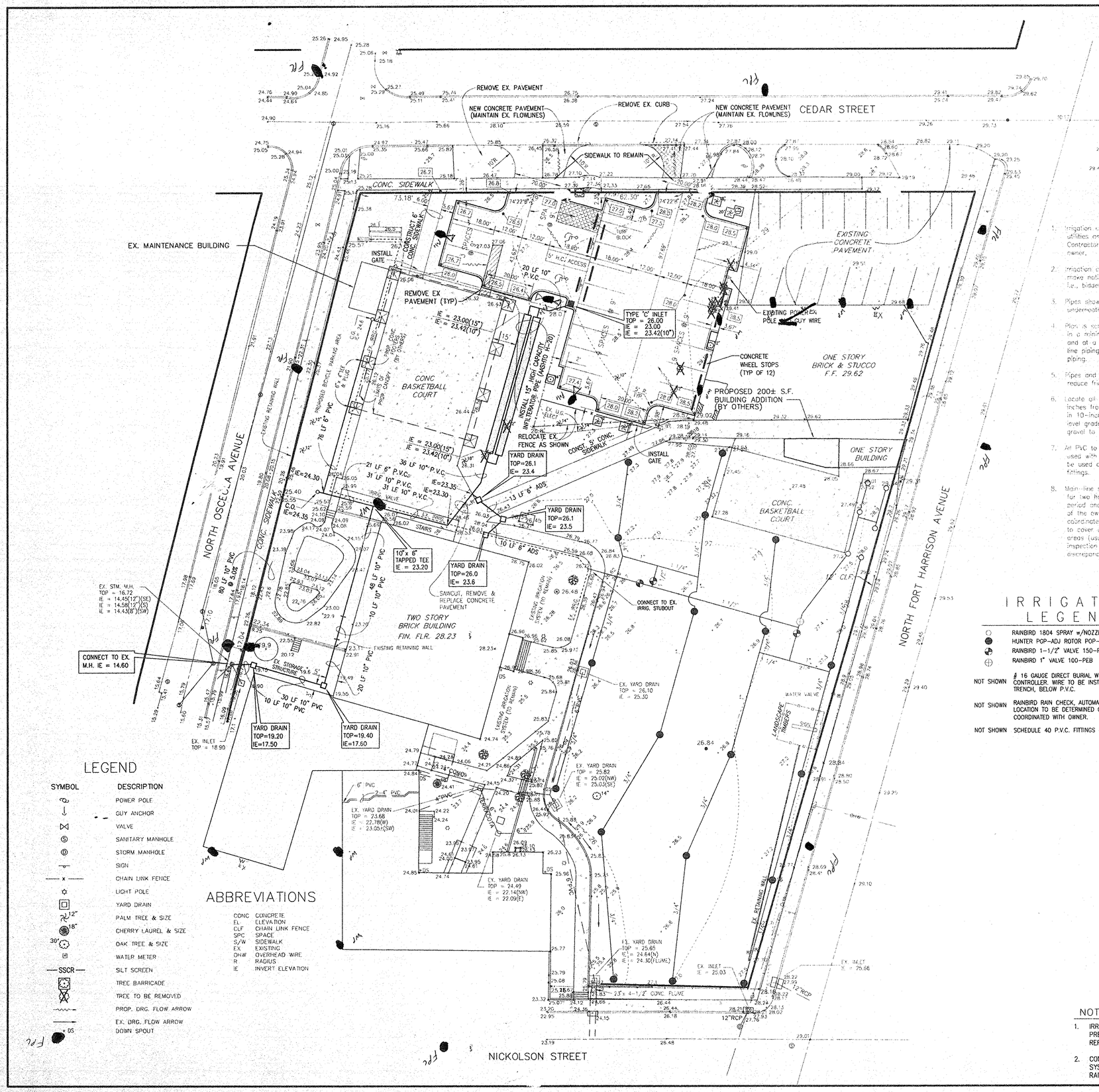

IRRIGATION NOTES

1. Irrigation contractor shall verify existing location of all utilities and conditions prior to commencement of the work. Contractor to repair any damage caused to same at no cost to owner.
2. Irrigation contractor shall visit the site prior to bid and make notification of any potential discrepancies prior to bid, i.e., bidder to be satisfied with plan and conditions.
3. Pipes shown under concrete walks, etc. shall be jetted underneath.
4. Plan is schematic in nature. Zone piping shall be installed in a minimum number of trenches, in sod areas where possible, and at a depth allowing at least 12-inches of cover. Main-line piping shall be installed in a separate trench from zone piping.
5. Pipes and valves have been oversized at certain locations to reduce friction loss.
6. Locate all electric valves in sod areas no closer than 18-inches from walkways/driveways, etc. All valves to be placed in 10-inch AMETEK valve boxes with cover and installed at level grade with sod. 4-inches of 1/2-inch to 1-inch pea gravel to be installed in each valve box.
7. All PVC to be ASTM D1785, Schedule 40. Clear PVC cement to be used with colored primer used on each joint. Teflon tape to be used on all threaded fittings, including sprinkler fittings.
8. Main-line shall be hydrostatically pressure tested at 100 PSI for two hours with no more than 5 lbs. loss during the test period and shall be observed by an authorized representative of the owner prior to cover up. The contractor shall coordinate other inspections with owner's representative prior to cover up. Contractor shall uncover a reasonable amount of areas (usually 5) at inspector's request, should any inspection find discrepancies. Contractor to re-finish any discrepancies at no cost to owner.
9. Contractor shall protect existing trees during installation.
10. Water source to be a 1-1/2-inch water meter. Exact location of meter may change from location shown on drawing.
11. Irrigation installation shall meet all applicable City/County codes. Should City/County code require additional specifications than stated in plan or notes, it shall be irrigation contractor's responsibility to be familiar with such and to bid accordingly.
12. All rotor heads to be installed on 12-inches of schedule 80 flex pipe. Mist heads to be installed on poly cut-off nipples. All heads to be set level with final grade and/or left high enough to be level after sod installed. Heads to be adjusted to provide coverage to appropriate areas with minimum water on buildings and walkways.
13. All fittings to be ASTM, D1785, Schedule 40.
14. All wiring from electric valves to controller to be #16 Type HW AWG. All connections to be with weatherproof connectors, such as pen-lite or equal.
15. All quantities shown on the drawings are shown to indicate volume of work. It shall be the responsibility of the bidder to be satisfied as to the accuracy of the plan by visiting the site prior to bidding. Any discrepancies shall be brought to the attention of the appropriate persons prior to bid.
16. Contractor to guarantee material and workmanship for one year from completion date.
17. Contractor to furnish owner with one reproducible as-built of the irrigation system upon completion.
18. Operational testing shall be performed after job is complete. Contractor shall demonstrate to owner's representative that system provides 100% coverage to appropriate areas and that the automatic controls operate properly. Any defects found during any inspection shall be corrected by the contractor at no additional cost to the owner.

IRRIGATION LEGEND

- RAINBIRD 1804 SPRAY w/NOZZLE
- HUNTER POP-ADJ ROTOR POP-UP
- RAINBIRD 1-1/2" VALVE 150-PEB
- RAINBIRD 1" VALVE 100-PEB

NOT SHOWN — # 16 GAUGE DIRECT BURIAL WIRE FROM VALVES TO CONTROLLER. WIRE TO BE INSTALLED IN MAIN-LINE TRENCH, BELOW P.V.C.

NOT SHOWN — RAINBIRD RAIN CHECK, AUTOMATIC RAIN SHUTOFF. LOCATION TO BE DETERMINED ON-SITE AND COORDINATED WITH OWNER.

NOT SHOWN — SCHEDULE 40 P.V.C. FITTINGS

GENERAL NOTES:

1) ALL CONSTRUCTION SHALL CONFORM TO STATE AND LOCAL CODES.
2) THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS.
3) CONTRACTOR SHALL LOCATE THE PROPERTY CORNERS AND VERIFY THE RIGHT-OF-WAY BEFORE STARTING WORK.
4) ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM (NGVD). SPOT ELEVATIONS ARE BASED ON A TOPOGRAPHIC SURVEY PREPARED BY EMK CONSULTANTS OF FLORIDA, INC. WHICH DOES NOT REFLECT LAND ALTERATIONS WHICH MAY HAVE OCCURRED SINCE THAT TIME.
5) THE LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AS SHOWN AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF THE UTILITIES PRIOR TO CONSTRUCTION IN THEIR VICINITY. THE CONTRACTOR SHALL NOTIFY ALL CONCERNED PUBLIC AGENCIES AND UTILITY COMPANIES IN THE AREA BEFORE BEGINNING CONSTRUCTION, INCLUDING "CANDY" AT 1-800-282-8881.
6) PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL EXPOSE ALL EXISTING UTILITIES TO BE EXTENDED OR CROSSED AND CONTACT THE ENGINEER AT 888-8900 FOR VERIFICATION OF THEIR LOCATION AND ELEVATION. ANY CONFLICTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION.
7) THE CONTRACTOR IS TO EXERCISE EXTREME CAUTION IN THE VICINITY OF TREES TO REMAIN AND IS RESPONSIBLE FOR ANY DAMAGE RESULTING FROM HIS WORK.
8) ALL DESIGN AND CONSTRUCTION MUST CONFORM TO THE MINIMUM STANDARDS SET FORTH IN CITY OF CLEARWATER TECHNICAL STANDARDS.
9) ANY HEDGE MATERIAL TO BE DISTURBED SHALL BE POTTED AND REPLANTED OR REPLACED BY A LANDSCAPE CONTRACTOR.
10) ALL SITE AREAS WITHIN THE PROPERTY LIMITS, UNLESS PAVED OR INCLUDED IN LANDSCAPE BEDS SHALL BE CLEARED, GRUBBED, GRADED WHERE NECESSARY AND SODDED WITH BAHIA SOD.
11) THE CONTRACTOR SHALL KEEP RECORD DRAWINGS OF THE WORK AND SUBMIT ONE COPY OF SAME TO THE ENGINEER PRIOR TO FINAL PAYMENT.
12) THE CONTRACTOR SHALL DIRECT ALL DRAINAGE AWAY FROM ALL BUILDINGS.

LEGEND

SYMBOL	DESCRIPTION
	POWER POLE
	GUY ANCHOR
	VALVE
	SANITARY MANHOLE
	STORM MANHOLE
	SIGN
—x—	CHAIN LINK FENCE
	LIGHT POLE
	YARD DRAIN
12"	PALM TREE & SIZE
18"	CHERRY LAUREL & SIZE
30"	OAK TREE & SIZE
	WATER METER
—SSCR—	SILT SCREEN
	TREE BARRICADE
	TREE TO BE REMOVED
	PROP. DRG. FLOW ARROW
	EX. DRG. FLOW ARROW
DS	DOWN SPOUT

ABBREVIATIONS

CONC	CONCRETE
EL	ELEVATION
CLF	CHAIN LINK FENCE
SPC	SPACE
S/W	SIDEWALK
EX	EXISTING
OHW	OVERHEAD WIRE
R	RADIUS
IE	INVERT ELEVATION

NOTES:

1. IRRIGATION SHOWN WAS OBTAINED FROM PLANS PREPARED BY CENTURY RAINAID AND DOES NOT REPRESENT COMPLETE SYSTEM.
2. CONTRACTOR SHALL CONSTRUCT THE IRRIGATION SYSTEM FROM PLANS PREPARED BY CENTURY RAINAID.

BENCHMARK:

DISK STAMPED W1031943 15.5' S. OF CENTERLINE OF PALM BLUFF STREET, 30' W. OF CENTERLINE OF F.T. HARRISON AVE. (MAP No. 136) ELEV. 31.114

EMK CONSULTANTS of FLORIDA, INC.
7815 N. Dale Mabry
Tampa, Florida 33614
Ph. (813) 931-8900
ENGINEERS • SURVEYORS • LAND PLANNERS
FLORIDA PROFESSIONAL ENGINEER No.

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No.	DESCRIPTIONS	DATE	BY
	REVISIONS		

PRELIMINARY SITE PLAN

NORTH WARD ELEMENTARY
PINELLAS COUNTY, FLORIDA

DESIGNED BY:	EMK
DRAWN BY:	EMK
CHECKED BY:	HDM
SCALE: 1"=20'	DATE: 5/96
CAD FILE:	SHT3.DWG
JOB NUMBER:	30422.04
SHEET	3 of 4

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