER IS GREATER.

9. INTERIOR LINING FOR VALVES 4 INCH AND LARGER SHALL BE EITHER MINIMUM 40 MILS DRY FILM THICKNESS (60 MILS NOMINAL) OF CERAMIC EPOXY LINING, AS MANUFACTURED UNDER THE NAME OF "PROTECTO 401", OR MINIMUM 40 MILS DRY FILM THICKNESS (60 MILS NOMINAL) OF FUSION BONDED EPOXY AND POLYETHYLENE LINING, AS MANUFACTURED UNDER THE NAME OF "POLYBOND PLUS", OR EQUAL. EXTERIOR COATING FOR BURIED VALVES SHALL BE RUST INHIBITING EPOXY PRIMER, FOLLOWED BY A COAL TAR EPOXY, TOTAL MINIMUM DRY FILM THICKNESS OF 16 MILS, APPLIED AT THE FACTORY. EXTERIOR COATING OF EXPOSED VALVES SHALL BE FACTORY APPLIED RUST INHIBITING EPOXY PRIMER, MINIMUM 3 MILS DRY FILM THICKNESS. AFTER INSTALLATION, EXTERIOR SURFACES SHALL BE PAINTED WITH A TWO COAT SYSTEM. THE FIRST COAT (INTERMEDIATE COAT) SHALL BE 4.0-10.0 MIL DFT TNEMEC COLOR HI-BUILD EPOXOLINE II SERIES N69 OR APPROVED EQUAL, AND THE FINAL COAT SHALL BE 2.0-3.0 MIL DFT TNEMEC ENDURASHIELD SERIES 73 OR APPROVED EQUAL. THE FINAL COAT PAINT COLOR SHALL BE AS SELECTED BY THE LOCAL UTILITY.

10. ALL FORCE MAIN VALVES SHALL BE CAST IRON SUITABLE FOR WASTEWATER SERVICE WITH PRESSURES UP TO 250 PSIG, AND SHALL BE QUARTER-TURN, NON-LUBRICATED, ECCENTRIC TYPE WITH RESILIENT FACED PLUG, MANUFACTURED AND TESTED IN ACCORDANCE WITH AWWA C517. PORT AREAS OF NOT LESS THAN 100% OF PIPE AREA SHALL BE SUPPLIED ON ALL VALVES. STANDARD PLUG VALVES SHALL BE CLOW F5412 / F5413, VALMATIC 5600 / 5800, DEZURIK SERIES PEC, M&H 1820, PRATT PV, OR APPROVED EQUAL.

11. TAPPING SLEEVES ARE TO BE 18-8 TYPE 304 STAINLESS STEEL AND STAINLESS STEEL OUTLET, AS MANUFACTURED BY JCM OR APPROVED EQUAL. TAPPING VALVES SHALL BE RESILIENT SEATED GATE VALVES AND SHALL CONFORM TO THE REQUIREMENTS OF AWWA C509. TAPPING VALVES SHALL BE AMERICAN FLOW CONTROL SERIES 2500, CLOW SERIES F-6100, OR MUELLER SERIES A2361.

12. AIR RELEASE VALVES SHALL BE COMBINATION CAPABLE OF DISCHARGING ACCUMULATED AIR IN THE LINE WHILE THE LINE IS OPERATING UNDER A PRESSURE OF 150 PSI. FLOAT MATERIAL SHALL BE STAINLESS STEEL. AIR RELEASE VALVES SHALL HAVE A STAINLESS STEEL BODY AND SHALL BE MANUFACTURED BY ARI (NO. ARI-D-020) OR VENT-O-MAT RGX SERIES. ENCLOSURES FOR AIR RELEASE VALVES SHALL BE POLYETHYLENE WITH STAINLESS STEEL HARDWARE, AND SHALL BE PROVIDED WITH A TAMPER PROOF LOCKING DEVICE. ENCLOSURES SHALL BE AS MANUFACTURED BY WATER PLUS CORPORATION (MODEL 182635) OR APPROVED EQUAL, AND SHALL HAVE VENTS AND SHALL BE GREEN IN COLOR.

13. ALL BURIED VALVES SHALL BE PROVIDED WITH ADJUSTABLE VALVE BOXES APPROXIMATELY 5 INCHES IN DIAMETER WITH A MINIMUM THICKNESS OF 3/16 INCH CAST IRON. BOXES SHALL BE OF SUFFICIENT LENGTH TO OPERATE ALL VALVES BURIED IN THE GROUND, CONSISTING OF BASE, CENTER SECTION, AND TOP SECTION WITH COVER. VALVE BOXES LOCATED IN UNPAVED AREAS SHALL BE SLIP TYPE DESIGN TO PERMIT MOVEMENT OF THE TOP SECTION WITHOUT TRANSMITTING FORCES ONTO THE VALVE BODY. VALVE BOXES CAST INTO CONCRETE OR ASPHALT SURFACING SHALL HAVE BRASS COVERS. ALL VALVE BOX COVERS SHALL BE INTERNALLY CHAINED TO VALVE BOXES WITH AN APPROXIMATELY 18 INCH GALVANIZED CHAIN. VALVE BOX COVERS SHALL BE CAST WITH THE INSCRIPTION "SEWER".

14. PVC PIPE SHALL BE COLOR CODED GREEN AND STENCILED (0.75-INCH LETTERING ON THE PIPE IN AT LEAST THREE AREAS PER PIPE SECTION) "SEWER FORCE MAIN".

15. INSTALL IDENTIFICATION TAPE ALONG ALL DUCTILE IRON PIPE AND PVC PIPE, MINIMUM THICKNESS 4 MILS, WIDTH 6 INCHES, LETTER SIZE 1 INCH, TEXT TO BE "SEWER FORCE MAIN". APPLY TAPE TO SURFACE OF PIPE, CONTINUOUSLY EXTENDING FROM JOINT TO JOINT. TAPE COLOR AND LETTERING SHALL BE BLACK PRINTING ON GREEN BACKGROUND. PLACE TAPE AS FOLLOWS: 2" - 8" PIPE - CENTER ALONG TOP HALF OF PIPE; 10" - 18" PIPE - PLACE ALONG BOTH SIDES OF THE TOP HALF OF PIPE; 20" PIPE AND LARGER - PLACE ON BOTH SIDES OF TOP HALF OF PIPE WITH A THIRD STRIP CENTERED ALONG TOP HALF OF PIPE.

16. INSTALL WARNING TAPE ALONG ALL PIPELINES, PLACED 2 FEET ABOVE PIPE. TAPE SHALL BE 6-INCH WIDE VINYL CONTINUOUS TAPE. TAPE SHALL BE COLORED BROWN WITH BLACK LETTERING, CODED AND WORDED "CAUTION: FORCE MAIN BURIED BELOW".

17. INSTALL LOCATING WIRE ALONG ALL PVC PIPELINES. WIRE SHALL BE COLOR-CODED 10 GAUGE CONTINUOUS INSULATED WIRE. COLOR CODING SHALL BE SIMILAR TO WARNING TAPE COLORS. INSTALL LOCATOR WIRE ALONG ALL PRESSURIZED PIPELINES 2" AND LARGER. LOOP WIRE INTO ALL VALVE BOXES. LOOPING TO OCCUR EVERY 500 FEET MINIMUM. WHERE THERE ARE NO VALVE BOXES TO ALLOW LOOPING, PROVIDE ACCESS BOXES PER UTILITY REQUIREMENTS. CHECK WIRE FOR ELECTRICAL CONTINUITY.

18. ALL CHANGES IN DIRECTION SHALL BE MADE WITH FITTINGS OR APPROVED JOINT DEFLECTION. BENDING OF PIPE, EXCEPT COPPER AND POLYETHYLENE, IS PROHIBITED. JOINT DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION.

19. TEST PROCEDURES SHALL BE APPROVED BY THE ENGINEER. ALL TESTS SHALL BE MADE IN THE PRESENCE OF THE ENGINEER AND UTILITY. NOTIFY THE ENGINEER AND THE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY WORK IS TO BE INSPECTED OR TESTED.

20. PROVIDE ALL EQUIPMENT FOR TESTING. INCREMENTS ON GAGES USED FOR LOW PRESSURE AIR TESTING SHALL BE OF SCALED TO THE NEAREST 0.1 PSI. GAGES, PUMPS, AND HOSES SHALL BE IN GOOD WORKING ORDER WITH NO NOTICEABLE LEAKS.

21. APPLY HYDROSTATIC TEST PRESSURE OF 100 PSI FOR 10 MINUTES AND FOR SUCH ADDITIONAL PERIOD NECESSARY FOR THE ENGINEER TO COMPLETE THE INSPECTION OF THE LINE UNDER TEST. DO NOT EXCEED PIPE MANUFACTURER'S SUGGESTED TIME DURATION AT THE TEST PRESSURE. IF DEFECTS ARE NOTED, REPAIRS SHALL BE MADE AND THE TEST REPEATED UNTIL ALL PARTS OF THE LINE WITHSTAND THE TEST PRESSURE.

22. APPLY LEAKAGE TEST PRESSURE OF 100 PSI. MAINTAIN PRESSURE AT A MAXIMUM VARIATION OF 5% DURING THE ENTIRE LEAKAGE TEST. THE DURATION OF THE LEAKAGE TEST SHALL BE TWO HOURS MINIMUM, AND FOR SUCH ADDITIONAL TIME NECESSARY FOR THE ENGINEER TO COMPLETE INSPECTION OF THE SECTION OF LINE UNDER TEST. LEAKAGE MEASUREMENTS SHALL NOT BE STARTED UNTIL A CONSTANT TEST PRESSURE HAS BEEN ESTABLISHED. THE LINE LEAKAGE SHALL BE MEASURED BY MEANS OF A WATER METER INSTALLED ON THE SUPPLY SIDE OF THE PRESSURE PUMP.

23. NO LEAKAGE IS ALLOWED IN EXPOSED PIPING, BURIED PIPING WITH FLANGED, THREADED, OR WELDED JOINTS OR BURIED NON-POTABLE PIPING IN CONFLICT WITH POTABLE WATER LINES.

24. TESTED SECTIONS OF BURIED PIPING WITH SLIP-TYPE OR MECHANICAL JOINTS WILL NOT BE ACCEPTED IF IT HAS A LEAKAGE RATE IN EXCESS OF THAT RATE DETERMINED BY THE FORMULA L = SDP/148000 WHERE L = MAXIMUM PERMISSIBLE LEAKAGE RATE, IN GALLONS PER HOUR, THROUGHOUT THE ENTIRE LENGTH OF LINE BEING TESTED; S = LENGTH OF LINE TESTED (IN FEET); D = NOMINAL INTERNAL DIAMETER (IN INCHES) OF THE PIPE; AND P = THE SQUARE ROOT OF THE ACTUAL PRESSURE IN PSIG ON ALL JOINTS IN THE TESTED PORTION OF THE LINE. THIS ACTUAL PRESSURE SHALL BE DETERMINED BY FINDING THE DIFFERENCE BETWEEN THE AVERAGE ELEVATION OF ALL TESTED PIPE JOINTS AND THE ELEVATION OF THE PRESSURE GAUGE AND ADDING THE DIFFERENCE IN ELEVATION HEAD TO THE AUTHORIZED TEST PRESSURE.

25. ALL APPARENT LEAKS DISCOVERED WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER SHALL BE LOCATED AND

PAVING, SIDEWALKS, AND CURBING

1. MATERIALS AND CONSTRUCTION METHODS FOR THE ROADWAY AND PAVING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

2. ROADWAY PAVING, BASE, AND SUBGRADE THICKNESSES SHALL BE IN ACCORDANCE WITH DETAILS ON THESE DRAWINGS.

3. SIDEWALKS ARE TO BE CONSTRUCTED IN THE AREAS AS SHOWN ON THE CONSTRUCTION PLANS. HANDICAPPED RAMPS SHALL BE PROVIDED AT ALL INTERSECTIONS AND SHALL BE IN ACCORDANCE WITH THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION, LATEST EDITION.

4. CURBING SHALL BE CONSTRUCTED WHERE NOTED ON THE CONSTRUCTION PLANS. ALL CURBS SHALL HAVE SAW CUT CONTRACTION JOINTS AND SHALL BE CONSTRUCTED AT INTERVALS NOT TO EXCEED 10'-0" ON CENTER. CONSTRUCTION OF CURBS SHALL BE IN CONFORMANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) SECTION 520 AND DETAILS PROVIDED ON THE CONSTRUCTION PLANS.

5. FIELD COMPACTION DENSITY, STABILITY, AND THICKNESS TESTING FREQUENCIES OF SUB-BASE, BASE, AND ASPHALT SHALL BE TESTED ONCE EVERY 300 LINEAR FEET OF PAVING PER 24-FT WIDE STRIP, STAGGERED LEFT, CENTER AND RIGHT OF CENTERLINE. WHERE LESS THAN 300 LINEAR FEET OF SUB-BASE, BASE, AND ASPHALT IS PLACED IN ONE DAY, PROVIDE MIN. OF ONE TEST FOR EACH PER DAY'S CONSTRUCTION AT A LOCATION DESIGNATED BY THE ENGINEER. ASPHALT EXTRACTION GRADATION SHALL BE TESTED FROM GRAB SAMPLES COLLECTED ONCE EVERY 1800 SQUARE YARDS OF ASPHALT DELIVERED TO THE SITE (OR A MINIMUM OF ONCE PER DAY).

PRECAST STRUCTURES AND APPURTENANCES

1. ALL MANHOLES SHALL BE PRECAST CONSTRUCTION. THE MINIMUM SIZE DIAMETER OF MANHOLES SHALL BE 48" FOR SEWER LINES 21" IN DIAMETER OR LESS. INTEGRALLY CAST STEPS WITHIN PRECAST STRUCTURES ARE NOT ALLOWED.

2. BASES SHALL BE ONE-PIECE PRECAST BASE SECTIONS CONSISTING OF INTEGRALLY CAST SLAB, BOTTOM RING SECTION AND CONCRETE FLOW CHANNELS. BASE SECTIONS SHALL HAVE INTEGRAL INVERTS WITH GASKETS TO MATCH THE PIPE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL INVERT ANGLES. PROVIDE OUTLET STUBS WITH JOINTS TO MATCH THE PIPE.

3. RISERS SHALL BE PRECAST REINFORCED CONCRETE PER ASTM C478, MANUFACTURED USING SULFATE RESISTANT CEMENT (ASTM C150, TYPE II). RISERS SHALL BE 48-INCH DIAMETER UNLESS OTHERWISE INDICATED AND SHALL HAVE A MINIMUM WALL THICKNESS OF 5 INCHES.

4. GASKETS FOR SEATING PRECAST SECTIONS SHALL BE COLD ADHESIVE PREFORMED PLASTIC GASKETS CONFORMING TO FDOT SPECIFICATION 942-2, UNLESS OTHERWISE INDICATED.

5. UNLESS OTHERWISE INDICATED, CONE TOP SECTIONS SHALL BE PRECAST, ECCENTRIC TYPE WITH 24-INCH DIAMETER TOP OPENING CONFORMING TO ASTM C478. PROVIDE 8-INCH MINIMUM THICKNESS FLAT SLAB TOPS WITH ECCENTRIC 24 INCH DIAMETER OPENING, UNLESS OTHERWISE INDICATED.

6. PROVIDE A FLEXIBLE WATERTIGHT SEAL OF THE PIPE TO THE MANHOLE. CONNECTION OF CONCRETE PIPE TO THE MANHOLE SHALL BE MADE WITH NON-SHRINK METALLIC GROUT. CONNECTION OF DUCTILE IRON OR PVC PIPE TO THE MANHOLE SHALL PROVIDE A WATERTIGHT CONNECTION PER ASTM C923. WHERE CONNECTORS ARE USED, THEY SHALL BE INSTALLED IN THE MANHOLE WALL BY ACTIVATING THE EXPANDING MECHANISM IN STRICT ACCORDANCE WITH THE RECOMMENDATION OF THE CONNECTOR MANUFACTURER. THE USE OF ADHESIVES OR LUBRICANTS FOR INSTALLATION OF RUBBER CONNECTORS IS PROHIBITED.

7. FRAMES AND COVERS SHALL BE GREY IRON PER ASTM A48, CLASS 30B AND SHALL BE U.S. FOUNDRY TYPE 227AS, TRAFFIC BEARING (AASHTO H-20 LOADING), UNLESS OTHERWISE NOTED IN THE DRAWINGS. CASTINGS SHALL BE SMOOTH, CLEAN, FREE FROM BLISTERS, BLOWHOLES, AND SHRINKAGE. RAISED LETTERING ON COVERS SHALL BE "STORM", "SEWER", OR AS DETAILED ON THE DRAWINGS.

8. PROVIDE CAST IRON INLETS, FRAMES, AND GRATES IN ACCORDANCE WITH DETAILS ON THE DRAWINGS. ALL FRAMES AND INLET GRATES SHALL BE PRODUCTS OF U.S. FOUNDRY & MANUFACTURING CORPORATION, OR EQUAL.

9. ALL INLET GRATES SHALL BE SECURED BY CHAIN AND EYEBOLT TO THE TOP OF THE STRUCTURE.

10. THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN PAVED AREAS SHALL MATCH FINISHED GRADE. THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN GRASSED AREAS SHALL BE 4" ABOVE FINISHED GRADE (UNLESS NOTED OTHERWISE).

11. ALL MANHOLES AND CLEAN OUTS CONSTRUCTED WITHIN PAVED AREAS SHALL BE INSTALLED WITH TRAFFIC BEARING RINGS AND COVERS.

12. MANHOLE COATINGS AND FINISHES SHALL BE:

A. SANITARY SEWER MANHOLE INTERIOR - BITUMINOUS EPOXY COATING, MINIMUM DRY FILM THICKNESS = 16 MILS.

B. INTERIOR OF MANHOLES WHICH RECEIVE FORCE MAIN DISCHARGE - INTEGRALLY ATTACHED INTERIOR LINER, FULL HEIGHT, FIBERGLASS LINER. LINER THICKNESS TO BE IN ACCORDANCE WITH THE DRAWINGS.

C. EXTERIOR - BITUMINOUS EPOXY COATING, MINIMUM DRY FILM THICKNESS = 16 MILS.

STORM SEWER SYSTEMS

1. REINFORCED CONCRETE PIPE (RCP) JOINTS SHALL COMPLY WITH ASTM C443 AND FDOT SPECIFICATION SECTION 430, AND RUBBER GASKETS SHALL COMPLY WITH FDOT SPECIFICATION SECTION 942. MINIMUM COVER OVER THE PIPE, INCLUDING COVER OVER THE BELL OF THE PIPE WHERE APPLICABLE, SHALL BE 30 INCHES.

2. RCP PIPE SHALL NOT BE SHIPPED FROM MANUFACTURER UNTIL THE COMPRESSIVE STRENGTH OF THE PIPE HAS REACHED 4000 PSI AND A MINIMUM OF 5 DAYS HAVE PASSED SINCE THE MANUFACTURING OR REPAIR OF THE PIPE HAS BEEN COMPLETED.

3. UNDERDRAIN PIPE SHALL BE PERFORATED POLYVINYL CHLORIDE PIPE IN ACCORDANCE WITH ASTM F758. FILTER FABRIC UNDERDRAIN SOCK SHALL BE TYPE D-3 IN ACCORDANCE WITH FDOT INDEX NO. 199.

4. ALL PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC. FILTER FABRIC SHALL BE IN ACCORDANCE WITH FDOT INDEX NO. 199, TYPE D-3, A.O.S. 70-100. INSTALL IN ACCORDANCE WITH FDOT INDEX NO. 280. PROVIDE MINIMUM 12" OVERLAP.

5. INSTALL POLYETHYLENE PIPE IN ACCORDANCE WITH ASTM D2321. BACKFILL AND COMPACT EVENLY ON EACH SIDE TO PREVENT DISPLACEMENT. MINIMUM COVER OVER POLYETHYLENE PIPE SHALL BE AS FOLLOWS: A) PIPE UNDER FLEXIBLE PAVEMENT, RIGID PAVEMENT, OR UNPAVED AREAS WHERE BEDDING IS SUITABLE SOILS AS DEFINED IN THE GENERAL NOTES: MINIMUM COVER SHALL BE 36 INCHES OR ONE PIPE DIAMETER, WHICHEVER IS GREATER; B) PIPE UNDER FLEXIBLE PAVEMENT, RIGID PAVEMENT, OR UNPAVED AREAS WHERE BEDDING IS MANUFACTURED AGGREGATES CLASS 1A OR 1B AS DEFINED IN ASTM D2321: MINIMUM COVER SHALL BE 30 INCHES OR ONE PIPE DIAMETER, WHICHEVER IS GREATER.

6. INSTALL UNDERDRAINS IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 440. INSTALL CLEANOUTS AS SHOWN ON THE DRAWINGS.

7. PRIOR TO INSPECTIONS AND TESTING, CLEAN ALL INSTALLED LINES AND STRUCTURES.

SIGNS AND PAVEMENT MARKINGS

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE LATEST IMPLEMENTED EDITION OF FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS.

2. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC WITH RAISED PAVEMENT MARKERS (TYPE 911 - 4" x 4"). RAISED PAVEMENT MARKERS ARE TO BE INSTALLED IN ACCORDANCE WITH THESE PLANS AND FDOT INDEX NO. 17352.

3. PARKING STALL PAVEMENT MARKINGS SHALL BE PAINTED. PAINT SHALL MEET THE REQUIREMENTS OF FDOT SPECIFICATION SECTION 971, NON-REFLECTIVE WHITE TRAFFIC PAINT, TWO COATS.

4. ALL ROADWAY TRAFFIC SIGNS SHALL BE MANUFACTURED USING HIGH INTENSITY RETROREFLECTIVE MATERIALS. THE BACK OF ALL FINISHED PANELS SHALL BE STENCILED WITH THE DATE OF FABRICATION, THE FABRICATOR'S INITIALS, AND THE NAME OF THE SHEETING IN THREE-INCH LETTERS.

5. INTERNAL SITE TRAFFIC SIGNS ARE NOT REQUIRED TO BE RETROREFLECTIVE.

6. THE CONTRACTOR SHALL VERIFY THE REQUIRED LENGTH OF THE SIGN COLUMN SUPPORTS IN THE FIELD PRIOR TO FABRICATION.

7. CONTRACTOR SHALL PROVIDE AND INSTALL ALL SIGNS, BASES, ANCHOR BOLTS, CONDUITS, WIRING, ETC.

8. ALL PAVEMENT MARKINGS REQUIRE LAYOUT APPROVAL IN THE FIELD BY THE ENGINEER PRIOR TO INSTALLATION.

9. PRIOR TO FINAL PAVEMENT MARKING INSTALLATION, A TWO WEEK CURE TIME OF THE ASPHALT IS REQUIRED.

JACKING AND BORING

1. STEEL CASING PIPE SHALL CONFORM TO ASTM A139, GRADE "B" WITH MINIMUM YIELD STRENGTH OF 35,000 PSI. INTERIOR LINING OF PIPE SHALL BE A COAL TAR LINING CONFORMING TO AWWA C203. EXTERIOR COATING OF PIPE SHALL BE MULTIPLE COATS OF HEAVY DUTY COAL TAR BASE COATING BUILT UP TO 30 MILS TOTAL DRY THICKNESS AND APPLIED IN ACCORDANCE WITH THE COATING MANUFACTURER'S RECOMMENDATIONS.

2. EACH SPACER SHALL BE 12 INCHES WIDE AND MANUFACTURED OF MINIMUM 14 GAUGE TYPE 304 STAINLESS STEEL OR 14 GAUGE STEEL WITH FUSION BONDED PVC COATING. SPACERS SHALL BE LINED WITH A 90 MIL PVC LINER. ALL NUTS AND BOLTS SHALL BE T-304 STAINLESS STEEL. EACH SPACER SHALL HAVE A MINIMUM OF 4 RUNNER SUPPORTS MANUFACTURED OF A HIGH MOLECULAR WEIGHT POLYMER PLASTIC. THE RUNNER SUPPORTS SHALL BE T304 STAINLESS STEEL, MINIMUM 10 GAUGE, OF ADEQUATE HEIGHT TO POSITION THE CARRIER PIPE IN THE CENTER OF CASING WITH A MINIMUM TOP CLEARANCE OF 0.5 INCHES.

3. ADD ON SECTIONS OF CASING PIPE SHALL BE FULL-RING WELDED TO THE PRECEDING LENGTH, DEVELOPING WATER-TIGHT TOTAL PIPE-STRENGTH JOINTS. ALL WELDING OF STEEL PIPE SHALL BE DONE BY COMPETENT, EXPERIENCED WELDERS. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWWA C206.

4. CASING PIPE WALL MINIMUM WALL THICKNESS SHALL BE AS FOLLOWS: 16" THROUGH 24" = 0.250"; 30" = 0.312"; 36" = 0.375"; 42" AND 48" = 0.500". AT RAILROAD CROSSINGS, CASING PIPE WALL THICKNESS SHALL BE AS FOLLOWS: 16" THROUGH 18" = 0.250"; 20" = 0.281"; 24" = 0.312"; 30" = 0.406"; 36" = 0.469". UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS, THE MINIMUM CASING PIPE DIAMETER SHALL BE BASED ON THE SIZE OF THE CARRIER PIPE NOMINAL DIAMETER AS FOLLOWS: WHERE CARRIER IS 6", THEN MINIMUM CASING IS 18"; WHERE CARRIER IS 8", THEN MINIMUM CASING IS 20"; WHERE CARRIER IS 10", THEN MINIMUM CASING IS 24"; WHERE CARRIER IS 12" OR 16", THEN MINIMUM CASING IS 30"; WHERE CARRIER IS 20", THEN MINIMUM CASING IS 36".

5. BORED INSTALLATIONS SHALL HAVE A HOLE DIAMETER WHICH SHALL NOT EXCEED THE O.D. OF THE CASING PIPE (INCLUDING COATING) BY MORE THAN ONE INCH. WHERE UNSTABLE SOIL CONDITIONS ARE FOUND TO EXIST, BORING OPERATIONS SHALL BE CONDUCTED IN SUCH MANNER AS NOT TO BE DETRIMENTAL TO THE FACILITY BEING CROSSED. IF EXCESSIVE VOIDS OR TOO LARGE A BORED HOLE RESULTS, OR IT IS NECESSARY TO ABANDON A BORED HOLE, PROMPT REMEDIAL MEASURES SHALL BE TAKEN BY THE CONTRACTOR, SUBJECT TO APPROVAL BY THE ENGINEER AND THE CONTROLLING AGENCY OF THE FACILITY BEING CROSSED.

6. CORRECT LINE AND GRADE SHALL BE MAINTAINED. ADD ON SECTIONS OF CASING PIPE SHALL BE FULL RING WELDED TO THE PRECEDING LENGTH, DEVELOPING WATERTIGHT TOTAL PIPE STRENGTH JOINTS. FOLLOWING PLACEMENT OF THE CARRIER PIPE, MASONRY PLUGS SHALL BE INSTALLED AT EACH OPEN END, WITH A WEEP HOLE INSTALLED NEAR THE BOTTOM OF THE PLUG.

7. UNLESS OTHERWISE SHOWN ON THE PLANS, INSTALL CASING AT MINIMUM OF 36-INCH COVER.

8. CARRIER PIPES INSIDE OF STEEL CASING PIPE SHALL BE SUPPORTED BY CASING SPACERS. CARRIER PIPE JOINTS INSIDE OF STEEL CASING PIPE SHALL BE RESTRAINED.

9. SPACERS ALONG DUCTILE IRON CARRIER PIPE SHALL BE PLACED NO MORE THAN 2 FEET FROM THE END OF THE CASING, WITH SUBSEQUENT SPACER PLACEMENT AT INTERVALS OF NO MORE THAN 10 FEET.

10. SPACERS ALONG PVC CARRIER PIPE SHALL BE PLACED NEAR THE SPIGOT END OF EACH SEGMENT OF PIPE. WHEN THE JOINT IS COMPLETE, THE SPACER SHALL BE IN CONTACT WITH THE JOINT RESTRAINT ASSEMBLY SO THAT THE SPACER PUSHES THE RESTRAINT ASSEMBLY. SUBSEQUENT SPACER PLACEMENT ALONG PVC PIPE SHALL BE AT INTERVALS OF NO MORE THAN 6 FEET.

11. THE USE OF WOOD SKIDS IN LIEU OF SPACERS IS NOT ALLOWED.

12. THE CARRIER MAY BE PUSHED OR PULLED (DEPENDING UPON PIPING MATERIAL, JOINT TYPE AND METHOD OF PIPE SUPPORT) INTO THE CASING AS PIPE LENGTHS ARE ASSEMBLED. THE CARRIER SHALL BE ADEQUATELY BLOCKED ALL AROUND TO PREVENT ANY MOVEMENT AND TO ATTAIN THE SPECIFIED GRADE FOR GRAVITY LINES. THE PROPOSED METHOD OF CARRIER PIPE INSTALLATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO STARTING THE CROSSING.

HORIZONTAL DIRECTIONAL DRILLING

1. POLYETHYLENE PIPE AND FITTINGS FOR POTABLE WATER MAINS SHALL BE IN ACCORDANCE WITH AWWA C906, STANDARD CODE DESIGNATION STANDARD CODE DESIGNATION PE 3408. PIPE 4-30 INCH DIAMETER SHALL BE DR11, PC 160. THE MANUFACTURER SHALL CERTIFY THAT THE MATERIALS USED TO MANUFACTURE PIPE AND FITTINGS MEET THESE REQUIREMENTS. THE PIPE SIZING SHALL BE IN ACCORDANCE WITH DUCTILE IRON SIZING SYSTEM (DIOD). PIPE USING THE NEWER ASTM DESIGNATIONS FOR THE MATERIAL IS ACCEPTABLE, PROVIDED IT IS STAMPED "PE3408/PE4710 - AWWA C906" OR "PE3408/PE3608/PE4710 - AWWA C906".

2. POLYETHYLENE PIPE AND FITTINGS FOR RECLAIMED WATER, SEWER FORCE MAIN, OR STORM SEWER SHALL BE IN ACCORDANCE WITH AWWA C906, STANDARD CODE DESIGNATION PE 4710, DR 11, 200 PSI. THE MANUFACTURER SHALL CERTIFY THAT THE MATERIALS USED TO MANUFACTURE PIPE AND FITTINGS MEET THESE REQUIREMENTS. THE PIPE SIZING SHALL BE IN ACCORDANCE WITH DUCTILE IRON PIPE SIZING SYSTEM (DIPS)

3. POLYETHYLENE PIPE AND TUBING USED FOR SERVICE LINES ½-3 INCH DIAMETER SHALL BE POLYETHYLENE IN ACCORDANCE WITH AWWA C901, STANDARD CODE DESIGNATION PE 4710, SDR 9 (OUTSIDE DIAMETER BASED DIMENSION RATIO), 250 PSI. PIPE AND FITTINGS SHALL BE NSF APPROVED FOR THE USAGE TO WHICH THEY ARE TO BE APPLIED. PIPE AND TUBING SHALL BE COLOR CODED BLUE FOR POTABLE WATER, PURPLE FOR RECLAIMED WATER, AND GREEN FOR SANITARY SEWER.

4. POLYETHYLENE MECHANICAL JOINT ADAPTERS AND FLANGE ADAPTERS SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA C906. MECHANICAL JOINT ADAPTERS SHALL BE FITTED WITH GLAND RINGS PRESSURE RATED EQUAL TO OR GREATER THAN THE MATING PIPE, AND SHALL BE MADE WITH SUFFICIENT THROUGH-BORE LENGTH TO BE CLAMPED IN A HEAT FUSION JOINING MACHINE WITHOUT THE USE OF SUB-END HOLDER. THE SEALING SURFACE OF THE FLANGE ADAPTER SHALL BE MACHINED WITH A SERIES OF SMALL V-SHAPED GROOVES TO PROVIDE GASTKETLESS SEALING, OR TO RESTRAIN THE GASKET AGAINST BLOW-OUT.

5. HDPE PIPE TERMINATIONS SHALL BE FITTED WITH A MECHANICAL JOINT ADAPTER KIT THAT WILL ENABLE THE HDPE PIPE TO BE JOINED WITH MECHANICAL JOINT FITTINGS. THE ADAPTER SHALL BE AWWA COMPLIANT, AND THE PRESSURE RATING FOR THE ADAPTER SHALL MATCH THE PRESSURE RATING FOR THE HDPE PIPE. MECHANICAL JOINT ADAPTERS SHALL BE MANUFACTURED IN STANDARD DIPS SIZES FOR CONNECTING DIPS SIZED POLYETHYLENE PIPE TO MECHANICAL JOINT FITTINGS, SHALL CONTAIN A STAINLESS STEEL REINFORCING COLLAR AND AWWA C110 DUCTILE IRON GLAND RING, GASKET AND EXTRA LENGTH T-BOLTS.

6. GLANDS, BOLTS, AND GASKETS SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA C153. BOLTS AND NUTS SHALL BE GRADE 2 OR HIGHER.

7. ALL POLYETHYLENE PIPE SHALL BE BLACK, AND SHALL CONTAIN A CONTINUOUS COLORED STRIPE, 2 INCHES WIDE, LOCATED AT NO GREATER THAN 90 DEGREE INTERVALS AROUND THE PIPE. STRIPE COLOR SHALL BE EITHER BLUE (WATER MAINS), PURPLE (RECLAIMED WATER MAINS), GREEN (SANITARY SEWER AND FORCE MAINS) OR BLACK (NO STRIPE - STORM SEWER).

8. TRACER WIRE SHALL BE COLOR-CODED 10 GAUGE CONTINUOUS INSULATED WIRE, WITH HDPE JACKET (MIN. THICKNESS OF 45 MILS) SPECIFICALLY MANUFACTURED FOR USE IN HORIZONTAL DIRECTIONAL DRILL INSTALLATIONS. THE COLOR OF THE WIRE JACKET SHALL BE SIMILAR TO PIPELINE IDENTIFICATION COLORS. INSTALL TRACER WIRE ALONG POLYETHYLENE PIPE PRIOR TO PULLING THROUGH BORE HOLE. TAPE WIRE TO PIPE EVERY 5 FEET MINIMUM ALONG THE PIPELINE. AFTER PULLING PIPE, CLEAN EXPOSED ENDS FOR INSTALLATION OF FITTINGS, TEST TRACER WIRE FOR CONTINUITY.

9. HIGH DENSITY POLYETHYLENE PIPE SHALL BE HEAT FUSED AND TESTED AS PER MANUFACTURER'S GUIDELINES BEFORE INSTALLATION IN THE BORE HOLE.

10. BRANCH CONNECTIONS TO THE MAIN SHALL BE MADE WITH POLYETHYLENE SADDLE FITTINGS OR MECHANICAL JOINT DUCTILE IRON TEES.

11. JOINTS BETWEEN PLAIN END POLYETHYLENE PIPES AND POLYETHYLENE FITTINGS SHALL BE MADE BY BUTT FUSION, AND JOINTS BETWEEN THE POLYETHYLENE MAIN AND SADDLE BRANCH POLYETHYLENE FITTINGS SHALL BE MADE USING SADDLE FUSION USING ONLY PROCEDURES THAT ARE RECOMMENDED BY THE PIPE AND FITTING MANUFACTURER. EXTERNAL AND INTERNAL BEADS SHALL NOT BE REMOVED.

12. CONNECT POLYETHYLENE PIPE TO HYDRANTS, VALVES, AND DUCTILE IRON FITTINGS USING A MECHANICAL JOINT ADAPTER WITH A GLAND RING. PLACE GLAND RING BEHIND ADAPTER PRIOR TO FUSING. FUSE USING AN ELECTROFUSION COUPLING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. AFTER FUSING, CONNECT TO MECHANICAL JOINT. RESTRAIN ALL NON-POLYETHYLENE PIPE AND PRESSURE TEST CONNECTIONS AS REQUIRED IN INDIVIDUAL PIPELINE GENERAL NOTES.

13. CONNECT POLYETHYLENE PIPE TO ABOVE GRADE VALVES AND FITTINGS USING MECHANICAL FLANGE ADAPTERS. THE FLANGE ADAPTERS ARE TO BE SELF-RESTRAINED.

14. INSTALL ALL MECHANICAL JOINTS AND FLANGE CONNECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PROCEDURE. AT LEAST 1 HOUR AFTER INITIAL ASSEMBLY, FLANGE CONNECTIONS SHALL BE RE-TIGHTENED FOLLOWING THE TIGHTENING PATTERN AND TORQUE STEP RECOMMENDATIONS OF THE MANUFACTURER. THE FINAL TIGHTENING TORQUE SHALL BE 100 FT-LBS OR LESS AS RECOMMENDED BY THE MANUFACTURER.

15. THE SIZE OF THE HORIZONTAL DIRECTIONAL DRILL RIG USED SHALL BE THE INDUSTRY STANDARD SIZE NEEDED BASED ON DRILLING DISTANCE, PIPE DIAMETER, AND SOIL CONDITIONS.

16. AT ROAD CROSSINGS WITHIN FDOT RIGHT-OF-WAY, THE MINIMUM COVER SHALL BE 10 TIMES THE REAMER SIZE IN INCHES UNDER THE PAVED SURFACE. ANY PROPOSED CHANGES TO THE DEPTH AND LENGTH OF THE DIRECTIONAL BORE FROM WHAT IS SHOWN ON THE DRAWINGS MUST BE APPROVED BY THE ENGINEER IN WRITING, PRIOR TO COMMENCEMENT OF DRILLING.

17. AT ROAD CROSSINGS WITHIN PUBLIC OR PRIVATE RIGHT-OF-WAY THAT IS NOT FDOT RIGHT-OF-WAY, THE MINIMUM COVER SHALL BE AS INDICATED IN THE DRAWINGS. IN NO CASE SHALL MAINS 4" AND LARGER HAVE LESS THAN 4 FEET COVER AT ROAD CROSSINGS. ANY PROPOSED CHANGES TO THE DEPTH AND LENGTH OF THE DIRECTIONAL BORE FROM WHAT IS SHOWN ON THE DRAWINGS MUST BE APPROVED BY THE ENGINEER IN WRITING, PRIOR TO COMMENCEMENT OF DRILLING.

18. IN ROAD RIGHT-OF-WAY IN NON-PAVED AREAS, THE MINIMUM DIRECTIONAL BORE DEPTH SHALL BE 4 FEET MINIMUM AND 8 FEET MAXIMUM (TYPICAL DEPTH OF 4-6 FEET), AS INDICATED ON THE DRAWINGS.

19. AS-BUILT VARIANCE FROM THE DESIGN BOREPATH SHALL BE WITHIN 2 FEET IN THE HORIZONTAL PLANE. VERTICALLY, INSTALL AT ROAD CROSSINGS AT THE MINIMUM DEPTH SPECIFIED HEREIN, AND INSTALL AT A MAXIMUM DEPTH OF NO MORE THAN 3-FT DEEPER THAN THE SPECIFIED MINIMUM DEPTH. ANY PROPOSED CHANGE TO THE LENGTH OF THE DIRECTIONAL DRILLED PIPELINE MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. FINAL ACCEPTANCE INCLUDING FINAL PAYMENT OF DIRECTIONAL BORED PIPELINES WILL NOT BE MADE UNTIL DIRECTIONAL BORE LOGS HAVE BEEN SUBMITTED AND THE INFORMATION ON THE BORE LOGS DOCUMENTS THE DEPTH OF THE INSTALLED PIPELINE IS IN ACCORDANCE WITH THESE GENERAL NOTES.

20. BACK REAMING SHALL BE CONDUCTED TO ENLARGE AND PREPARE THE BORE HOLE FOR PIPE INSTALLATION. MINIMIZE POTENTIAL DAMAGE FROM SOIL DISPLACEMENT OR SETTLEMENT BY LIMITING THE RATIO OF THE BORE HOLE TO THE PRODUCT SIZE. THE SIZE OF THE BACK REAMER BIT OR PILOT BIT, IF NO BACK REAMING IS REQUIRED, SHALL BE LIMITED RELATIVE TO THE PRODUCT DIAMETER TO BE INSTALLED AS FOLLOWS:: 4" PIPE = 8" BIT; 6" PIPE = 10" BIT; 8" PIPE = 12" BIT; 10" PIPE = 14" BIT; 12" AND LARGER PIPE = BIT TO BE PIPE OUTSIDE DIAMETER PLUS 6 INCHES. NOTE THESE REAMER SIZES ARE APPROXIMATE. SHOULD THE DIRECTIONAL DRILL CONTRACTOR CHOOSE TO USE A LARGER REAMER SIZE, THE LARGER SIZE COULD RESULT IN THE NEED FOR A DEEPER AND LONGER BORE. THE RESULTING INCREASED BORE LENGTH AND OR DEPTH SHALL BE AT NO ADDITIONAL COST TO THE OWNER.

21. ENSURE ADEQUATE REMOVAL OF SOIL CUTTINGS AND STABILITY OF THE BORE HOLE BY MONITORING THE DRILLING FLUIDS SUCH AS THE PUMPING RATE, PRESSURES, VISCOSITY AND DENSITY DURING THE PILOT BORE, BACK REAMING AND PIPE INSTALLATION. OBTAIN THE ENGINEER'S APPROVAL OF THE LOCATION AND ALL CONDITIONS NECESSARY TO CONSTRUCT RELIEF HOLES TO RELIEVE EXCESS PRESSURE AND ENSURE THE PROPER DISPOSITION OF DRILLING FLUIDS IS MAINTAINED.

22. MINIMIZE HEAVING DURING PULL BACK. THE PULL BACK RATE USED SHALL MAXIMIZE THE REMOVAL OF SOIL CUTTINGS WITHOUT BUILDING EXCESS DOWN HOLE PRESSURE. CONTAIN EXCESS DRILLING FLUIDS AT ENTRY AND EXIT POINTS UNTIL THEY ARE RECYCLED OR REMOVED FROM THE SITE OR VACUUMED DURING DRILLING OPERATIONS. ENTRY AND EXIT PITS ARE TO BE OF SUFFICIENT SIZE TO CONTAIN THE EXPECTED RETURN OF DRILLING FLUIDS AND SOIL CUTTINGS.

23. ENSURE THAT ALL DRILLING FLUIDS ARE DISPOSED OF OR RECYCLED IN A MANNER ACCEPTABLE TO THE APPROPRIATE LOCAL, STATE, OR FEDERAL REGULATORY AGENCIES. IF IN THE DRILLING PROCESS IT BECOMES EVIDENT THAT THE SOIL IS CONTAMINATED, CONTACT THE ENGINEER IMMEDIATELY. DO NOT CONTINUE DRILLING WITHOUT THE ENGINEER'S APPROVAL.

24. INSTALL THE CARRIER IN THE BORE HOLE WITHIN THE SAME DAY THAT THE PRE-BORE IS COMPLETED TO ENSURE STABILITY.

25. IF AN OBSTRUCTION IS ENCOUNTERED DURING BORING WHICH PREVENTS COMPLETION OF THE INSTALLATION IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, EITHER REMOVE THE PIPE OR ABANDON THE PIPE IN PLACE AT THE DISCRETION OF THE ENGINEER. IF PIPE CANNOT BE WITHDRAWN AND ENGINEER APPROVES ABANDONING THE PIPE IN PLACE, CUT PIPE OFF AT LEAST 3 FEET BELOW GROUND SURFACE, FILL ANNULAR SPACE AND PIPE WITH EXCAVATABLE FLOWABLE FILL AND CAP ENDS OF PIPE WITH BLIND FLANGE.

26. IN THE EVENT OF FAILURE TO INSTALL PIPE, RETAIN POSSESSION OF PIPE AND REMOVE IT FROM THE SITE. UPON APPROVAL OF THE ENGINEER, FILL THE ABANDONED BORE HOLE WITH EXCAVATABLE FLOWABLE FILL. SUBMIT A NEW INSTALLATION PROCEDURE AND REVISED PLANS TO THE ENGINEER FOR APPROVAL BEFORE RESUMING WORK AT ANOTHER LOCATION.

27. IF THE SUBMITTED BORING LOGS INDICATE THE INSTALLED ALIGNMENT DOES NOT MEET VERTICAL OR HORIZONTAL ALIGNMENT REQUIREMENTS, THE BORING IS CONSIDERED A FAILURE, AND THE DIRECTIONAL BORED PIPELINE SHALL BE EITHER RE-BORED OR OTHERWISE REMEDIED AT THE DISCRETION OF THE OWNER.

28. IF, DURING CONSTRUCTION, DAMAGE IS OBSERVED TO THE FACILITY, CEASE ALL WORK UNTIL RESOLUTION TO MINIMIZE FURTHER DAMAGE AND A PLAN OF ACTION FOR RESTORATION IS OBTAINED AND APPROVED BY THE ENGINEER.

29. DISINFECT ALL POTABLE WATER MAINS IN ACCORDANCE WITH AWWA C651. ALL POLYETHYLENE WATER MAINS, FORCE MAINS, AND RECLAIMED WATER MAINS ARE TO BE PRESSURE TESTED. SUBJECT PIPELINE TO BE TESTED TO A 4 HOUR EXPANSION PHASE PRIOR TO COMMENCING LEAKAGE TESTING. PIPELINE EXPANSION SHALL BE ACCOMPLISHED BY APPLYING HYDROSTATIC TEST PRESSURE OF 150 PSI (WATER MAINS, RECLAIMED WATER MAINS) OR 100 PSI (FORCE MAINS). IN ORDER TO COMPENSATE FOR THE INITIAL EXPANSION OF THE PIPELINE, ADD SUFFICIENT MAKE-UP WATER AT HOURLY INTERVALS TO RETURN TO THE REQUIRED TEST PRESSURE. AT THE END OF THE FOURTH HOUR, THE TEST PHASE IS TO COMMENCE.

30. CONDUCT FIELD LEAK TESTING IN ACCORDANCE WITH ASTM F2164 AND AS INDICATED HEREIN. THE ASTM F2164 DEFINED ONE HOUR TEST AND PASSING TEST CRITERIA (NO VISIBLE LEAKS AND THE PRESSURE IS MAINTAINED WITHIN 5% OF THE TEST PRESSURE) DOES NOT APPLY TO THIS PROJECT. THE TEST PHASE SHALL CONSIST OF A TWO HOUR PRESSURE TEST, AS REQUIRED BY THE ENGINEER. AT THE END OF THE TEST PHASE, MEASURE THE AMOUNT OF MAKEUP WATER REQUIRED TO RETURN TO THE TEST PRESSURE. THE PIPELINE PASSES THE PRESSURE TEST IF THE MAKEUP WATER REQUIRED DOES NOT EXCEED THE FOLLOWING: 6" MAINS - ALLOWABLE MAKEUP WATER IS 0.6 GAL/100 FT OF PIPELINE TESTED; 8" MAINS - ALLOWABLE MAKEUP WATER IS 1.0 GAL/100 FT OF PIPELINE TESTED; 12" MAINS - ALLOWABLE MAKEUP WATER IS 2.3 GAL/100 FT OF PIPELINE TESTED; 16" MAINS - ALLOWABLE MAKEUP WATER IS 3.3 GAL/100 FT OF PIPELINE TESTED.

31. IF ANY DEFECTS OR LEAKS ARE REVEALED, THEY SHOULD BE CORRECTED AND THE PIPELINE RETESTED AFTER A MINIMUM 24 HOUR RECUPERATION PERIOD BETWEEN TESTS. TOTAL TESTING CONDUCTED ON A SECTION OF PIPELINE SHALL NOT EXCEED 8 HOURS WITHIN A 24 HOUR PERIOD.

32. ALL APPARENT LEAKS DISCOVERED WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER SHALL BE LOCATED AND REPAIRED BY CONTRACTOR, REGARDLESS OF THE TOTAL LINE LEAKAGE RATE.

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DANIEL P. MOYER LICENSE No. 69057 STATE OF FLORIDA PROFESSIONAL ENGINEER

No.	Date	Revision
1	4/20/17	RESUBMIT TO THE CITY OF VENICE
2	5/05/17	RESUBMIT TO THE CITY OF VENICE
3		
4		
5		
6		
7		

Designed: K. Upp
Drawn: K. Upp
Checked: D. Moyer
Scale: As Noted
Job No.: S29701
Date: 12/16

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GENERAL NOTES SHEET

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CITY OF VENICE / SARASOTA COUNTY / FLORIDA

Sheet No.

C0.3

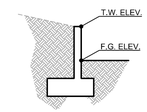
THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND.

SYMBOLS:

- XX.XX / XX.XX — TOP OF CURB ELEV. / PAVEMENT ELEV.
- XX.XX — PAVEMENT ELEV.
- 10 — PARKING SPACE COUNT
- DIRECTION OF FLOW
- X.X% — SLOPE OF FLOW
- RR — RIP RAP - GROUTED
- C.O. — CLEAN OUT
- D.S. — DOWN SPOUT
- STORM / SANITARY MANHOLE
- DITCH BOTTOM INLET
- MITERED END SECTION
- FLARED END SECTION
- "U" TYPE END WALL
- FLUME
- CURB INLETS
- NYLOPLAST DRAIN BASIN
- RETAINING WALL
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION
- WATER LINE FITTINGS
- GATE VALVE
- REDUCER
- PC1 — PIPE CROSSING
- UTILITY POLE
- SITE LIGHTING
- FLAG POLE
- A — CROSS SECTION (SEE CONSTRUCTION DETAILS SHEET)

ABBREVIATIONS:

A/C	- AIR CONDITIONER
APPROX	- APPROXIMATE
ASPH	- ASPHALT
AVG	- AVERAGE
BFP	- BACK FLOW PREVENTER
BLK	- BLOCK
BLDG	- BUILDING
BOC	- BACK OF CURB
BOW	- BACK OF WALL
C & G	- CURB & GUTTER
CE	- CONSTRUCTION ENTRANCE
C/L	- CENTERLINE
CMP	- CORRUGATED METAL PIPE
CONc	- CONCRETE
DEPT	- DEPARTMENT
ELEC	- ELECTRIC
EM	- ELECTRICAL METER
ELEV	- ELEVATION
EOP	- EDGE OF PAVEMENT
FDC	- FIRE DEPARTMENT CONNECTION
FDOT	- FLORIDA DEPARTMENT OF TRANSPORTATION
FF	- FINISH FLOOR
FG	- FINISH GRADE
FH	- FIRE HYDRANT
FM	- FORCE MAIN
FOC	- FACE OF CURB
FP&L	- FLORIDA POWER AND LIGHT
GOV'T	- GOVERNMENT
HB	- HOSE BIB
HC	- ADA ACCESSIBLE
HDPE	- HIGH DENSITY POLYETHYLENE PIPE
INV	- INVERT
IRR	- IRRIGATION
ME	- MATCH EXISTING ELEVATION
MES	- MITERED END SECTION
MH	- MANHOLE
PVC	- POLYVINYL CHLORIDE PIPE
PVMT	- PAVEMENT
R	- RADIUS
RCP	- REINFORCED CONCRETE PIPE
REV	- REVISION
R/W	- RIGHT-OF-WAY
SF	- SQUARE FEET
S/W	- SIDEWALK
TOB	- TOP OF BANK
TOE	- TOE OF SLOPE
TW	- TOP OF WALL
TYP	- TYPICAL
UNK	- UNKNOWN
UTL	- UNDERGROUND TELEPHONE LINES
W/	- WITH
WV	- WATER VALVE



RETAINING WALL ELEVATION

PAINT STRIPING ABBREVIATIONS:

SWSL	- SINGLE WHITE SOLID LINE
SYSL	- SINGLE YELLOW SOLID LINE
DYSL	- DOUBLE YELLOW SOLID LINE
SWDL	- SINGLE WHITE DASHED LINE
SBYL	- SINGLE BROKEN YELLOW LINE

LINE TYPES:

- GUIDE RAIL
- BASIN LINE
- BUILDING SETBACK LINE
- X — FENCE (AS NOTED ON PLAN)
- XX — CONTOUR ELEVATION
- EASEMENT
- E — ELECTRIC LINE
- FO — FIBER OPTIC
- FW — FIRE WATER
- FM — FORCE MAIN
- G — GAS LINE
- H.P. — HIGH POINT
- IC — IRRIGATION LINE
- LANDSCAPE BUFFER
- LOD — LIMITS OF DISTURBANCE
- OHE — OVERHEAD ELECTRIC
- PROPERTY LINE
- RAILROAD
- RWM — RECLAIM WATER
- S — SANITARY SEWER
- STORM PIPE
- TS — TAMPER SWITCH
- T — TELEPHONE LINE
- SF — TEMPORARY SILT FENCE
- UB — UTILITY BOLLARD CONDUIT
- W — WATER MAIN
- WALL (AS NOTED ON PLAN)

SIGNS:

(B)	BUS STOP (R7-7)
(DNE)	DO NOT ENTER (R5-1)
(FL)	NO PARKING - FIRE LANE (R7-94)
(HC)	HANDICAP (FTP-25)
(KR)	KEEP RIGHT (R4-7A)
(KL)	KEEP LEFT (R4-8A)
(LTO)	LEFT TURN ONLY (R3-5L)
(ME)	MEDIAN (R4-7) (R4-8)
(ND)	NO DUMPING
(NL)	NO LEFT TURN (R3-2)
(NLI)	NO LITTERING
(NOR)	NO RIGHT TURN (R3-1)
(NOT)	NO TRUCKS (R5-2A)
(NP)	NO PARKING (R7-1)
(1W)	ONE WAY (R6-1L) (R6-1R)
(PE)	PEDESTRIAN CROSSING (W11-2)
(RTO)	RIGHT TURN ONLY (R3-5R)
(R1)	ROW NUMBER
(SL)	SPEED LIMIT (R2-X)
(ST)	STOP (R1-1)
(TZ)	TOW AWAY ZONE (R7-201)
(TE)	TRUCK ENTRANCE
(WL)	WEIGHT LIMIT (R12-5)
(WW)	WRONG WAY (R5-1A)
(Y)	YIELD (R1-2)
(DT)	RESERVED DRIVE-THRU PARKING

NOTE:

ITEMS SHOWN THAT ARE DASHED / SCREENED REPRESENT EXISTING CONDITIONS. ITEMS SHOWN THAT ARE SOLID / BOLD REPRESENT PROPOSED CONDITIONS.

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Arch. Lic. No. AA2600926
Lndscp. Lic. No. LC0000298

DANIEL P. MOYER — LICENSE No. 69057 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

No.	Date	Revision
1	5/05/17	RESUBMIT TO THE CITY OF VENICE
2	4/20/17	RESUBMIT TO THE CITY OF VENICE
3		
4		
5		
6		
7		

Designed: K. Upp
Drawn: K. Upp
Checked: D. Moyer
Scale: As Noted
Job No.: S29701
Date: 12/16

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GENERAL NOTES, LEGENDS AND SYMBOLS SHEET

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CITY OF VENICE / SARASOTA COUNTY / FLORIDA

Sheet No.

C0.4

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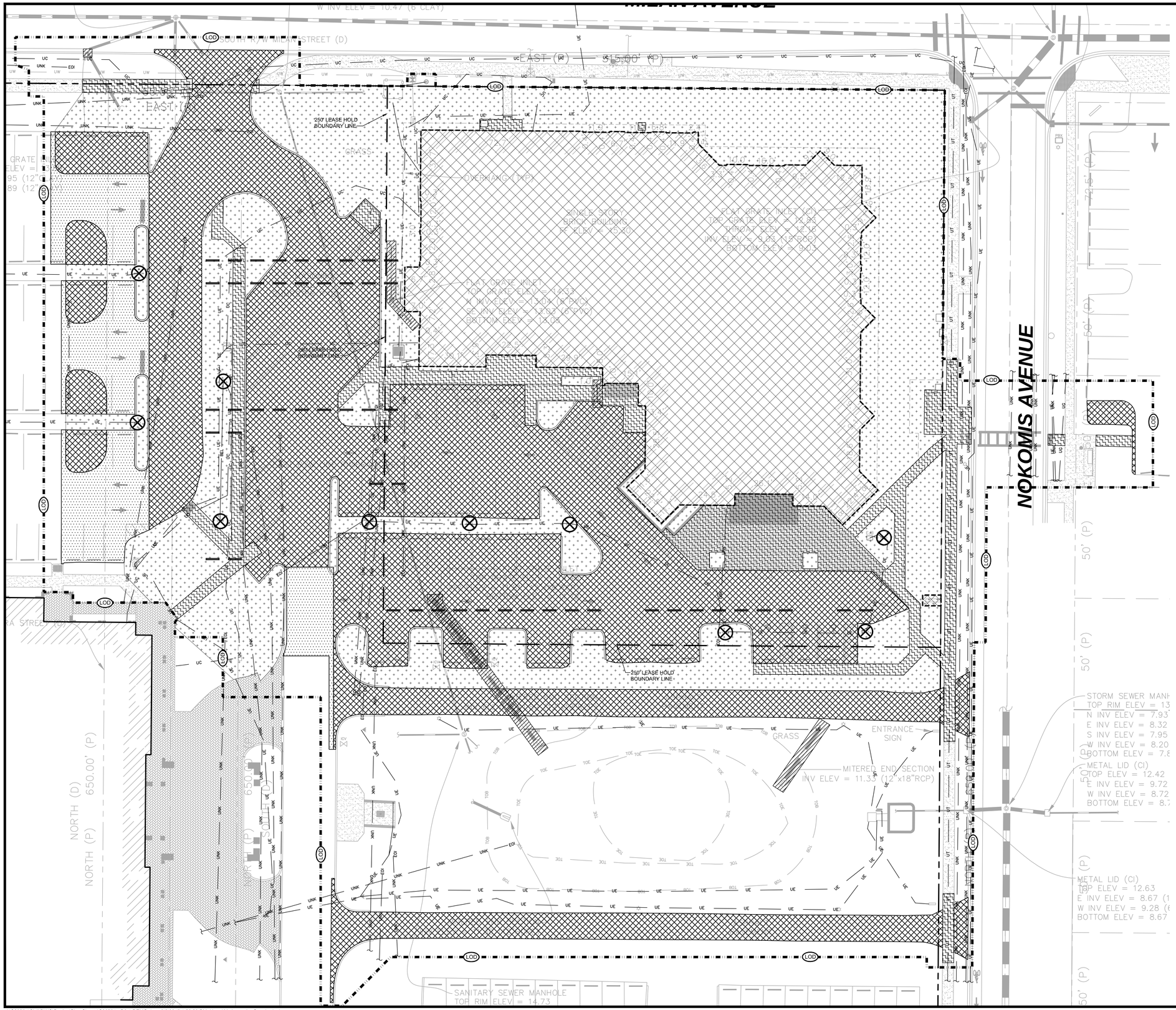

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

DEMOLITION LEGEND

- EXISTING BUILDING TO BE REMOVED
- EXISTING PAVEMENT AND BASE AND ANY ASSOCIATED CURBING TO BE REMOVED
- EXISTING PAVEMENT TO BE MILLED AND RESURFACED
- EXISTING LANDSCAPE / GROUND COVER TO BE REMOVED
- EXISTING CONCRETE SIDEWALKS / PADS TO BE REMOVED
- EXISTING LIGHT POLE TO BE REMOVED
- EXISTING STORM LINE TO BE REMOVED

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DEMOLITION PLAN

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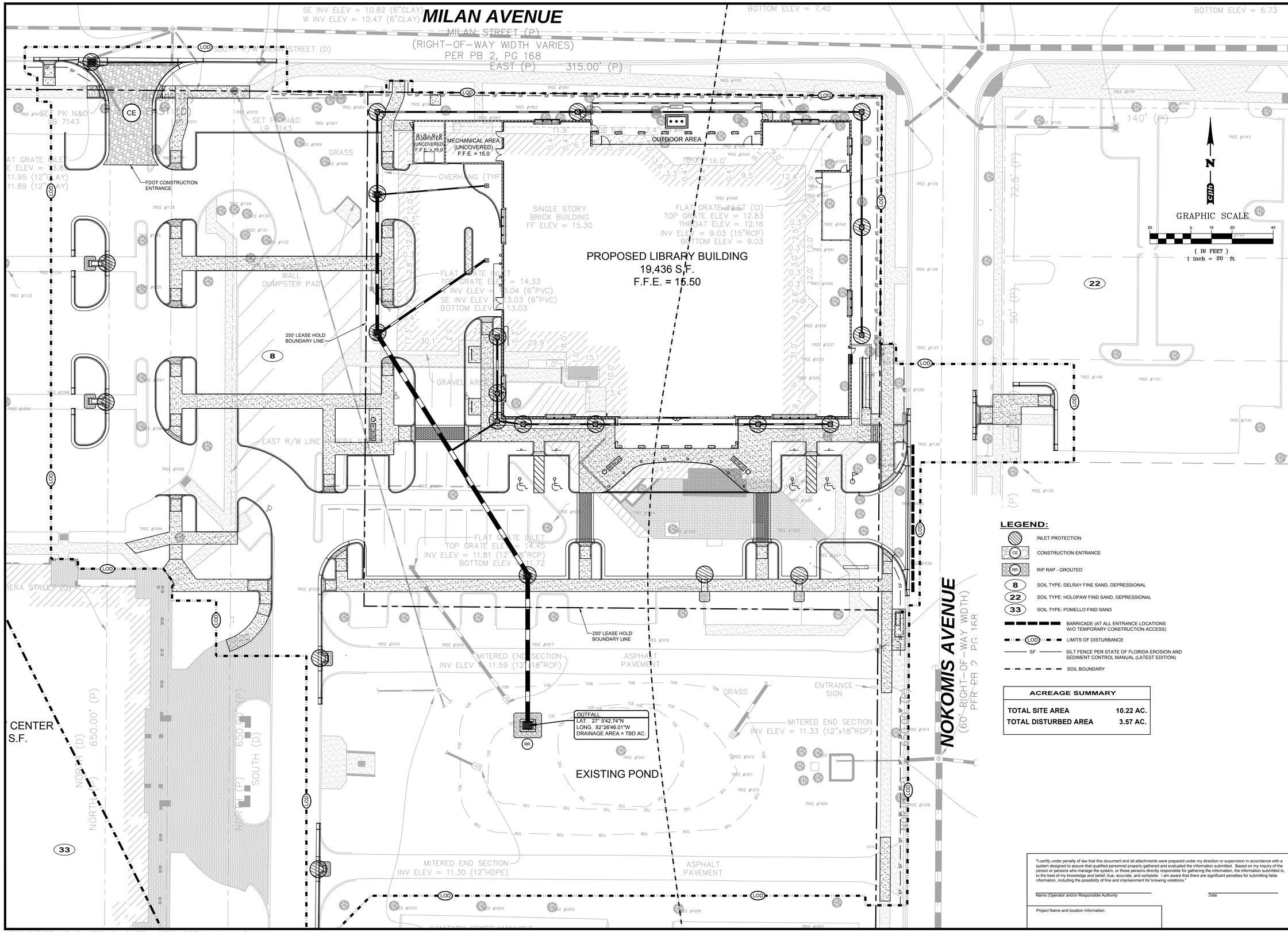

LEGEND:

- INLET PROTECTION
- CE — CONSTRUCTION ENTRANCE
- RR — RIP RAP - GROUTED
- 8 — SOIL TYPE: DELRAY FINE SAND, DEPRESSIONAL
- 22 — SOIL TYPE: HOLOPAW FIND SAND, DEPRESSIONAL
- 33 — SOIL TYPE: POMELLO FIND SAND
- BARRICADE (AT ALL ENTRANCE LOCATIONS W/O TEMPORARY CONSTRUCTION ACCESS)
- LOD — LIMITS OF DISTURBANCE
- SF — SILT FENCE PER STATE OF FLORIDA EROSION AND SEDIMENT CONTROL MANUAL (LATEST EDITION)
- SOIL BOUNDARY

ACREAGE SUMMARY	
TOTAL SITE AREA	10.22 AC.
TOTAL DISTURBED AREA	3.57 AC.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name (Operator and/or Responsible Authority

Date

Project Name and location information:

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STORMWATER POLLUTION PREVENTION PLAN

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C1.1

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND.

STORMWATER POLLUTION PREVENTION NOTES

THESE PLANS HAVE BEEN PREPARED TO ASSIST THE CONTRACTOR IN OBTAINING COVERAGE UNDER THE FDEP GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE PERMIT REQUIREMENTS AND MODIFY THESE PLANS AS NEEDED TO BE IN COMPLIANCE WITH THE PERMIT REQUIREMENTS.

SITE DESCRIPTION

A. SITE LOCATION
THE SITE IS LOCATED AT 300 NOKOMIS AVE S., IN VENICE, SARASOTA COUNTY, FLORIDA
SECTION 7, TOWNSHIP 39 SOUTH, RANGE 19 EAST
LATITUDE: 27° 5'44.79"N LONGITUDE: 82°26'45.39"W

B. SITE CONDITIONS & ACTIVITIES NARRATIVE:
THE EXISTING CONDITION OF THE SITE IS "DEVELOPED". DURING CONSTRUCTION THE SITE WILL BE CLEARED AND GRUBBED. THIS PROJECT WILL HAVE NO MAJOR EFFECT ON ANY THE ABUTTING PROPERTIES.

WETLANDS/BUFFERS

NO WETLANDS OR BUFFERS ARE ASSOCIATED WITH THIS PROJECT.

SWPPP INTENT

THE INTENT OF THIS SWPPP IS TO COMPLY WITH THE INTENT OF THE GENERIC PERMIT AND TO PREVENT THE RELEASE OF SOILS, TRASH, CHEMICALS, TOXINS AND OTHER POLLUTANTS, BY WATER , AIR, VEHICLE TRANSPORT OR OTHER MEANS THAT CAN IMPACT STORM WATER QUALITY. THE CONTRACTOR SHALL OBTAIN A COPY OF THE GENERIC PERMIT AND RETAIN ON-SITE FOR FUTURE REFERENCE. THE CONTRACTOR SHALL READ AND UNDERSTAND THE PERMIT, AND ENSURE THAT THE BMP'S ARE INSTALLED AND THE EXECUTION OF THE WORK IS PERFORMED TO MEET THE INTENT OF THE GENERIC PERMIT AND THE SWPPP.

POTENTIAL SOURCES OF POLLUTION

THE POTENTIAL SOURCES OF POLLUTION THAT MAY REASONABLY BE EXPECTED TO AFFECT THE QUALITY OF STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY INCLUDE: SEDIMENT, PESTICIDES, FERTILIZER, PLASTER, CLEANING SOLVENTS, ASPHALT, CONCRETE, GLUE, ADHESIVES, PAINTS, CURING COMPOUNDS, WOOD PRESERVATIVES, HYDRAULIC OIL FLUIDS, GASOLINE, DIESEL FUEL AND KEROSENE.

SEQUENCE OF CONSTRUCTION

THE SEQUENCE OF CONSTRUCTION HAS BEEN DEVELOPED AS A GUIDE FOR THE CONTRACTOR. THE CONTRACTOR SHALL SEQUENCE THE CONSTRUCTION AS NEEDED BASED ON BEST MEANS AND METHODS IN ORDER TO BE IN COMPLIANCE WITH STATE AND LOCAL REQUIREMENTS. THE INSTALLATION OR REMOVAL OF BMPS, EARTH DISTURBANCE, GRADING, TEMPORARY STABILIZATION AND PERMANENT STABILIZATION SHALL BE IMMEDIATELY NOTED IN THE SWPPP IMPLEMENTATION LOG. ALL TEMPORARY BMPS SHALL BE REPAIRED AND MAINTAINED UNTIL STABILIZATION HAS OCCURRED AND THERE IS NO RISK OF DISCHARGE. TEMPORARILY SEED, IMMEDIATELY AND THROUGHOUT CONSTRUCTION, DENUDED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE. PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.

1. POST A COPY OF THE NOI OR LETTER FROM FDEP CONFIRMING COVERAGE UNDER THE GENERIC PERMIT, AND THE NAME AND PHONE NUMBER OF THE CONTRACTOR'S REPRESENTATIVE RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROL INSTALLATION AND MAINTENANCE ON A 24 HOUR BASIS.
2. INSTALL PERIMETER CONTROLS IMMEDIATELY DOWNSTREAM OF THE PLANNED LOCATION OF THE CONSTRUCTION EXIT.
3. INSTALL STABILIZED CONSTRUCTION EXIT.
4. INSTALL PERMITER CONTROLS. THE CONTRACTOR SHALL INSTALL THE REMAINING BMPS AS SHOWN AND AS REQUIRED TO MEET PERMIT REQUIREMENTS. SOME BMP INSTALLATIONS MAY NOT BE POSSIBLE AT THE BEGINNING OF THE PROJECT BUT MUST BE INSTALLED AS SOON AS POSSIBLE TO ENSURE COMPLIANCE.
5. INSTALL TEMPORARY STAGING AND STORAGE AREAS.
6. CONSTRUCT AND STABILIZE THE SEDIMENT BASINS AND SEDIMENT TRAPS WITH APPROPRIATE OUTFALL STRUCTURES, IF REQUIRED.
7. CONSTRUCT AND STABILIZE HYDRAULIC CONTROLS (DITCHES, SWALES, DIKES, CHECK DAMS, ETC.), IF REQUIRED.
8. BEGIN DEMOLITION, CLEARING AND GRUBBING OPERATIONS AS APPLICABLE.
9. BEGIN CONSTRUCTION OF SITE IMPROVEMENTS.
10. PAVE SITE AND STABILIZE PER PLAN.
11. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER SITE HAS ACHIEVED FINAL STABILIZATION.
12. SUBMIT NOTICE OF TERMINATION (NOT) ONCE ALL CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED PER PLAN.

GENERAL NOTES

A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FILE "NOTICE OF INTENT TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES" (DEP FORM 62-621.300(4)(B) OR LATEST VERSION) TO FDEP TO THE FOLLOWING ADDRESS OR THROUGH THE FDEP ON-LINE SYSTEM AT LEAST TWO (2) DAYS BEFORE COMMENCEMENT OF CONSTRUCTION:

NPDES STORMWATER NOTICES CENTER, MS #2510 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, 2600 BLAIR STONE ROAD, TALLAHASSEE, FLORIDA 32399-2400

THE CONTRACTOR SHALL SUBMIT A NOTICE OF TERMINATION (NOT) WITHIN 14 CALENDAR DAYS AFTER THE SITE HAS ACHIEVED FINAL STABILIZATION (I.E. ALL DISTURBED SOILS AT THE SITE HAVE BEEN FINAL STABILIZED), TEMPORARY BMPS HAVE BEEN REMOVED, AND STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE SITE AUTHORIZED BY THE PERMIT HAVE BEEN ELIMINATED.

AN ENVIRONMENTAL RESOURCE PERMIT IS REQUIRED FOR THE PROJECT. CONTRACTOR SHALL PROVIDE THE PERMIT INFORMATION ON THE NOI APPLICATION.

MS4 OPERATOR NAME (IF ANY): FDOT

THE CONTRACTOR SHALL PROVIDE A COPY OF THE NOI AND SUBSEQUENT NOT OR THE ACKNOWLEDGEMENT LETTERS FOR THE NOI OR NOT TO THE MS4 WITHIN 7 DAYS OF RECEIPT. THE CONTRACTOR SHALL ALSO COORDINATE WITH THE MS4 TO ENSURE THAT ALL SPECIFIC REQUIREMENTS ARE MET.

B. WHERE PRACTICAL, STORMWATER SHALL BE CONVEYED BY SWALES. SWALES SHALL BE CONSTRUCTED AS SHOWN ON PLANS.

C. EROSION CONTROL MEASURES SHALL BE EMPLOYED TO MINIMIZE TURBIDITY OF SURFACE WATERS LOCATED DOWNSTREAM OF ANY CONSTRUCTION ACTIVITY. WHILE THE VARIOUS MEASURES REQUIRED WILL BE SITE SPECIFIC, THEY SHALL BE EMPLOYED AS NEEDED IN ACCORDANCE WITH THE FOLLOWING:

I. IN GENERAL, EROSION SHALL BE CONTROLLED AT THE FURTHEST PRACTICAL UPSTREAM LOCATION.
II. NEW AND EXISTING STORMWATER INLETS AND OUTFALL STRUCTURES SHALL BE PROTECTED DURING CONSTRUCTION. PROTECTION MEASURES SHALL BE EMPLOYED IMMEDIATELY AS REQUIRED DURING THE VARIOUS STAGES OF CONSTRUCTION.
III. PERIMETER EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL FINAL SITE STABILIZATION HAS BEEN ESTABLISHED

D. CLEARING AND GRUBBING OPERATIONS SHALL BE CONTROLLED SO AS TO MINIMIZE UNPROTECTED ERODIBLE AREAS EXPOSED TO WEATHER. GENERAL EROSION CONTROL BMP'S SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION AND OFF-SITE SEDIMENTATION. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED PRIOR TO ANY CONSTRUCTION ACTIVITY.

E. THE CONTRACTOR SHALL FURNISH, INSTALL PER THE SEQUENCE OF CONSTRUCTION, MAINTAIN AND SUBSEQUENTLY REMOVE, ALL NECESSARY TEMPORARY BMPS. THE CONTRACTOR WILL FURNISH AND INSTALL ALL NECESSARY PERMANENT BMPS.

F. THE CONTRACTOR SHALL ADJUST, ADD OR MODIFY BMPS AS NECESSARY TO COMPLY WITH THE INTENT OF THE GENERIC NPDES PERMIT AND THE SWPPP FOR NO ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER PRIOR TO ADJUSTING, ADDING OR MODIFYING BMPS THAT AFFECT THE HYDRAULICS OF THE SITE OR BEFORE ADDING BMPS NOT DETAILED IN THE SWPPP.

G. THE CONTRACTOR IS ADVISED THAT THE CONTRACT DRAWINGS ONLY INDICATE EROSION, SEDIMENT, AND TURBIDITY CONTROLS AT LOCATIONS DETERMINED IN THE DESIGN PROCESS. HOWEVER, THE CONTRACTOR IS REQUIRED TO PROVIDE ANY ADDITIONAL CONTROLS NECESSARY TO PREVENT THE POSSIBILITY OF SILTING ANY ADJACENT LOWLAND PARCEL OR RECEIVING WATER.

H. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. THE EROSION CONTROL SYSTEM DESCRIBED WITHIN THE CONSTRUCTION DOCUMENTS SHOULD BE CONSIDERED TO REPRESENT THE MINIMUM ACCEPTABLE STANDARDS FOR THIS PROJECT. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDENT UPON THE STAGE OF CONSTRUCTION, THE SEVERITY OF THE RAINFALL EVENT AND/OR AS DEEMED NECESSARY AS A RESULT OF ON-SITE INSPECTIONS BY THE OWNER, THEIR REPRESENTATIVES, OR THE APPLICABLE JURISDICTIONAL AUTHORITIES. THESE ADDITIONAL MEASURES (IF NEEDED) SHALL BE INSTALLED AT NO ADDITIONAL COST TO THE OWNER. IT SHOULD BE NOTED THAT THE MEASURES IDENTIFIED ON THIS PLAN ARE ONLY SUGGESTED BEST MANAGEMENT PRACTICES (BMPS). THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND EROSION CONTROL MEASURES AS SPECIFIED IN FDOT INDEXES #100 THROUGH #102 AND AS NECESSARY FOR EACH SPECIFIC APPLICATION. IT IS THE CONTRACTOR'S ULTIMATE RESPONSIBILITY TO ASSURE THAT THE STORMWATER DISCHARGE FROM THE SITE DOES NOT EXCEED THE TOLERANCES ESTABLISHED BY ANY OF THE APPLICABLE JURISDICTIONAL AUTHORITIES.

I. THE CONTRACTOR SHALL KEEP THE SWPPP CURRENT AT ALL TIMES. THE CONTRACTOR SHALL SIGN AND DATE ANY CHANGES TO THE SWPPP AND KEEP THEM AS ATTACHMENTS TO THE ORIGINAL PLAN. WHENEVER ANY OF THE FOLLOWING EVENTS OCCUR, THE CONTRACTOR SHALL UPDATE THE SWPPP WITHIN 7 DAYS:
I. THERE IS A CHANGE IN DESIGN, CONSTRUCTION OPERATION OR MAINTENANCE THAT HAS A SIGNIFICANT EFFECT ON THE DISCHARGE FROM THE PROJECT
II. THERE IS A NEW DISCHARGE POINT OUR OUTFALL
III. THERE IS A CHANGE IN THE LOCATION OF A DISCHARGE POINT OF OUTFALL
IV. AN INSPECTION REVEALS THAT BMPS ARE INEFFECTIVE AT ELIMINATING OR MINIMIZING POLLUTANTS IN THE STORMWATER DISCHARGED FROM THE SITE.
V. THERE IS A NEW SUBCONTRACTOR IMPLEMENTING ANY PORTION OF THE SWPPP
VI. A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR GREATER THAN A REPORTABLE QUANTITY OCCURS DURING A 24-HOUR PERIOD

J. THE CONTRACTOR SHALL ENSURE THAT THE CONTRACTOR AND ALL SUBCONTRACTORS RESPONSIBLE FOR IMPLEMENTING SWPPP CONTROL MEASURES FILL OUT THE CONTRACTOR / SUBCONTRACTOR CERTIFICATION TABLE INCLUDED IN THIS SWPPP.

K. THE CONTRACTOR SHALL COMPLETE THE CONSTRUCTION SEQUENCE TABLE INCLUDING IN THIS SWPPP PRIOR TO PROCEEDING WITH THE INSTALLATION OF BMPS AND PRIOR TO GROUND DISTURBING ACTIVITIES. THE CONTRACTOR SHALL COMPLETE THE TABLE WITH ANTICIPATED DATES IN WHICH THE BMP WILL BE UTILIZED OR THE ACTIVITY WILL OCCUR.

TURBIDITY

A. TURBIDITY REDUCTION TO NO MORE THAN 29 NTUs ABOVE BACKGROUND LEVEL PRIOR TO DISCHARGE OFF SITE.

B. CONTRACTOR TO FILE FOR A FDEP NOTICE OF INTENT (NOI) WITHIN 14 DAYS OF CONSTRUCTION COMPLETION.

STABILIZATION

A. STABILIZATION MEASURES SHALL BE INITIATED IMMEDIATELY IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED AND WILL REMAIN UNDISTURBED FOR 7 DAYS OR MORE. STABILIZE BY COVERING WITH ADEQUATE AMOUNTS OF MULCH OVER SEED AND PERIODICALLY WATER TO PROMOTE AND MAINTAIN GROWTH OF THE TEMPORARY GROUNDCOVER, OR BY THE USE OF AN APPROPRIATE ALTERNATIVE BMP.

B. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES OR ANY DISTURBED LAND AREAS SHALL BE COMPLETED IMMEDIATELY AFTER FINAL GRADING. WHEN IT IS NOT POSSIBLE TO PERMANENTLY PROTECT A DISTURBED AREA IMMEDIATELY AFTER GRADING OPERATIONS, TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED. ALL TEMPORARY PROTECTION SHALL BE MAINTAINED UNTIL PERMANENT MEASURES ARE IN PLACE AND ESTABLISHED.

C. ALL GRASS SLOPES CONSTRUCTED STEEPER THAN 4H:1V SHALL BE SODDED IMMEDIATELY AFTER FINAL GRADE IS ESTABLISHED.

DUST CONTROL

A. BARE EARTH AREAS SHALL BE WATERED DURING CONSTRUCTION AS NECESSARY TO MINIMIZE THE TRANSPORT OF FUGITIVE DUST. IN NO CASE SHALL FUGITIVE DUST BE ALLOWED TO LEAVE THE SITE UNDER CONSTRUCTION.

B. AS REQUIRED AFTER COMPLETION OF CONSTRUCTION, BARE EARTH AREAS SHALL BE VEGETATED.

AT ANY TIME BOTH DURING AND AFTER SITE CONSTRUCTION THAT WATERING AND/OR VEGETATION ARE NOT EFFECTIVE IN CONTROLLING WIND EROSION AND/OR TRANSPORT OF FUGITIVE DUST, OTHER METHODS AS ARE NECESSARY FOR SUCH CONTROL SHALL BE EMPLOYED. THESE METHODS MAY INCLUDE ERECTION OF DUST CONTROL FENCES.

WASTE MANAGEMENT

A. THE CONTRACTOR SHALL ENSURE THAT ALL WASTE AND DEBRIS ARE MANAGED DAILY SUCH THAT THEY WILL NOT IMPACT STORMWATER OR LEAVE THE PERMITTED AREA, AND DISPOSED OF PROPERLY IN ACCORDANCE WITH APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS.

B. THE CONTRACTOR SHALL ENSURE THAT ALL CHEMICALS, OILS, FUELS, HAZARDOUS WASTE, UNIVERSAL WASTE AND TOXIC SUBSTANCES ARE PROPERLY MANAGED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS. THE CONTRACTOR SHALL ENSURE THAT WASTE IS NOT DISCHARGED FROM THE SITE, AND DOES NOT IMPACT STORMWATER OR GROUNDWATER.

C. THE CONTRACTOR SHALL PROVIDE APPROPRIATE AND ADEQUATE WASHOUT FACILITIES TO ENSURE THAT CHEMICALS AND WASTE IS NOT DISCHARGED FROM THE SITE, AND DO NOT IMPACT STORMWATER OR GROUNDWATER. (E.G. CONCRETE/MASONRY WASHOUT, PAINT WASHOUT, EIFS, ETC.) THE CONTRACTOR SHALL CLEAN UP SPILLS PROMPTLY AND ENSURE THAT WASHOUT AREAS ARE PROPERLY MAINTAINED TO PROVIDE ADEQUATE VOLUME TO PREVENT OVERFLOW.

D. THE CONTRACTOR SHALL PROVIDE ADEQUATE SANITARY FACILITIES FOR SITE PERSONNEL, MAINTAIN THROUGHOUT CONSTRUCTION, AND PROVIDE FOR PROPER DISPOSAL IN ACCORDANCE WITH APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS. SANITARY FACILITIES SHALL BE PROPERLY SECURED TO PREVENT TIPPING.

E. A SPILL CONTROL AND CONTAINMENT KIT (CONTAINING FOR EXAMPLE, ABSORBENT MATERIAL SUCH AS KITTY LITTER OR SAWDUST, ACID, BASE, NEUTRALIZING AGENT, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, PLASTIC AND METAL TRASH CONTAINERS, ETC.) SHALL BE PROVIDED AT THE CONSTRUCTION SITE AND IT'S LOCATION(S) SHALL BE IDENTIFIED WITH LEGIBLE SIGNAGEAND SHOWN ON THE SITE MAPS.
A. THE SPILL CONTROL AND CONTAINMENT KIT SHALL BE OF SUFFICIENT QUANTITIES AND APPROPRIATE CONTENT TO CONTAIN A SPILL FROM THE LARGEST ANTICIPATED PIECE OF EQUIPMENT AND FROM THE LARGEST ANTICIPATED QUANTITIES OF PRODUCTS STORED ON THE SITE AT ANY GIVEN TIME.

F. WHEN A SPILL OF REPORTABLE QUANTITIES IS DISCOVERED ON THE SITE, THE CONTRACTOR SHALL CLEAN UP ALL SPILLED MATERIALS AND DISPOSE OF IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE AUTHORITIES IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS, THE OWNER AND PROJECT ENGINEER. THE CONTRACTOR SHALL RETAIN CLEANUP INFORMATION AS WELL AS DISPOSAL MANIFESTS WITH THEIR SWPPP.

MATERIALS MANAGEMENT, AND EQUIPMENT STAGING AND MAINTENANCE

A. EXCAVATED MATERIAL SHALL NOT BE DEPOSITED IN LOCATIONS WHERE IT COULD BE WASHED AWAY BY HIGH WATER OR STORM WATER RUNOFF. STOCKPILED MATERIAL SHALL BE COVERED OR ENCIRCLED WITH SEDIMENT CONTAINMENT DEVICES.

B. HEAVY CONSTRUCTION EQUIPMENT PARKING AND MAINTENANCE AREAS SHALL BE DESIGNED TO PREVENT OIL, GREASE, AND LUBRICANTS FROM ENTERING SITE DRAINAGE FEATURES INCLUDING STORMWATER COLLECTION AND TREATMENT SYSTEMS. CONTRACTORS SHALL PROVIDE BROAD DIKES OR SILT SCREENS AROUND, AND SEDIMENT SUMPS WITHIN, SUCH AREAS AS REQUIRED TO CONTAIN SPILLS OR OIL, GREASE, LUBRICANTS, OR OTHER CONTAMINANTS. CONTRACTOR SHALL HAVE AVAILABLE, AND SHALL USE, ABSORBENT FILTER PADS TO CLEAN UP SPILLS IMMEDIATELY AFTER ANY OCCURRENCE.

C. THE CONTRACTOR SHALL ENSURE THAT ALL TOXIC / HAZARDOUS SUBSTANCES AND CHEMICALS ARE PROPERLY STORED, OUT OF THE WEATHER, AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR SHALL ENSURE THAT THESE PRODUCTS ARE STORED AND USED IN SUCH A MANNER THAT WILL NOT NEGATIVELY IMPACT STORMWATER, GROUNDWATER OR PROTECTED SPECIES.

D. THE CONTRACTOR SHALL ENSURE THAT ALL MATERIALS, EQUIPMENT, DEBRIS, WASTE, TRAILERS, AND OTHER SUPPORT RELATED ITEMS ARE CONTAINED WITHIN THE PERMITTED LIMITS OF DISTURBANCE. THE CONTRACTOR SHALL ENSURE THAT THE STORAGE AND USE OF SUCH ITEMS DOES NOT NEGATIVELY IMPACT STORMWATER OR GROUNDWATER.

OFFSITE VEHICLE TRACKING

A. THE CONTRACTOR SHALL ENSURE THAT THE CONSTRUCTION EXIT IS USED BY ALL VEHICLES AND EQUIPMENT ENTERING OR LEAVING THE JOBSITE. THE CONTRACTOR SHALL MONITOR AND MAINTAIN THE CONSTRUCTION EXIT TO ENSURE THAT NO SOILS ARE TRACKED OFFSITE BY TIRES OR TRACKS, AND THAT NO SOILS ARE SPILLED BY TRUCKS OR EQUIPMENT LEAVING THE SITE. ALL TRACKED OR SPILLED SOILS SHALL BE SHOVELED OR SWEPT FROM THE ROADWAY AND RETURNED TO THE SITE. WATER SHALL NOT BE USED TO CLEAN THE SOILS FROM THE ROADWAY UNLESS THE WATER AND SOILS ARE RECOVERED BY THE USE OF A VACUUM TRUCK OR SIMILAR DEVICE.

FERTILIZERS, HERBICIDES AND PESTICIDES

A. THE CONTRACTOR SHALL ENSURE THAT ALL FERTILIZERS, HERBICIDES, PESTICIDES AND SIMILAR PRODUCTS ARE PROPERLY STORED, OUT OF THE WEATHER, AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR SHALL ENSURE THAT THESE PRODUCTS ARE USED IN SUCH A MANNER THAT WILL NOT NEGATIVELY IMPACT STORMWATER, GROUNDWATER OR PROTECTED SPECIES.

B. NUTRIENTS SHALL BE APPLIED ONLY AT RATES NECESSARY TO ESTABLISH AND MAINTAIN VEGETATION.

INSPECTIONS AND MAINTENANCE

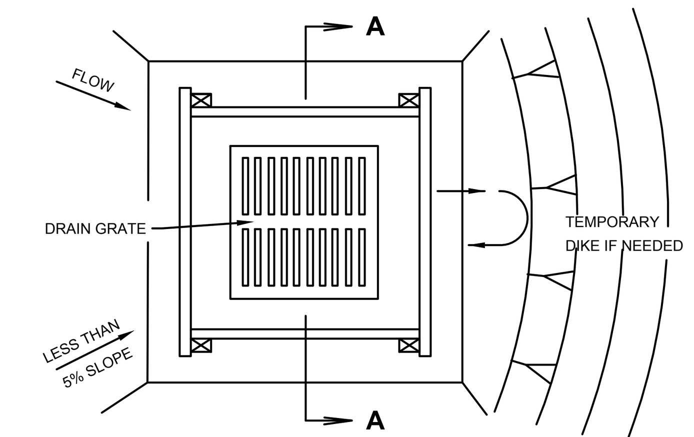
A. THE CONTRACTOR SHALL INSPECT BMPS (I.E. DISCHARGE LOCATIONS, CONSTRUCTION EXIT, PERIMETER CONTROLS, INLET PROTECTION, STABILIZATION, EROSION CONTROL, DOCUMENTATION, WASTE DISPOSAL AREAS, MATERIAL STORAGE AREAS, ETC.) TO ENSURE THAT BMPS ARE NOT CAUSING OR CONTRIBUTION TO VIOLATIONS OF WATER QUALITY STANDARDS OR RESULTING IN OFFSITE SEDIMENTATION; ENSURE THAT BMPS ARE INSTALLED, MAINTAINED AND OPERATING CORRECTLY AND EFFECTIVELY; ENSURE THAT BMPS ASSOCIATED WITH STORAGE AND WASTE DISPOSAL AREAS ARE BEING USED AND MAINTAINED PROPERLY; ENSURE THAT THE CONSTRUCTION EXIT IS FUNCTION PROPERLY TO PREVENT OFFSITE TRACKING OF SEDIMENT; ENSURE THAT EROSION PREVENTION MEASURES ARE MAINTAINED TO PREVENT VISIBLE EROSION OF DISTURBED AREAS AND SEDIMENTATION AT THE DISCHARGE POINTS; AND DETERMINE IF CONSTRUCTION ACTIVITIES HAVE ALTERED THE EFFECTIVENESS OF BMPS. INSPECTIONS MUST BE COMPLETED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS, AND WITHIN 24 HOURS AFTER A RAINSTORM OF 0.50 INCHES OR GREATER EVEN IF IT RAINS ON THE WEEKEND OR A HOLIDAY.

B. THE CONTRACTOR SHALL REPORT ALL INSPECTION FINDINGS AND CORRECTIVE ACTIONS TAKEN AS A RESULT OF THE INSPECTION USING THE STORMWATER POLLUTION PREVENTION PLAN INSPECTION REPORT FORM PROVIDED BY FDEP OR AN EQUIVALENT FORM. INSPECTION REPORTS SHALL BE SIGNED BY THE INSPECTOR AND A RESPONSIBLE AUTHORITY AS DEFINED BY THE PERMIT. INSPECTION REPORTS SHALL BE MAINTAINED WITH THE SWPPP. THE INSPECTOR MUST BE A QUALIFIED EROSION AND SEDIMENT CONTROL INSPECTOR AS DEFINED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

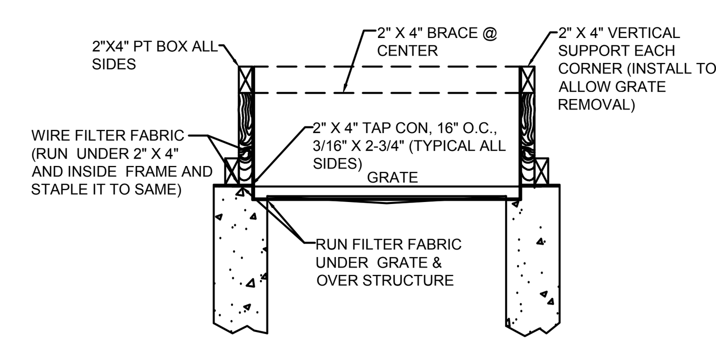
C. ANY MAINTENANCE, REPAIR AND NECESSARY REVISIONS TO BMP ITEMS SHALL BE ADDRESSED IN A TIMELY MANNER, BUT IN NO CASE LATER THAN 7 CALENDAR DAYS FOLLOWING THE INSPECTION OR IDENTIFICATION OF THE ISSUE. UNLESS OTHERWISE SPECIFIED, ACCUMULATED SEDIMENTS SHOULD BE REMOVED BEFORE THEY REACH ONE-HALF OF THE CAPACITY OF THE CONTROL DEVICE.

ALLOWABLE NON-STORMWATER DISCHARGES

THE GENERIC PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES PROHIBIT MOST NON-STORMWATER DISCHARGES DURING THE CONSTRUCTION PHASE. CERTAIN DISCHARGES ARE ALLOWED BY THE PERMIT, PROVIDED APPROPRIATE BMP'S ARE UTILIZED AND THE DISCHARGE DOES NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF WATER QUALITY STANDARDS. ALLOWABLE NON-STORMWATER DISCHARGES THAT OCCUR DURING CONSTRUCTION ON THIS PROJECT PER PART 3.2 OF THE GENERIC PERMIT ARE:
- DISCHARGES FROM FIRE FIGHTING ACTIVITIES.
- FIRE HYDRANT FLUSHINGS.
- WATERS WITHOUT DETERGENTS USED TO SPRAY OFF LOOSE SOLIDS FROM VEHICLES.
- WATERS USED TO CONTROL DUST.
- POTABLE WATER SOURCES SUCH AS WATERLINE FLUSHINGS.
- LANDSCAPE IRRIGATION AND DRAINAGE.
- ROUTINE EXTERNAL BUILDING WASHDOWN PROVIDED NO DETERGENTS ARE USED.
- PAVEMENT WASHWATERS THAT DO NOT CONTAIN DETERGENTS, LEAKS, SPILLS OF TOXIC OR HAZARDOUS MATERIALS.
- AIR CONDITIONING CONDENSATE.
- SPRING WATER.
- FOUNDATION OR FOOTING DRAIN FLOWS THAT ARE NOT CONTAMINATED WITH PROCESS MATERIAL SUCH AS SOLVENTS.
- NONCONTAMINATED GROUND WATER ASSOCIATED WITH DEWATERING ACTIVITIES AS DESCRIBED IN PART 3.4 OF THE GENERIC PERMIT.



PLAN VIEW



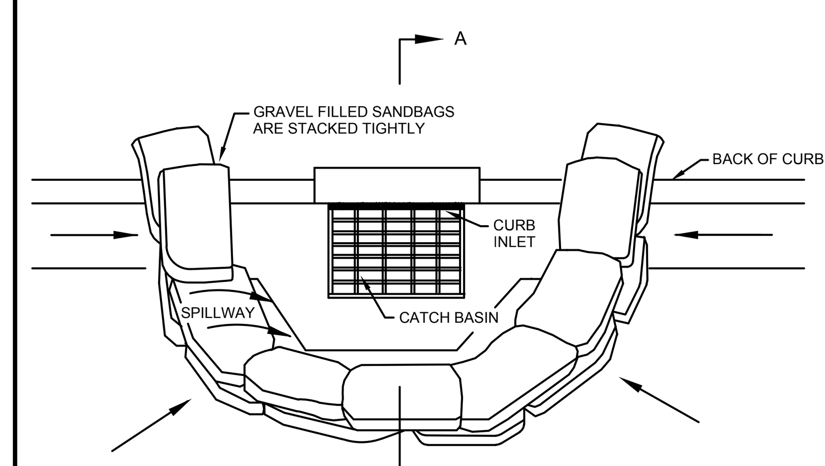
SECTION A - A

NOTES:
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%).
2. THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.
3. FASTEN FRAMING TO STRUCTURE TO ALLOW GRATE REMOVAL.
4. LEAVE EXPOSED EDGE TO ALLOW FOR PAVING TO GRADE

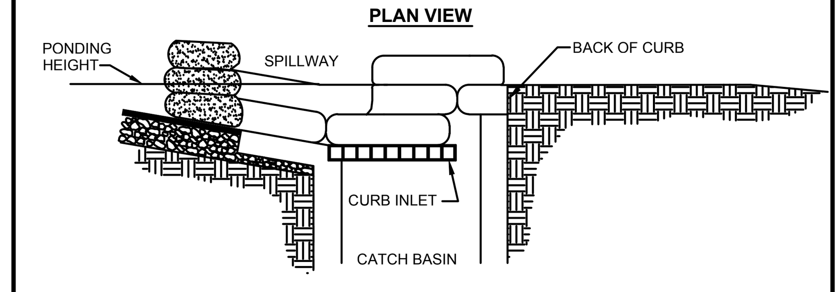
FILTER FABRIC INLET PROTECTION DETAIL

N.T.S.

NOTE:
AVOID USING IN TRAFFIC AREAS AS THIS CAN CAUSE A HAZARD.



PLAN VIEW



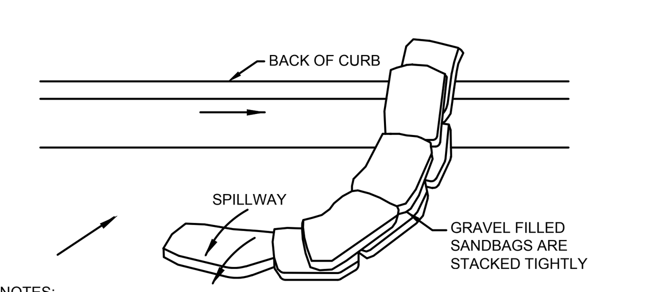
SECTION A-A

NOTES:
1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. SANDBAGS OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
3. LEAVE ONE SANDBAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY FOR OVERFLOW.
4. INSPECT BARRIERS AND REMOVE SEDIMENT AS NECESSARY. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

CURB INLET PROTECTION DETAIL

N.T.S.

NOTE:
AVOID USING IN TRAFFIC AREAS AS THIS CAN CAUSE A HAZARD.



NOTES:
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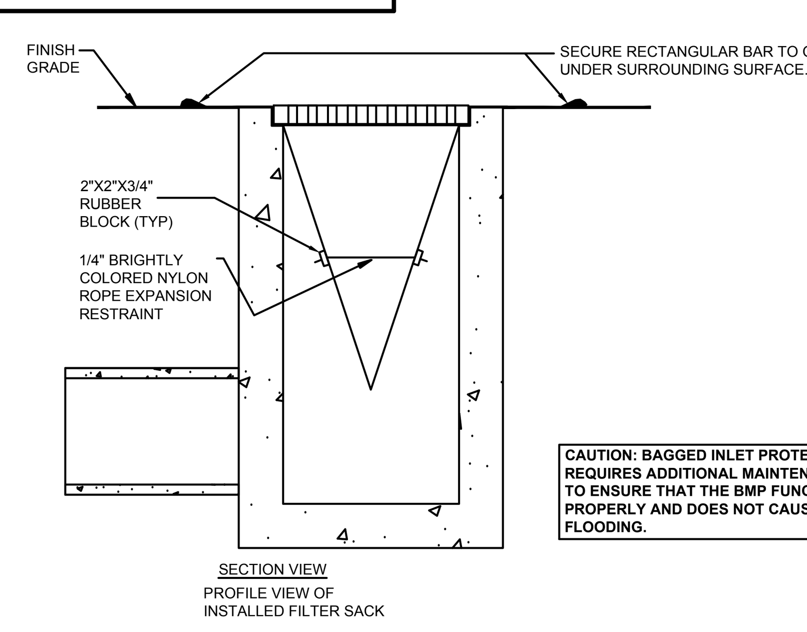
2. SANDBAGS OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
3. TAPER TO ONE SANDBAG TO PROVIDE A SPILLWAY FOR OVERFLOW.
4. INSPECT BARRIERS AND REMOVE SEDIMENT AS NECESSARY. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

CURB LINE PROTECTION DETAIL

N.T.S.

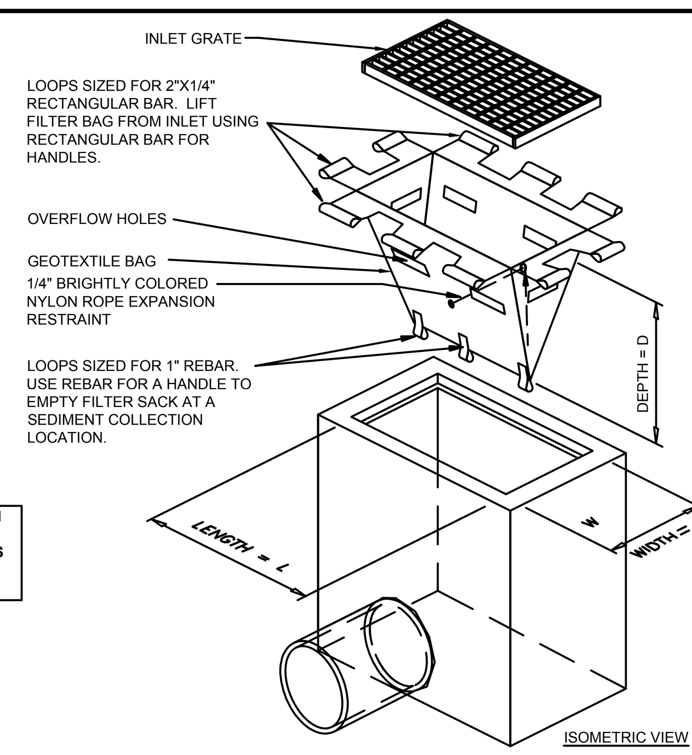
1. REMOVE TRAPPED SEDIMENT WHEN BRIGHTLY COLORED EXPANSION RESTRAINT CAN NO LONGER BE SEEN.
2. GEOTEXTILE SHALL BE A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS REQUIREMENTS IN THE SPECIFICATIONS TABLE.
3. PLACE AN OIL ADSORBENT PAD OR PILLOW OVER INLET GRATE WHEN OIL SPILLS ARE A CONCERN.
4. INSPECT PER REGULATORY EQUIREMENTS.
5. THE WIDTH, "W", OF THE FILTER SACK SHALL MATCH THE INSIDE WIDTH OF THE GRATED INLET BOX.
6. THE DEPTH, "D", OF THE FILTER SACK SHALL BE BETWEEN 18 INCHES AND 36 INCHES.
7. THE LENGTH, "L", OF THE FILTER SACK SHALL MATCH THE INSIDE LENGTH OF THE GRATED INLET BOX.
8. EXTRA CARE SHALL BE TAKEN TO ENSURE REGULAR MAINTENANCE OF FILTER SACKS USED IN RIGHT OF WAY TO ENSURE ADEQUATE DRAINAGE CAPACITY.

LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC -1
MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC -1



SECTION VIEW
PROFILE VIEW OF INSTALLED FILTER SACK

CAUTION: BAGGED INLET PROTECTION REQUIRES ADDITIONAL MAINTENANCE TO ENSURE THAT THE BMP FUNCTIONS PROPERLY AND DOES NOT CAUSE FLOODING.



ISOMETRIC VIEW

GEOTEXTILE BAG INLET PROTECTION DETAIL

N.T.S.

CONTRACTOR / SUBCONTRACTOR CERTIFICATION TABLE

THIS SWPPP MUST CLEARLY IDENTIFY, FOR EACH MEASURE IDENTIFIED WITHIN THE SWPPP, THE CONTRACTOR(S) OR SUBCONTRACTOR(S) WHO WILL IMPLEMENT EACH MEASURE. ALL CONTRACTOR(S) AND SUBCONTRACTOR(S) IDENTIFIED IN THE SWPPP MUST SIGN THE FOLLOWING CERTIFICATION:

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN."

Name / Signature	Title	Company Name, Address and Phone Number	Date

NOTE: CONTRACTOR TO ADD SHEETS TO CERTIFICATION TABLE AS NECESSARY.

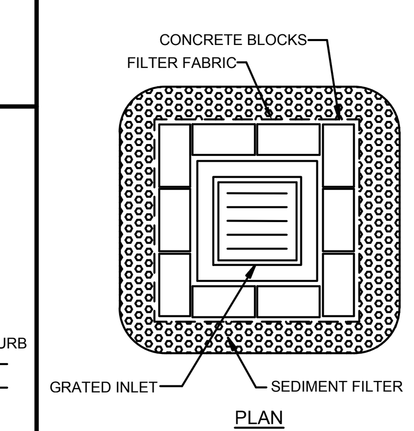
SWPPP IMPLEMENTATION LOG

A RECORD OF DATES WHEN BMPs ARE INSTALLED OR REMOVED, STABILIZATION MEASURES ARE INITIATED, MAJOR GRADING ACTIVITIES OCCUR, AND CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON PORTIONS OF THE SITE. THIS FORM MUST BE UPDATED CONTINUOUSLY THROUGHOUT THE PROJECT UNTIL THE NOTICE OF TERMINATION (NOT) IS FILED.

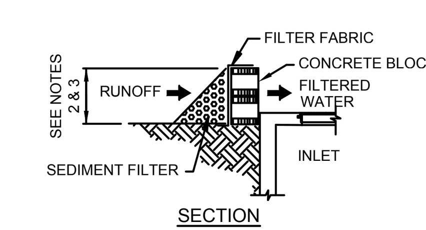
DESCRIPTION OF ACTIVITY	LOCATION	CONTRACTOR	BEGIN DATE	END DATE

NOTE: CONTRACTOR TO ADD SHEETS TO THE SWPPP IMPLEMENTATION LOG AS NECESSARY.

NOTE:
AVOID USING IN TRAFFIC AREAS AS THIS CAN CAUSE A HAZARD.



PLAN

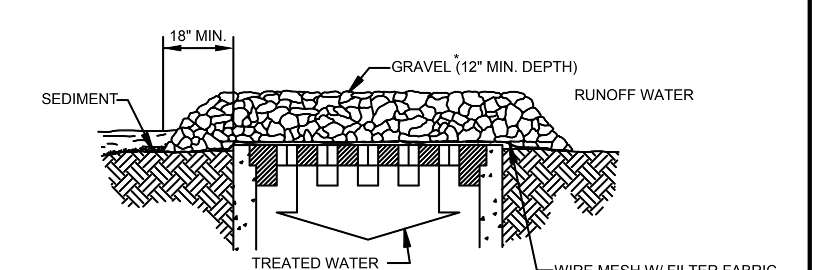


SECTION

1. PLACE CONCRETE BLOCKS IN A SINGLE ROW AROUND PERIMETER OF INLET ON THEIR SIDES, WITH ENDS OF ADJACENT BLOCKS ABUTTING.
2. HEIGHT OF BARRIER VARIES. USE STACKS OF 4-INCH, 8-INCH, OR 12" BLOCKS. MIN.
3. HEIGHT OF BARRIER 12" AND MAX. HEIGHT OF 24" PLACE FILTER FABRIC OVER VERTICAL FACE OF CONCRETE BLOCKS.
4. THE SEDIMENT FILTER SHALL BE ANY NON-ERODIBLE MATERIAL SUCH AS LOOSE ROCK, BROKEN CONCRETE THAT WILL SLOW THE FLOW OF THE WATER AND ALLOW IT TO FILTER THROUGH AND OVER THE MATERIAL BEFORE ENTERING THE INLET.

BLOCK AND AGGREGATE INLET SEDIMENT FILTER

N.T.S.



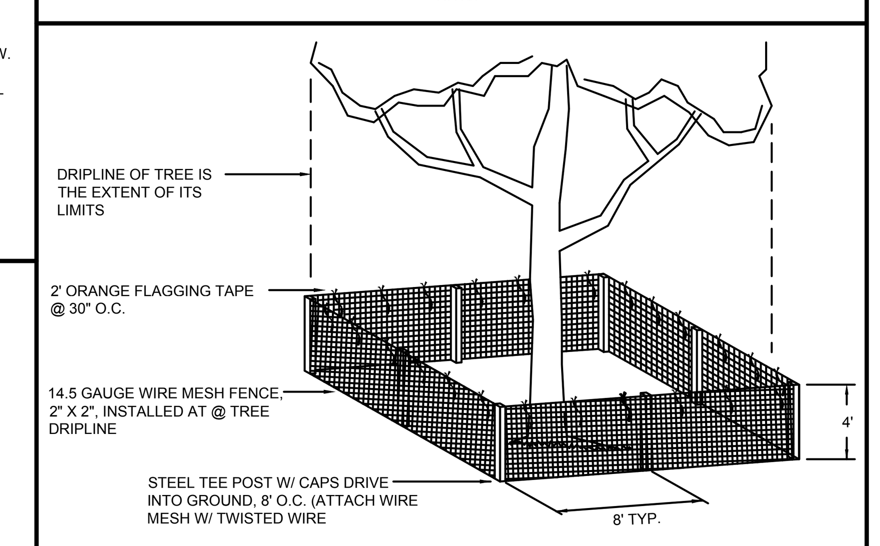
SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED ACRES.

* GRAVEL SHALL BE 2"-3" CLEAN STONE

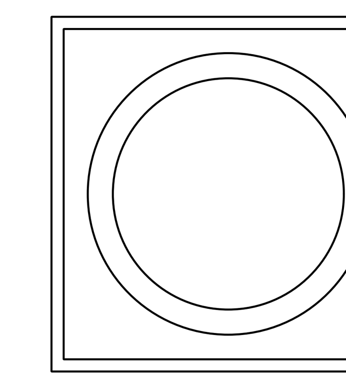
GRAVEL & WIRE MESH INLET SEDIMENT FILTER

N.T.S.

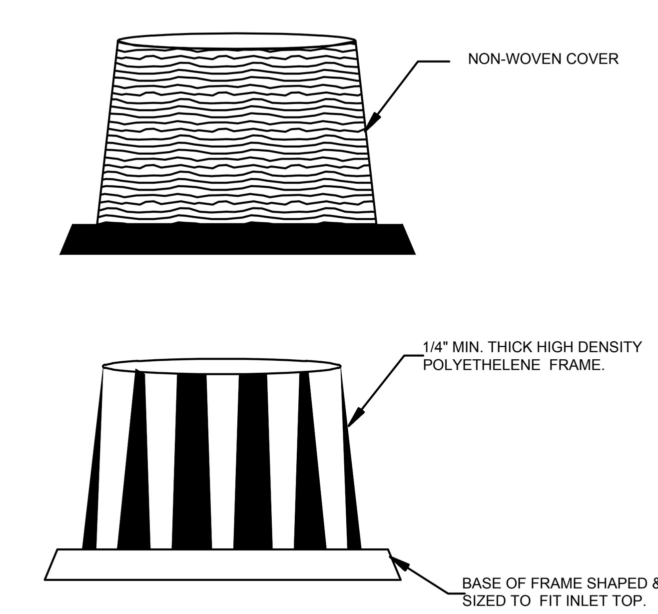


TREE PROTECTION DETAIL

N.T.S.



TOP VIEW



SIDE VIEW

TYPICAL CONSTRUCTION SEQUENCE FOR DOME FRAME & COVER

1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.
2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
3. SLIDE THE COVER OVER THE FRAME.
4. FILL THE COVER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE COVER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.
5. BACK FILL AROUND THE FRAME AND COVER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACKFILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.

DOMED INLET PROTECTION (PREFABRICATED)

N.T.S.

CONSTRUCTION SEQUENCING TABLE									
ANTICIPATED CONSTRUCTION SEQUENCE*	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
CONSTRUCTION ENTRANCE									
TEMPORARY CONTROL MEASURES									
STORM FACILITIES									
ROUGH GRADE / SEDIMENT CONTROL									
FOUNDATION / BUILDING CONSTRUCTION									
SITE CONSTRUCTION									
FINISH GRADING									
PERMANENT CONTROL MEASURES									
* THIS IS ONLY A GUIDE, CONTRACTOR IS TO USE HIS JUDGMENT TO MODIFY AS NEEDED.									

Stormwater Team

Description	Name	Company
Contractor:		
Contractor's Responsible Authority:		
Qualified Inspector(s):		
Maintenance Personnel:		

The contractor shall complete this table identifying the individuals of the stormwater team and their responsibilities.

cph
www.cphcorp.com
A Full Service A & E Firm
Plans Prepared By:
CPH, Inc.
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Sarasota, FL 34237
Ph: 941.365.4771
Licenses:
Eng. C.O.A. No. 3215
Survey L.B. No. 7143
Arch. Lic. No. AA2600926
Lndscp. Lic. No. LC0000298

DANIEL P. MOYER ★ LICENSE No. 69057 ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER

No.	Date	Revision
1	4/20/17	RESUBMIT TO THE CITY OF VENICE
2	5/05/17	RESUBMIT TO THE CITY OF VENICE
3		
4		
5		
6		
7		

Designed: K. Upp
Drawn: K. Upp
Checked: D. Moyer
Scale: As Noted
Job No.: S29701
Date: 12/16

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STORMWATER POLLUTION PREVENTION PLAN

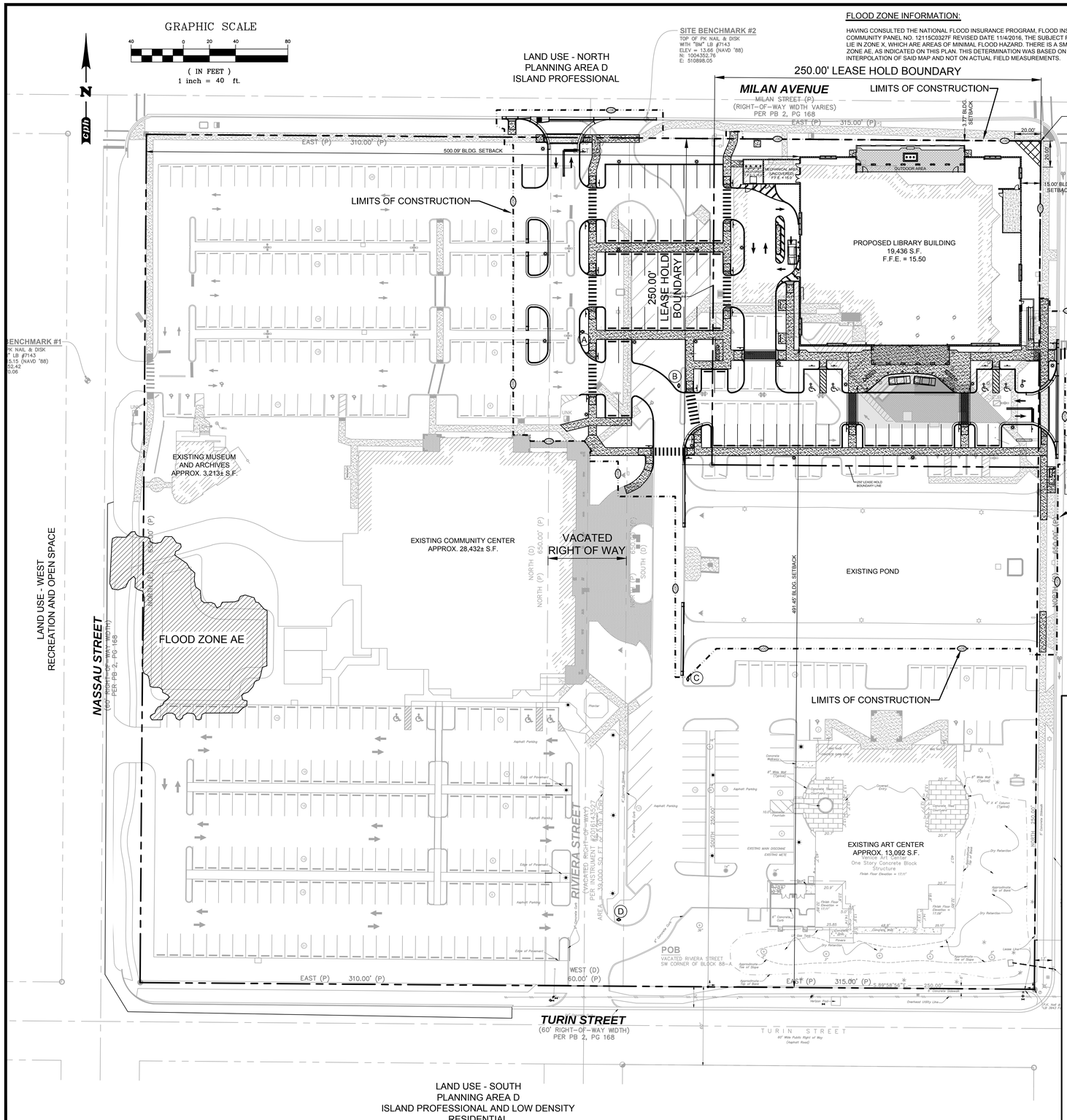
SARASOTA COUNTY - VENICE LIBRARY

CITY OF VENICE / SARASOTA COUNTY / FLORIDA

Sheet No.

C1.2

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND.



FLOOD ZONE INFORMATION:

HAVING CONSULTED THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NO. 12115C0327F REVISED DATE 11/4/2016, THE SUBJECT PROPERTY APPEARS TO LIE IN ZONE X, WHICH ARE AREAS OF MINIMAL FLOOD HAZARD. THERE IS A SMALL PORTION OF FLOOD ZONE AE, AS INDICATED ON THIS PLAN. THIS DETERMINATION WAS BASED ON A GRAPHIC INTERPOLATION OF SAID MAP AND NOT ON ACTUAL FIELD MEASUREMENTS.

SITE DATA INFORMATION:

SITE PARCEL NUMBERS:

0408130012	300 NOKOMIS AVE.	62,500 S.F.	(1.43 A.C.)
0408130011	390 NOKOMIS AVE.	142,250 S.F.	(3.26 A.C.)
0408130009	326 NOKOMIS AVE.	201,500 S.F.	(4.63 A.C.)
VACATED ROW	N / A	39,000 S.F.	(0.90 A.C.)
TOTAL		445,250 S.F.	(10.22 A.C.)

SECTION - 7 / TOWNSHIP - 39S / RANGE - 19E

ON-SITE LAND INFORMATION:

CURRENT LAND USE:	PLANNING AREA - ISLAND PROFESSIONAL
PROPOSED LAND USE:	PLANNING AREA - ISLAND PROFESSIONAL
CURRENT ZONING:	GU - GOVERNMENT USE
PROPOSED ZONING:	GU - GOVERNMENT USE
AREA OF PROPOSED IMPROVEMENTS:	162,222 S.F. (3.72 A.C.)
DEVELOPMENT TYPE:	LIBRARY

ADJACENT LAND INFORMATION:

LAND USE - NORTH: PLANNING AREA D / ISLAND PROFESSIONAL

LAND USE - EAST: PLANNING AREA D / ISLAND PROFESSIONAL

LAND USE - WEST: RECREATION AND OPEN SPACE

LAND USE - SOUTH: PLANNING AREA D / ISLAND PROFESSIONAL AND LOW DENSITY RESIDENTIAL

BUILDING INFORMATION:

BUILDING AREA:	19,436 S.F.
BUILDING USE:	LIBRARY
MAXIMUM BUILDING HEIGHT (CITY COMPREHENSIVE PLAN):	42'-0"
ACTUAL BUILDING HEIGHT (ONE STORY);	30'-0"

PERVIOUS / IMPERVIOUS (OVERALL SITE):

PRE DEVELOPMENT:			
PERVIOUS AREA:	147,739 S.F.	(3.39 A.C.)	(33.2%)
IMPERVIOUS AREA:	297,511 S.F.	(6.83 A.C.)	(66.8%)
TOTAL SITE AREA:	445,250 S.F.	(10.22 A.C.)	(100.0%)
POST DEVELOPMENT:			
PERVIOUS AREA:	149,136 S.F.	(3.42 A.C.)	(33.5%)
IMPERVIOUS AREA:	296,114 S.F.	(6.80 A.C.)	(66.5%)
TOTAL SITE AREA:	445,250 S.F.	(10.22 A.C.)	(100.0%)

PARKING INFORMATION:

EXISTING PARKING = 441 SPACES

PARKING REQUIRED:

LIBRARIES, COMMUNITY CENTERS AND RECREATIONAL FACILITIES:
ONE SPACE FOR EVERY 200 SQUARE FEET OF NON-STORAGE FLOOR AREA, OR ONE SPACE FOR EVERY THREE SEATS, WHICHEVER IS GREATER.
19,436 S.F. / 200 = 98
384 SEATS / 3 = 128

BUILDING	BLDG. S.F.	PKNG SPACES REQ'D
PROPOSED LIBRARY:	384 SEATS / 3=	128
EXIST. ART CENTER:	*13,092 S.F. / 200=	66
EXIST. COMMUNITY CENTER:	*28,432 S.F. / 200=	143
EXIST. MUSEUM AND ARCHIVES:	*3,213 S.F. / 200=	17
TOTAL PARKING SPACES REQ'D:		354

*NOTE: AREAS BASED ON PROPERTY APPRAISER INFORMATION

PARKING SPACES PROVIDED = 441 (INC. 15 ADA SPACES)

BLDG. SETBACKS AND LANDSCAPE BUFFERS:

BLDG. SETBACKS (LIBRARY):

	NORTH (SIDE)	SOUTH (SIDE)	EAST (FRONT)	WEST (REAR)
REQUIRED:	0'	0'	0'	0'
PROVIDED:	3.77'	491.45'	15.00'	500.09'

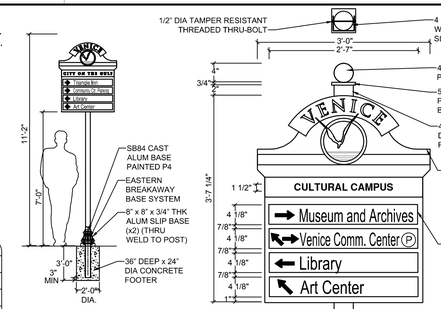
LANDSCAPE BUFFERS:

	NORTH (SIDE)	SOUTH (SIDE)	EAST (FRONT)	WEST (REAR)
REQUIRED:	5'	N / A	5'	N / A
PROVIDED :	TBD'	N / A	TBD'	N / A

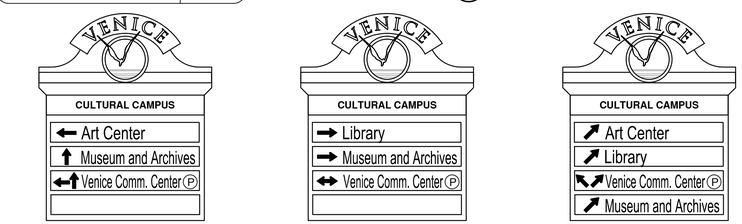
NOTES:

1. DESIGN WIND PRESSURE IN CONFORMANCE WITH FBC - 2010. SEE CHART FOR DESIGN CRITERIA PER ASCE 7-10.
2. SOIL SHALL BE CLEAN SAND WITH A MINIMUM ALLOWABLE BRNG PRESSURE OF 2000PSF AND A MINIMUM ALLOWABLE LATERAL PASSIVE PRESSURE (FOR ISOLATED POLES) OF 600 PSF/FT
3. CONCRETE: SHALL BE 3000 PSI @ 28 DAYS.
4. REINFORCING STEEL: SHALL BE GRADE 60.
5. STRUCTURAL PIPE: 35 K.S.I.
   EXTRUDED: ASTM A53
   ALUMINUM SHALL BE 6063 T5
6. ALL WELDING SHALL BE IN CONFORMANCE WITH AWS D1.1 (LATEST EDITION) USING E70XX ELECTRODES. ALL WELDS SHALL BE FULL PENETRATION WELDS AT ALL POINTS OF CONTACT UNLESS NOTED OTHERWISE.
7. SUBMIT SHOP DRAWINGS OF STRUCTURAL STEEL FOR APPROVAL PRIOR TO FABRICATION.
8. SIGN COLORS SHALL CONFORM TO EXISTING ON-SITE SIGN COLORS AND SHALL BE APPROVED BY OWNER UPON FINAL DESIGN - PRIOR TO INSTALLATION.

WIND DESIGN CRITERIA CHART		
WIND VELOCITY	150MPH	
RISK CATEGORY	I (1)	
EXPOSURE CATEGORY (MMRF)	C	
INTERNAL PRESSURE COEFFICIENT	+0	-0
COMPONENT AND CLADDING PRESSURES	38.3 PSF	
FORCE COEFFICIENT c f	1.5	



A SIGN TYPE D- Pedestrian Directional
SCALE: N.T.S.



B SIGN TYPE D- Pedestrian Directional
SCALE: N.T.S.

C SIGN TYPE D- Pedestrian Directional
SCALE: N.T.S.

D SIGN TYPE D- Pedestrian Directional
SCALE: N.T.S.

WAY-FINDING SIGNAGE

N.T.S.

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Survey L.B. No. 7143
Arch. Lic. No. AA2600926
Lndscp. Lic. No. LC0000298

DANIEL P. MOYER LICENSE No. 69057 STATE OF FLORIDA PROFESSIONAL ENGINEER

No.	Date	Revision
1	5/19/17	RESUBMIT TO THE CITY OF VENICE
2	5/05/17	RESUBMIT TO THE CITY OF VENICE
3	4/20/17	RESUBMIT TO THE CITY OF VENICE

Designed: K. Upp
Drawn: K. Upp
Checked: D. Moyer
Scale: As Noted
Job No.: S29701
Date: 12/16

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OVERALL SITE PLAN

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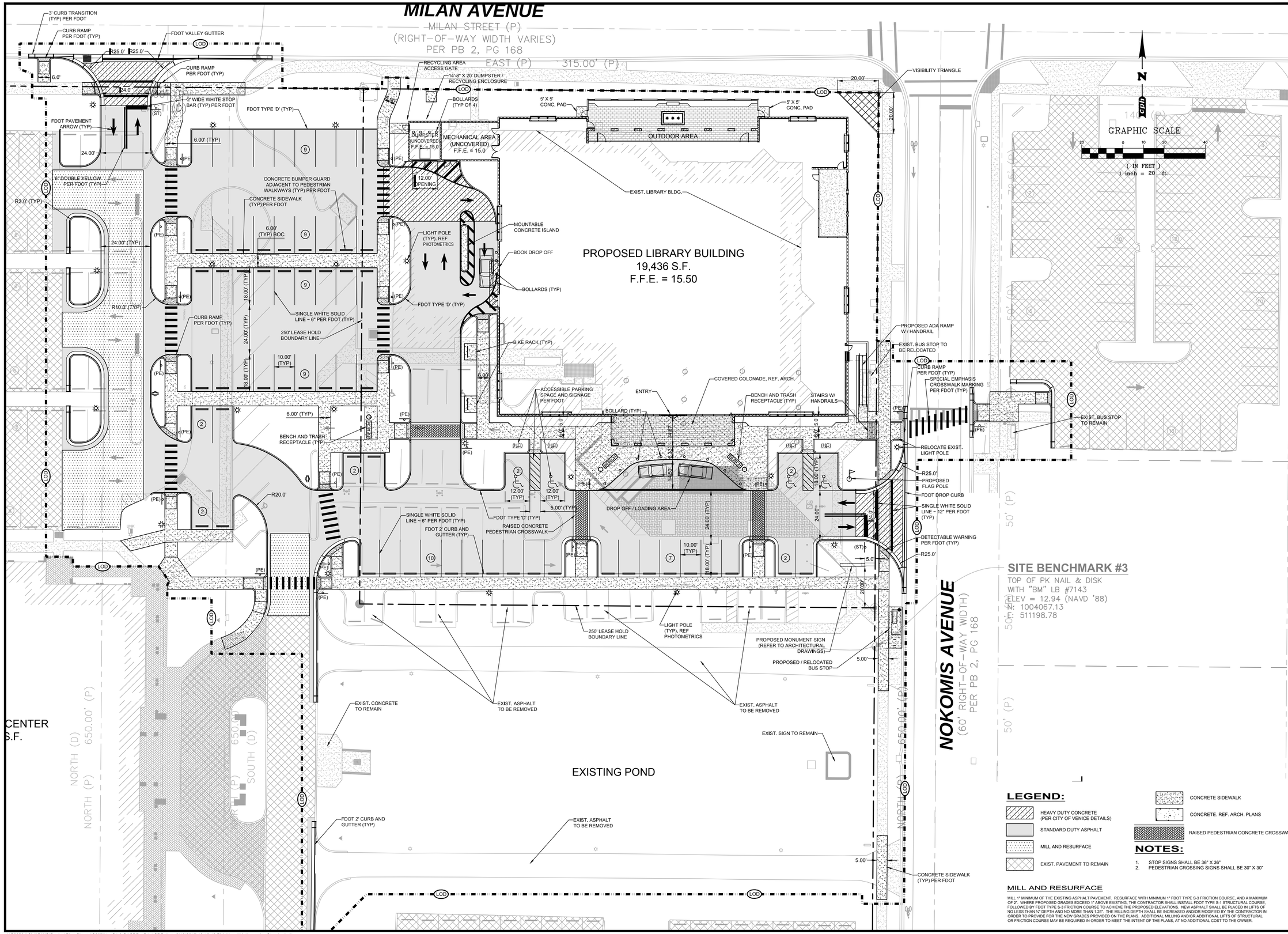

LEGEND:

- HEAVY DUTY CONCRETE (PER CITY OF VENICE DETAILS)
- STANDARD DUTY ASPHALT
- MILL AND RESURFACE
- EXIST. PAVEMENT TO REMAIN
- CONCRETE SIDEWALK
- CONCRETE. REF. ARCH. PLANS
- RAISED PEDESTRIAN CONCRETE CROSSWALK

NOTES:

1. STOP SIGNS SHALL BE 36" X 36"
2. PEDESTRIAN CROSSING SIGNS SHALL BE 30" X 30"

MILL AND RESURFACE

MILL 1" MINIMUM OF THE EXISTING ASPHALT PAVEMENT. RESURFACE WITH MINIMUM 1" FDOT TYPE S-3 FRICTION COURSE, AND A MAXIMUM OF 2". WHERE PROPOSED GRADES EXCEED 1" ABOVE EXISTING, THE CONTRACTOR SHALL INSTALL FDOT TYPE S-1 STRUCTURAL COURSE, FOLLOWED BY FDOT TYPE S-3 FRICTION COURSE TO ACHIEVE THE PROPOSED ELEVATIONS. NEW ASPHALT SHALL BE PLACED IN LIFTS OF NO LESS THAN ½" DEPTH AND NO MORE THAN 1.25". THE MILLING DEPTH SHALL BE INCREASED AND/OR MODIFIED BY THE CONTRACTOR IN ORDER TO PROVIDE FOR THE NEW GRADES PROVIDED ON THE PLANS. ADDITIONAL MILLING AND/OR ADDITIONAL LIFTS OF STRUCTURAL OR FRICTION COURSE MAY BE REQUIRED IN ORDER TO MEET THE INTENT OF THE PLANS, AT NO ADDITIONAL COST TO THE OWNER.

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DANIEL P. MOYER LICENSE No. 69057 STATE OF FLORIDA PROFESSIONAL ENGINEER

No.	Date	Revision
4	5/19/17	RESUBMIT TO THE CITY OF VENICE
3	5/05/17	RESUBMIT TO THE CITY OF VENICE
2	4/20/17	RESUBMIT TO THE CITY OF VENICE
1		

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Drawn: K. Upp
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SITE DIMENSION PLAN

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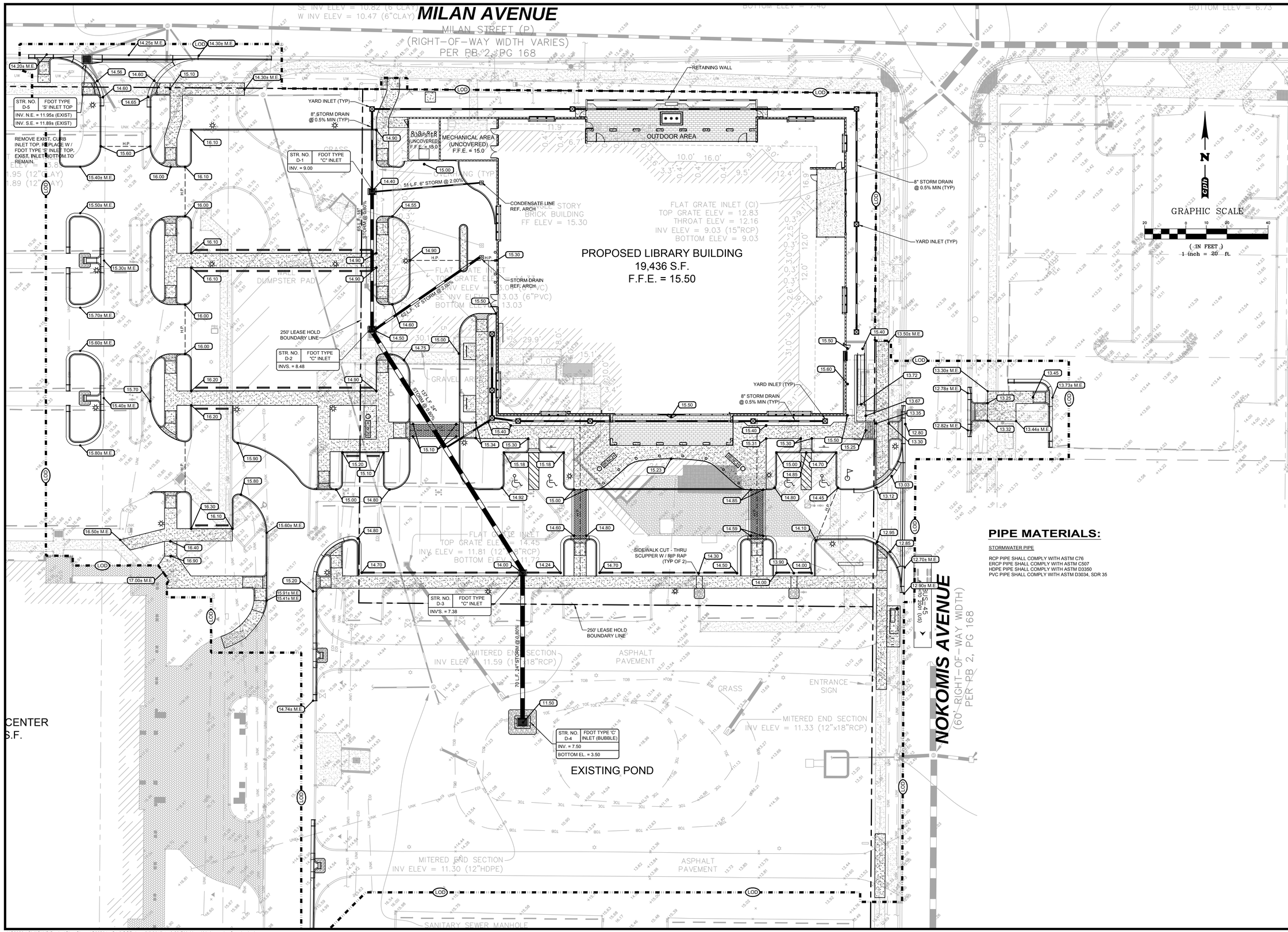

PIPE MATERIALS:

STORMWATER PIPE

RCP PIPE SHALL COMPLY WITH ASTM C76
ERCP PIPE SHALL COMPLY WITH ASTM C507
HDPE PIPE SHALL COMPLY WITH ASTM D3350
PVC PIPE SHALL COMPLY WITH ASTM D3034, SDR 35

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GRADING AND STORM DRAINAGE PLAN

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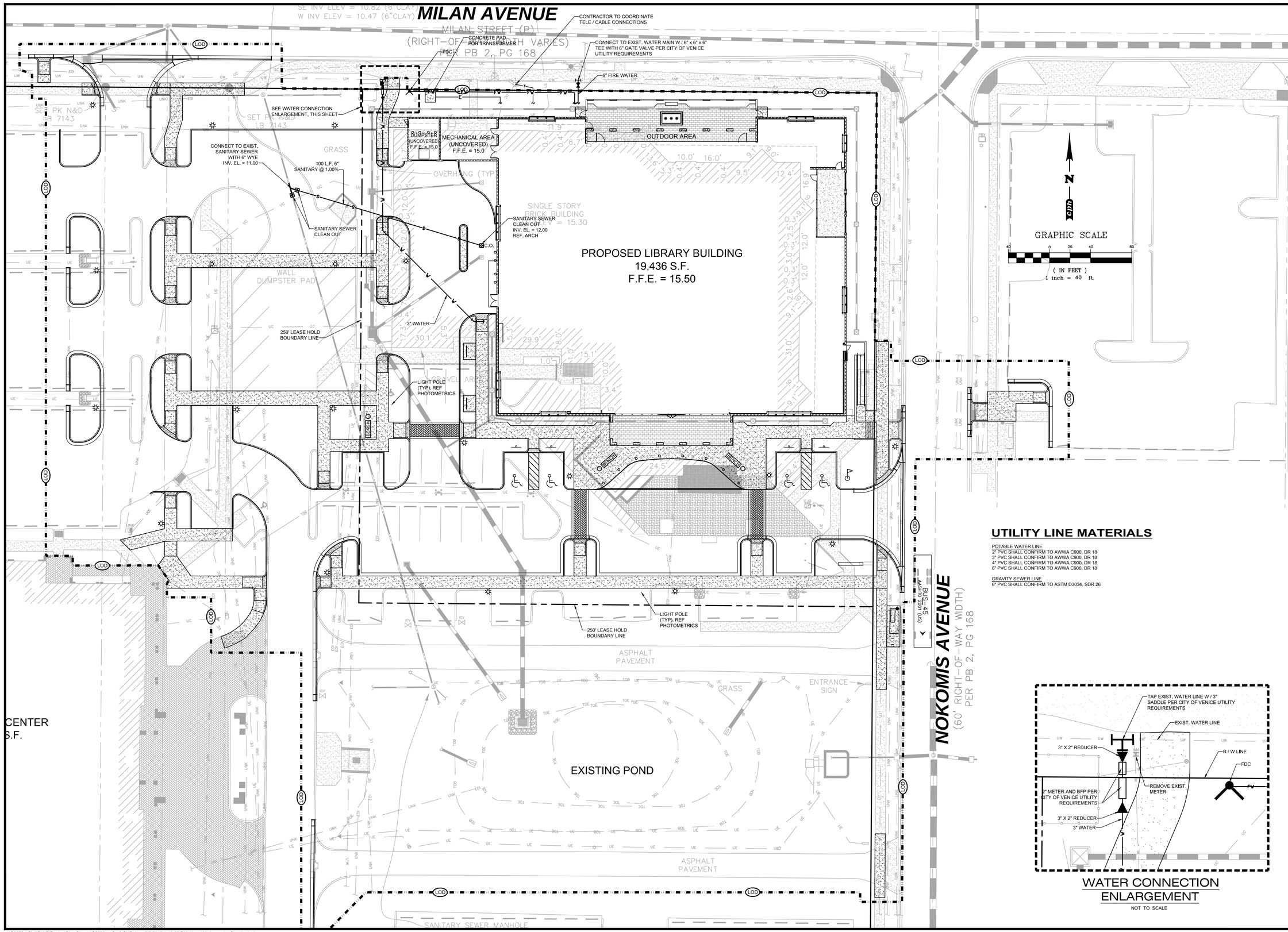

UTILITY LINE MATERIALS

POTABLE WATER LINE
2" PVC SHALL CONFIRM TO AWWA C900, DR 18
3" PVC SHALL CONFIRM TO AWWA C900, DR 18
4" PVC SHALL CONFIRM TO AWWA C900, DR 18
6" PVC SHALL CONFIRM TO AWWA C900, DR 18

GRAVITY SEWER LINE
6" PVC SHALL CONFIRM TO ASTM D3034, SDR 26

WATER CONNECTION ENLARGEMENT

NOT TO SCALE

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5		
6		
7		

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COMPOSITE UTILITY PLAN

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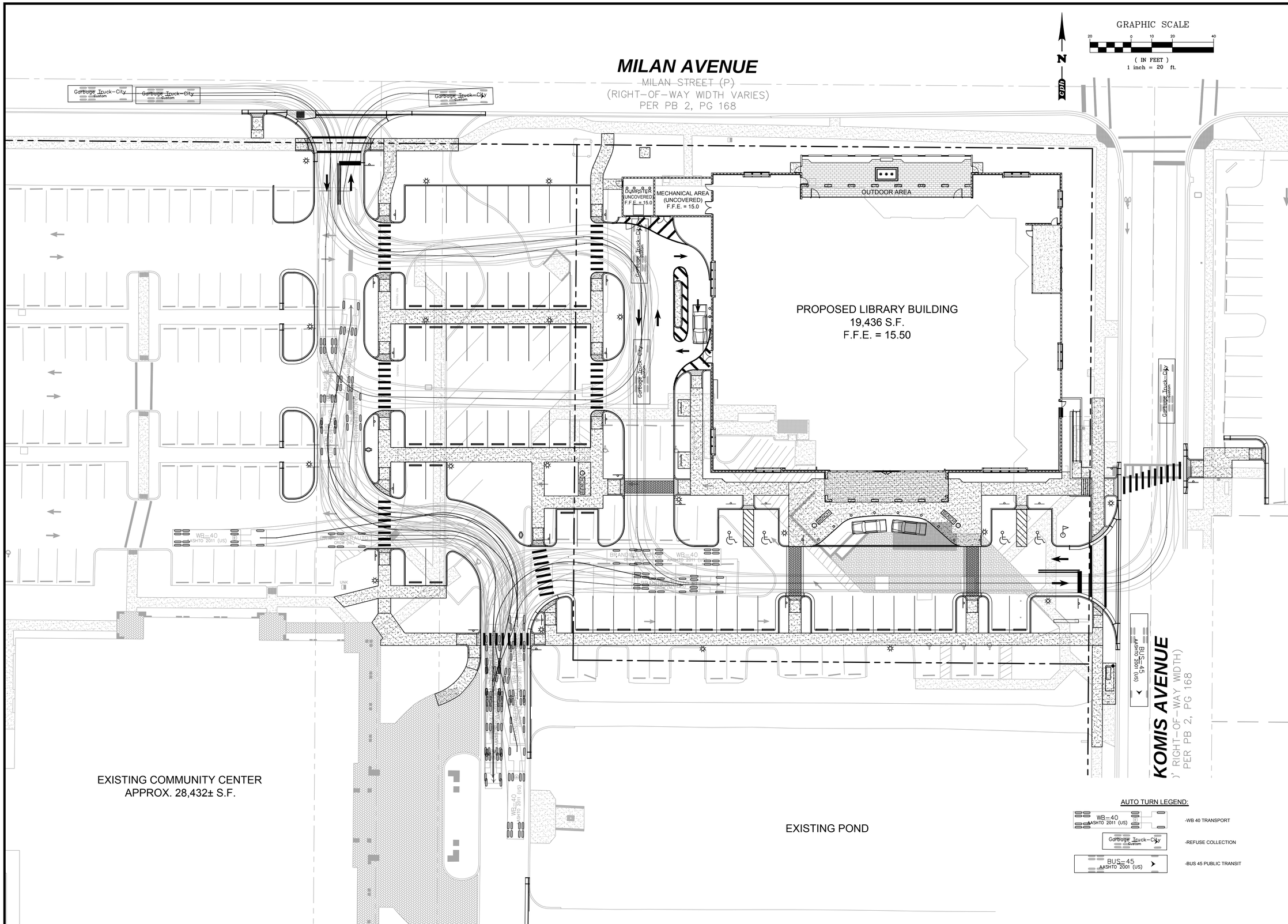

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No.	Date	Revision
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Drawn: K. Upp
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Job No.: S29701
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TRUCK TURNING MOVEMENT PLAN

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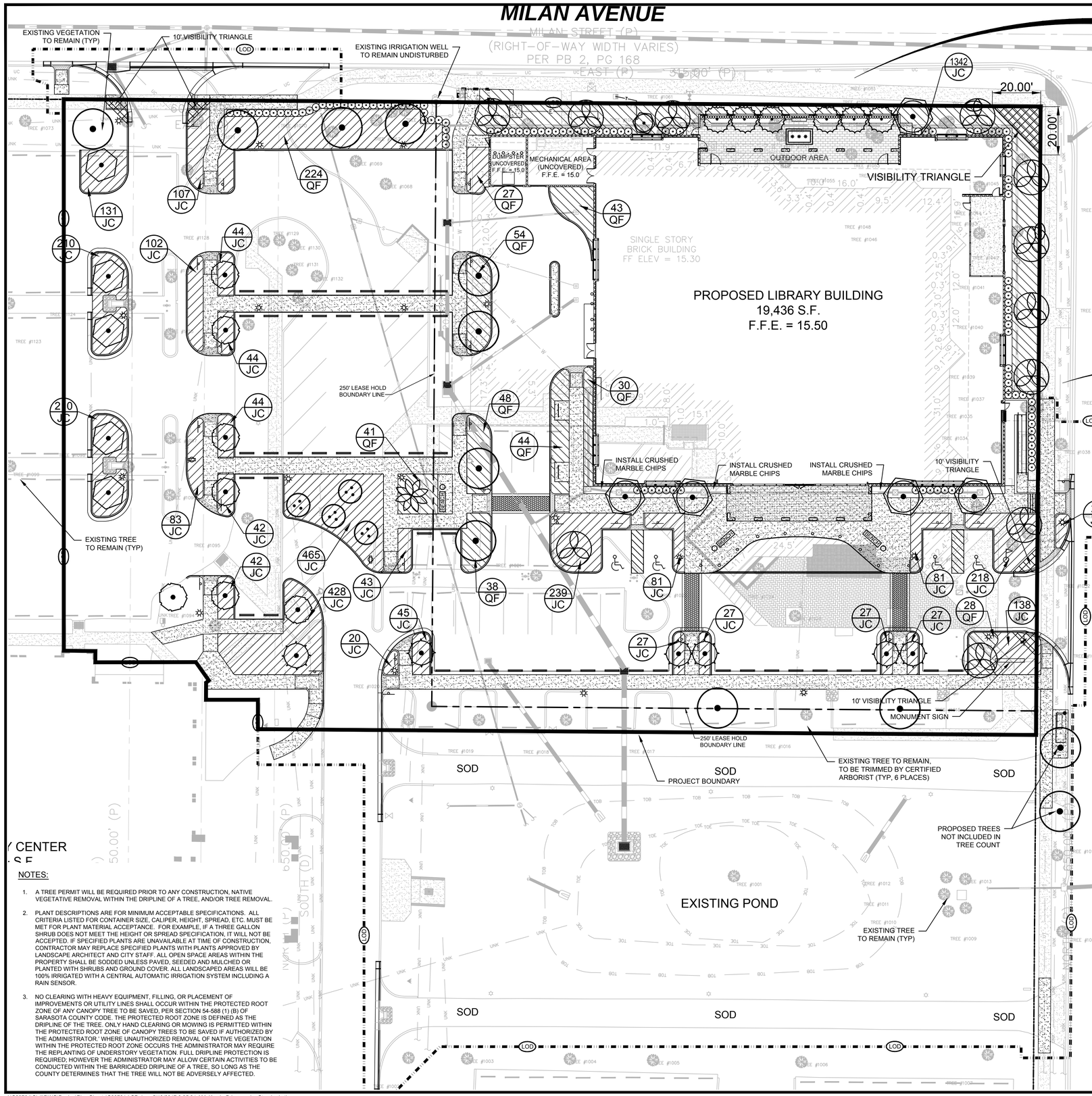


NORTH - 351 TOTAL LF OF LIMITS OF DISTURBANCE

STREET BUFFER DATA
PER CITY OF VENICE SEC. 86-436
MINIMUM WIDTH: 5'
PROPOSED WIDTH: 5'+
REQUIRED: 1 TREE/50 LF
+ CONTINUOUS 24"H HEDGE
351 / 50 = 7 TREES

PROPOSED: 7 TREES
+ CONTINUOUS 30"-36"H HEDGE
AT 15"-36" O.C. MAX.

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

N

PLANT LIST

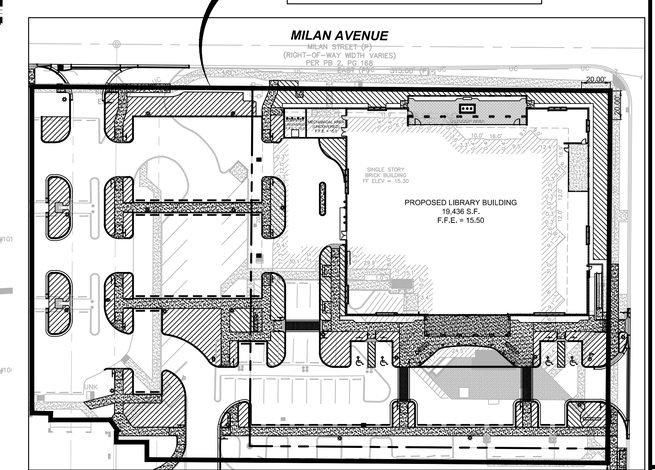
SYM.	COMMON NAME	BOTANICAL NAME	DESCRIPTION	QTY	TREE COUNT QTY.
TREES					
BN	DURA HEAT RIVER BIRCH	BETULA NIGRA DURA	100 GAL., 4" CAL., 10' MIN. HT., 6' SPRD	6	6
CE	GREEN BUTTONWOOD	CONOCARPUS ERECTUS	100 GAL., 3" CAL., 10' MIN. HT., 4' SPRD.	7	7
CS	ITALIAN CYPRESS	CUPRESSUS SEMPERVIRENS	100 GAL., 4" CAL., 14' MIN. HT., 4' SPRD	*6	0
CU	SEA GRAPE	COCCOLOBA UVIFERA	100 GAL., 3" CAL., 10' MIN. HT., 4' SPRD.	4	4
PS	SYLVESTER DATE PALM	PHOENIX SYLVESTRIS	8' CLEAR TRUNK	*1	0
QV	LIVE OAK	QUERCUSVIRGIANA	100 GAL., 4.5" CAL.,10' MIN. HT., 7' SPRD	12	10
MG	SOUTHERN MAGNOLIA	MAGNOLIA GRANDIFLORA	100 GAL., 3" CAL., 10' MIN. HT., 4' SPRD.	11	11
SP	CABBAGE PALM	SABAL PALMETTO	100 GAL., 3" CAL., 10' MIN. HT., 4' SPRD.	6	2
UPD	DRAKE ELM	ULMUS PARVIFOLIA 'DRAKE'	100 GAL., 3" CAL., 10' MIN. HT., 4' SPRD.	5	5
			*NOT INCLUDED IN SATISFYING TREE COUNT		46
HEDGE / ACCENT					
BS	AMERICAN BOXWOOD	BUXUS SEMPERVIRENS	5 GAL., 36" MIN HT., 18" SPR., 36" OC	124	
FP	CREEPING FIG	FICUS PUMILA	1 GAL., 30" MIN HT., 12" OC	84	
GROUNDCOVER					
QF	CROWN GRASS	PASPALUM QUDRIFARIUM	1 GAL., FULL, 30" OC	577	
JC	DWARF SHORE JUNIPER	JUNIPERUS CONFERTA 'DWARF SHORE'	1 GAL., 3" H X 8" SPR., 18" OC	4,293	

EAST - 220 TOTAL LF OF LIMITS OF DISTURBANCE

STREET BUFFER DATA
PER CITY OF VENICE SEC. 86-436
MINIMUM WIDTH: 5'
PROPOSED WIDTH: 5'+
REQUIRED: 1 TREE/50 LF
+ CONTINUOUS 24"H HEDGE
220 / 50 = 4.4 TREES

PROPOSED: 5 TREES
+ CONTINUOUS 36"H HEDGE
AT 3' O.C. MAX.

PROJECT AREA = 102,866 S.F. (2.36 AC.)
NUMBER OF TREES REQUIRED: 1 TREE / 2,000 S.F.
102,8666 S.F. / 2,000 = 51.4 TREES
NUMBER OF TREES PROPOSED: 46 TREES
EXISTING TREES TO REMAIN: 6 TREES
OVERALL NUMBER OF TREES: 52 TREES



INTERIOR LANDSCAPE DATA - CITY OF VENICE SEC. 86.438

	NTS
REQUIRED LANDSCAPE AREA (10 SF / PARKING SPACE)	660 SF (66 SPACES x 10 SF)
PROPOSED LANDSCAPE AREA	2500+ SF

LEGEND
- LANDSCAPED AREAS
- CONCRETE SIDEWALK

NOTES:

1. A TREE PERMIT WILL BE REQUIRED PRIOR TO ANY CONSTRUCTION, NATIVE VEGETATIVE REMOVAL WITHIN THE DRIPLINE OF A TREE, AND/OR TREE REMOVAL.
2. PLANT DESCRIPTIONS ARE FOR MINIMUM ACCEPTABLE SPECIFICATIONS. ALL CRITERIA LISTED FOR CONTAINER SIZE, CALIPER, HEIGHT, SPREAD, ETC. MUST BE MET FOR PLANT MATERIAL ACCEPTANCE. FOR EXAMPLE, IF A THREE GALLON SHRUB DOES NOT MEET THE HEIGHT OR SPREAD SPECIFICATION, IT WILL NOT BE ACCEPTED. IF SPECIFIED PLANTS ARE UNAVAILABLE AT TIME OF CONSTRUCTION, CONTRACTOR MAY REPLACE SPECIFIED PLANTS WITH PLANTS APPROVED BY LANDSCAPE ARCHITECT AND CITY STAFF. ALL OPEN SPACE AREAS WITHIN THE PROPERTY SHALL BE SODDED UNLESS PAVED, SEEDED AND MULCHED OR PLANTED WITH SHRUBS AND GROUND COVER. ALL LANDSCAPED AREAS WILL BE 100% IRRIGATED WITH A CENTRAL AUTOMATIC IRRIGATION SYSTEM INCLUDING A RAIN SENSOR.
3. NO CLEARING WITH HEAVY EQUIPMENT, FILLING, OR PLACEMENT OF IMPROVEMENTS OR UTILITY LINES SHALL OCCUR WITHIN THE PROTECTED ROOT ZONE OF ANY CANOPY TREE TO BE SAVED, PER SECTION 54-588 (1) (B) OF SARASOTA COUNTY CODE. THE PROTECTED ROOT ZONE IS DEFINED AS THE DRIPLINE OF THE TREE. ONLY HAND CLEARING OR MOWING IS PERMITTED WITHIN THE PROTECTED ROOT ZONE OF CANOPY TREES TO BE SAVED IF AUTHORIZED BY THE ADMINISTRATOR.' WHERE UNAUTHORIZED REMOVAL OF NATIVE VEGETATION WITHIN THE PROTECTED ROOT ZONE OCCURS THE ADMINISTRATOR MAY REQUIRE THE REPLANTING OF UNDERSTORY VEGETATION. FULL DRIPLINE PROTECTION IS REQUIRED; HOWEVER THE ADMINISTRATOR MAY ALLOW CERTAIN ACTIVITES TO BE CONDUCTED WITHIN THE BARRICADED DRIPLINE OF A TREE, SO LONG AS THE COUNTY DETERMINES THAT THE TREE WILL NOT BE ADVERSELY AFFECTED.

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Maxwell D. Spann, RLA
Florida License No. 6670
July 18, 2017

No.	Date	Revision
1	5/05/17	RESUBMIT TO THE CITY OF VENICE
2	4/20/17	RESUBMIT TO THE CITY OF VENICE

Designed: K. Upp
Drawn: K. Upp
Checked: D. Moyer
Scale: As Noted
Job No.: S29701
Date: 12/16

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LANDSCAPE PLAN

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LANDSCAPE NOTES:

1. The landscape Contractor shall be responsible for all materials and all work as called for on the Landscape Plans and in the Landscape Specifications. In the event of variation between quantities shown on plant list and the plans, the plans shall control. The Landscape Contractor shall verify all quantities and report any discrepancies at the time of bidding.
2. The Landscape Contractor shall review architectural/engineering plans and become thoroughly familiar with surface and subsurface utilities.
3. Prior to construction, the contractor shall be responsible for locating all underground utilities and shall avoid damage to all utilities during the course of the work. Locations of existing buried utility lines shown on the plans are based upon best available information and are considered to be approximate. It shall be the responsibility of the contractor 1) to verify the locations of utility lines within and adjacent to the work area 2) to protect all utility lines during the construction period 3) to repair any and all damage to utilities, structures, site appurtenances, etc. which occurs as a result of the construction 4) To field adjust the location of proposed trees and palms 10' off the center of the utility lines. Notify the Landscape Architect if a 10' offset does not function.
4. The work shall be coordinated with other trades to prevent conflicts. Coordinate the planting with the irrigation work to assure availability and proper location of irrigation items and plants.
5. Contractor shall ensure that there are no visual obstructions to vehicle lines of sight and traffic controls. Contractor shall field adjust tree and/or large shrub locations to avoid any such obstructions.
6. Trees shall be maintained by the owner to avoid future such obstructions by pruning trees and/or shrubs as necessary utilizing horticulturally sound techniques.
7. All planting shall be performed by personnel familiar with planting procedure and under the supervision of a qualified planting foreman.
8. All plant material shall be graded Florida No. 1 or better as outlined under Grades and Standards for Nursery Stock, Part I and II, published by the Florida Department of Agriculture and Consumer Services.
9. The Landscape Architect or Owner shall have the right, at any stage of the operations, to reject any and all work and materials which, in his opinion, do not meet with the requirements of these specifications.
10. Except as otherwise specified, the Landscape Contractor's work shall conform to accepted horticultural practices as used in the trade.
11. The minimum acceptable size of all plants, measured after pruning, with branches in normal positions, shall conform to the measurements specified on the plant list or as indicated on the landscape drawing. Height and spread dimensions refer to main body of the plant and not extreme branch tip to tip. Trunk caliper (trunk diameter) is measured 6 inches from the ground on trees up to and including 4 inches in caliper, and 12 inches from the ground for larger trees. Since trunks are seldom round, the average of the largest diameter and that perpendicular to it is referred to as caliper.
12. Plants shall be protected upon arrival at the site, by being thoroughly watered and properly maintained until planted.
13. All tree pits shall be excavated to size and depth in accordance with the Florida Grades & Standards for Nursery Stock, unless shown otherwise on the drawings, and backfilled with the specified planting soil. The Landscape Contractor shall test fill all tree pits with water before planting to assure proper drainage percolation is available.
14. The Landscape Contractor shall be responsible for proper watering of all plants. All plants shall be thoroughly watered at time of planting and kept adequately watered until time of acceptance. It shall be the Landscape Contractor's responsibility to assure that plants are not over watered.
15. It shall be the Landscape Contractor's responsibility to prevent plants from falling or being blown over, to re-straighten and replant all plants which lean or fall and to replace all plants which are damaged due to lack of proper guying or staking. The Landscape Contractor shall be legally liable for any damage caused by instability of any plant material.
16. All Palms to be staked as indicated per Palm staking details. All other trees to be stabilized utilizing 8' lodge poles per tree planting details.
17. Plants blown over by high winds, within the guaranteed period, shall not be cause for additional expense to the Owner, but shall be the responsibility of the Landscape Contractor. Damaged plants shall be replaced by the Landscape Contractor at no additional cost to the Owner.
18. Sod shall be of a species specified on the drawings and originate from a commercial turf grower. It shall be a dense stand of live turf, reasonably free of weeds, well matted with grass roots in rectangles 12 inch by 24 inch or in 12 inch wide rolls in a length consistent with the equipment and methods used to handle the rolls and place the sod. Any netting contained within the sod shall be certified by the manufacturer to be bio-degradable. The soil and root mat shall be a minimum of 1-1/2 inch thick and must hold together during placement. Sod shall be place adjacent to one another to avoid gaps and overlaps. Joints shall be staggered between the rows. Sod placed on slopes exceeding 3:1 shall be pinned with turf staples. Sod turf, shall have been mowed a minimum of one week prior to cutting and delivery, so that the length of the turf is no longer than 4 inches at time of delivery. Place sod within 48 hours of cutting the sod. The sod shall be kept moist throughout the 48 hour period to maintain the health and viability of the sod. Submit a letter of certification to the Owner's CEI Representative, at time of delivery, as to the source of the sod, the time it was cut, the species and cultivars provided, last mowing date, and that the sod is free of fire ants. Sod which has been cut for longer than 48 hours after being cut shall not be used unless specifically authorized by Owner's CEI Representative.
19. It shall be the Contractor's responsibility to measure and determine the exact quantity of sod required for a complete job at the time of bidding or providing a price quote. The Owner shall not be responsible for additional cost due to the Contractor's under estimating of the quantity of sod for the original bid area.
20. The Landscape Contractor shall insure adequate vertical drainage in all plant beds, planters, and sod areas. Vertical drilling through any compacted fill to native soil shall be accomplished to insure drainage. If well drained fill is necessary to assure positive drainage, this issue shall be brought up by the Landscape Contractor at time of bidding.
21. The Landscape Contractor shall insure that his work does not interrupt established or projected drainage patterns.
22. The Landscape Contractor shall prune, shape and remove dead foliage/limbs from existing plant material to remain. Confirm with the Landscape Architect or Owner the extent of work required at time of Bidding.
23. Mulch - All plant beds shall be top dressed with 4" shredded hardwood mulch (or approved equal).
24. Transplanted Material - The Landscape Contractor shall be responsible for determining and evaluating which plant materials are suitable for transplanting and shall verify this with the Landscape Architect or Owner. The Landscape Contractor shall take all reasonable, horticulturally acceptable measures to assure the successful transplanting of determined plant materials. The Landscape Contractor shall be responsible for replacing any relocated plant materials which die if such measures are not taken, as determined by the Landscape Architect or Owner. Replacement plants shall be of identical species and size if required.
25. MAINTENANCE PRIOR TO FINAL INSPECTION AND ACCEPTANCE:

    Maintenance shall commence after each plant is planted and the maintenance period shall continue until the job or specific phase of the job is accepted by the Landscape Architect or Owner. Extreme care shall be taken to instruct the Owner or his representatives in general maintenance procedures.

    Plant maintenance shall include watering, pruning, weeding, cultivating, mulching, tightening, and repairing of guys, replacement of sick or dead plants, resetting plants to proper grades or upright positions and restoration of the planting saucer and all other care needed for proper growth of the plants.

    During the maintenance period and up to the date of final acceptance, the Landscape Contractor shall do all seasonal spraying and/or dusting of trees and shrubs. Upon completion of all planting, an inspection for acceptance of work will be held. The Landscape Contractor shall notify the Landscape Architect or Owner for scheduling of the inspection 10 days prior to the anticipated date.

    At the time of the inspection, if all of the materials are acceptable, a written notice will be given by the Landscape Architect or Owner to the Landscape Contractor Stating the date when the Maintenance Period ends.

    GUARANTEE AND REPLACEMENT:

    All plant materials shall be guaranteed for one (1) year from the time of final inspection and interim acceptance shall be alive and in satisfactory growth for each specific kind of plant at the end of the guaranteed period.

    At the end of the guarantee period, any plant required under this contract that is dead or not in satisfactory growth, as determined by the Owner or the Landscape Architect, shall be removed and replaced. Replacement plants shall have an extended guarantee, as noted above, from time of replacement.

    All replacements shall be planted of the same kind and size as specified on the plant list. They shall be the responsibility of the Landscape Contractor.
26. TOPSOIL

    Topsoil shall be natural, friable, fertile, fine loamy soil possessing characteristics of representative topsoil in the vicinity that produces heavy growth. Topsoil shall have a pH range of 5.5 to 7.4, free from subsoil, objectionable weeds, litter, sods, stiff clay, stones larger than 1-inch in diameter, stumps, roots, trash, toxic substances, or any other material which may be harmful to plant growth or hinder planting operations. Top soil shall contain a minimum of three percent organic material.
27. UNSUITABLE SUBSOILS
    Locations containing unsuitable subsoil shall be treated by one or more of the following:

    A. Where unsuitability is deemed by Owner or Owner's Representative to be due to excessive compaction caused by heavy equipment and where natural subsoil is other than AASHTO classification of A6 or A7, loosen such areas with spikes, discing, or other means to loosen soil to condition acceptable to Owner. Loosen soil to minimum depth of 12 inches with additional loosening as required to obtain adequate drainage. Contractor may introduce peat moss, sand, or organic matter into the subsoil to obtain adequate measures shall be considered as incidental, without additional cost to Owner.

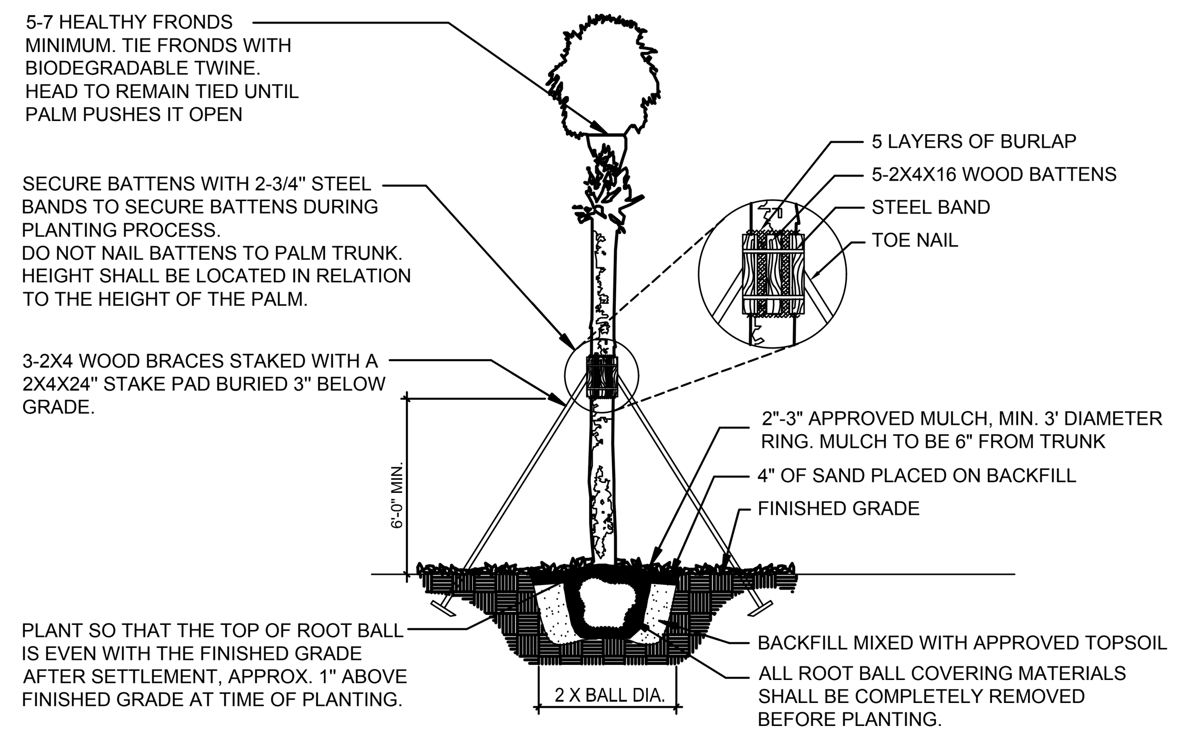
    B. Where unsuitability is deemed by Owner or Owner's Representative to be due to presence of boards, mortar, concrete, graded aggregate base, or other construction materials in sub grade and where natural subsoil is other than AASHTO classification of A6 or A7, remove debris and objectionable material. Such remedial measures shall be considered as incidental, without additional cost to Owner.

    C. Where unsuitability is deemed by Owner to be because natural subsoil falls into AASHTO classification of A6 or A7 and contains moisture in excess of 30 percent, then installation of sub drainage system or other means described elsewhere in Specifications shall be used. Where such conditions have not been known or revealed prior to planting time and they have not been recognized in preparation of The Drawings and Specifications, then Owner shall issue pricing order to install proper remedial measures.

    D. Planting beds where existing subsoil is determined by Owner to be unsuitable for plant growth in accordance paragraph Unsuitable Subsoil herein shall be excavated to a depth of 12 inches or as needed to provide adequate drainage. Replace excavated soil with planting soil.

NOTE:

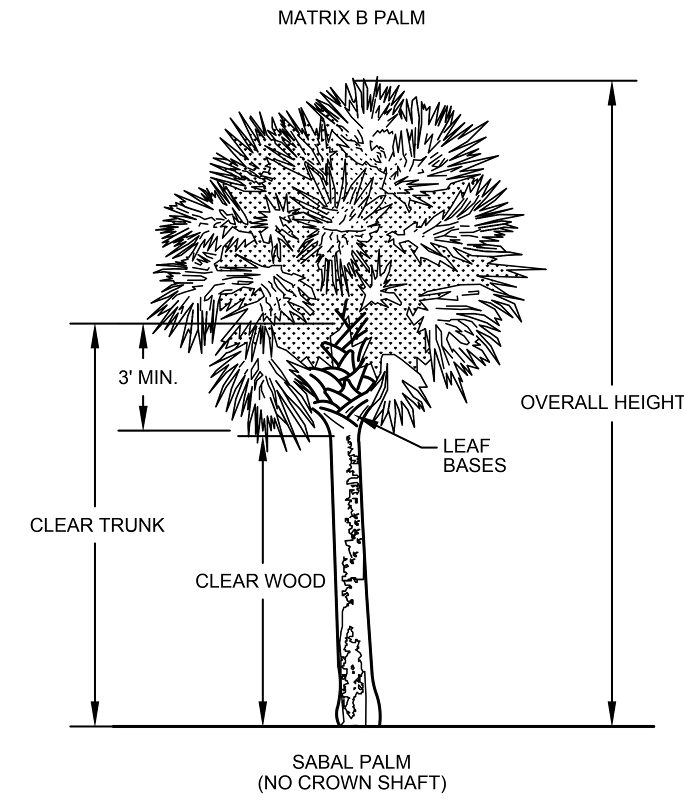
1. A TREE PERMIT WILL BE REQUIRED PRIOR TO ANY CONSTRUCTION, NATIVE VEGETATIVE REMOVAL WITHIN THE DRIPLINE OF A TREE, AND/OR TREE REMOVAL.



PALM STAKING DETAIL

N.T.S.

NOTE: INSTALLATION SHALL BE IN ACCORDANCE WITH ANSI A3000 (PART 6) STANDARDS.



* ALL PALMS TO HAVE CLEAR WOOD INDICATED ABOVE UNLESS OTHERWISE SPECIFIED.

PALM HEIGHT/TRUNK SPECIFICATIONS

OVERALL HEIGHT(OA): HIGHEST POINT IN THE CANOPY MEASURED FROM THE SOIL LINE TO THE NATURAL POSITION OF THE LAST FULLY EXPANDED LEAF. UNLESS SPECIFIED DIFFERENTLY, THE TERM HEIGHT, OR HEIGHT MEASUREMENTS SPECIFIED, WILL BE CONSIDERED OVERALL HEIGHT.

CLEAR TRUNK(CT): A MEASUREMENT FROM THE SOIL LINE TO A POINT IN THE CANOPY WHERE THE TRUNK CALIPER BEGINS TO TAPER ABRUPTLY. ON MANY PALMS, THIS POINT WILL LIE AT THE BASE OF THE PETIOLE OF THE THIRD OR FOURTH YOUNGEST BUT FULLY EXPANDED LEAF.

CLEAR WOOD(CW): A MEASUREMENT FROM THE SOIL LINE TO THE HIGHEST POINT OF THE TRUNK FREE OF PERSISTENT LEAF BASES. ON PALMS WITH A CROWN SHAFT, THE MEASURE WILL BE FROM THE SOIL LINE TO THE BASE OF THE CROWN SHAFT. IT SHOULD BE NOTED THAT PALMS WITH VERY PERSISTENT LEAF BASES MAY NOT HAVE CLEAR WOOD.

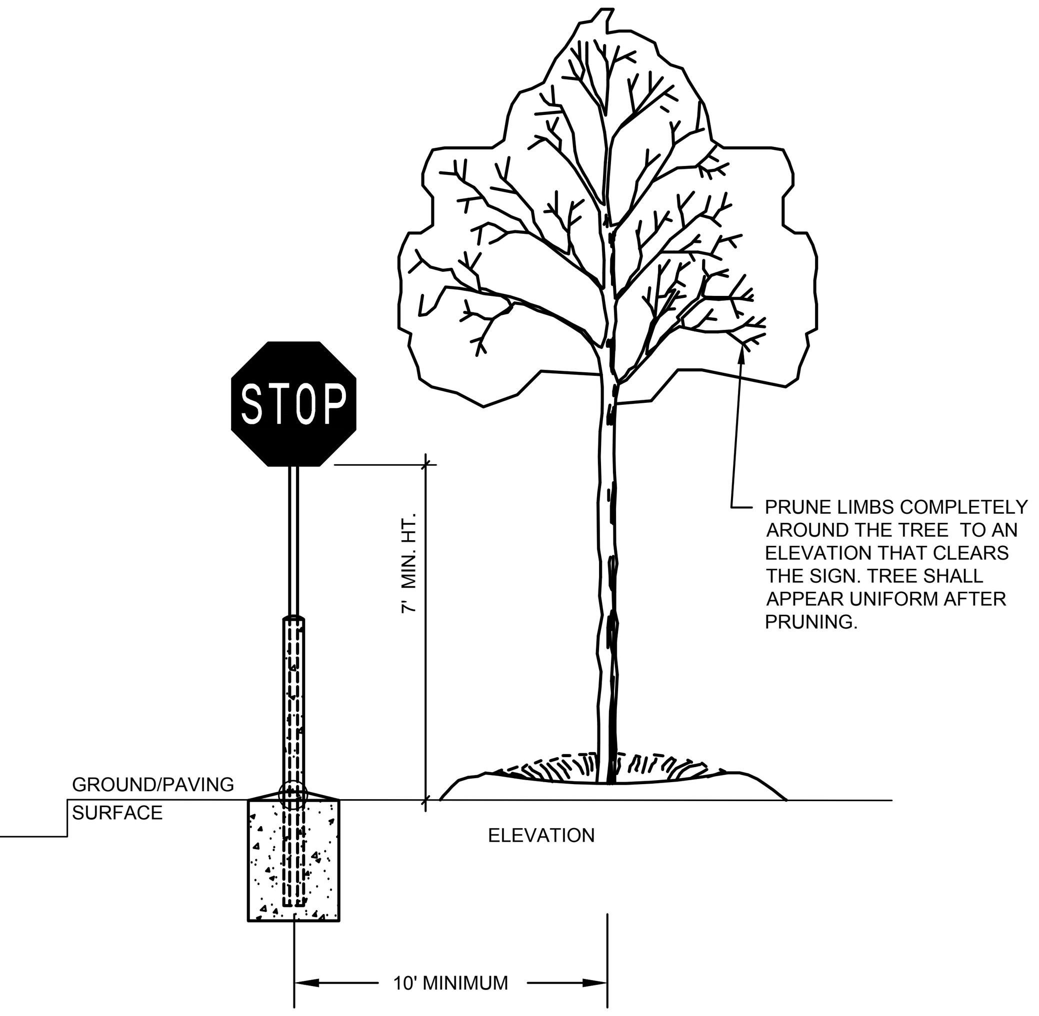
DPI INSPECTION NOTES(REQUIRED)

D.P.I. PALM INSPECTION NOTE: ALL PALMS SHALL HAVE A VALID AND CURRENT STATE OF FLORIDA, DIVISION OF PLANT INDUSTRY (DPI) INSPECTION CERTIFICATION PRIOR TO BEING TRANSPORTED TO THE CONSTRUCTION SITE. THE DPI CERTIFICATION MUST BE SUBMITTED TO CPH AND A COPY OF THIS CERTIFICATION MUST BE PROVIDED TO THE GENERAL CONTRACTOR AND MAINTAINED WITH THE CONSTRUCTION RECORDS.

PALM HEIGHT/TRUNK SPECIFICATIONS

N.T.S.

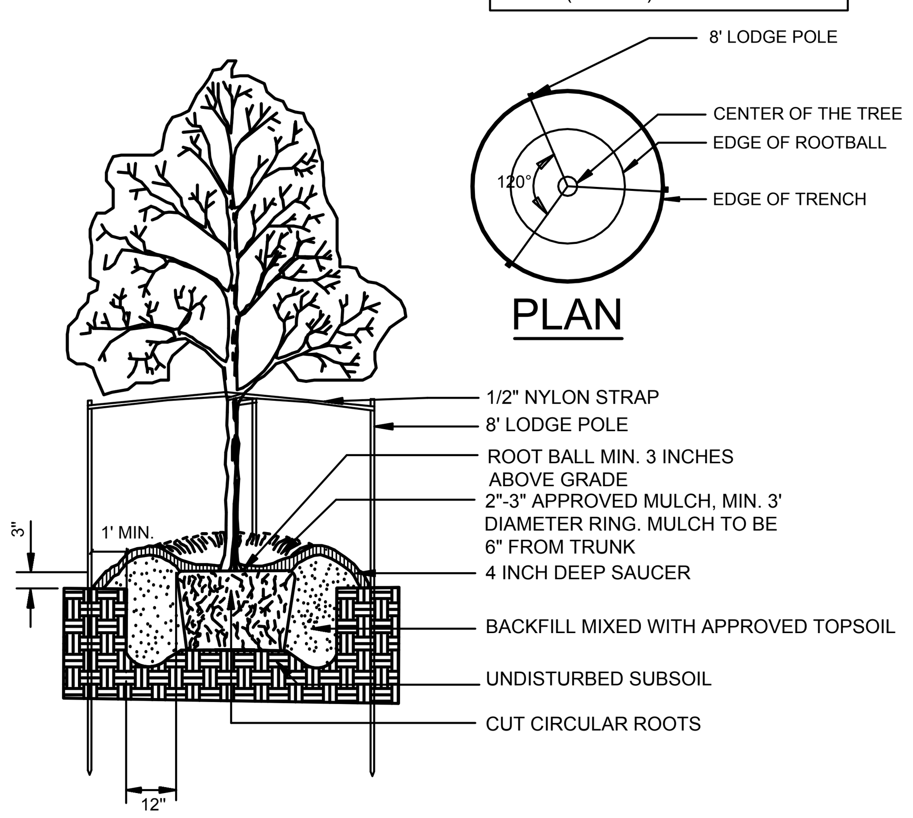
NOTE: INSTALLATION SHALL BE IN ACCORDANCE WITH ANSI A3000 (PART 6) STANDARDS.



ALL TREES TO BE PLANTED NO CLOSER THAN 10' IN ALL DIRECTIONS FROM ANY TRAFFIC SIGNS

TREE PLANTING @ TYPICAL SIGN

N.T.S.

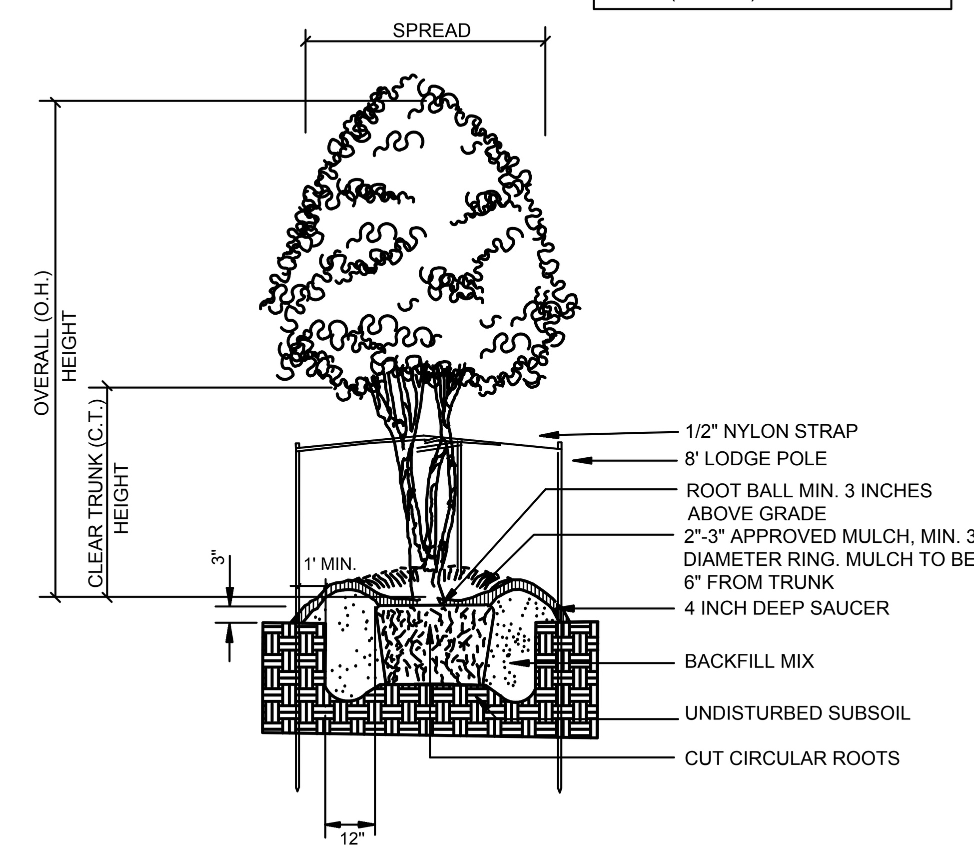


NOTE: SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.

CONTAINER TREE PLANTING DETAIL

N.T.S.

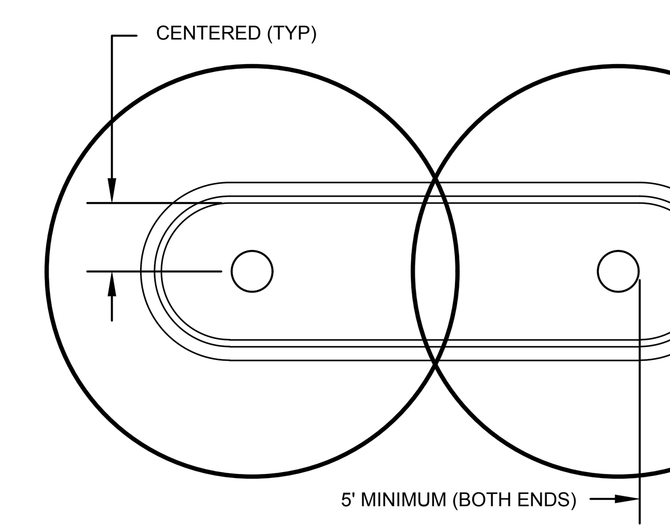
NOTE: INSTALLATION SHALL BE IN ACCORDANCE WITH ANSI A3000 (PART 6) STANDARDS.



MULTI-TRUNK CONTAINER TREE PLANTING DETAIL

N.T.S.

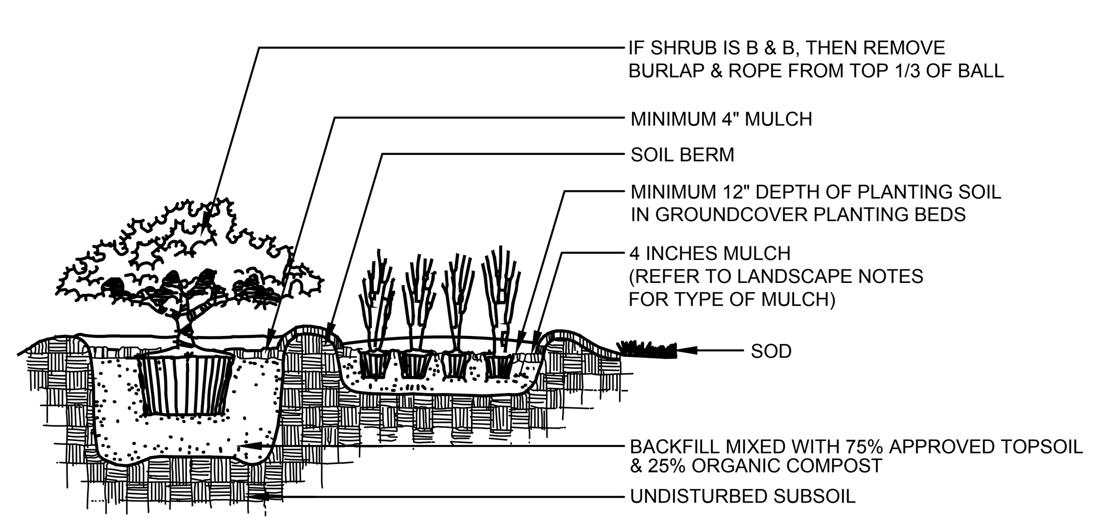
NOTE: INSTALLATION SHALL BE IN ACCORDANCE WITH ANSI A3000 (PART 6) STANDARDS.



TYPICAL ISLAND PLANTING

N.T.S.

ALL TREES PLANTED IN LANDSCAPE ISLANDS OR ANY LANDSCAPED AREAS SHOULD BE A MINIMUM OF 5' OFF OF BACK OF CURB UNLESS ABSOLUTELY NECESSARY DUE TO UTILITY LINES/PIPES LOCATION.

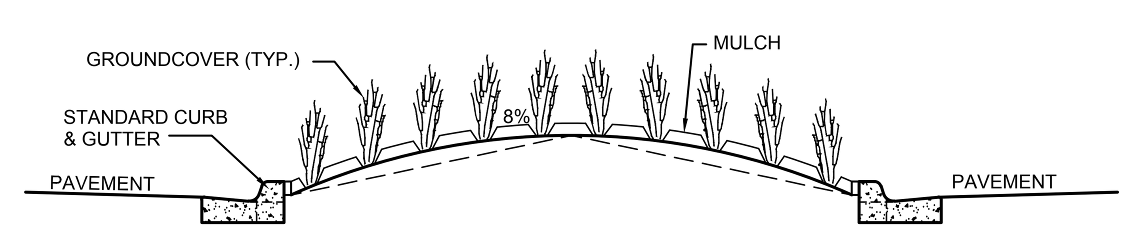


-PROVIDE MINIMUM PIT CLEARANCE AROUND ROOT BALL OF 6" SIDES AND BOTTOM.
-MAINTAIN 3"-4" MULCH FREE ZONE AROUND BASE OF PLANT.

SHRUB AND GROUNDCOVER PLANTING DETAIL

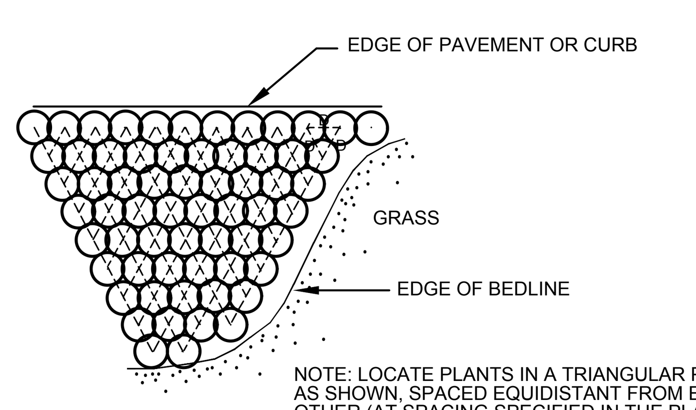
N.T.S.

NOTE: INSTALLATION SHALL BE IN ACCORDANCE WITH ANSI A3000 (PART 6) STANDARDS.



TYPICAL LANDSCAPE ISLANDS

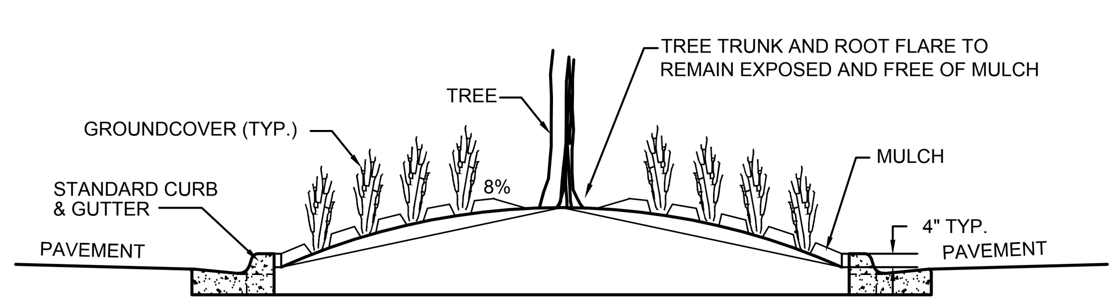
N.T.S.



NOTE: LOCATE PLANTS IN A TRIANGULAR PATTERN AS SHOWN, SPACED EQUIDISTANT FROM EACH OTHER (AT SPACING SPECIFIED IN THE PLANT LIST).

SHRUB/GROUNDCOVER SPACING PLAN

N.T.S.



TYPICAL LANDSCAPE ISLANDS

N.T.S.

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Sarasota, FL 34237
Ph: 941.365.4771
Licenses:
Eng. C.O.A. No. 3215
Survey L.B. No. 7143
Arch. Lic. No. AA2600926
Lndscp. Lic. No. LC0000298

REGISTERED LANDSCAPE ARCHITECT MAXWELL D. SPANN LA 6666780 STATE OF FLORIDA
Maxwell D. Spann, RLA FL. LA666780 May 04, 2017

No.	Date	Revision
1	4/20/17	RESUBMIT TO THE CITY OF VENICE
2	5/05/17	RESUBMIT TO THE CITY OF VENICE
3		
4		
5		
6		
7		

Designed: K. Upp
Drawn: K. Upp
Checked: G. Rodriguez
Scale: As Noted
Job No.: S29701
Date: 12/16

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LANDSCAPE NOTES AND DETAILS

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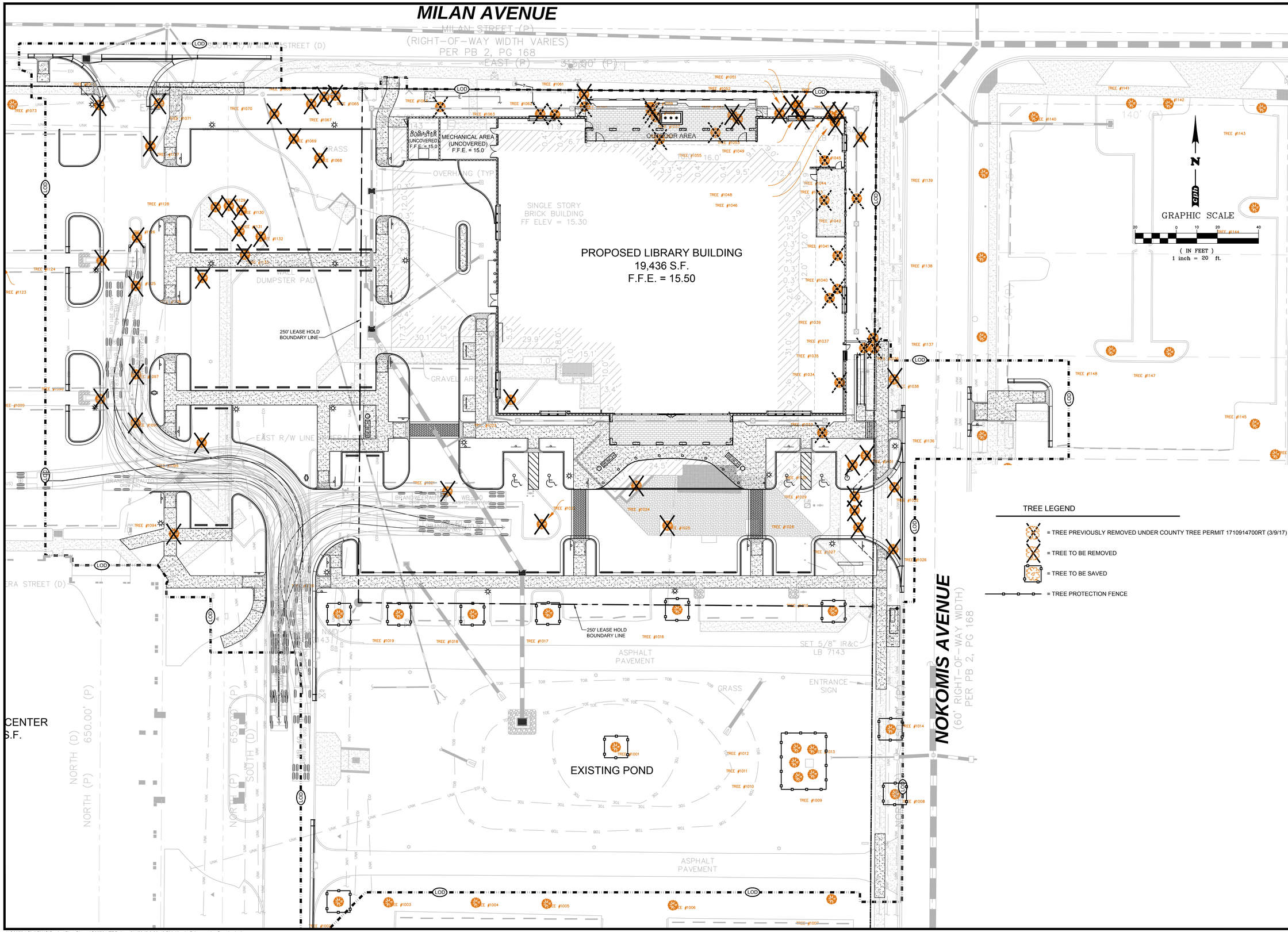

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REGISTERED LANDSCAPE ARCHITECT — STATE OF FLORIDA — LA 0666700

Maxwell D.Spann, RLA
Florida License No. 6670
May 04, 2017

No.	Date	Revision
1	5/05/17	RESUBMIT TO THE CITY OF VENICE
2	4/20/17	RESUBMIT TO THE CITY OF VENICE
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Designed: K. Upp
Drawn: K. Upp
Checked: G. Rodriguez
Scale: As Noted
Job No.: S29701
Date: 12/16

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TREE PROTECTION PLAN

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Sheet No.

TR1.1

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Tree Data Table

Tree #	DBH (in.)	Common Name	Botanical Name	Disposition
1001	59	Indian Rosewood	*Dalbergia sissoo*	Save
1002	27	Live Oak	*Quercus virginiana*	Save
1003	15.5	Live Oak	*Quercus virginiana*	Save
1004	23	Live Oak	*Quercus virginiana*	Save
1005	20	Live Oak	*Quercus virginiana*	Save
1006	28.5	Live Oak	*Quercus virginiana*	Save
1007	5	Black Olive	*Bucida buceras*	Save
1008	14.5	Live Oak	*Quercus virginiana*	Save
1009	11	Cabbage Palm	*Sabal palmetto*	Save
1010	8	Cabbage Palm	*Sabal palmetto*	Save
1011	9	Cabbage Palm	*Sabal palmetto*	Save
1012	10.5	Cabbage Palm	*Sabal palmetto*	Save
1013	11	Cabbage Palm	*Sabal palmetto*	Save
1014	14.5	Live Oak	*Quercus virginiana*	Save
1015	25	Live Oak	*Quercus virginiana*	Save
1016	22.5	Live Oak	*Quercus virginiana*	Save
1017	22	Live Oak	*Quercus virginiana*	Save
1018	15.5	Live Oak	*Quercus virginiana*	Save
1019	17	Live Oak	*Quercus virginiana*	Save
1020	19.5	Live Oak	*Quercus virginiana*	Save
1021	27	Cabbage Palm	*Sabal palmetto*	Remove
1022	24	Bottlebrush	*Callistemon viminalis*	Remove
1023	10	Queen Palm	*Syagrus romanzoffiana*	Remove
1024	18	Christmas Palm	*Adonidia merrillii*	Remove
1025	20	Royal Palm	*Roystonea regia*	Remove
1026	16.5	Live Oak	*Quercus virginiana*	Remove
1027	9	Queen Palm	*Syagrus romanzoffiana*	Remove
1028	9	Queen Palm	*Syagrus romanzoffiana*	Remove
1029	7	Queen Palm	*Syagrus romanzoffiana*	Remove
1030	9	Queen Palm	*Syagrus romanzoffiana*	Remove
1031	10.5	Queen Palm	*Syagrus romanzoffiana*	Remove
1032	13.5	Live Oak	*Quercus virginiana*	Remove
1033	6.5	Christmas Palm	*Adonidia merrillii*	Prev. Rem.
1034	30	Ponytail Palm	*Beaucarnea recurvata*	Prev. Rem.
1035	9	Cabbage Palm	*Sabal palmetto*	Prev. Rem.
1036	10.5	Cabbage Palm	*Sabal palmetto*	Prev. Rem.
1037	14.5	Cabbage Palm	*Sabal palmetto*	Prev. Rem.
1038	16.5	Live Oak	*Quercus virginiana*	Remove
1039	13.5	Washingtonia Palm	*Washingtonia filifera*	Prev. Rem.
1040	32	Bottlebrush	*Callistemon viminalis*	Prev. Rem.
1041	10	Queen Palm	*Syagrus romanzoffiana*	Prev. Rem.
1042	46	Laurel Oak	*Quercus laurifolia*	Prev. Rem.
1043	7	Queen Palm	*Syagrus romanzoffiana*	Prev. Rem.
1044	9.5	Queen Palm	*Syagrus romanzoffiana*	Prev. Rem.
1045	7	Queen Palm	*Syagrus romanzoffiana*	Remove
1046	10	Cabbage Palm	*Sabal palmetto*	Remove
1047	10	Cabbage Palm	*Sabal palmetto*	Remove
1048	9.5	Cabbage Palm	*Sabal palmetto*	Remove
1049	8	Queen Palm	*Syagrus romanzoffiana*	Remove
1050	8	Queen Palm	*Syagrus romanzoffiana*	Remove
1051	8	Queen Palm	*Syagrus romanzoffiana*	Remove
1052	8	Queen Palm	*Syagrus romanzoffiana*	Remove
1053	10.5	Cabbage Palm	*Sabal palmetto*	Remove
1054	9	Cabbage Palm	*Sabal palmetto*	Remove
1055	60	Areca Palm	*Dypsis lutescens*	Prev. Rem.
1056	14.5	Simpson's Stopper	*Myrcianthes fragrans*	Prev. Rem.
1057	11.5	Cabbage Palm	*Sabal palmetto*	Prev. Rem.
1058	10	Cabbage Palm	*Sabal palmetto*	Prev. Rem.
1059	10.5	Cabbage Palm	*Sabal palmetto*	Prev. Rem.
1060	24	Longleaf Pine	*Pinus palustris*	Prev. Rem.
1061	12	Cabbage Palm	*Sabal palmetto*	Remove
1062	9	Cabbage Palm	*Sabal palmetto*	Prev. Rem.
1063	8.5	Cabbage Palm	*Sabal palmetto*	Prev. Rem.
1064	11	Black Olive	*Bucida buceras*	Prev. Rem.
1065	56	Seagrape	*Coccoloba uvifera*	Remove
1066	56.5	Seagrape	*Coccoloba uvifera*	Remove
1067	33.5	Seagrape	*Coccoloba uvifera*	Remove
1068	67	Seagrape	*Coccoloba uvifera*	Remove
1069	21	Seagrape	*Coccoloba uvifera*	Remove
1070	33.5	Mahogany	*Swietenia mahagoni*	Remove
1071	9	Mahogany	*Swietenia mahagoni*	Remove
1072	20	Laurel Oak	*Quercus laurifolia*	Remove
1073	14.5	Date Palm	*Phoenix dactylifera*	Save
1074	16	Laurel Oak	*Quercus laurifolia*	Save
1075	12	Date Palm	*Phoenix dactylifera*	Save
1076	20	Laurel Oak	*Quercus laurifolia*	Save
1077	16.5	Live Oak	*Quercus virginiana*	Save
1078	13	Date Palm	*Phoenix dactylifera*	Save

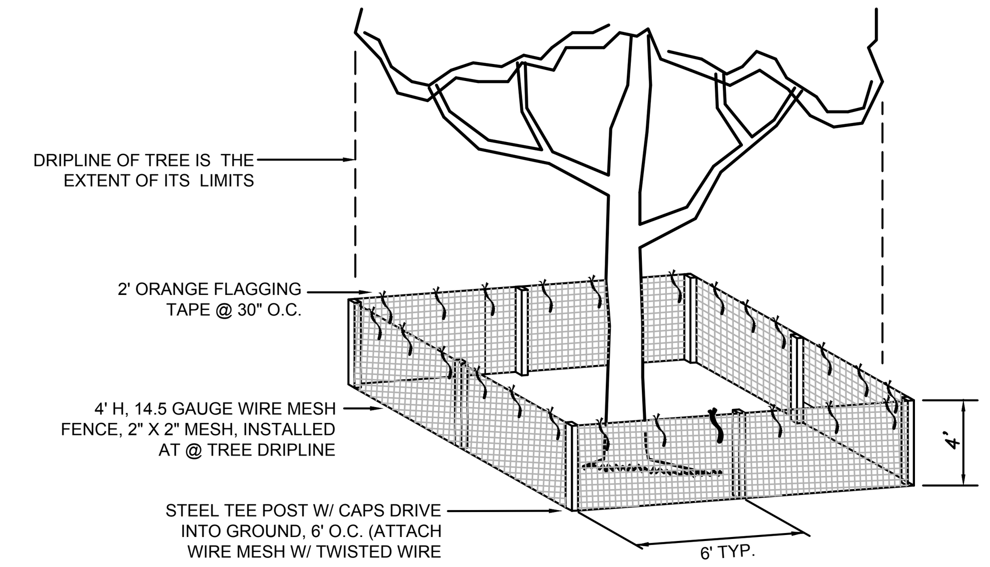
Tree Data Table

Tree #	DBH (in.)	Common Name	Botanical Name	Disposition
1079	24.5	Live Oak	*Quercus virginiana*	Save
1080	14	Laurel Oak	*Quercus laurifolia*	Save
1081	18	Date Palm	*Phoenix dactylifera*	Save
1082	13	Slash Pine	*Pinus elliottii*	Save
1083	9	Cabbage Palm	*Sabal palmetto*	Save
1084	8	Cabbage Palm	*Sabal palmetto*	Save
1085	12.5	Slash Pine	*Pinus elliottii*	Save
1086	10.5	Cabbage Palm	*Sabal palmetto*	Save
1087	7	Slash Pine	*Pinus elliottii*	Save
1088	15	Cabbage Palm	*Sabal palmetto*	Save
1089	15	Cabbage Palm	*Sabal palmetto*	Save
1090	13	Gold Tree	*Tabebuia aurea*	Save
1091	10.5	Gold Tree	*Tabebuia aurea*	Save
1092	13	Cabbage Palm	*Sabal palmetto*	Save
1093	13	Cabbage Palm	*Sabal palmetto*	Save
1094	18	Senegal Date Palm	*Phoenix reclinata*	Remove
1095	30.5	Live Oak	*Quercus virginiana*	Remove
1096	11.5	Cabbage Palm	*Sabal palmetto*	Remove
1097	10.5	Cabbage Palm	*Sabal palmetto*	Remove
1098	10	Dahoon Holly	*Ilex cassine*	Remove
1099	8	Winged Elm	*Ulmus alata*	Save
1100	10	Cabbage Palm	*Sabal palmetto*	Save
1101	10	Cabbage Palm	*Sabal palmetto*	Save
1102	12.5	Cabbage Palm	*Sabal palmetto*	Save
1103	11.5	Cabbage Palm	*Sabal palmetto*	Save
1104	9.5	Cabbage Palm	*Sabal palmetto*	Save
1105	10.5	Cabbage Palm	*Sabal palmetto*	Save
1106	8	Dahoon Holly	*Ilex cassine*	Save
1107	7.5	Dahoon Holly	*Ilex cassine*	Save
1108	4	Winged Elm	*Ulmus alata*	Save
1109	3	Black Olive	*Bucida buceras*	Save
1110	11	Cabbage Palm	*Sabal palmetto*	Save
1111	12	Cabbage Palm	*Sabal palmetto*	Save
1112	10	Cabbage Palm	*Sabal palmetto*	Save
1113	10.5	Cabbage Palm	*Sabal palmetto*	Save
1114	3	Black Olive	*Bucida buceras*	Save
1115	8	Dahoon Holly	*Ilex cassine*	Save
1116	3.5	Winged Elm	*Ulmus alata*	Save
1117	11.5	Cabbage Palm	*Sabal palmetto*	Save
1118	12	Cabbage Palm	*Sabal palmetto*	Save
1119	12	Cabbage Palm	*Sabal palmetto*	Save
1120	13.5	Cabbage Palm	*Sabal palmetto*	Save
1121	12	Cabbage Palm	*Sabal palmetto*	Save
1122	13.5	Cabbage Palm	*Sabal palmetto*	Save
1123	5.5	Winged Elm	*Ulmus alata*	Save
1124	10	Winged Elm	*Ulmus alata*	Remove
1125	12	Cabbage Palm	*Sabal palmetto*	Remove
1126	12	Cabbage Palm	*Sabal palmetto*	Remove
1127	11	Cabbage Palm	*Sabal palmetto*	Remove
1128	12	Cabbage Palm	*Sabal palmetto*	Remove
1129	12	Cabbage Palm	*Sabal palmetto*	Remove
1130	15.5	Cabbage Palm	*Sabal palmetto*	Remove
1131	13	Cabbage Palm	*Sabal palmetto*	Remove
1132	12.5	Cabbage Palm	*Sabal palmetto*	Remove
1133	12.5	Cabbage Palm	*Sabal palmetto*	Remove
1134	14	Live Oak	*Quercus virginiana*	Remove
1135	25	Senegal Date Palm	*Phoenix reclinata*	Save
1136	14.5	Live Oak	*Quercus virginiana*	Save
1137	15	Live Oak	*Quercus virginiana*	Save
1138	19.5	Live Oak	*Quercus virginiana*	Save
1139	20.5	Live Oak	*Quercus virginiana*	Save
1140	4.5	Black Olive	*Bucida buceras*	Save
1141	17	Live Oak	*Quercus virginiana*	Save
1142	18	Live Oak	*Quercus virginiana*	Save
1143	15	Live Oak	*Quercus virginiana*	Save
1144	5	Black Olive	*Bucida buceras*	Save
1145	4	Black Olive	*Bucida buceras*	Save
1146	20	Cabbage Palm	*Sabal palmetto*	Save
1147	5	Black Olive	*Bucida buceras*	Save
1148	5.5	Black Olive	*Bucida buceras*	Save
1149	5.5	Winged Elm	*Ulmus alata*	Save

(Shaded) TREE PREVIOUSLY REMOVED UNDER COUNTY TREE PERMIT 1710914700RT (3/9/17)

TREE PRESERVATION DATA

TOTAL PROTECTED TREE DBH INCHES REMOVED: 818



TREE PROTECTION DETAIL

N.T.S.

TREE BARRICADE APPROVAL

OBTAIN CITY APPROVAL OF TREE BARRICADES PRIOR TO BEGINNING CLEARING OPERATIONS OR ANY SITE DEVELOPMENTS

TREE PROTECTION NOTES:

1. Four (4) foot high 14.5 guage wire 2"x2" mesh fencing shall be installed encompassing the drip line of each tree, or one foot in diameter for each inch of trunk diameter, whichever is greater. When surveyed fencing shall be moved to the edge of the tree protection area (TPA) as indicated on plans and be maintained through completion of construction.

2. Where the TPA occurs within 10 feet of the tree trunk, a trenching device shall be used to sever tree roots. Root raking shall not occur before roots have been cleanly severed.

3. All equipment and/or materials are prohibited within the TPA. Including but not limited to cement wash-out, chemicals, fuel or equipment servicing.

4. Grade changes shall not occur within the TPA. No fill shall be added, removed or stored within the TPA with exception of prescribed potting soil (see item 10).

5. Brush and weeds occuring within the TPA shall be cleared by hand or utilizing only the mower of a light wheeled farm tractor (less than 60 hp). During such activities soil profiles shall not be disturbed.

6. Roto-tilling, disking, root raking or other clearing methods that disturb the soil profile are expressly prohibited.

7. Utility lines and/or irrigation lines shall not occur within the TPA.

8. Saved trees shall be pruned to remove dead and damaged wood, correct structural defects and to provide access and visibility.

9. Pruning shall be completed under direct observation by the Designated Forester of CPH Engineers, Inc. or owner designated ISA certified arborist and be accomplished by an arborist with five years or more experience pruning live oaks to ISA standards. Arborist must obtain approval from the owner prior to commencement of pruning activities. Two week advance notification is required.

10. Landscaping within TPA shall not disturb existing soil profiles. Eight inches of potting soil shall be imported and evenly spread to provide a planting medium within TPA.

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REGISTERED LANDSCAPE ARCHITECT — MAXWELL D. SPANN — LA 6666780 — STATE OF FLORIDA
Maxwell D. Spann, RLA
FL. LA666780
May 04, 2017

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Designed: K. Upp
Drawn: K. Upp
Checked: G. Rodriguez
Scale: As Noted
Job No.: S29701
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TREE PROTECTION DATA

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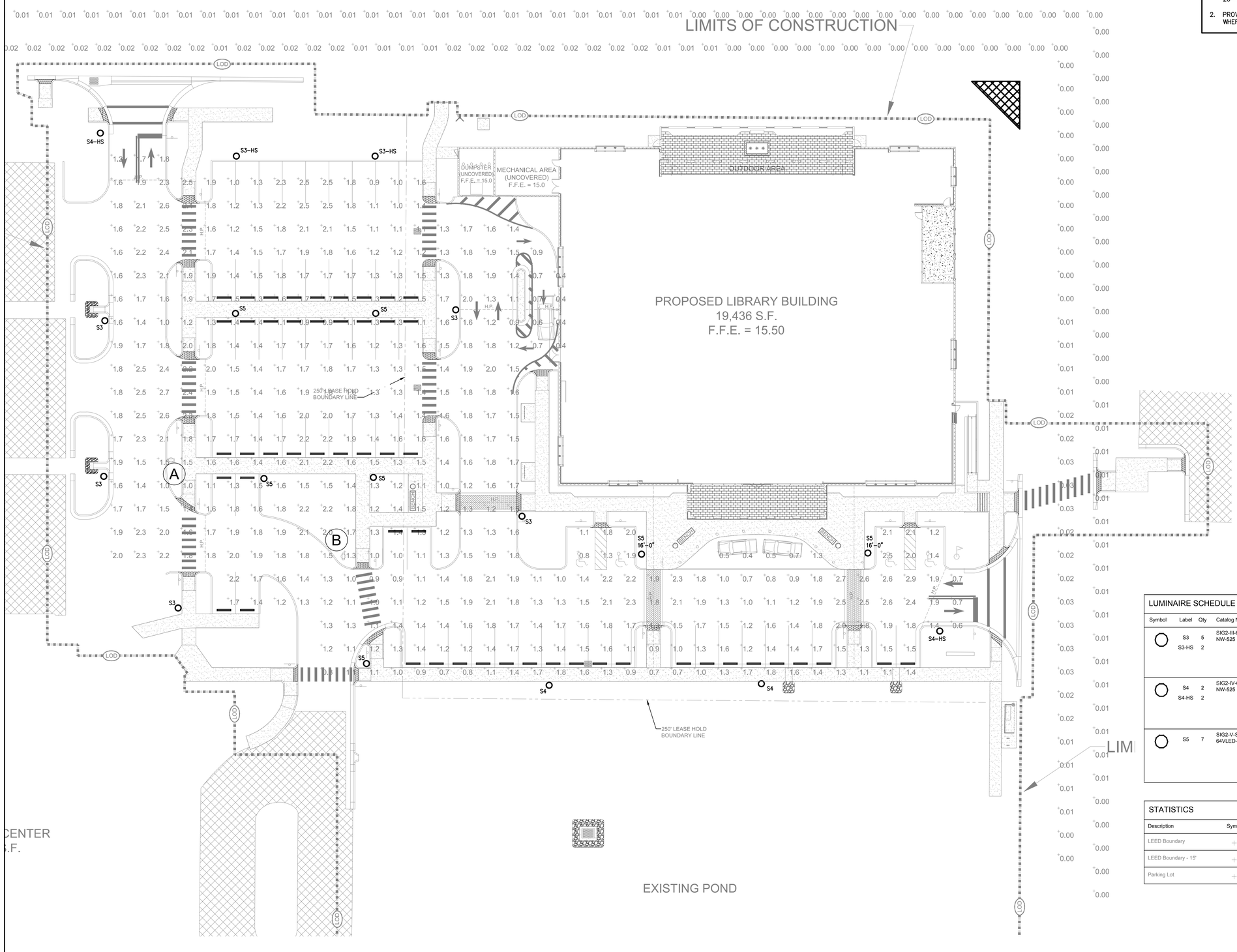
Sheet No. **TR5.1**

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS. SEE GENERAL NOTES FOR MASTER LEGEND.



GENERAL NOTES

1. ALL SITE LIGHTING FIXTURES SHALL BE MOUNTED AT 20'-0" A.F.G., UNLESS OTHERWISE NOTED.
2. PROVIDE LUMINAIRES WITH HOUSE SIDE SHEILDS (HS) WHERE SHOWN.

LUMINAIRE SCHEDULE

Symbol	Label	Qty	Catalog Number	Description	File	Lumens	LLF	Watts
○	S3 S3-HS	5 2	SIG2-III-64VLED-NW-525	CAST METAL POST TOP FITTER AND UPPER HOUSING WITH CAST 4- POST METAL FRAME, 1 LED MODULE CONSISTING OF: 64 LEDS, VERTICAL BASE- UP POSITION, 1 CLEAR PLASTIC OPTIC BELOW EACH LED, CLEAR FLAT GLASS LENS.	SIG2-3-64VLED-NW-525.IES	Absolute	0.91	103
○	S4 S4-HS	2 2	SIG2-IV-64VLED-NW-525	CAST METAL POST TOP FITTER AND UPPER HOUSING WITH CAST 4- POST METAL FRAME, 1 LED MODULE CONSISTING OF: 64 LEDS, VERTICAL BASE- UP POSITION, 1 CLEAR PLASTIC OPTIC BELOW EACH LED, CLEAR FLAT GLASS LENS.	SIG2-4-64VLED-NW-525.IES	Absolute	0.91	103.1
○	S5	7	SIG2-V-SQ-64VLED-NW-525	CAST METAL POST TOP FITTER AND UPPER HOUSING WITH CAST 4- POST METAL FRAME, 1 LED MODULE CONSISTING OF: 64 LEDS, VERTICAL BASE- UP POSITION, 1 CLEAR PLASTIC OPTIC BELOW EACH LED, CLEAR FLAT GLASS LENS.	SIG2-5-64VLED-NW-525.IES	Absolute	0.91	103.1

STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
LEED Boundary	+	0.01 fc	0.03 fc	0.00 fc	N / A	N / A
LEED Boundary - 15'	+	0.01 fc	0.01 fc	0.00 fc	N / A	N / A
Parking Lot	+	1.6 fc	2.9 fc	0.4 fc	7.3:1	4.0:1

1 PHOTOMETRIC SITE PLAN
1" = 20'-0"

ENGINEERING MATRIX, INC.
CONSULTING ENGINEERS
2860 SCHERER DRIVE, SUITE 640
ST. PETERSBURG, FLORIDA 33716
(727) 573-4656 FAX(727) 573-3962 EMAIL: email@engmtx.com
CERT. OF AUTHORIZATION NO. 4288 EMI JOB NO. 16-0500
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2168 MAIN STREET
SARASOTA, FL 34237
T 941.952.0084
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FL AA26000857
SWEET SPARKMAN ARCHITECTS

NOT FOR CONSTRUCTION

PROJECT TITLE: SARASOTA COUNTY
VENICE LIBRARY
300 NOKOMIS AVENUE S, VENICE FL 34285

ISSUED FOR: SITE & DEVELOPMENT - 4TH SUBMISSION
5/5/17

REV	DESCRIPTION	DATE

GRAPHIC SCALE: 0" 1"

SCALE: AS INDICATED
PROJECT MANAGER: JSW
DRAWN BY: JSW
A/E OF RECORD: TMS/SPN
PROJECT NO: 16441

SHEET TITLE:
PHOTOMETRIC SITE PLAN

SHEET No.:
E1.2

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SOLID STATE AREA LIGHTING

PROJECT NAME:

FIXTURE TYPE:

SIGMA SERIES-LED

SPECIFICATIONS

HOUSING
Heavy cast low copper aluminum assembly (A356 alloy, <0.2% copper). Minimum wall thickness is .188". Traditional styling of the housing provided with cast aluminum housing top hinges for easy access.

VLED® OPTICAL MODULE
Low copper A356 alloy (<.2% copper) cast aluminum housing. Integrated clear tempered 3/16" glass lens sealed with a continuous silicone gasket protects emitters (LED's) and emitter Reflector-Prism optics, and seals the module from water intrusion and environmental contaminants. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Each emitter is optically controlled by a Reflector-Prism injection molded from H12 acrylic (3 types per module; one from 0° - 50°; one from 50° - 65°; one from 65° - 72°). Each Reflector-Prism has indexing pins for aiming and is secured to an optical plate made of matte black anodized aluminum. The optical plate locates every Reflector-Prism over an emitter. Reflector-Prisms are secured to the optical plate with a UV curing adhesive. The Reflector-Prisms are arrayed to produce IES Type II, III, IV, and V-SQ distributions. The entire Optical Module is field rotatable in 90° increments. Both module and drivers are factory wired using water resistant, insulated cord. Lens, module and drivers are field replaceable.

LED EMITTERS
High Output LED's are driven at 350mA for nominal 1 Watt output each. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

LED DRIVER
UL and CUL recognized High Power Factor, Constant Current LED drivers operate on input voltages from 120-277VAC, 50/60hz. Consult Factory for 347-480VAC. Driver is mechanically fastened to a retaining bracket. Main power quick disconnect provided. Driver has a minimum 4KV of internal surge protection, 10KV & 20KV Surge Protector optional. Dimming and High-Low Driver options available.

FINISH
Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability. Texture finish is standard.

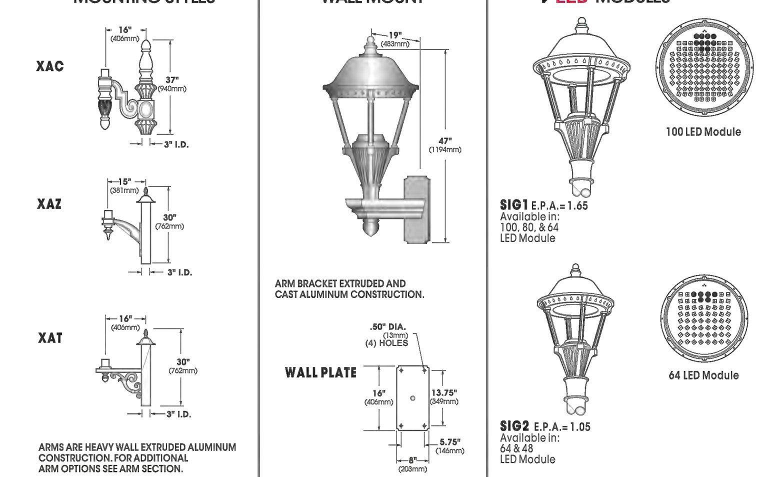
Fitter supplied to fit over 2 7/8" X 3" (73mm X 76mm) tennon.

FIXTURE	A	B
SIG1	24" 610mm	37" 940mm
SIG2	18.5" 470mm	28" 711mm

U.L. Listed for wet location — MADE IN THE USA — 2016019

SIGMA SERIES - LED

SPECIFICATIONS



ORDERING INFORMATION

LUMINAIRE	OPTICS	LED			MOUNTING	FINISH	OPTIONS
LUMINAIRE	VLED® IES DISTRIBUTION TYPE	No. LEDs	COLOR	VOLTAGE	ARM MOUNT	STANDARD TEXTURED FINISH	
☐ SIG1	☐ VLED - II (Type-II)	SIG1	☐ NW (4000K)* *STANDARD	☐ 120	☐ PT	☐ BLACK RAL-9005-T	☐ INTERNAL HOUSE SIDE SHIELDS . . . HS
☐ SIG2	☐ VLED - III (Type-III)	☐ 100LED (110 Watts)	☐ CW (5000K)	☐ 208	☐ 1	☐ WHITE RAL-9003-T	☐ EXTERNAL HOUSE SIDE SHIELD . . . EHS
	☐ VLED - IV (Type-IV)	☐ 80LED (89 Watts)	☐ WW (3000K)	☐ 240	☐ 2-180	☐ GREY RAL-7004-T	☐ DIMMABLE DRIVER(S) (0-10V) . . . DIM
	☐ VLED - VSQ (Type-VSQ)	☐ 64LED (72 Watts)	OTHER LED COLORS AVAILABLE CONSULT FACTORY	☐ 277	☐ 2-90	☐ DARK BRONZE RAL-8019-T	☐ HIGH-LOW DIMMING FOR HARDWIRED SWITCHING OR NON-INTEGRATED MOTION SENSOR . . . HLSW
		SIG2		☐ 347	☐ 3-90	☐ GREEN RAL-6005-T	☐ PHOTO CELL + VOLTAGE (EXAMPLE: PC120V) . . . PC+V
		☐ 64LED (72 Watts)		☐ 480	☐ 3-120	FOR SMOOTH FINISH REMOVE SUFFIX "T" (EXAMPLE: RAL-9500)	☐ 10KV SURGE PROTECTOR . . . 10SP
		☐ 48LED (53 Watts)			☐ 4-90	SEE USALTG.COM FOR ADDITIONAL COLORS	☐ 20KV SURGE PROTECTOR (277V & 480V Only) . . . 20SP
		Wattages are Max Input Watts			WALL MOUNT ☐ WM		
					SEE SUN VALLEY CATALOG FOR ADDITIONAL ARMS		

LUMINAIRE - PRODUCT DATA

NO SCALE

THE GRANDVIEW SERIES

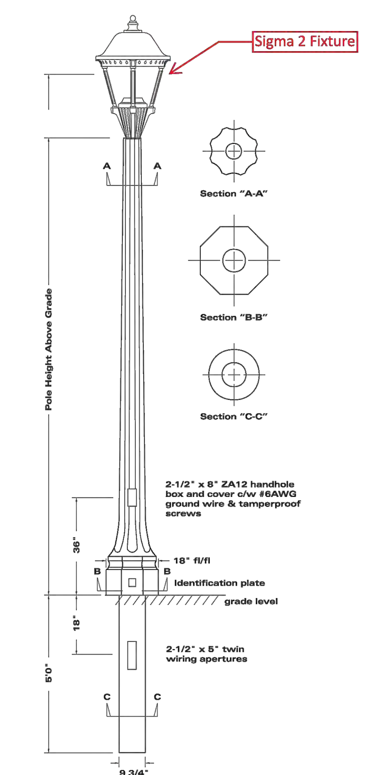
GR

TYPICAL POLE DETAIL

CROSS SECTION

FLUTED

Dark Bronze - Etched



PLEASE FILL IN CODE: GR POLE STYLE - OVERALL HEIGHT - CLASS - FINISH - COLOUR - FIXTURE MOUNT - Select options as required: OPTION - OPTION - OPTION - OPTION

THE GRANDVIEW SERIES

PHYSICAL DETAILS

- Octagonal eight fluted symmetrical cross section.
- Standard taper of 9.5mm/metre (0.114"/foot).
- Standard mold, etched, exposed finishes are available in a variety of colours.
- Available in heights from 10 feet to 14 feet above grade.
- Will accept a variety of luminaire mounting styles.

GRANDVIEW SPECIFYING CHART

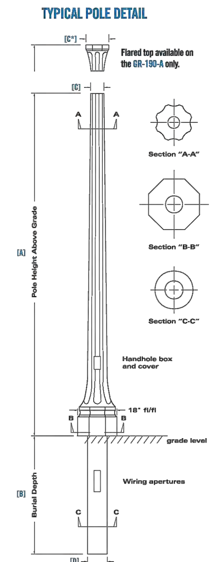
CLASS OF POLE	SPECIFYING POLE CODE [Style-Height-Class]	[A] POLE HEIGHT ABOVE GRADE [ft.]	[B] DIRECT BURIAL LENGTH [ft.]	[C] POLE TIP DIMENSION [in.]	[D] POLE BUTT DIAMETER [in.]	ULTIMATE GROUND LINE MOMENT [ft.lbs.]	NOMINAL POLE WEIGHT [lbs.]
A	GR-150-A	10	5	6 1/4	9 3/4	4800	1100
	GR-160-A	11	5	6	9 3/4	5400	1175
	GR-170-A	12	5	5 3/4	9 3/4	6000	1250
	GR-180-A	13	5	5 5/8	9 3/4	6600	1325
	GR-190-A	14	5	9 1/4*	9 3/4	7200	1400

NOTES: This chart outlines typical heights and class of poles for this style. Other sizes are available upon request. Pole height above grade based on recommended burial depth for normal soils. Ultimate ground line moment is calculated as follows: Height above grade minus 2 ft. times transverse bending strength. *** Only the 14 feet above grade height of pole is available with the flared top.**

The Grandview Series

The Grandview Series base detail

TYPICAL POLE DETAIL



CROSS SECTION

FLUTED

THE GRANDVIEW SERIES

Select SURFACE FINISH

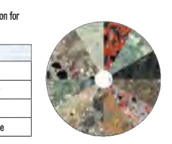
The Grandview Series is available with 3 types of surface finishes.

CODE	DESCRIPTION
1	Mold finish
N/A	~~Polished finish~~
3	Etched finish
4	Exposed finish

Select COLOUR

The Grandview Series is available in all 12 colours. Please visit our Colours & Finishes section for complete information. Custom colours are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AR	Autumn Red	DR	Desert Rose	OJ	Oriental Jade
AJ	Aztec Jade	DS	Desert Sand	SP	Salt & Pepper
BE	Black Eclipse	ML	Midnight Lace	SB	Seluki Bronze
DB	Dark Bronze	NG	Natural Grey	VW	Venetian White



EXAMPLE OF TYPICAL CATALOG NUMBER

GR (POLE STYLE Grandview) - 190 (OVERALL HEIGHT (x10) 19'0") - A (CLASS "A") - 3 (FINISH Etched) - ML (COLOUR Midnight Lace) - 30 (MOUNT Steel tenon Post Top) - Select options as required: B2 (OPTION Base Plate - Below Grade Stub) - L (OPTION Ladder Rest) - R (OPTION GFI Receptacle) - OPTION

Select FIXTURE MOUNT

The Grandview Series is available with 2 fixture mount options.

CODE	DESCRIPTION
30	Steel Tenon/Post Top
90	Custom Mount

Select OPTIONS & ACCESSORIES

The Grandview Series has 19 standard options and accessories to choose from. Please visit our Options & Accessories section for complete information. Custom accessories are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION
A	Aluminum Banner Arm	D2	Double Handhole Box with Inline Breaker
A1	Aluminum Banner Arm with Scroll	H	Flag Holder
A2	Aluminum Banner Arm with Flower Pot Holder	L	Ladder Rest
A3	Aluminum Banner Arm with Scroll and Flower Pot Holder	L1	Ladder Rest with Scroll
A4	Aluminum Breakaway Banner Arm	P	Interior Corrosion Protection
B	Base Plate - Flush with Bolts Exposed	R	GFI Receptacle
B1	Base Plate - Hidden Bolt Pockets	S	Base Shroud - Square
B2	Base Plate - Below Grade Stub	S1	Base Shroud - Round
C	Custom Accessory	X	Exterior Silane Sealer
D	Double Handhole Box		

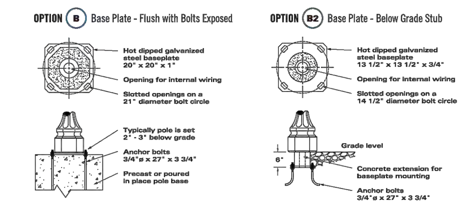
FOOTING DETAILS

DIRECT BURIAL
Standard and Cost Effective

1. Auger the appropriate size hole.
2. Set pole in hole and plumb straight.
3. Backfill with specified material, tamping every 6".

Note: Generally the native material can be used for backfill. Depending on site conditions, alternative materials may be required.

OPTION B Base Plate - Flush with Bolts Exposed — OPTION B2 Base Plate - Below Grade Stub



LUMINAIRE POLE - PRODUCT DATA

NO SCALE

LUMINARE PRODUCT DATA
NO SCALE

ENGINEERING MATRIX, INC.
CONSULTING ENGINEERS
2860 SCHERER DRIVE, SUITE 640
ST. PETERSBURG, FLORIDA 33716
(727) 573-4656 FAX:(727) 573-3902 EMAIL: email@engmtx.com
CERT. OF AUTHORIZATION NO. 4288 EMI JOB NO. 16-0500
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SWEET SPARKMAN ARCHITECTS
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FL AA26000857

N

NOT FOR CONSTRUCTION

PROJECT TITLE: SARASOTA COUNTY VENICE LIBRARY
300 NOKOMIS AVENUE S, VENICE FL 34285

ISSUED FOR: SITE & DEVELOPMENT - 4TH SUBMISSION
5/5/17

REV	DESCRIPTION	DATE

GRAPHIC SCALE: 0" 1"

SCALE:	AS INDICATED
PROJECT MANAGER:	JSW
DRAWN BY:	DRJK
A/E OF RECORD:	TMS/SPN
PROJECT NO:	16441

SHEET TITLE:
LUMINAIRE PRODUCT DATA

SHEET No.:
E1.2.1

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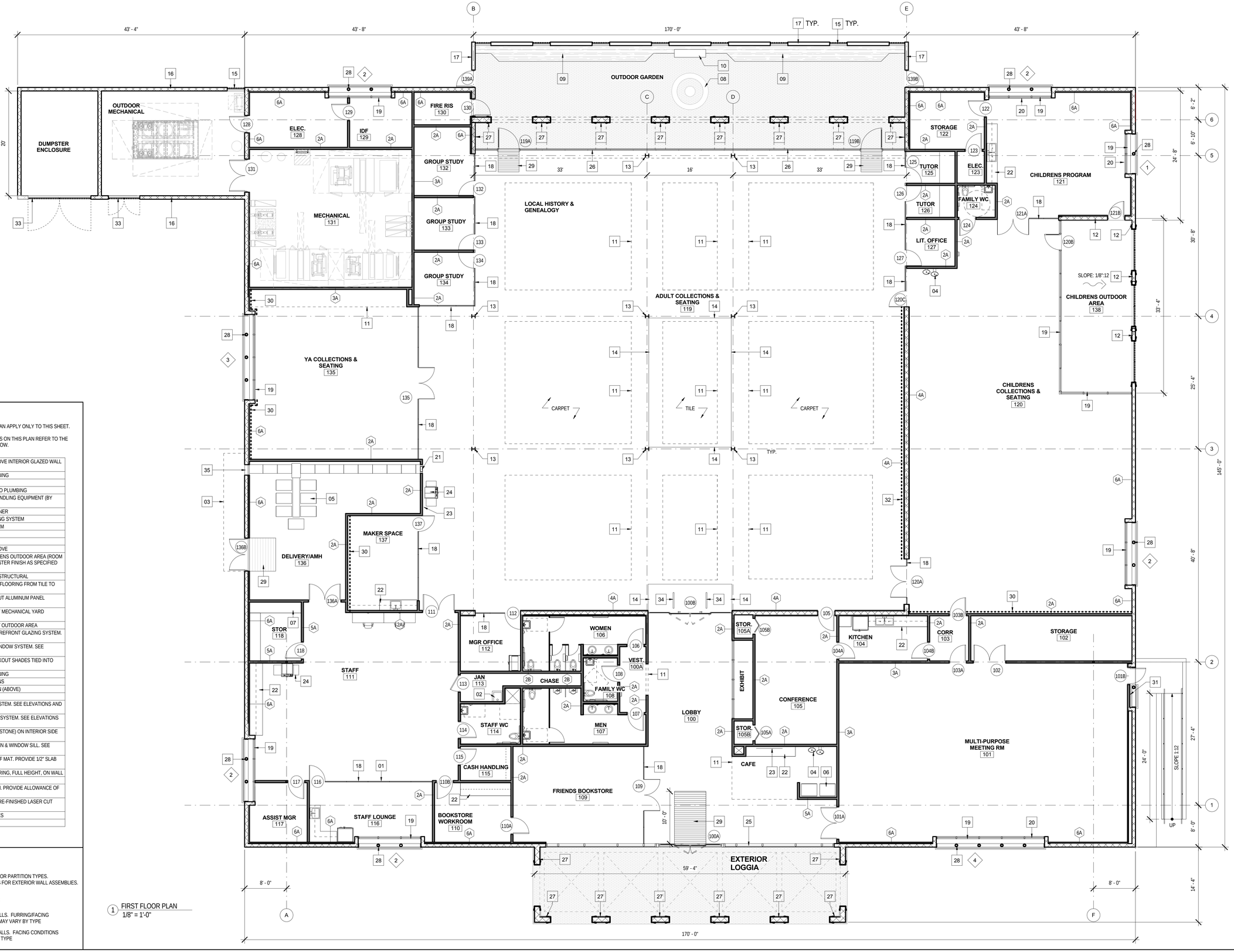

1 FIRST FLOOR PLAN
1/8" = 1'-0"

SHEET NOTES:

X → NOTES ON THIS PLAN APPLY ONLY TO THIS SHEET.

ALL "BOXED" NOTES ON THIS PLAN REFER TO THE DRAWING LIST BELOW.

01	PROVIDE TYPE 2A WALL ABOVE INTERIOR GLAZED WALL SYSTEM
02	MOP SINK. REFER TO PLUMBING
03	CANOPY ABOVE
04	WATER FOUNTAIN. REFER TO PLUMBING
05	AUTOMATED MATERIALS HANDLING EQUIPMENT (BY OWNER)
06	VENDING MACHINES BY OWNER
07	16" DEEP LAMINATE SHELVING SYSTEM
08	EXTERIOR FOUNTAIN SYSTEM
09	LANDSCAPE BED
10	BENCH
11	LINE OF CEILING/SOFFIT ABOVE
12	MASONRY WALLS IN CHILDRENS OUTDOOR AREA (ROOM 138) TO RECEIVE SAME PLASTER FINISH AS SPECIFIED FOR EXTERIOR WALLS.
13	STEEL COLUMN. REFER TO STRUCTURAL
14	LINE INDICATES CHANGE IN FLOORING FROM TILE TO CARPET
15	1/4" PRE-FINISHED LASER CUT ALUMINUM PANEL SCREEN SYSTEM
16	8' HIGH MASONRY WALLS AT MECHANICAL YARD ENCLOSURE, NO ROOF
17	8' HIGH MASONRY WALLS AT OUTDOOR AREA
18	'FRAMELESS' INTERIOR STOREFRONT GLAZING SYSTEM. SEE ELEVATIONS
19	EXTERIOR STOREFRONT WINDOW SYSTEM. SEE ELEVATIONS
20	PROVIDE MOTORIZED BLACKOUT SHADES TIED INTO CRESTRON CONTROLLER
21	INTERIOR BOOK DROP OPENING
22	CASEWORK. SEE ELEVATIONS
23	DIGITAL MONITOR LOCATION (ABOVE)
24	COPIER (BY OWNER)
25	CURTAIN WALL GLAZING SYSTEM. SEE ELEVATIONS AND SPECIFICATIONS
26	FRAMELESS IMPACT GLASS SYSTEM. SEE ELEVATIONS AND SPECIFICATIONS
27	3/4" STONE VENEER (CORALSTONE) ON INTERIOR SIDE OF LOGGIA STRUCTURE
28	DECORATIVE STONE COLUMN & WINDOW SILL. SEE OPENING DETAIL
29	ABRASIVE ACTION WALK-OFF MAT. PROVIDE 1/2" SLAB DAP-OUT
30	KNOLL TEXTILE WALL COVERING, FULL HEIGHT, ON WALL
31	STONE VENEER
32	WOOD ACCENT WALL FINISH. PROVIDE ALLOWANCE OF $10,500 (350 SF @ $30/SF)
33	MANUAL GATES WITH 1/4" PRE-FINISHED LASER CUT PANEL SCREEN SYSTEM
34	SECURITY DETECTION GATES
35	EXTERIOR BOOK DROP

WALL LEGEND

X-X — REFER TO A0.2 FOR INTERIOR PARTITION TYPES. REFER TO WALL SECTIONS FOR EXTERIOR WALL ASSEMBLIES.

CONC WALLS

NEW CMU WALLS. FURRING/FACING CONDITIONS MAY VARY BY TYPE

NEW STUD WALLS. FACING CONDITIONS MAY VARY BY TYPE

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F 941.952.0201
FL AA26000857

SWEET SPARKMAN ARCHITECTS

TODD M. SWEET
AR.0015832

N

NOT FOR CONSTRUCTION

PROJECT TITLE: SARASOTA COUNTY
VENICE LIBRARY
300 NOKOMIS AVENUE S. VENICE FL 34285

ISSUED FOR: SITE & DEVELOPMENT - SECOND SUBMISSION
3/10/17 (4TH SUBMISSION - 5/5/17 - NO CHANGES)

REV	DESCRIPTION	DATE

GRAPHIC SCALE: 0" 1"

SCALE:	As indicated
PROJECT MANAGER:	JWB
DRAWN BY:	JWB/PKL/KJP
A/E OF RECORD:	TMS
PROJECT NO:	16441

SHEET TITLE:

FIRST FLOOR PLANS & LEGENDS

SHEET No.:

A2.1

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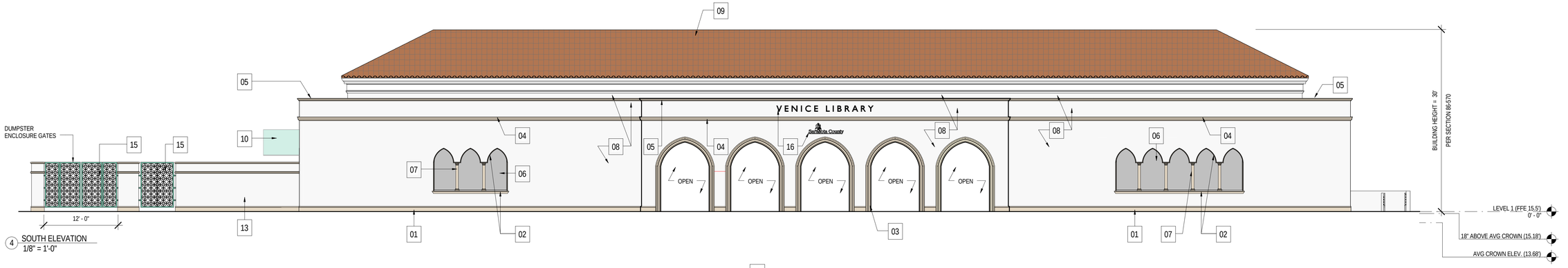
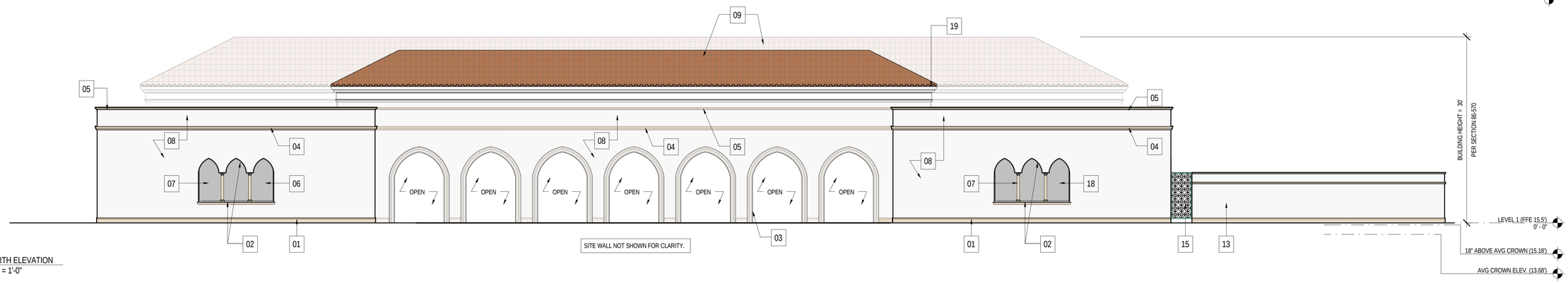
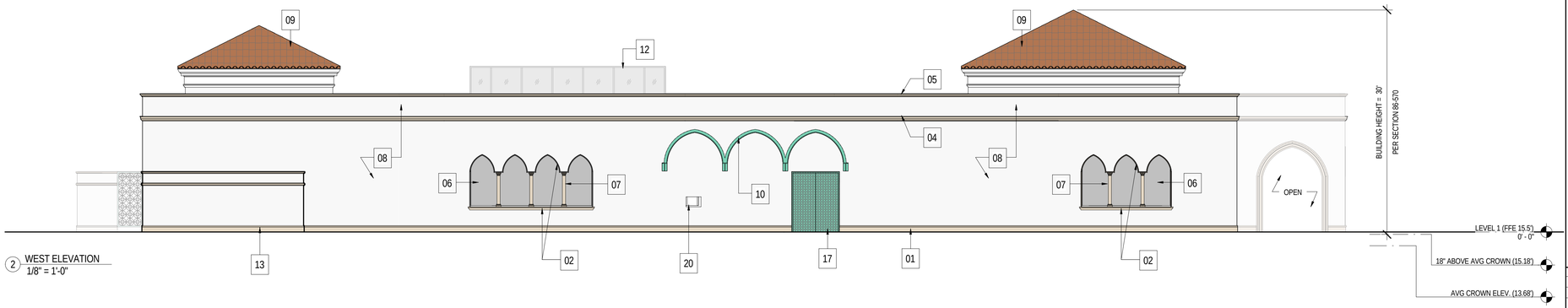


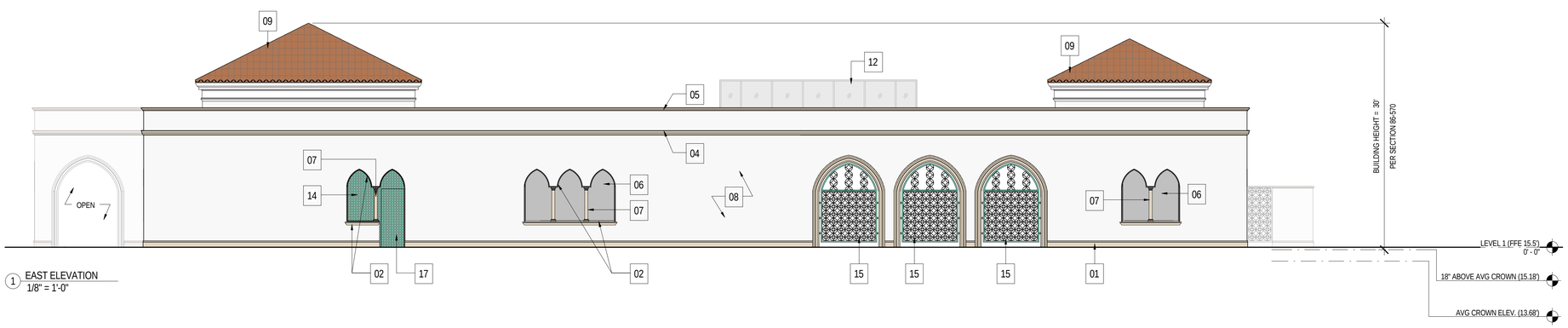
4 SOUTH ELEVATION
1/8" = 1'-0"



3 NORTH ELEVATION
1/8" = 1'-0"



2 WEST ELEVATION
1/8" = 1'-0"



1 EAST ELEVATION
1/8" = 1'-0"

NOTE: BUILDING HEIGHT IS DEFINED PER THE CITY OF VENICE CODE OF ORDINANCES SECTION 86-570. CRITERIA APPLICABLE TO THIS BUILDING MEASURES THE VERTICAL DISTANCE FROM 18 INCHES ABOVE THE ELEVATION OF THE AVERAGE CROWN OF THE ADJACENT ROADS.
AVERAGE CROWN ELEVATION = 13.68'

ELEVATION NOTES

1. STONE VENEER BASE (10").
2. STONE VENEER WINDOW SURROUND & WINDOW SILL.
3. STONE VENEER JAMB TRIM.
4. STONE VENEER WALL TRIM.
5. DECORATIVE STONE PARAPET CAP.
6. STOREFRONT GLAZING SYSTEM.
7. DECORATIVE STONE COLUMN.
8. INTEGRALLY COLORED ACRYLIC STUCCO FINISH, SMOOTH (COLOR - SW 7008).
9. CLAY TILE ROOF SYSTEM.
10. PREFINISHED ALUM. CANOPY ROOF SYSTEM BEYOND (COLOR - PANTONE 338C).
11. PREFINISHED ALUM. CANOPY ROOF SYSTEM (COLOR - PANTONE 338C).
12. SKYLIGHT SYSTEM BEYOND .
13. MECHANICAL YARD ENCLOSURE WALLS.
14. CUSTOM VENEER FINISH AT DOOR INSET.
15. PREFINISHED LASER-CUT ALUM. SCREEN PANELS (COLOR - PANTONE 338C).
16. ALUM SIGNAGE ON STANDOFFS.
17. CUSTOM VENEER FINISH ON EXTERIOR HM DOOR.
18. STOREFRONT GLAZING SYSTEM WITH SPANDREL GLASS.
19. COPPER GUTTER.
20. BOOK DROP.

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T 941 952 0084
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SWEET SPARKMAN ARCHITECTS

TODD M. SWEET
AR 0015832

NOT FOR CONSTRUCTION

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VENICE LIBRARY
300 NOKOMIS AVENUE S, VENICE FL 34285

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REV	DESCRIPTION	DATE

GRAPHIC SCALE: 0" 1"

SCALE:	1/8" = 1'-0"
PROJECT MANAGER:	JWB
DRAWN BY:	JWB/PKL/KJP
A/E OF RECORD:	TMS
PROJECT NO:	16441

SHEET TITLE:
EXTERIOR ELEVATIONS

SHEET No.:
A5.1

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