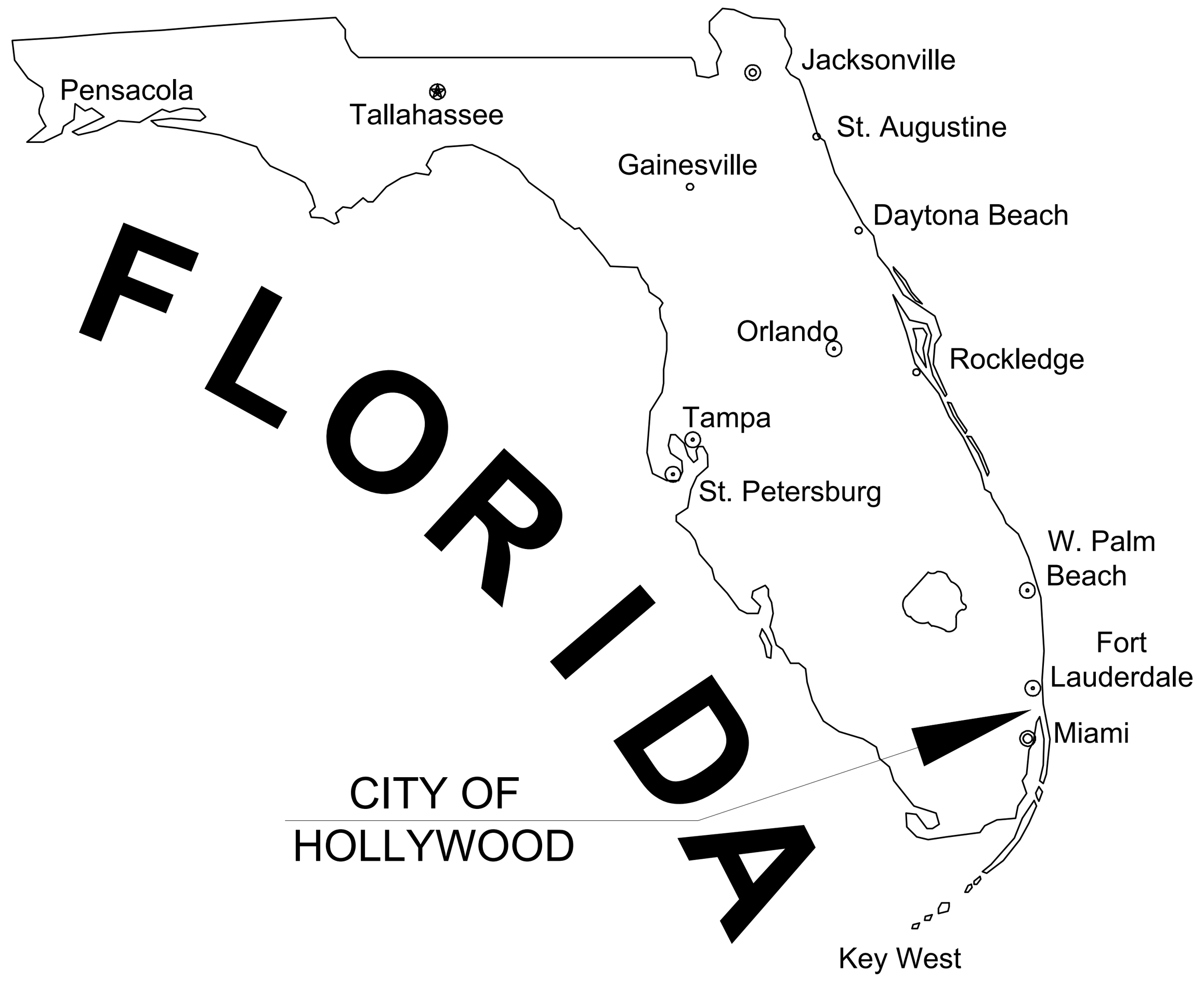
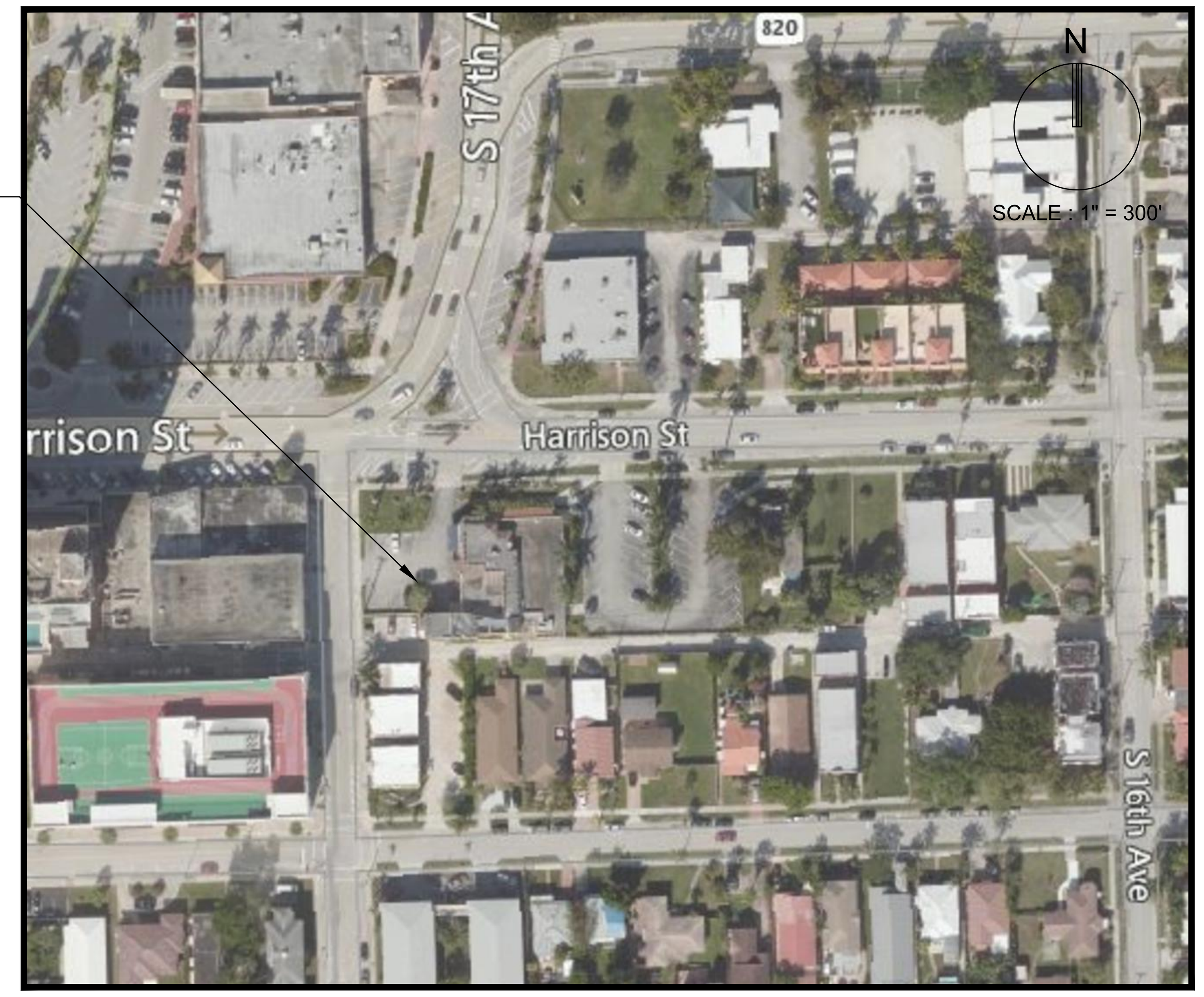
CITY OF HOLLYWOOD
ARTS AND CULTURE CENTER

1650 HARRISON STREET
CITY OF HOLLYWOOD,
BROWARD COUNTY, FLORIDA 33020



SITE LOCATION



LOCATION MAP

SECTION 15, TOWNSHIP 51 S, RANGE 42 E

FOLIO #514215023480

INDEX OF SHEETS		
Sheet Sequence No.	Sheet Identification	Sheet Title
	--	COVER
1	GI-001	LEGEND
2	GI-002	CONSTRUCTION SPECIFICATIONS
3	GI-003	GENERAL NOTES
4	CG-101	EROSION AND SEDIMENTATION CONTROL PLAN
5	CD-101	DEMOLITION PLAN
6	CP-101	PAVING, GRADING AND DRAINAGE PLAN
7-8	CP-501-CP-502	PAVING, GRADING AND DRAINAGE DETAILS
9	CU-101	WATER AND SEWER PLAN
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12	CM-101	PAVING, MARKING AND SIGNAGE PLAN
13	CM-501	PAVING, MARKING AND SIGNAGE DETAILS

PERMIITTING AGENCIES	PERMIT NO.	EXPIRES
CITY OF HOLLYWOOD	XXXXXXXXXX	XX/XX/XX
BROWARD COUNTY XXXXX		

LAND DESCRIPTION:

LOTS 21, 22, 23, 24, 25, 26, 27, 28, 29, AND 30 OF BLOCK 71, OF THE TOWN OF HOLLYWOOD, ACCORDING TO THE PLAT THEREOF, RECORDED IN PLAT BOOK 1, PAGE 21 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

SAID LANDS LYING IN THE CITY OF HOLLYWOOD, BROWARD COUNTY FLORIDA, CONTAINING 51,753 SQUARE FEET (1.2 ACRES), MORE OR LESS.

RELATIONSHIP BETWEEN NGVD 1929 AND NAVD 1988

DATUM	DIFFERENCE	ELEV.
NGVD 1929	+1.60 FEET	1.60'
NAVD 1988		0.00'

ALL ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NAVD 1988 DATUM

FEMA FLOOD ZONE:

THE PROPERTY IS LOCATED WITHIN FLOOD ZONES X AND AE WITH A BASE FLOOD ELEVATION OF 0 AND 6 FEET, AS SHOWN ON F.I.R.M. NUM. 12011C0569H, BEARING A MAP EFFECTIVE DATE OF 8/18/2014.

THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

PREPARED FOR:
CITY OF HOLLYWOOD

KEITH
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400
State of Florida Certificate of Authorization Number - 7928

PROJECT No. 10842.00
AUGUST 18, 2020

THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

General Symbols

Existing	Proposed	Description
℄ B	℄ B	Centerline & Baseline of Survey or Construction
		Building Access (ADA)
		Building Access (NON-ADA)
A-1 24' WIDE	A-1 24' WIDE	Driveway Turnout Identification (Per FDOT Index 515) w/ Drive Width
CR-A	CR-A	Sidewalk Curb Ramp (Per FDOT Index 304)
		Proposed Section Marker
		Flag Pole
		GPS Point
		Hay Bales
		Mail Box
5.00	5.00	Major Contour Elevation
5.20	5.20	Minor Contour Elevation
		Parking Meter
		Property Line
	14.48	Grade Elevation
	14.98 14.48	Top Of Curb Elevation/Pavement Elevation
		Soil Test Boring Hole
B.M. NO. 112	B.M. NO. 112	Survey Bench Mark

Line Types

Existing	Proposed	Description
		County Bound
		Demolition Line
		Easement Line
		Property Line
		Limited Access Line/Non-Vehicular Access
		Railroad
		Right Of Way
		Canal Or Drainage Ditch
		Shore Line
		Tree Line
C_X	C	Aerial Communication Line
C_X	C	Underground Communication Line
SD_X	SD	Underground Storm Drain Line (Double Line 24" And Over
SS_X	SS	Underground Sanitary Line
E_X	E	Aerial Electric Line
E_X	E	Underground Electric
W_X	W	Underground Water Line
NPW_X	NPW	Underground Non Potable Water Line
FM_X	FM	Underground Force Main
12'	12'	Gate
X X	X X	Chain Link Fence
		Wood Fence
X X	X X	Metal Rail Fence
SF	SF	Silt Fence
		Staked Turbidity Barrier
		Turbidity Barrier
		Guard Rail
		Roadway Centerline
		2 - 4 Skip
		3 - 9 Skip
		6- 10 Skip
		10 - 30 Skip
		10 - 10 - 20 Skip
		Curb
		Curb And Gutter

Landscaping

Existing	Proposed	Description
		Bush
		Tree
		Palm Tree

Paving and Grading

Existing	Proposed	Description
		Flow Directional Arrow
		Pavement Marking Arrows
		Stop Bar
		Concrete Sidewalk
		Jogging Path
		Pavement Area
		Existing Pavement/Concrete/ Landscape Removal Area
		Milling And Resurfacing
		Detectable Warning (Truncated Domes) Per Florida Accessibility Code
		Soil Tracking Prevention Device

Drainage / Utilities

Existing	Proposed	Description
CB	CB	Catch Basin
		Yard Drain
CB	CB	Exfiltration Trench
CB	CB	Catch Basin With Filter Fabric Insert
		Curb Type 5
		Curb Type 6
		Pipe Culvert - Mitered End Section
		Pipe Culvert - Straight Endwall
		Pipe Culvert - U - Type Endwall
C E G D S	C E G D S	Manhole - Communication, Electric, Gas, Drn, San Sew
		Valve Box - Gas, San. Sew, Water, Non-Potable Water
		22.5 degree Bend
		45 degree Bend
		90 degree Bend
		Utility Crossing
		Fire Hydrant
		Proposed Bacteriological Sampling Point
PS#	PS#	Pump Station
GT	GT	Grease Trap
ST	ST	Septic Tank
DW	DW	Drainage Well
MW	MW	Monitoring Well
		Water Well
CO	CO	Sanitary Sewer Cleanout
BFP	BFP	Back Flow Preventor
J	J	Junction Box
E	E	Electric Handhole
ELEC	ELEC	Electric Meter
W	W	Water Meter
		Gate Valve
		Guy wire
		Light Pole
		Relocated Or Adjusted Light Pole
		Wood Power Pole
		Concrete Utility Pole
		Traffic Signal Pole (Concrete, Wood, Metal)
		Pedestrian Signal Head (Pole Or Pedestal Mounted)
		Post Mounted Sign
		Street Sign
		High Mast Lighting Tower
		Controller Cabinet (Base Mounted)
		Controller Cabinet (Pole Mounted)
		Traffic Signal Head (Span Wire Mounted)
		Traffic Signal Head (Pedestal Mounted)
		Traffic Signal Head (Mast Arm Mounted)
	N: 623025.4322 E: 850262.1786	Coordinate values shown on proposed improvements are relative to the coordinate values indicated on the Right-of-Way, property corners or reference monument

Abbreviations

	Abbreviations
General	
AADT	Annual Average Daily Traffic
ABAN	Abandon
ADJ	Adjust
APPROX.	Approximate
A.C.	Asphalt Concrete
ACCM PIPE	Asphalt Coated Corrugated Metal Pipe
BIT.	Bituminous
BC	Back Of Curb
BD.	Bound
BL	Baseline
BLDG	Building
BM	Benchmark
BO	By Others
BOS	Bottom Of Slope
BR.	Bridge
CAP	Corrugated Aluminum Pipe
CB	Catch Basin
CBCI	Catch Basin With Curb Inlet
CC	Cement Concrete
CCM	Cement Concrete Masonry
CEM	Cement
CI	Curb Inlet
CIP	Cast Iron Pipe
CLF	Chain Link Fence
CL	Centerline
CMP	Corrugated Metal Pipe
CO.	County
CONC	Concrete
CONT	Continuous
CONST	Construction
CR GR	Crown Grade
DHV	Design Hourly Volume
DI	Drop Inlet
DIA	Diameter
DIP	Ductile Iron Pipe
DWY	Driveway
ELEV (OR EL.)	Elevation
EMB	Embankment
EOP	Edge Of Pavement
EXIST (OR EX)	Existing
EXC	Excavation
F&C	Frame And Cover
F&G	Frame And Grate
FDN.	Foundation
FLDSTN	Fieldstone
GAR	Garage
GD	Ground
GI	Gutter Inlet
GIP	Galvanized Iron Pipe
GRAN	Granite
GRAV	Gravel
GRD	Guard
GV	Gate Valve
HDPE	High Density Polyethylene
HDW	Headwall
HMA	Hot Mix Asphalt
HOR	Horizontal
HYD	Hydrant
INV	Invert
JCT	Junction
L	Length Of Curve
LB	Leach Basin
LP	Light Pole
LT	Left
MAX	Maximum
MB	Mailbox
MEG	Match Existing Grade
MH	Manhole
MIN	Minimum
NIC	Not In Contract

Abbreviations Continued

NO.	Number
PC	Point Of Curvature
PCC	Point Of Compound Curvature
P.G.L.	Profile Grade Line
PI	Point Of Intersection
POC	Point On Curve
POT	Point On Tangent
PRC	Point Of Reverse Curvature
PROJ	Project
PROP	Proposed
PT	Point Of Tangency
PVC	Point Of Vertical Curvature
PVI	Point Of Vertical Intersection
PVT	Point Of Vertical Tangency
PVMT	Pavement
PWW	Paved Water Way
R	Radius Of Curvature
R&D	Remove And Dispose
RCP	Reinforced Concrete Pipe
RD	Road
RDWY	Roadway
REM	Remove
RET	Retain
RET WALL	Retaining Wall
ROW	Right Of Way
RR	Railroad
R&R	Remove And Reset
RT	Right
SHLD	Shoulder
SMH	Sewer Manhole
ST	Street
STA	Station
SSD	Stopping Sight Distance
SW	Sidewalk
T	Tangent Distance Of Curve/Truck %
TAN	Tangent
TEMP	Temporary
TC	Top Of Curb
TOS	Top Of Slope
TSV	Tapping Sleeve and Valve
TYP	Typical
UP	Utility Pole
VAR	Varies
VERT	Vertical
VC	Vertical Curve
WCR	Wheel Chair Ramp
WIP	Wrought Iron Pipe
WM	Water Meter/Water Main
X-SECT	Cross Section

PRELIMINARY PLAN
NOT FOR CONSTRUCTION

THESE PLANS ARE NOT FULLY PERMITTED AND ARE SUBJECT TO REVISIONS MADE DURING THE PERMITTING PROCESS. RESPONSIBILITY FOR THE USE OF THESE PLANS PRIOR TO OBTAINING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT WILL FALL SOLELY UPON THE USER.

CONCEPTUAL DESIGN	YYYY-MM-DD
SCHEMATIC DESIGN	YYYY-MM-DD
DESIGN DEVELOPMENT	YYYY-MM-DD
CONSTRUCTION DOCUMENTS	YYYY-MM-DD
PLAN CHECK SUBMITTAL	YYYY-MM-DD
PERMIT SET	YYYY-MM-DD
BID ISSUE	YYYY-MM-DD
CONSTRUCTION ISSUE	YYYY-MM-DD

THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

ART AND CULTURE CENTER EDUCATION FACILITY

1650 HARRISON STREET HOLLYWOOD, FL 33020

PROJECT NUMBER: 01924.0
KEITH PROJECT NUMBER: 10842.00

REVISIONS:
1 --
2 --
3 --
4 --
5 --
6 --

KEITH
301 East Atlantic Boulevard
Pompano Beach, FL 33060
PH: (954) 788-3400
Florida Certificate of Authorization # - 7928

SHEET TITLE: LEGENDS AND ABBREVIATIONS
SCALE: AS SHOWN
DATE PRINTED: 2021-01-04

BROOKS SCARPA
ARCHITECTURE
3929 W 139TH ST
HAWTHORNE, CA. 90250
t: 323.596.4700
f: 310.453.9606

General Notes

This construction project may or may not include all items covered by these notes and specifications, i.e. paving, grading, drainage lines, water lines, or sanitary sewer lines. See plans for detailed project scope. Notes and specifications on this sheet refer to paving, grading, drainage, water, and sanitary sewer, and are intended for this projects scope of work and for reference purposes for other work items that may be required due to unforeseen existing conditions or required remedial work.

1. Specific Site Notes

1.1. County and "City" in these notes refers to County and City in which project resides.

1.2. State in these notes refers to the State of Florida.

1.3. Existing topographic information in the plans is based on survey data and best available information. See project survey and notes on plan sheets regarding the source of the topographic information.

2. Applicable Codes

2.1. All construction and materials shall conform to the standards and specifications of the city, county, and all other jurisdictional, State and national codes where applicable.

2.2. In the event of a conflict between the general notes and construction specifications in these plans, and the contract documents and specifications in the specification booklet, the contractor shall submit written request for clarification.

2.3. All construction shall be done in a safe manner and in strict compliance with all the requirements of the Federal occupational safety and health act of 1970, and all State and jurisdictional safety and health regulations.

2.4. The contractor shall be required to comply with Federal, State, County, and City laws, codes, and regulations.

2.5. All handicap accessible areas to conform to the requirements of the Americans with Disabilities Act (ADA), State ADA codes, and Florida Building Code ADA codes latest edition.

2.6. Trench safety act

2.6.1. All trench excavation shall be performed in accordance with chapter 90–96 of the laws of Florida (the trench safety act).

2.6.2. All trench excavation in excess of 5 feet in depth shall be undertaken in accordance with O.S.H.A. standard 29 cfr. Section 1926.650 subpart p.

2.6.3. The contractor shall submit with his contract a completed, signed, and notarized copy of the trench safety act compliance statement. The contractor shall also submit a separate cost item identifying the cost of compliance with the applicable trench safety codes.

2.6.4. A trench safety system, if required, shall be designed by the excavation contractor utilizing a specialty engineer as required.

3. Construction Notes:

3.1. Contractor shall tie to existing grade by evenly sloping from closest proposed grade provided to existing grade at limits of construction, unless otherwise noted on the plans. If no limit of work line is indicated, slope to adjacent property line or right–of–way line, as applicable.

3.2. Unless otherwise indicated on the plans, all existing manholes, catch basins, meters and other structures, whether indicated on the plans or not shall be adjusted to match the new grade, by the contractor.

3.3. The curb shall be sloped to accommodate the new pavement, catch basin and grate, and the surface flow pattern.

3.4. The contractor shall use care when cutting the existing asphalt pavement and during excavations, so that the existing catch basins and grates that are to remain will not be damaged.

3.5. The contractor shall maintain the roadway slope when resurfacing the roadway. The edge of pavement shall match the new gutter lip per FDOT index 300.

3.6. The new sidewalk shall be constructed in accordance with the given elevations and at the proper slopes depicted in the specifications, details and standards. Existing driveways and other features shall be matched when possible as directed by the engineer.

3.7. Radii shown are to the edge of pavement.

3.8. All bench mark monuments within the limits of construction shall be protected and referenced by the contractor in the same way as public land corners.

3.9. All excess material is to be disposed by the contractor within 72 hours.

3.10. In areas where the base is exposed by the milling operation, the contractor shall restore the base to its original thickness and structural capacity before paving over such areas. This includes but is not limited to restoring original degree of compaction, moisture content, composition, stability, and intended slope. If paving will not take place the same day the base is exposed and reworked, the base shall be sealed according to the governing standards and specifications. Any additional work resulting from the contractor's failure to protect the exposed base as stated above in order to restore the original structural capacity shall be the contractor's cost.

3.11. The contractor is to maintain existing signage during construction operations, in order to facilitate emergency vehicle traffic.

3.12. The topographic survey included with this set of plans reflects pre–demolition conditions and does not reflect the site conditions after demolition. The contractor is fully and solely responsible in determining the required earthwork for the proposed development of the site. This includes, but is not limited to, any excavation/dredge and fill activities required at any phase of the project. The contractor shall use the final approved (released for construction) plans, surveys, geotechnical reports, and any other available information for determining the amount of excavation/dredging and filling required. Any quantities included in the approved permits were estimated by the engineer for purposes of obtaining the permit and under no circumstances shall be used by the contractor in lieu of performing their own earthwork calculations required for cost estimating and bidding the project.

3.13. The contractor shall be responsible for reading and familiarizing themselves with any and all available geotechnical reports prepared by others and/or any recommendations written or implied by the geotechnical engineer for this project. The geotechnical conditions and recommendations outlined in these reports are in force and in full effect as part of the proposed improvements. The contractor is responsible for ensuring that all the work associated with this project is in compliance with the geotechnical engineer's recommendations. Keith and Associates, Inc. is not responsible for the suitability or unsuitability of the soils encountered. It is the contractor's responsibility to ensure that the means and methods of construction used can and will allow for the successful completion of the required site improvements.

3.14. The contractor shall ensure that the available geotechnical information is sufficient for his complete understanding of the soil conditions for the site. If additional geotechnical investigation is required by the contractor, this additional work shall be considered incidental to the contract and no additional compensation shall be allowed.

3.15. The contractor shall be responsible for the repair and restoration of existing pavement, pipes, conduits, sprinkler heads, cables, etc., and landscaped areas damaged as a result of the contractor's operations and/or those of his subcontractors and shall restore at no additional cost.

3.16. The contractor shall not bring any hazardous materials onto the project. Should the contractor require such for performing the contracted work, the contractor shall request, in writing, permission from the owner, city and engineer. The contractor shall provide the owner, city and engineer with a copy of the material safety data sheet (MSDS) for each hazardous material proposed for use. The project engineer shall coordinate with the owner and city prior to issuing written approval to the contractor.

3.17. Any known or suspected hazardous material found on the project by the contractor shall be immediately reported to the city and/or engineer, who shall direct the contractor to protect the area of known or suspected contamination from further access. The city and/or engineer are to notify the owner/engineer of the discovery. The owner/engineer will arrange for investigation, identification, and remediation of the hazardous material. The contractor shall not return to the area of contamination until approval is provided by the engineer.

3.18. The contractor shall contact the appropriate city engineering inspector and engineer 48 hours in advance of the event to notify the city of construction start up, or to schedule all required tests and inspections including final walk–throughs.

4. Preconstruction Responsibilities

4.1. All utility / access easements to be secured prior to construction.

4.2. No construction may commence until the appropriate permits have been obtained from all municipal, State, County, and Federal agencies and a pre–construction meeting has been conducted.

4.3. All required governmental agency building permits to be obtained by the contractor prior to any construction activity.

4.4. Contractor to coordinate construction scheduling for connection to the existing water and sewer lines with the utility department that owns and/or maintains the water and sewer lines.

4.5. Prior to the start of construction, the owner shall submit an NPDES construction general permit (CGP) "notice of intent (N.O.I.) to use Generic Permit for storm water discharge from construction activities form (DEP form 62–621.300(4)(b)) to FDEP notices center. The contractor will be responsible for (1) implementation of the storm water pollution prevention plan (SWPPP) that was required to be developed prior to NOI submittal, and (2) retention of records required by the permit, including retention of a copy of the SWPPP at the construction site from the date of project initiation to the date of final site stabilization. A "notice of termination (N.O.T.) of generic permit coverage" form (DEP form 62–621.300(6)) must be submitted to FDEP to discontinue permit coverage, subsequent to completion of construction. For additional information see FDEP website: http://www.dep.state.fl.us/water/ storm water/npdes.

4.6. Prior to construction or installation, 5 sets of shop drawings shall be submitted for review as required for the following items listed below, but not limited to:

- Drainage: Catch basins, manholes, headwalls, grates/tops, yard drains.
- Water: Fire hydrants, valves, backflow preventer, DDCV, meter box.
- Sewer: Manholes, lift stations (wetwell, hatches, valves, pump data, electrical panel)

4.0.1. Catalogue literature shall be submitted for drainage, water and sewer pipes, fittings, and appurtenances.

4.0.2. Prior to submitting shop drawings to the engineer, the contractor shall review and approve the drawings, and shall note in red any deviations from the engineer's plans or specifications.

4.0.3. Individual shop drawings for all precast structures are required. Catalogue literature will not be accepted for precast structures.

4.7 Contractor to submit maintenance of traffic plan(s) in accordance with FDOT and County requirements, and submit for approval prior to beginning construction.

5. Inspections / Testing:

5.1. The contractor shall notify in writing the owner, City, County, engineer of record, and any other governmental agencies having jurisdiction at least 48 hours prior to beginning construction and prior to required inspections of the following items, where applicable:

- Clearing and earthwork
- Storm drainage systems
- Sanitary sewer systems
- Water distribution systems
- Subgrade
- Limerock base
- Asphalt or concrete pavement
- Sidewalks, concrete flatwork/curbing
- Landscaping
- Pavement marking and signage
- Signalization
- Site lighting
- Electrical and communication lines
- Utility conduits
- Irrigation
- Final

5.1. The owner, engineer, and jurisdictional permitting agencies may make inspections of the work at any time. The contractor shall cooperate fully with all inspections.

5.3. Testing – all testing required by the plans and specifications shall be performed by a licensed / FDOT qualified testing company. Required test for asphalt and limerock shall be taken at the direction of the engineer or the jurisdictional governmental agency in accordance with the plans and specifications.

6. Temporary Facilities

6.1. It shall be the contractor's responsibility to arrange for or supply temporary water service, sanitary facilities, communications, and electricity, for his operations and works, cost included under mobilization.

6.2. Contractor shall construct temporary fencing to secure construction areas at all times, cost included in mobilization.

6.3. Contractor to obtain a secure staging area and obtain all necessary approvals from the owner.

6.4. Contractor shall construct and maintain temporary lighting as required to light the construction project limits at all times, to at least the same lighting intensity levels as the existing conditions.

6.5. The contractor shall maintain access to adjacent properties at all times.

7. Project Progress and Closeout

7.1. During construction, the project site and all adjacent areas shall be maintained in a neat and clean manner, and upon final clean–up, the project site shall be left clear of all surplus material or trash. The paved areas shall be broom swept clean.

7.2. The contractor shall restore or replace any public or private property (such as highway, driveway, walkway, and landscaping), damaged by his work, equipment, or employees, to a condition at least equal to that existing immediately prior to the beginning of construction. Suitable materials and methods shall be used for such restoration.

7.3. Material or debris shall be hauled in accordance with NPDES permit and jurisdictional laws.

7.4. All land survey property monuments or permanent reference markers, removed or destroyed by the contractor during construction shall be restored by a State of Florida registered land surveyor at the contractor's expense.

7.5. All unpaved surfaces disturbed as a result of construction activities shall be graded, sodded, & restored to a condition equal to or better than that which existed before the construction.

8. Project record documents:

8.1. During the daily progress of the job, the contractor shall record on his set of construction drawings the location, length, material and elevation of any facility not built according to plans. This copy of the "as–built" shall be submitted to engineer for project record.

8.2. Upon completion of drainage improvements and limerock base construction (at least 48 hours before placing asphalt pavement) the contractor shall furnish the engineer of record "as–built" plans for these improvements, showing the locations and pertinent grades of all drainage installations and the finished rock grades of the road crown and edges of pavement at 50 foot intervals, including locations and elevations of all high and low points.

8.3. Upon completion of construction, and prior to final acceptance, the contractor shall submit to the engineer of record one complete set of all "as–built" contract drawings. These drawings shall be marked to show "as–built" construction changes, dimensions, locations, and elevations of all improvements.

8.4. "As–built" drawings of water lines and force mains shall include the following information:

8.4.1. Top of pipe elevations every 100 LF.

8.4.2. Locations and elevations of all fittings including bends, tees, gate valves, double detector check valves, fire hydrants, and appurtenances.

8.4.3. All connections to existing lines.

8.4.4. Ends of all water services at the buildings where the water service terminates.

8.5. "As–built" drawings of gravity sanitary sewer lines shall include the following information:

8.5.1. Rim elevations, invert elevations, length of piping between structures, and slopes.

8.5.2. The stub ends and cleanouts of all sewer laterals shall be located horizontally and vertically.

8.6. "As–built" drawings of all drainage lines shall include the following information:

8.6.1. Rim elevation, invert elevation, length of piping between structures, and control structure elevations if applicable.

8.6.2. The size of the lines.

8.6.3. Drainage well structure shall include, but not be limited to, top of casing elevation, top and bottom elevations of the structure and baffle walls, rim elevations and pipe inverts.

8.7. "As–built" drawings of construction areas shall include the following:

8.7.1. Rock elevations at all high, and low points, and at enough intermediate points to confirm slope consistency.

8.7.2. Rock elevations and concrete base elevations shall be taken at all locations where there is a finish grade elevation shown on the design plans.

8.7.3. All catch basin and manhole rim elevations.

8.7.4. Finish grade elevations in island areas.

8.7.5. "As–built" elevations shall be taken on all paved and unpaved swales, at enough intermediate points to confirm slope consistency and conformance to the plan details.

8.7.6. Lake and canal bank "as–built" drawings shall include a key sheet of the lake for the location of cross sections. Lake and canal bank cross sections shall be plotted at a minimum of every 100 lf, unless otherwise specified. "as–built" drawings shall consist of the location and elevation of the top of bank, edge of water, and the deep cut line, with the distance between each shown on the drawing.

8.7.7. Retention area "as–built" elevations shall be taken at the bottom of the retention area and at the top of bank. If there are contours indicated on the design plans, then they shall be included in "as–built" drawings as well.

8.8. Upon completion of the work, the contractor shall prepare "as–built" drawings on full size, 24" x 36" sheets. All "as–built" information shall be put on the latest engineering drawings. Eight (8) sets of blue or black line drawings shall be submitted. These drawings shall be signed and sealed by a Florida registered professional engineer or land surveyor.

8.9. An electronic copy of these "as–built" drawings shall be submitted to the engineer of record in AutoCAD, version 2008 or later.

9. Utility Notes

9.1. Contractor is responsible for utility verification prior to fabrication.

9.2. The contractor is advised that properties adjacent to the project have electric, telephone, gas, water and/or sewer service laterals which may not be shown in plans. The contractor must request the location of these lateral services from the utility companies.

9.3. The contractor shall use hand digging when excavating near existing utilities. Extreme caution shall be exercised by the contractor while excavating, installing, backfilling or compacting around the utilities.

9.4. The contractor shall notify and obtain an underground clearance from all utility companies and governmental agencies at least 48 hours prior to beginning any construction. The contractor shall obtain a Sunshine811.com Certification clearance number and field markings at least 48 hours prior to beginning any excavation.

- Prior to commencement of any excavation, the contractor shall comply with Florida statute 553.851 for the protection of underground gas pipelines.

9.1. For street excavation or closing or for alteration of access to public or private property, the contractor shall notify:

- Roadway jurisdictional engineering / public works authority.
- County transit authority
- School board transportation authority
- Jurisdictional fire department dispatch
- Jurisdictional police department(s)

9.1. The contractor shall use extreme caution working under, over, and around existing electric lines. The contractor shall contact the electric provider company to verify locations, voltage, and required clearances, onsite, in right–of–ways, and in easements, prior to any construction in the vicinity of existing lines.

9.2. Location and size of all existing utilities and topography (facilities) as shown on construction drawings are drawn from available records. The engineer assumes no responsibility for the accuracy of the facilities shown or for any facility not shown. It is the contractor's responsibility to determine the exact location (vertical & horizontal) of any existing utilities and topography prior to construction. The contractor shall verify the elevations and locations of all existing facilities, in coordination with all utility companies, prior to beginning any construction operations. If an existing facility is found to conflict with the proposed construction, the contractor shall immediately notify the engineer so that appropriate measures can be taken to resolve the conflict.

9.3. The contractor shall coordinate the work with other contractors in the area and any other underground utility companies required. The contractor shall coordinate relocation of all existing utilities with applicable utility companies.

10. Signing and Pavement Markings

10.1. All signing and pavement markings installed as part of these plans shall conform to the Federal highway administration (FHWA) "manual on uniform traffic control devices" (MUTCD), County Traffic Design Standards and FDOT design standards as a minimum criteria.

10.2. Match existing pavement markings at the limits of construction.

10.3. Removal of the existing pavement markings shall be accomplished by water blasting or other approved methods determined by the engineer.

10.4. Incorrectly placed paint or thermoplastic pavement markings over friction course will be removed by milling and replacing the friction course a minimum width of 18 in at the contractor's expense. The engineer may approve an alternative method if it can be demonstrated to completely remove the markings without damaging the asphalt.

10.5. Place all retro–reflective pavement markers in accordance with standard index 17352 and / or as shown in the plans.

10.6. Caution should be exercised while relocating existing signs to prevent unnecessary damage to signs. If the sign is damaged beyond use, as determined by the engineer, signs shall be replaced by the contractor at his expense.

10.7. All existing signs that conflict with construction operations shall be removed, stockpiled, and relocated by the contractor. Sign removal shall be directed by the engineer.

10.8. Relocated sign support system must meet the current design standard.

10.9. The contractor shall provide an inventory of existing signs to remain or to be relocated prior to starting the job and forward this list to the engineer. Contractor shall notify if there are any missing or damage signs that the plans show to remain or to be relocated.

10.10. All roadway pavement markings shall be thermoplastic in accordance with FDOT specifications section 711.

10.11. Hand dig the first four feet of sign foundation.

10.12. All signs shall meet all of the following:

- Meet the criteria outlined in Section 2A.08 of the 2009 MUTCD
- Meet the specifications outlined in Section 700 and 994 of the latest FDOT Standard Specifications.
- Consist of materials certified to meet the retroreflective sheeting requirements outlined in the current version of ASTM D4956 for type–XI retroreflective sheeting materials made with prisims, except for school zone and pedestrian signs which shall be comprised of retroreflective fluorescent yellow–green sheeting certified to meet ASTM D4956 Type IV retroreflective sheeting materials.
- Consist of retroreflective sheeting materials that have a valid FDOT Approved Product List (APL) certification for specification 700 Highway Signing for FDOT sheeting Type XI (or type IV for school and pedestrian signs).

10.13. Patch attachment hardware, such as countersunk screws or rivet heads, with retro reflective buttons that match the color and sheeting material of the finished sign panel including the background, legend or border.

10.14. Ensure the outside corner of sign is concentric with border. Ensure white borders are mounted parallel to the edge of the sign. Ensure black borders are recessed from the edge of the sign.

10.15. Layout permanent final striping that leaves no visible marks at time of final acceptance.

PRELIMINARY PLAN
NOT FOR CONSTRUCTION

THESE PLANS ARE NOT FULLY PERMITTED AND ARE SUBJECT TO REVISIONS MADE DURING THE PERMITTING PROCESS. RESPONSIBILITY FOR THE USE OF THESE PLANS PRIOR TO OBTAINING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT WILL FALL SOLELY UPON THE USER.

CONCEPTUAL DESIGN	YYYY-MM-DD
SCHEMATIC DESIGN	YYYY-MM-DD
DESIGN DEVELOPMENT	YYYY-MM-DD
CONSTRUCTION DOCUMENTS	YYYY-MM-DD
PLAN CHECK SUBMITTAL	YYYY-MM-DD
PERMIT SET	YYYY-MM-DD
BID ISSUE	YYYY-MM-DD
CONSTRUCTION ISSUE	YYYY-MM-DD

THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

ART AND CULTURE CENTER EDUCATION FACILITY

1650 HARRISON STREET HOLLYWOOD, FL 33020

PROJECT NUMBER: 01924.0

KEITH PROJECT NUMBER: 10842.00

REVISIONS:

1 --
2 --
3 --
4 --
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6 --

KEITH
301 East Atlantic Boulevard
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Florida Certificate of Authorization # - 7928

SHEET TITLE:

GENERAL NOTES

SCALE: AS SHOWN

DATE PRINTED: 2021-01-04

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GI-002

CONSTRUCTION SPECIFICATIONS

Section 20 – General Specifications Paving Grading Drainage and Earthwork

20. General

20.1. It is the intent of these specifications to describe the minimum acceptable technical requirements for the materials and workmanship for construction of site improvements for this project. Such improvements may generally include, but not to be limited to, clearing, grading, paving, removal of existing pavement storm drainage, water lines and sanitary sewers.

20.2. It is the intent that the Florida Department of Transportation (FDOT) "Standard Specifications for Road and Bridge Construction: (current edition) together with "Supplemental Specifications to the Standard Specifications for Road and Bridge Construction" (current edition), and the FDOT Roadway and Traffic Design Standards (current edition) be used where applicable for the various work, and that where such wording therein refers to the State of Florida and its Department of Transportation and personnel, such wording is intended to be replaced with the wording which would provide proper terminology; thereby making such "Standard Specifications for Road and Bridge Construction" together with the "FDOT Roadway and Traffic Design Standards" as the "Standard Specifications" for this project. If within a particular section, another section, article or paragraph is referred to, it shall be part of the Standard Specifications also. The Contractor shall abide by all local and State laws, regulations and building codes which have jurisdiction in the area.

20.3. The Contractor shall furnish all labor, materials and equipment and perform all operations required to complete the construction of a paving and drainage system as shown on the plans, specified herein, or both. It is the intent to provide a complete and operating facility in accordance with these specifications and the construction drawings. The material and equipment shown or specified shall not be taken to exclude any other incidentals necessary to complete the work.

20.4. All labor, materials, and methods of construction shall be in strict accordance with the plans and construction specifications and the minimum engineering and construction standards adopted by the unit of government which has jurisdiction and responsibility for the construction. Where conflicts or omissions exist, the jurisdictional government Engineering Department's standards shall govern. Substitutions and deviations from plans and specifications shall be permitted only when written approval has been issued by the Engineer.

20.5. Guarantee – all materials and equipment to be furnished and/or installed by the Contractor under this contract, shall be guaranteed for a period of (1) one year from the date of final acceptance thereof, against defective materials, design and workmanship. Upon receipt of notice from the owner of failure of any part of the guaranteed equipment or materials, during the guarantee period, the affected part or materials shall be replaced promptly with new parts or materials by the contractor, at no expense to the owner. In the event the Contractor fails to make necessary replacement or repairs within (7) seven days after notification by the owner, the owner may accomplish the work at the expense of the contractor.

21. Earthwork

21.1. All areas within the project limits shall be cleared and grubbed prior to construction. This shall consist of the complete removal and disposal of all trees, brush, stumps, roots, grass, weeds, rubbish and all other obstructions resting on or protruding through the surface of the existing ground to a depth of 1'. All work shall be in accordance with section 110 of the Standard Specifications.

21.2. None of the existing limerock material from demolished pavement is to be incorporated in the new limerock base, unless noted in plans. The existing limerock material from demolished pavement may be incorporated into the stabilized subgrade / subbase, or stabilized shoulder.

21.3. Fill material shall be classified as A-I, A-3, or A-2-4 in accordance with AASHTO N--145 and shall be free from vegetation and organic material. Not more than 12% by weight of fill material shall pass the no. 200 sieve.

21.4. All fill material in areas not to be paved shall be compacted to 95% of the maximum density as determined by AASHTO T-99.

21.5. All material of construction shall be subject to inspection and testing to establish conformance with the specifications and suitably for the uses intended. The Contractor shall notify the Engineer at least 24 hours prior to the time he will be ready for an inspection or test. The Contractor shall follow City and County inspection procedures. The Contractor shall not proceed with any phase of work dependent on an inspection or test of an earlier phase of work, prior to that test or inspection passing. The Contractor shall be responsible for providing certified material test results to the Engineer of record prior to the release of final certification by the Engineer. Test results must include, but may not be limited to, densities for subgrade and limerock, utilities, excavation, asphalt gradation reports, concrete cylinders, etc.

21.6. When encountered, muck shall be completely removed from the center line (10) ten feet beyond the edge of pavement each side. All such material shall be replaced by approved granular fill.

21.7. When encountered within drainage swales, hardpan shall be removed to full depth for a width of (5) five feet at the invert and replaced with granular materials.

21.8. All underground utilities and drainage installations shall be in place prior to subgrade compaction and pavement construction.

21.9. Ground adjacent to roadway/pavement having runoff shall be graded (2) two inches lower than the edge of pavement to allow for the placement of sod.

21.10. Site grading elevations shall be within 0.1' of the required elevation for non paved areas and all areas shall be graded to drain without ponding.

21.11. The Contractor shall perform all excavation, fill, embankment and grading to achieve the proposed plan grades including typical road sections, side slopes and canal sections. All work shall be in accordance with section 120 of the Standard Specifications. If fill material is required in excess of that generated by the excavation, the Contractor shall supply this material as required from off-site.

21.12. A 2" blanket of top soil shall be placed over all areas to be sodded or seeded and mulched within the project limits unless otherwise indicated on the plans.

21.13. Sod shall be St. Augustine unless otherwise indicated on the plans, and shall be placed on the graded top soil and watered to insure satisfactory condition upon final acceptance of the project.

22. Drainage

22.1. Inlets – all inlets shall be the type designated on the plans, and shall be constructed in accordance with section 425 of the Standard Specifications. All inlets and pipe shall be protected during construction to prevent siltation in the drainage systems by way of temporary plugs and plywood or plastic covers over the inlets. The entire drainage system shall be cleaned of all debris prior to final acceptance.

22.2. Pipe specifications: the material type is shown on the drawings by one of the following designations:

- RCP = reinforced concrete pipe, ASTM designation C--76, section 941 of the Standard Specifications.
- CMP = corrugated metal (aluminum) pipe, ASTM designation M-196.
- CMP (smooth lined) = corrugated metal aluminum pipe, (smooth lined) ASTM designation M-196.
- SCP = slotted concrete pipe, sections 941 and 942, of the Standard Specifications.
- PVC = polyvinyl chloride pipe.
- PCMP = perforated cmp, section 945, of the Standard Specifications
- Corrugated High Density Polyethylene Pipe (HDPE) (12 Inches to 60 Inches), shall meet the requirements of FDOT Specification section 948-2.3.

22.3. Pipe backfill – requirements for pipe backfill crossing roads or parking areas shall be as defined in the section 125-8, of the Standard Specifications. Pipeline backfill shall be placed in 6 inch lifts and compacted to 100% of the standard proctor (AASHTO T--99 specifications)

22.4. Location of drainage structures shall govern, and pipe length may have to be adjusted to accomplish construction as shown on these plans.

22.5. Distance and lengths shown on plans and profile drawings are referenced to the inner walls of structures.

22.6. Filter fabric shall be Mirafi, Typar or equal conforming to section 985 of the Standard Specifications.

23. Asphalt Paving

23.1. Where new asphalt meets existing asphalt, the existing asphalt shall be saw cut to provide a straight even line. Prior to removing curb or gutter, the adjacent asphalt shall be saw cut to provide a straight even line.

23.2. Internal asphalt paving constructed on existing sandy soils shall be constructed with a 12" subgrade, compacted to a minimum density of 100% maximum density as determined by AASHTO T-99. The compacted subgrade shall be constructed in the limits shown on the plans. All subgrade shall have an LBR of 40 unless otherwise noted.

23.3. Asphaltic concrete surface course shall be constructed to the limits shown on the plans. The surface course shall consist of the thickness and type asphaltic concrete as specified in the plans. All asphaltic concrete shall be in accordance with sections 320, 327, 330, 334, 336, 337, 337, 338, 339 and 341 of the Standard Specifications.

23.4. Limerock base shall be prepared, compacted and graded and shall be in accordance with section 200 of the Standard Specifications. All limerock shall be compacted to 98% per AASHTO T-180 and have not less than 70% of carbonates of calcium and magnesium unless otherwise designated. The Engineer shall inspect the completed base course and the Contractor shall correct any deficiencies and clean the base course prior to the placement of the prime coat. A tack coat will also be required if the Engineer finds that the primed base has become excessively dirty or the prime coat has cured to the extent of losing bounding effect prior to placement of the asphaltic concrete surface course. The prime and tack coats shall be in accordance with section 300 of the Standard Specifications.

23.5. Limerock base material shall be placed in maximum 6" lifts. Bases greater than 6" shall be placed in two equal lifts. If, through field tests, the Contractor can demonstrate that the compaction equipment can achieve density for the full depth of a thicker lift, and if approved by the engineer, the base may be constructed in successive courses of not more than 8 inches (200 mm) compacted thickness.

23.6. Asphalt edges that are not curbed shall be saw cut to provide a straight even line to the dimensions shown on plans.

24. Concrete Construction

24.1. Concrete sidewalk shall be in accordance with section 522 of the Standard Specifications and in accordance with F.D.O.T. Roadway and Traffic Design Standards, index no. 310. Concrete sidewalk shall be 4" thick, unless otherwise not and constructed on compacted subgrade, with 1/2" expansion joints placed at a maximum of 75', unless otherwise noted on plans. Crack control joints shall be 5' on center. All concrete sidewalks that cross driveways shall be 6" thick, unless otherwise noted on plans.

24.2. Sidewalk Curb ramps hall be in accordance with F.D.O.T. Roadway and Traffic Design Standards, index no. 304.

24.3. Concrete curb shall be constructed to the limits shown on the plans. The concrete shall have a minimum compressive strength of 2500 PSI at 28 days and shall be in accordance with section 520 of the Standard Specifications. Concrete curbing shall be in accordance with F.D.O.T. Roadway and Traffic Design Standards, index no. 300.

24.4.

Section 30 – Water distribution and sanitary sewer force mains.

30. Materials:

Note: If materials list here on are in conflict with utility owner, material owner requirements shall govern.

30.1. All water main pipe, including fittings, shall be color coded or marked using blue as a predominant color to differentiate drinking water from reclaimed or other water. Underground plastic pipe shall be solid-wall blue pipe, shall have a co-extruded blue external skin, or shall be white or black pipe with blue stripes incorporated into, or applied to, the pipe wall; and underground metal or concrete pipe shall have blue stripes applied to the pipe wall. Pipe striped during manufacturing of the pipe shall have continuous stripes that run parallel to the axis of the pipe, that are located at no greater than 90-degree intervals around the pipe, and that will remain intact during and after installation of the pipe. If tape or paint is used to stripe pipe during installation of the pipe, the tape or paint shall be applied in a continuous line that runs parallel to the axis of the pipe and that is located along the top of the pipe; for pipes with an internal diameter of 24 inches or greater, tape or paint shall be applied in continuous lines along each side of the pipe as well as along the top of the pipe.

30.2. Ductile iron pipe for water distribution mains shall conform to ANSI/AWWA standard C151/A21.51 latest revision, "ductile iron pipe centrifugally cast in metal molds or sand-lined molds" with a minimum wall thickness of class 51 (pressure class 350) unless otherwise noted in the plans. Ductile iron pipe shall be cement lined and seal coated in accordance with ANSI/AWWA standard C104/A21.4 latest revision. The pipe shall be adapted for use with class 250 fittings for all sizes. Water main shall be colored blue in accordance with Florida State Statutes.

30.3. Ductile iron pipe for sewage force mains shall conform to ANSI/AWWA standard C151/A21.51 latest revision, "ductile iron pipe centrifugally cast in metal molds or sand- lined molds" with a minimum wall thickness of class 51 (pressure class 350) unless otherwise noted in the plans. Ductile iron pipe shall be interior ceramic epoxy lined and exterior coated with the manufacturer's coating system (Protecto 401 ceramic epoxy with a minimum dry film thickness of 40 mils and an outside coating of either coal tar epoxy or asphalt). Cement mortared linings are not appropriate for this application.

30.4. All pipe & fittings on the lift station sites shall be ductile iron conforming to the same specifications as above for sewage force mains except that flanged ductile iron pipe & fittings shall be used inside valve pits and wet wells. Flanged pipe and fittings shall conform to ANSI/AWWA C115/a21.15 latest revision and ANSI/AWWA C110/A21.10 latest revision. The following thickness classes shall be adhered to: 4" – 12" – class 52, 14" & larger – class 51.

30.5. PVC pressure pipe for sizes 4" through 12" and shall conform to ANSI/AWWA standard C900 latest revision. PVC pressure pipe shall be made from class 12454-a or class 12454-b virgin material and conform with the outside diameter of cast iron pipe with a minimum wall thickness of dr series 18. Ultra violet degradation or sun bleached pipe will be cause for rejection. Water main shall be colored blue in accordance with Florida State Statutes. Force main shall be impregnated with green pigment. Reuse main shall be impregnated with purple pigment.

30.6. Ductile iron fittings for water distribution mains shall conform to ANSI/AWWA standard C110/A21.10 latest revision. Fittings 4" and larger shall be cement lined and seal coated in accordance with ANSI/AWWA standard C104/A21.4 latest revision. Water Main fitting shall be colored blue in accordance with Florida state statutes.

30.7. Cast iron and ductile iron fittings for sewage force mains shall conform to ANSI/AWWA standard C110/A21.10 latest revision. Fittings 4" and larger shall be coated in accordance with the requirements of ductile iron pipe for sewage force mains.

30.8. Joints for bell and spigot ductile iron pipe and fittings shall conform to ANSI/AWWA standard C111/A21.11 latest revision. Mechanical joint or push-on joint to be rubber gasket compression-type. Special fittings and joints shall be considered for specific installation subject to the approval of the engineer.

30.9. Joints for PVC pressure pipe shall be bell and spigot push-on rubber gasket type only. No solvent weld or threaded joints will be permitted.

30.10. Water distribution system restraint: all fittings and specific pipe joints shall be restrained as outlined below:

- Joint restraint
- Push-on P.V.C. EBAA iron series 1600
- Push-on DIP EBAA iron series 1700
- tr-flex by U.S. Pipe or
- flex ring by American
- Fittings w/ DIP EBAA iron series 1100 megalug
- Fittings w/ P.V.C. EBAA iron series 2000 megalug
- Length of restrained pipe shall be as indicated on restrained joint pipe detail. (see water & sewer detail sheet)

30.11. Sewage force main system restraint: all fittings and specific pipe joints shall be restrained as outlined below

- Joint restraint
- Push-on P.V.C. EBAA iron series 1600
- Push-on DIP EBAA iron series 1700
- tr-flex by U.S. Pipe or
- flex ring by American
- Fittings w/ DIP EBAA iron series 1100 megalug
- Fittings w/ P.V.C. EBAA iron series 2000 megalug
- Length of restrained pipe shall be as indicated on restrained joint pipe detail. (see water & sewer detail sheet)

30.12. Water distribution valves shall be gate valves, iron body, fully resilient seat bronzed mounted non-rising stem, rated at 200 PSI and conforming to ANSI/AWWA C509 latest revision, and shall have mechanical joints.

30.12.1. Gate valves 4" and larger shall be Mueller A-2360, American 250 line or Clow F-6100, conforming to ANSI/AWWA C500 latest revision or approved equal.

30.12.2. Tapping valves shall be Mueller T-2360 or approved equal.

30.12.3. Gate valves 3" or less shall be Nibco T-133 or T-136 with malleable hand wheels or approved equal.

30.13. Tapping sleeves shall be Mueller H615, Clow F- 2505 or approved equal.

30.14. Valve boxes shall be U.S. foundry 7500 or approved equal painted blue with the designation "water".

30.15. Retainer glands for DIP shall conform to ANSI/AWWA C111/A21.11 latest revision. All glands shall be manufactured from ductile iron as listed by underwriters laboratories for 250 psi minimum water pressure rating. Clow corporation model f-1058, standard fire protection equipment company or approved equal.

30.16. Dresser couplings shall be regular black couplings with plain gaskets for galvanized steel pipe. They shall be dresser style 90. No substitutions allowed.

30.17. Fire hydrants shall be Mueller centurion traffic type A-423 with 5 1/4" internal valve opening or approved equal. Pumper nozzle to be 18" from finished grade. All hydrants to be installed with control valve. Retainer glands are preferred for restraining. Fire hydrant shall comply with ANSI/AWWA C502 latest revision. Fire hydrants shall be painted in accordance with NFPA #291 or per agency standards having jurisdiction. Blue raised reflective pavement marker (rpm) shall be used to identify fire hydrant location. The placement of the rpm to be at the centerline of the outside roadway lane.

30.18. Sewage force main valves shall be plug valves which shall be of the non-lubricated, eccentric type with resilient faced plugs, port areas for valves 20 inches and smaller shall be at least 80% of full pipe area. Port area of valves 24 inches and larger shall be at least 70% of full pipe area. The body shall be of semi-steel (ASTM A-126 C1.b) and shall have bolted bonnet which gives access to the internals of the valve. Seats shall be welded overlay of high nickel content or a stainless steel plate locked in the body cavity. If a plate is used, it shall be replaceable through the bonnet access. Bearings shall be permanently lubricated of stainless steel, bronze or Teflon lined, fiber glass backed Duralon. Bearing areas shall be isolated from the flow with grit seals. Valves shall have packing bonnets where the shaft protrudes from the valve and the packing shall be self-adjusting chevron type which can be replaced without removing the bonnet. All nuts, bolts, springs and washers shall be stainless steel.

30.19. Plug valves shall be designed for a working pressure of 150 PSI the valve and actuator shall be capable of satisfactory operation in either direction of flow against pressure drops up to and including 100 PSI (for plug valves over 12" in diameter). Valves shall be bubble tight in both directions at 100 psi differential. Plug valves over 12" in diameter shall have worm gear operators. The operating mechanism shall be for buried service with a 2 inch square operating nut.

30.20. Plug valves are to be installed with the seat pointed towards the upstream flow, when specified.

30.21. Swing check valves for water, sewage, sludge, and general service shall be of the outside lever and spring or weight type, in accordance with ANSI/AWWA C 508 latest revision swing-check valves for waterworks service, 2" through 24" NPS, unless otherwise indicated, with full-opening passages, designed for a water-working pressure of 150 PSI they shall have a flanged cover piece to provide access to the disc.

30.22. High density polyethylene pipe (HDPE) for water distribution mains shall conform to AWWA C906 standard, latest revision. Pipes shall be color-coded blue, minimum 40 feet standard lengths.

31. Service connection:

31.1. Service saddles shall be fusion bonded plastic coated ductile iron (ASTM A536) with stainless steel straps, saddles shall be double strap type.

31.2. Service lines shall be polyethylene (PE 3408), 200 p.s.i rated, DR9. Pipe joints shall be of the compression type totally confined grip seal and coupling nut.

31.3. Corporation stops shall be manufactured of brass alloy in accordance with ASTM B-62 with threaded ends, as manufactured by Ford ballcorp, catalog # 1100 or approved equal.

31.4. Curb stops shall be Ford v63-44w-x" latest revision or approved equal.

31.5. Meter stops shall be 90 degree lockwing type and shall be of bronze construction in accordance FV63-777W" latest revision with ASTM B-62. Meter stops shall be closed bottom design and resilient "O" ring sealed against external leakage at the top. Stops shall be equipped with a meter coupling nut on the outlet sides, as manufactured by Ford or approved equal.

32. Installation:

32.1. Where restrained pipe joints are required due to fittings, appurtenances, etc., pipe material shall be DIP

32.2. All PVC pipe shall be installed in accordance with the uni-bell plastic pipe association "guide for installation of PVC pressure pipe for municipal water distribution system," and ANSI/AWWA C605-xx latest revision standard.

32.3. All DIP shall be installed in accordance with ANSI/ C600-xx latest revision.

32.4. All water mains shall typically be laid with a minimum 36" cover for PVC and 30" cover for DIP.

32.5. Detector tape shall be laid 18 inches above all water and sewer lines. A 14 gauge multi-strand wire shall be attached to all nonconductive water mains to facilitate location. An extra 4 feet of wire shall be provided at all valves, blow-offs, hydrants, etc. The wire shall be tested for continuity at the pressure test.

32.6. Pipe deflection shall not exceed 50% of the maximum deflection recommended by the manufacturer.

32.7. A continuous and uniform bedding shall be provided. Backfill material shall be placed in accordance with the plans and specifications.

32.8. All valves shall be installed with adjustable cast iron valve boxes with the word "water" or "sewer", as applicable, cast in the cover. U.S. foundry or approved equal.

33. Testing:

33.1. Before any physical connections and acceptance for operation to the existing water mains are made, the complete water system shall be flushed, pressure tested and disinfected. Copies of passing bacteriological results and pressure test results must be submitted to, and approved by, the engineer, utility owner, and health department. Hydrostatic testing of new mains shall be performed at a minimum starting pressure of 150 PSI for two hours in accordance with ANSI/AWWA C600-05 (hydrostatic test). The pressure test shall not vary more than 5 PSI during the test. The allowable leakage during the pressure test shall be less than the number of gallons per hour as determined by the formula:

L = (sd(p)1/2)/148,000.

In which L equals the allowable leakage in gallons per hour. S equals length of pipe (linear feet), d equals nominal diameter of pipe (inches) and p equals the average test pressure (pounds per square inch gauge). Maximum length of test pipe section should be 2000 feet. The water system shall be disinfected in accordance with the ANSI/AWWA C651-05 (water main bacteriological tests).

33.2. The pressure test shall be witnessed by a representative of the utility owner and the engineer of record.

33.3. For water distribution pipes, sampling points shall be provided by the contractor at the locations shown on the plans.

33.4. For water distribution pipes, disinfection and bacteriological testing shall be in accordance with ANSI/AWWA C651-14 (water main bacteriological tests). Maximum distance between sampling points shall be as follows:

- Transmission mains: every 1200 feet
- Branch mains: every 1000 feet
- Isolated mains < 1000 feet: 2 sample points
- Isolated mains > 1000 feet: 3 sample points

Section 40 – Gravity Sanitary Sewer Collection System

40. General:

40.1. Manhole, valve box, meter box and other structure rim elevations within the limits of construction are to be adjusted to conform to plan grades proposed in these plans. If no other individual cost item is included in the contract schedule for a particular structure adjustment.

40.2. Distance and lengths shown on plans and profile drawings are referenced to the center of structures.

41. Materials:

Note: If materials list here on are in conflict with utility owner, material owner requirements shall govern.

41.1. All PVC sewer pipe and fittings shall be non-pressure polyvinyl chloride (PVC) pipe conforming to ASTM D 3034, SDR 26, with push-on rubber gasket joints.

41.2. Ductile iron pipe shall conform to ANSI/AWWA C151/A21.51-xx latest revision, "ductile iron pipe centrifugally cast in metal molds or sand-lined molds" with wall thickness class 51 for 8" and above, class 52 for 4" and 6", unless otherwise directed by the engineer. Ductile iron pipe shall be epoxy lined or coated with the manufacturer's coating system as approved by the engineer of record and the local municipality or utility owner. In either case, the engineer's review and approval is required for either alternative prior to construction. Cement mortared linings are not appropriate for this application.

41.3. All ductile iron fittings shall conform to ANSI/AWWA standard C110/A21.10-xx latest revision. All fittings and accessories shall be epoxy lined and as manufactured or supplied by the pipe manufacturer or approved equal.

41.4. Manholes shall be precast per ASTM C 478 and in accordance with the plans and specifications.

41.5. Manholes are to be sealed with type II sulphate resistant cement or approved equal – no molding plaster.

41.6. Joints for bell and spigot ductile iron pipe and fittings shall conform to ANSI/AWWA standard C111/A21.11-xx latest revision. Mechanical joint or push-on joint to be rubber gasket compression-type.

41.7. PVC clean-outs to have screw type access plug. Long radius wye connections and fittings shall be used in order to access clean-out operations.

41.8. Cleanouts shall be installed at all sewer services exceeding 75' in length (every 75') with a clean out at the property line, easement line, or 5' from a building. The contractor shall coordinate the location of the building cleanout (5' from the building) and elevation of the end of the sewer service with the building plumbing contractor. Cleanouts shall be the same size as the service lateral in which they are installed.

42. Installation:

42.1. PVC sewer pipe shall be laid in accordance with ASTM D 2321 and the Uni-Bell plastic pipe association's "recommended practice for the installation of PVC sewer pipe."

42.2. DIP shall be installed in accordance with ANSI/AWWA C-600-xx latest revision.

42.3. Pipe to manhole connection to be Fernco neoprene boot couplings with stainless steel accessories or approved equal.

42.4. Manholes shall be set plumb to line and grade on firm subgrade providing uniform bearing under the base.

42.5. All openings and joints shall be sealed watertight.

42.6. Two coats of Koppers 300-m, first red, second one black, shall be applied to the inside of all manholes and shall be applied in accordance with the manufacturer's specifications (16 mils per coat). Coating as required by utility owner or engineer shall be applied to the outside of the manhole. The interior coats shall be applied after sewer lamping of lines. After the application of each coat, the utility owner and engineer shall inspect the manholes. The inspection shall be scheduled a minimum of 48 hours prior to inspection.

43. Testing: Testing of gravity sewer mains and laterals shall be in accordance with the utility owner's minimum design and construction standards latest revision.

43.1. After construction of the sewer system, the engineer may require a visual infiltration and/or exfiltration test to be performed on the entire system or any part thereof.

43.2. An air test may be substituted for the water exfiltration test, upon approval of the engineer.

43.3. The allowable limits of sewer pipe leakage for gravity sewer mains shall not exceed 100 gallons per inch of inside pipe diameter per mile per day for any section tested. No visible leakage shall be allowed.

43.4. The installed sewers may require video inspections.

PRELIMINARY PLAN
NOT FOR CONSTRUCTION

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THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

ART AND CULTURE CENTER EDUCATION FACILITY

1650 HARRISON STREET HOLLYWOOD, FL 33020

PROJECT NUMBER: 01924.0

KEITH PROJECT NUMBER: 10842.00

REVISIONS:
1 --
2 --
3 --
4 --
5 --
6 --

SHEET TITLE: CONSTRUCTION SPECIFICATIONS

SCALE: AS SHOWN

DATE PRINTED: 2021-01-04

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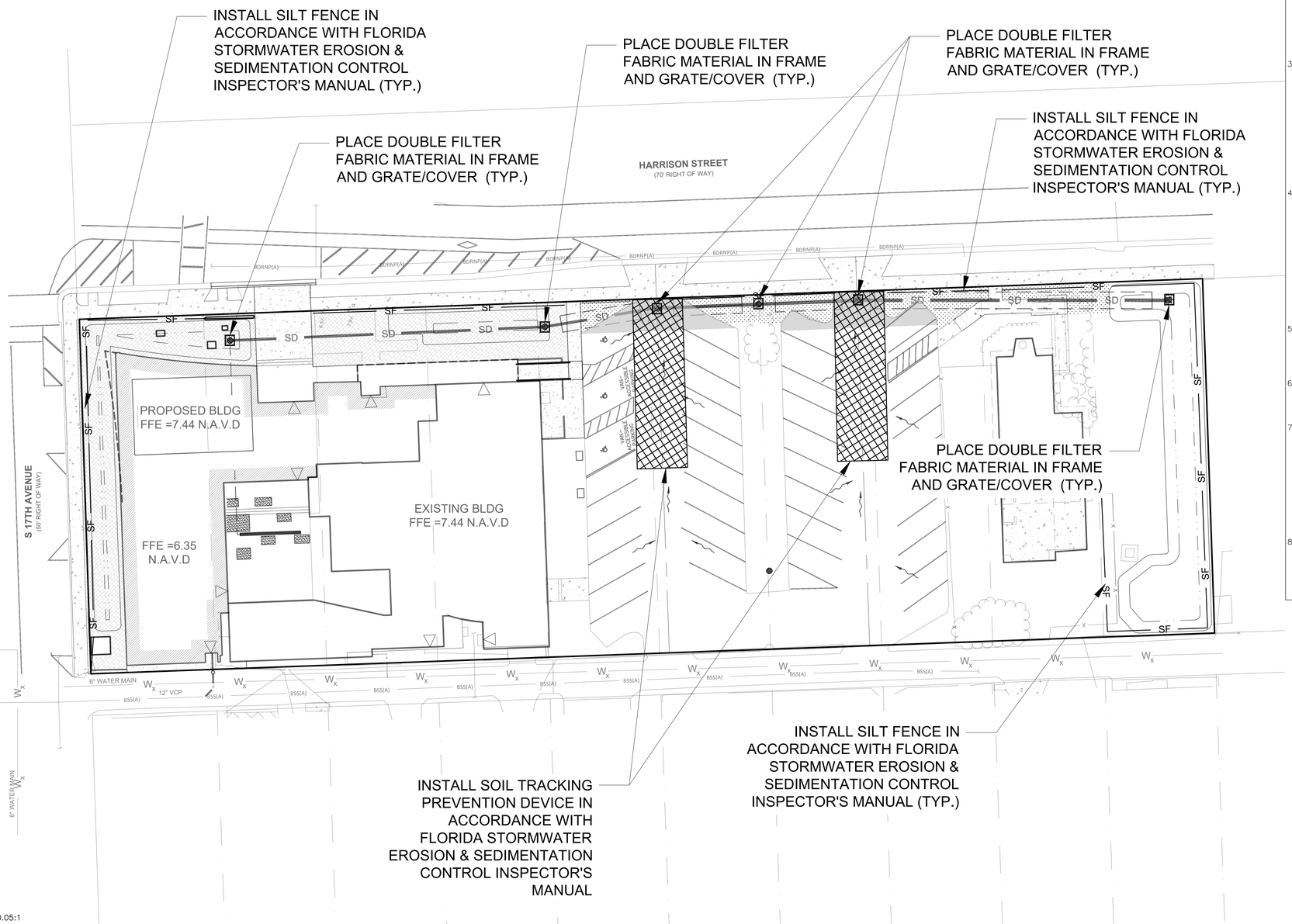
GI-003



VP SCALE: 1"=20' / 0.05:1

N

GRAPHIC SCALE
0 20 40
SCALE: 1" = 20'
NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

GENERAL NOTES:

1. THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN FLORIDA (HEREAFTER REFERRED TO AS FL GUIDELINES).
2. MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION PERIOD. AFTER EACH RAINFALL, A VISUAL INSPECTION SHALL BE MADE OF ALL INSTALLED EROSION CONTROL MEASURES AND REPAIRS SHALL BE CONDUCTED TO ENSURE THEIR CONTINUING FUNCTION AS DESIGNED.
3. ALL EXISTING/NEW CATCH BASIN, INLETS, STORM SEWER MANHOLES STRUCTURES WITHIN THE WORK AREAS, ETC. SHALL BE PROTECTED DURING CONSTRUCTION OPERATIONS FROM SEDIMENT RUNOFF AND DEBRIS BY PLACING A FILTER FABRIC MATERIAL IN THE FRAME AND GRATE/MANHOLE COVER. PREVENTIVE METHODS MUST BE UTILIZED AROUND THESE STRUCTURES (DURING CONSTRUCTION OPERATIONS) BY GRADING TO DRAIN AWAY FROM STRUCTURES AND ANY OTHER METHODS APPROVED BY THE AGENCY HAVING JURISDICTION OR DESIGN ENGINEER OF RECORD.
4. THE CONTRACTOR SHALL INSTALL A SOIL TRACKING PREVENTION DEVICE AS PER THE FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL. THE CONTRACTOR SHALL TAKE MEASURES TO INSURE THE CLEANUP OF SEDIMENTS THAT HAVE BEEN TRACKED BY VEHICLES OR HAVE BEEN TRANSPORTED BY WIND OR STORM WATER ABOUT THE SITE OR ONTO NEARBY ROADWAYS. STABILIZED CONSTRUCTION ENTRANCES AND CONSTRUCTION ROADS, IF APPROPRIATE, SHALL BE IMPLEMENTED IN ORDER TO REDUCE OFFSITE TRACKING.
5. ALL AREAS OF DISTURBANCE THAT ARE NOT WITHIN BUILDING OR PAVEMENT LIMITS SHALL BE SODDED, REFER TO LANDSCAPE PLANS FOR SOD SPECIFICATION AND REQUIREMENTS.
6. REMOVE ALL EROSION CONTROL IMPROVEMENTS AFTER ALL DISTURBED AREAS ARE STABILIZED WITH THE FINAL GROUND COVER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR READING AND FAMILIARIZING THEMSELVES WITH ALL THE PERMITS PREVIOUSLY ACQUIRED FOR THIS PROJECT. THE CONDITIONS OUTLINED IN THE PERMITS ARE IN FORCE AND FULL EFFECT AS PART OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL WORK ASSOCIATED WITH THIS PROJECT IS IN COMPLIANCE WITH ALL OF THE REQUIREMENTS OF THESE PERMITS.
8. THE CONTRACTOR WILL BE RESPONSIBLE FOR ACQUIRING A VALID NPDES PERMIT. UNLESS SUCH PERMIT IS DETERMINED TO BE NON-APPLICABLE BY REGULATORY AGENCY HAVING PROPER JURISDICTION REGARDING HIS MATTER.

PRELIMINARY PLAN
NOT FOR CONSTRUCTION
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BID ISSUE	YYYY-MM-DD
CONSTRUCTION ISSUE	YYYY-MM-DD

THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

ART AND CULTURE CENTER EDUCATION FACILITY

1650 HARRISON STREET HOLLYWOOD, FL 33020

PROJECT NUMBER: 01924.0
KEITH PROJECT NUMBER: 10842.00

REVISIONS:
1 --
2 --
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4 --
5 --
6 --

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SHEET TITLE:
EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: AS SHOWN
DATE PRINTED: 2021-01-04

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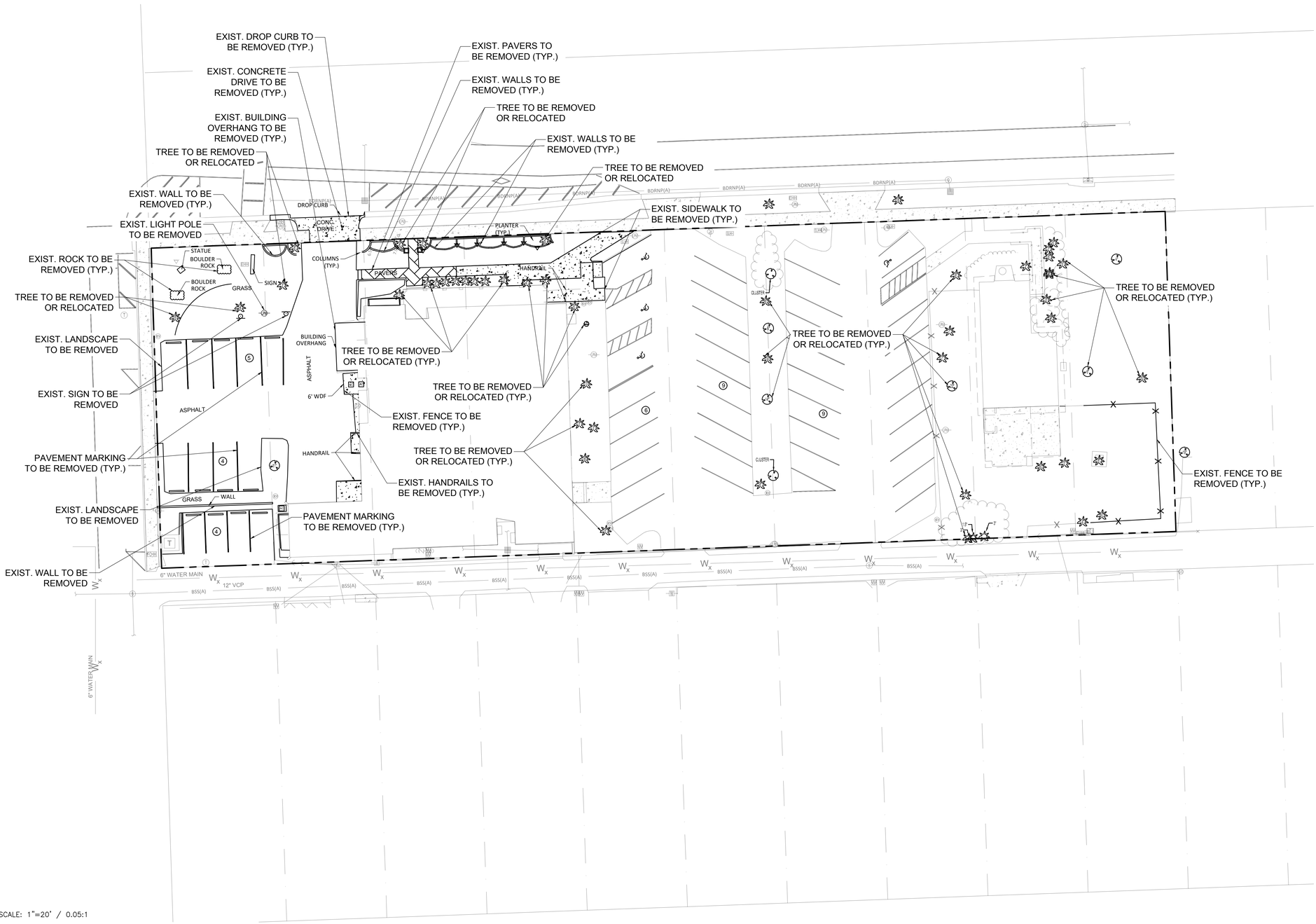
CG-101



VP SCALE: 1"=20' / 0.05:1

N

GRAPHIC SCALE

0 20 40

SCALE: 1" = 20'

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

BUILDING DEMOLITION NOTES

1. CONTRACTOR TO DEMOLISH EVERYTHING WITHIN THE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED
2. EXISTING MONITORING WELLS TO REMAIN, CONTRACTOR TO COORDINATE WITH ENVIRONMENTAL ENGINEER PRIOR TO DEMOLITION.
3. BUILDING DEMOLITION IS SUBJECT TO FEDERAL, STATE AND COUNTY RULES RELATING TO THE DEMOLITION AND THE HANDLING OF ASBESTOS CONTAINING MATERIAL. THE COUNTY STATEMENT OF RESPONSIBILITIES REGARDING ASBESTOS MUST BE FILLED OUT AND COMPLIED WITH PRIOR TO ANY BUILDING DEMOLITION.THE CONTRACTOR MUST OBTAIN / PRODUCE THE FOLLOWING PRIOR TO ANY BUILDING DEMOLITION:
   - PEST CONTROL INSPECTION REPORT INDICATING THAT PROPERTY IS FREE OF RODENTS
   - GAS DISCONNECT LETTER FROM GAS SUPPLIER
   - FPL DISCONNECT LETTER FROM FP&L
   - WATER METER REMOVAL LETTER FROM UTILITY PROVIDER
   - FIRE SERVICE WATER METER REMOVAL LETTER FROM UTILITY PROVIDER
   - SEWER CAP OR SEPTIC TANK ABANDONMENT PERMIT REQUIRED WITH A PASSED BUILDING DEPARTMENT INSPECTION PERMIT
   - COPY OF EPA LICENSE AND/OR LETTER FROM LICENSED CONTRACTOR RECOVERING REFRIGERANT FROM A/C UNITS
   - NOTARIZED LETTER FROM DEMOLITION CONTRACTOR STATING FROM WHERE WATER WILL BE OBTAINED FOR DUST CONTROL
   - DEMOLITION CONSTRUCTION DEBRIS MITIGATION PLAN SIGNED AND DATED BY OWNER AND CONTRACTOR
   - BUILDING DEMOLITION DAILY WORK SCHEDULE – LIST OF ALL EQUIPMENT USED FOR DEMOLITION OF BUILDINGS MORE THAN ONE STORY
   - NOTICE OF COMMENCEMENT
   - ALL PORTIONS OF A PARCEL OF LAND SHALL BE PLANTED WITH GROUND COVER OR LAWN OR UTILIZE OTHER APPROVED TEMPORARY EROSION CONTROL MEASURES, IN ORDER TO PREVENT DUST OR SOIL EROSION.
   - TREE PROTECTION PLAN:
     - O FOR EXISTING TREES ON SITE, INDICATE THE LOCATION OF TREES/PALMS ON THE SURVEY AND PROVIDE A CORRESPONDING LIST OF TREE NUMBER, BOTANICAL NAME, COMMON NAME, OVERALL HEIGHT, TRUNK DBH FOR TREES, CLEAR TRUNK FOR PALMS, CONDITION %, AND INDICATE THAT ALL EXISTING TREES/PALMS ARE TO BE PROTECTED AND WILL REMAIN ON SITE.
     - O PROVIDE TREE PROTECTION BARRICADE DETAIL FOR EXISTING TREES ON SITE TO REMAIN. THIS BARRICADE MUST BE INSTALLED PRIOR TO THE BEGINNING OF PROPOSED WORK.
     - O FOR TREES THAT MUST BE REMOVED TO ACCESS DEMO AREAS, OBTAIN PERMIT FOR TREE REMOVAL.

PRELIMINARY PLAN
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THOMAS F. DONAHUE, P.E.
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ART AND CULTURE CENTER EDUCATION FACILITY

1650 HARRISON STREET HOLLYWOOD, FL 33020

PROJECT NUMBER: 01924.0

KEITH PROJECT NUMBER: 10842.00

REVISIONS:

1	--	4	--
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SHEET TITLE: DEMOLITION PLAN

SCALE: AS SHOWN

DATE PRINTED: 2021-01-04

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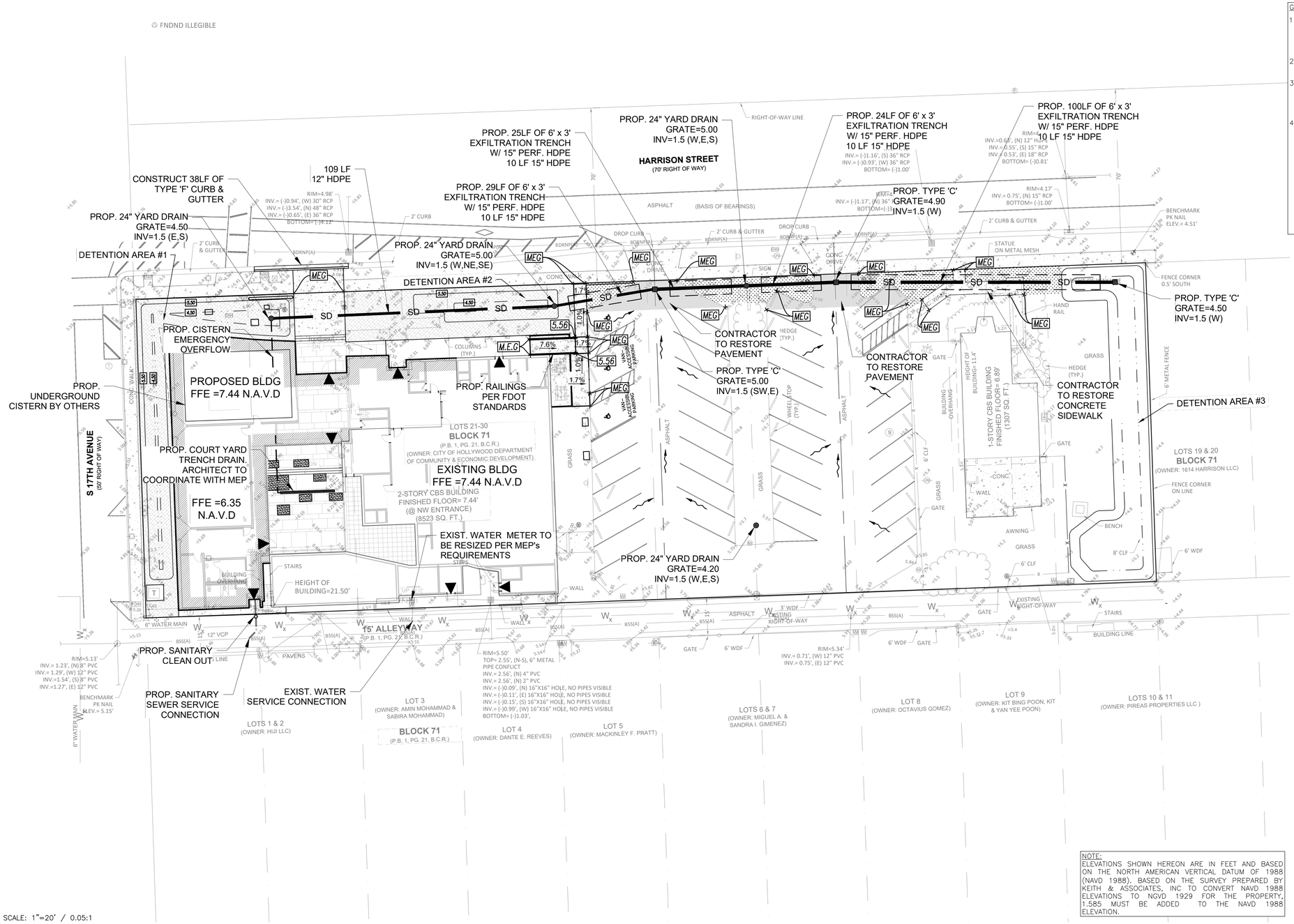
CD-101



VP SCALE: 1"=20' / 0.05:1

NOTE:
ELEVATIONS SHOWN HEREON ARE IN FEET AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988). BASED ON THE SURVEY PREPARED BY KEITH & ASSOCIATES, INC TO CONVERT NAVD 1988 ELEVATIONS TO NGVD 1929 FOR THE PROPERTY, 1.585 MUST BE ADDED TO THE NAVD 1988 ELEVATION.

N

GRAPHIC SCALE
0 20 40
SCALE: 1" = 20'
NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

GENERAL ADA SLOPE NOTES:

1. THE CONTRACTOR SHALL ENSURE THAT ALL ADA CRITERIA IS MET FOR THE CONSTRUCTION OF THE SITE IMPROVEMENTS INCLUDING BUT NOT LIMITED TO SIDEWALKS, RAMPS AND ADA PARKING STALLS).
2. ALL ADA PARKING STALLS SHALL NOT EXCEED 2% IN ANY DIRECTION.
3. SIDEWALKS SHALL NOT EXCEED 5% IN THE LONGITUDINAL DIRECTION AND CROSS-SECTIONAL SLOPES SHALL NEVER EXCEED 2%, UNLESS CLEARLY IDENTIFIED ON PLANS.
4. FOR ANY REASON THE CONTRACTOR FINDS ANY GRADING DISCREPANCIES THAT WOULD RESULT IN NOT BEING ABLE TO MEET ADA CRITERIA; IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ADVISE THE ENGINEER AT ONCE AND PROVIDE ADEQUATE TIME TO DETERMINE PROPER COURSE OF ACTION. IF FOR ANY REASON IT IS DEEMED NECESSARY FOR AS-BUILT INFORMATION TO BE MADE AVAILABLE TO THE ENGINEER IN ORDER TO MAKE THE NECESSARY DECISIONS AND/OR PROVIDE DIRECTION, THIS INFORMATION SHALL BE PROVIDED BY THE CONTRACTOR.

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Florida Certificate of Authorization # - 7928

SHEET TITLE:
PAVING, GRADING AND DRAINAGE PLAN

SCALE: AS SHOWN
DATE PRINTED: 2021-01-04

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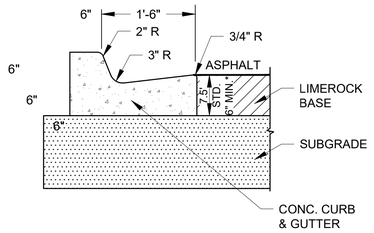
CP-101

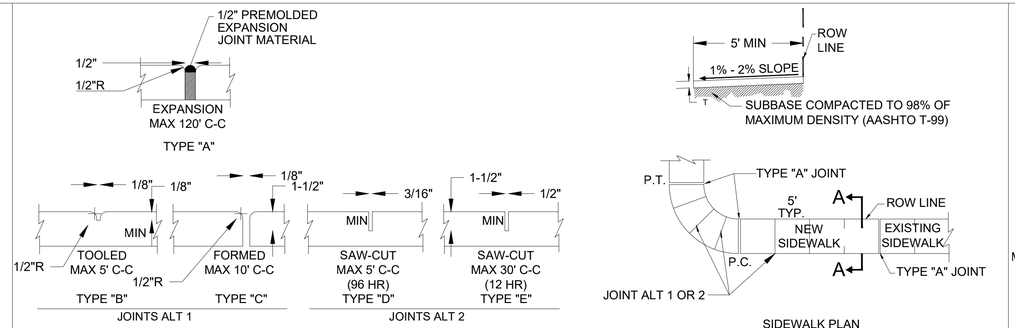


NOTES:
ALL TYPE "F" CURB & GUTTER SHALL BE IN ACCORDANCE WITH THE STANDARD REQUIREMENTS OF FDOT INDEX 300.

*WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.

1 TYPE 'F' CURB & GUTTER DETAIL PER FDOT INDEX No. 300

SCALE: NOT TO SCALE

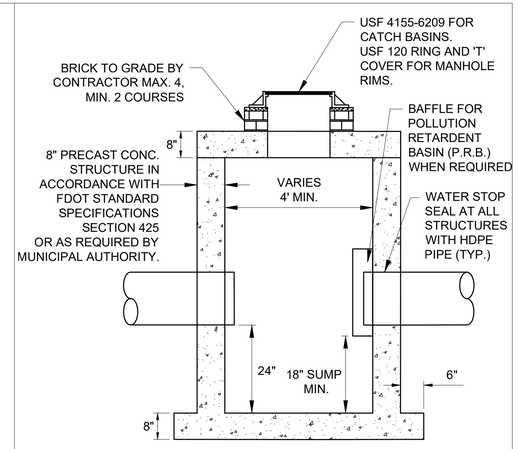


CONCRETE PAVEMENT & SIDEWALK JOINTS

NOTES:
1. Sidewalk construction is to comply with the latest FDOT standards for sidewalks and ADA curb ramps, per FDOT index 522-001 and 522-002.
2. Provide either joint alternate 1 or 2. If using joint alternate 2: construct type "E" joints at not more than 30' intervals - within 12 hours after finishing, construct 1/2" expansion, provide joint type "A", with non-rising performed joint filler at not more than 120' intervals, construct remaining joints within 96 hours after finishing.
3. Provide 1/2" expansion joint type "A", with non-rising performed joint filler where concrete pavement abuts concrete curbs, driveways and other fixed objects.
4. Sidewalk thickness shall be 4" thick unless otherwise noted. Thickness shall be 6" through driveways and on all commercial sidewalk applications.
5. The use of steel reinforcement is not permitted.
6. Concrete to be 3,000 psi in 28 days.
7. Cure all concrete with approved method.
8. Sidewalk foundation shall be compacted to a firm, even surface, true to grade and cross section, and shall be moist at the time concrete is placed.
9. All construction shall conform to local construction codes and standards.
10. Sidewalk slopes shall meet the requirements of the Americans with Disabilities Act. Minimum transverse slope 0.01 ft./ft. And maximum transverse slope 0.02 ft./ft. toward swale or gutter. Longitudinal slope shall conform to ADA requirements.
11. The vertical deviation for a new sidewalk shall not be more than ½".
12. The vertical deviation for a new maintenance access structure cover shall not be more than ¼".
13. Where truncated domes are used, stamped concrete is not permitted. Truncated domes to be cast with the concrete.
14. Sidewalk shall have a transverse hair broom finish.

2 SIDEWALK DETAIL

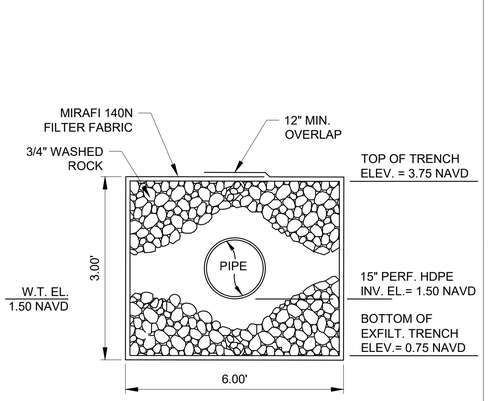
SCALE: NOT TO SCALE



NOTE:
1. STRUCTURE MANUFACTURER AND/OR CONTRACTOR SHALL CONFIRM ALL STEEL REINFORCEMENT MEETS FDOT STANDARDS PER INDEX 200, SECTION 415 AND 425 PRIOR TO SUBMITTING ANY SHOP DRAWINGS FOR APPROVAL.
2. LOCKING GRATES TO BE PROVIDED.

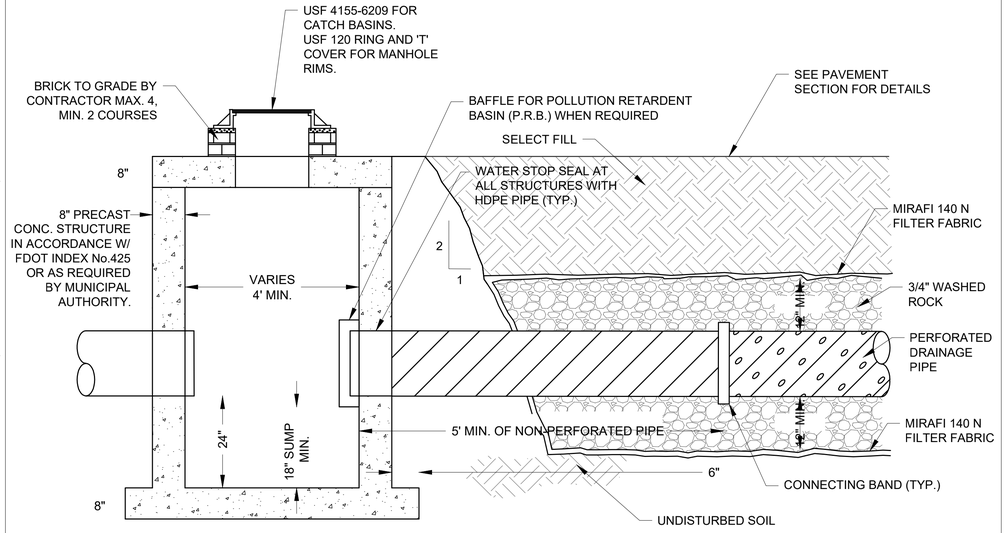
3 CATCH BASIN / DRAINAGE MANHOLE DETAIL

SCALE: NOT TO SCALE



4 EXFILTRATION TRENCH 'A' DETAIL

SCALE: NOT TO SCALE



5 CATCH BASIN W/ P.R.B. AND EXFILTRATION TRENCH

SCALE: NOT TO SCALE

VP SCALE: 1" / 1'

PRELIMINARY PLAN
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SHEET TITLE: PAVING, GRADING AND DRAINAGE DETAILS

SCALE: AS SHOWN
DATE PRINTED: 2021-01-04

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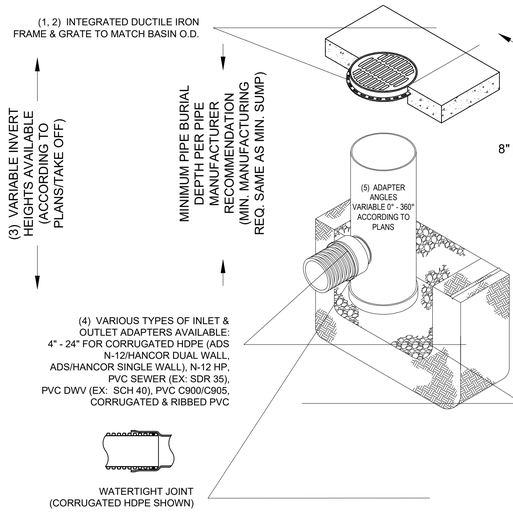
CP-501

NYLOPLAST 24" DRAIN BASIN: 2824AG _ _X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	2499CGP	7001-110-216
STANDARD	MEETS H-20	2499CGS	7001-110-217
SOLID COVER	MEETS H-20	2499CGC	7001-110-218
DOME	N/A	2499CGD	7001-110-219
DROP IN GRATE	LIGHT DUTY	2401DI	7001-110-075

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

DRAWN BY	EBC	MATERIAL	
DATE	04-03-06		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-14-16		
DWG SIZE	A	SCALE 1:40	SHEET 1 OF 1

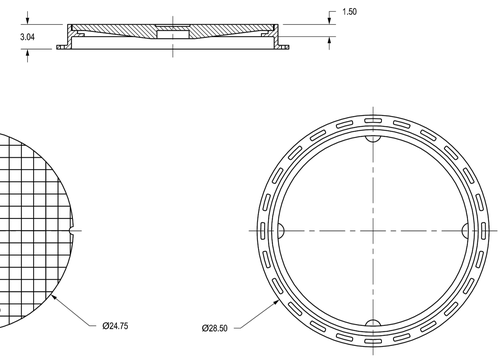
Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: 24 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-192 REV E

2499CGC

APPROX. WEIGHT WITH FRAME = 138.00 LBS



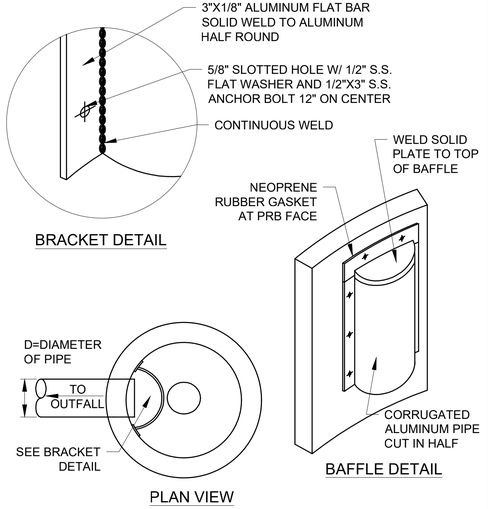
DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE MEETS H-20 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-025

DRAWN BY	EBC	MATERIAL	DUCTILE IRON
DATE	3-8-06		
REVISED BY	EBC	PROJECT NO./NAME	
DATE	3-13-10		
DWG SIZE	A	SCALE 1:10	SHEET 1 OF 1

Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: 24 IN SOLID COVER ASSEMBLY - TYPE B

DWG NO. 7001-110-218 REV C

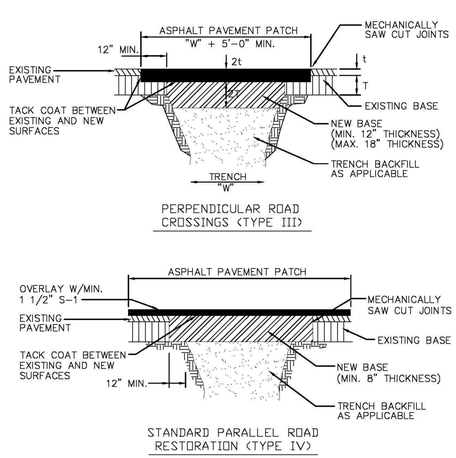


NOTE:
BAFFLE TO BE A SECTION OF CAP CUT IN HALF.
CAP FOR BAFFLE SHALL BE THE NEXT STANDARD
PIPE DIAMETER LARGER THAN THE INFLOW/ OUTFLOW PIPE.

7

POLLUTION RETARDANT BAFFLE DETAIL

SCALE: NOT TO SCALE



SURFACE RESTORATION

REVISIONS			
BY	DATE		
		SURFACE RESTORATION	
			DATE: FEB. 1998
		SCALE: N.T.S.	DWG. NO. 306-2

ENGINEERING STANDARDS 2019

1. OUTLINE OF TRENCH EXCAVATION IS FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL TRENCH WIDTH AND SHAPE WILL VARY WITH SOIL CONDITIONS. TRENCH EXCAVATION SHALL BE IN ACCORDANCE WITH THE "FLORIDA TRENCH SAFETY ACT" AND OSHA TRENCH SAFETY STANDARDS.
2. TYPICAL TRENCH BACKFILL/BEDDING FOR WATER MAIN AND FORCE MAIN INSTALLATIONS SHALL BE CLASS "A" AS SHOWN IN DETAIL.
3. TYPICAL TRENCH BACKFILL/BEDDING FOR GRAVITY SEWER INSTALLATION SHALL BE CLASS "B" AS SHOWN IN DETAIL.
4. TRENCH BACKFILL/BEDDING CLASS "C" AND CLASS "D" SHALL BE USED FOR PIPE INSTALLATIONS WHERE UNSITABLE TRENCH MATERIALS ARE ENCOUNTERED.
5. TRENCH ZONE BACKFILL SHALL BE MATERIAL TYPE 1 OR TYPES A THRU H, OR ANY MIXTURE THEREOF, WHERE SURFACE RESTORATION TYPE "1" IS APPLICABLE, TRENCH ZONE BACKFILL SHALL BE PLACED IN 12" LIFTS, COMPACTED TO 90% OF THE MATERIAL'S MAXIMUM DENSITY AS DETERMINED BY ASTM D-697 (AASHTO T-99). WHERE SURFACE RESTORATION TYPES "2", "3" AND "4" ARE APPLICABLE, TRENCH BACKFILL SHALL BE PLACED IN 8" LIFTS COMPACTED TO 98% OF THE MATERIAL'S DENSITY AS DETERMINED BY ASTM D-698 (AASHTO T-99).
6. BEDDING MATERIAL FOR TYPICAL WATER MAIN AND FORCE MAIN INSTALLATION SHALL BE TYPE C. BEDDING SHALL BE COMPACTED TO 95% OF THE MATERIAL'S MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 (AASHTO T-180).
7. BEDDING MATERIAL FOR TYPICAL GRAVITY SEWER INSTALLATION AND ANY INSTALLATION WHERE UNSUITABLE TRENCH BOTTOM CONDITIONS ARE FOUND SHALL BE TYPE E. BEDDING SHALL BE PLACED IN LIFTS NOT TO EXCEED 6" AND COMPACTED TO 95% OF THE MATERIAL'S MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 (AASHTO T-180).
8. UNSUITABLE MATERIAL SHALL BE REMOVED TO UNDISTURBED ROCK OR SAND OR TO DEPTH AS SPECIFIED BY ENGINEER. BACKFILL MATERIAL SHALL BE TYPE C. BACKFILL SHALL BE PLACED IN 8" LIFTS COMPACTED TO 95% OF THE MATERIAL'S MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 AASHTO T-180).

TRENCH BACKFILL / BEDDING NOTES

REVISIONS			
BY	DATE		
		TRENCH BACKFILL / BEDDING	
			DATE: JUNE 1996
		SCALE: N.T.S.	DWG. NO. 203-3

ENGINEERING STANDARDS 2019

9. BEDDING TYPES – THE FOLLOWING TYPES OF SUITABLE MATERIALS ARE DESIGNATED AND DEFINED AS FOLLOWING:

TYPE A: CRUSHED LIMEROCK OR SAND WITH 100 PERCENT PASSING A 1 INCH SIEVE AND A SAND EQUIVALENT VALUE NOT LESS THAN 50.

TYPE B: CRUSHED LIMEROCK OR SAND WITH 100 PERCENT PASSING A 1/2 INCH SIEVE AND A SAND EQUIVALENT VALUE NOT LESS THAN 50.

TYPE C: SAND WITH 100 PERCENT PASSING A 3/8 INCH SIEVE, AT LEAST 90 PERCENT PASSING A NUMBER 4 SIEVE, AND A SAND EQUIVALENT VALUE NOT LESS THAN 30.

TYPE D: CRUSHED LIMEROCK WITH 100 PERCENT PASSING A 1 INCH SIEVE AND NOT MORE THAN 10 PERCENT A NUMBER 4 SIEVE.

TYPE E: CRUSHED LIMEROCK OR SAND WITH 100 PERCENT PASSING A 3/4 INCH SIEVE AND NOT MORE THAN 10 PERCENT PASSING A NUMBER 4 SIEVE.

TYPE F: CRUSHED LIMEROCK MEETING THE FOLLOWING GRADATION REQUIREMENTS.

SIEVE SIZE	PERCENTAGE PASSING
2 INCH	100
1-1/2 INCH	90–100
1 INCH	20–55
3/4 INCH	0–15
NO. 200	0–3

TRENCH BACKFILL / BEDDING NOTES

REVISIONS			
BY	DATE		
		TRENCH BACKFILL / BEDDING	
			DATE: JUNE 1996
		SCALE: N.T.S.	DWG. NO. 203-4

ENGINEERING STANDARDS 2019

PRELIMINARY PLAN
NOT FOR CONSTRUCTION

THESE PLANS ARE NOT FULLY PERMITTED AND ARE SUBJECT TO REVISIONS MADE DURING THE PERMITTING PROCESS. RESPONSIBILITY FOR THE USE OF THESE PLANS PRIOR TO OBTAINING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT WILL FALL SOLELY UPON THE USER.

CONCEPTUAL DESIGN	YYYY-MM-DD
SCHEMATIC DESIGN	YYYY-MM-DD
DESIGN DEVELOPMENT	YYYY-MM-DD
CONSTRUCTION DOCUMENTS	YYYY-MM-DD
PLAN CHECK SUBMITTAL	YYYY-MM-DD
PERMIT SET	YYYY-MM-DD
BID ISSUE	YYYY-MM-DD
CONSTRUCTION ISSUE	YYYY-MM-DD

THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

ART AND CULTURE CENTER EDUCATION FACILITY

1650 HARRISON STREET HOLLYWOOD, FL 33020

PROJECT NUMBER: 01924.0
KEITH PROJECT NUMBER: 10842.00

REVISIONS:
1 --
2 --
3 --
4 --
5 --
6 --

SHEET TITLE: PAVING, GRADING AND DRAINAGE DETAILS

SCALE: AS SHOWN
DATE PRINTED: 2021-01-04

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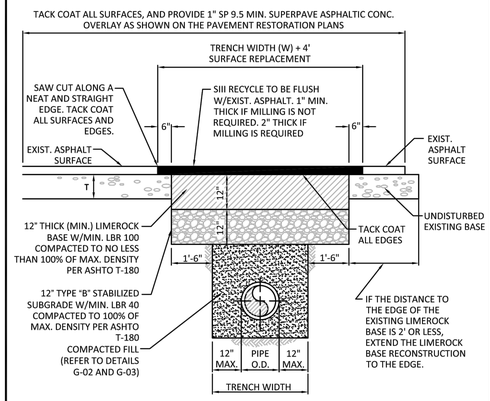
CP-502

VP SCALE: 1" / 1'

FLEXIBLE PAVEMENT RESTORATION NOTES:

1. THE ABOVE DETAILS APPLY ONLY TO ASPHALT PAVEMENT RESTORATION OVER UTILITY TRENCHES CUT WITHIN CITY OF HOLLYWOOD RIGHTS-OF-WAY. FOR PAVEMENT RESTORATION WITHIN BROWARD COUNTY OR FDOT RIGHTS-OF-WAY REFER TO THE CORRESPONDING DETAILS FOR THOSE AGENCIES.
2. LIMEROCK BASE MATERIAL SHALL HAVE A MINIMUM L.B.R. OF 100 AND A MINIMUM CARBONATE CONTENT OF 70%. REPLACED BASE MATERIAL OVER TRENCH SHALL BE A MINIMUM OF 12" THICK".
3. LIMEROCK BASE MATERIAL SHALL BE PLACED IN 12" MAXIMUM (LOOSE MEASUREMENT) THICKNESS LAYERS WITH EACH LAYER THOROUGHLY ROLLED OR TAMPED AND COMPACTED TO 100% OF MAXIMUM DENSITY, PER AASHTO T-180, PRIOR TO THE PLACEMENT OF THE SUCCEEDING LAYERS.
4. STABILIZED SUBGRADE MATERIAL SHALL BE GRANULAR AND SHALL HAVE A MINIMUM L.B.R. OF 40.
5. BACKFILL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE PIPE LAYING CONDITION TYPICAL SECTIONS IN DETAILS G-02 AND G-03, AND THE SPECIFICATIONS, BUT TESTING WILL BEGIN 12" ABOVE THE INSTALLED FACILITY.
6. ALL EDGES AND JOINTS OF EXISTING ASPHALT PAVEMENT SHALL BE SAW CUT TO STRAIGHT LINES, PARALLEL TO OR PERPENDICULAR TO THE ROADWAY, PRIOR TO THE RESURFACING.
7. RESURFACING MATERIAL SHALL BE FDOT SUPERPAVE, AND SHALL BE APPLIED A MINIMUM OF TWO INCH IN THICKNESS.
8. MILL AND BUTT JOINT TO EXISTING PAVEMENT.
9. IF THE TRENCH IS FILLED TEMPORARILY, IT SHALL BE COVERED WITH A 2" ASPHALTIC CONCRETE PATCH TO KEEP THE FILL MATERIAL FROM RAVELING UNTIL REPLACED WITH A PERMANENT PATCH.
10. REFER TO SPECIFICATIONS FOR DETAILED PROCEDURES.
11. WHERE THE UTILITY TRENCH CROSSES EXISTING ASPHALT DRIVEWAYS, THE LIMEROCK BASE THICKNESS MAY BE A MINIMUM OF 6 INCHES THICK. REGARDLESS OF THE EXTENT OF IMPACT, THE ENTIRE DRIVEWAY SURFACE BETWEEN THE EDGE OF THE ROADWAY PAVEMENT AND PROPERTY LINE OR FRONT OF SIDEWALK SHALL BE OVERLAID USING 2-INCH THICK MINIMUM ASPHALTIC CONCRETE SURFACE COURSE WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE CITY/ENGINEER.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL		REVISED: 11/06/2017
DRAWN: EAM	FLEXIBLE PAVEMENT RESTORATION NOTES		DRAWING NO. G-12
APPROVED: XXX			



ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL		REVISED: 11/06/2017
DRAWN: EAM	FLEXIBLE PAVEMENT RESTORATION FOR TRENCHES CUT PERPENDICULAR AND PARALLEL TO THE ROADWAY		DRAWING NO. G-12.1
APPROVED: XXX			

PRELIMINARY PLAN
NOT FOR CONSTRUCTION

THESE PLANS ARE NOT FULLY PERMITTED AND ARE SUBJECT TO REVISIONS MADE DURING THE PERMITTING PROCESS. RESPONSIBILITY FOR THE USE OF THESE PLANS PRIOR TO OBTAINING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT WILL FALL SOLELY UPON THE USER.

CONCEPTUAL DESIGN	YYYY-MM-DD
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THOMAS F. DONAHUE, P.E.
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ART AND CULTURE CENTER EDUCATION FACILITY

1650 HARRISON STREET HOLLYWOOD, FL 33020

PROJECT NUMBER: 01924.0

KEITH PROJECT NUMBER: 10842.00

REVISIONS:

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2	--	5	--
3	--	6	--

SHEET TITLE:
PAVING, GRADING AND DRAINAGE DETAILS

SCALE: AS SHOWN

DATE PRINTED: 2021-01-04

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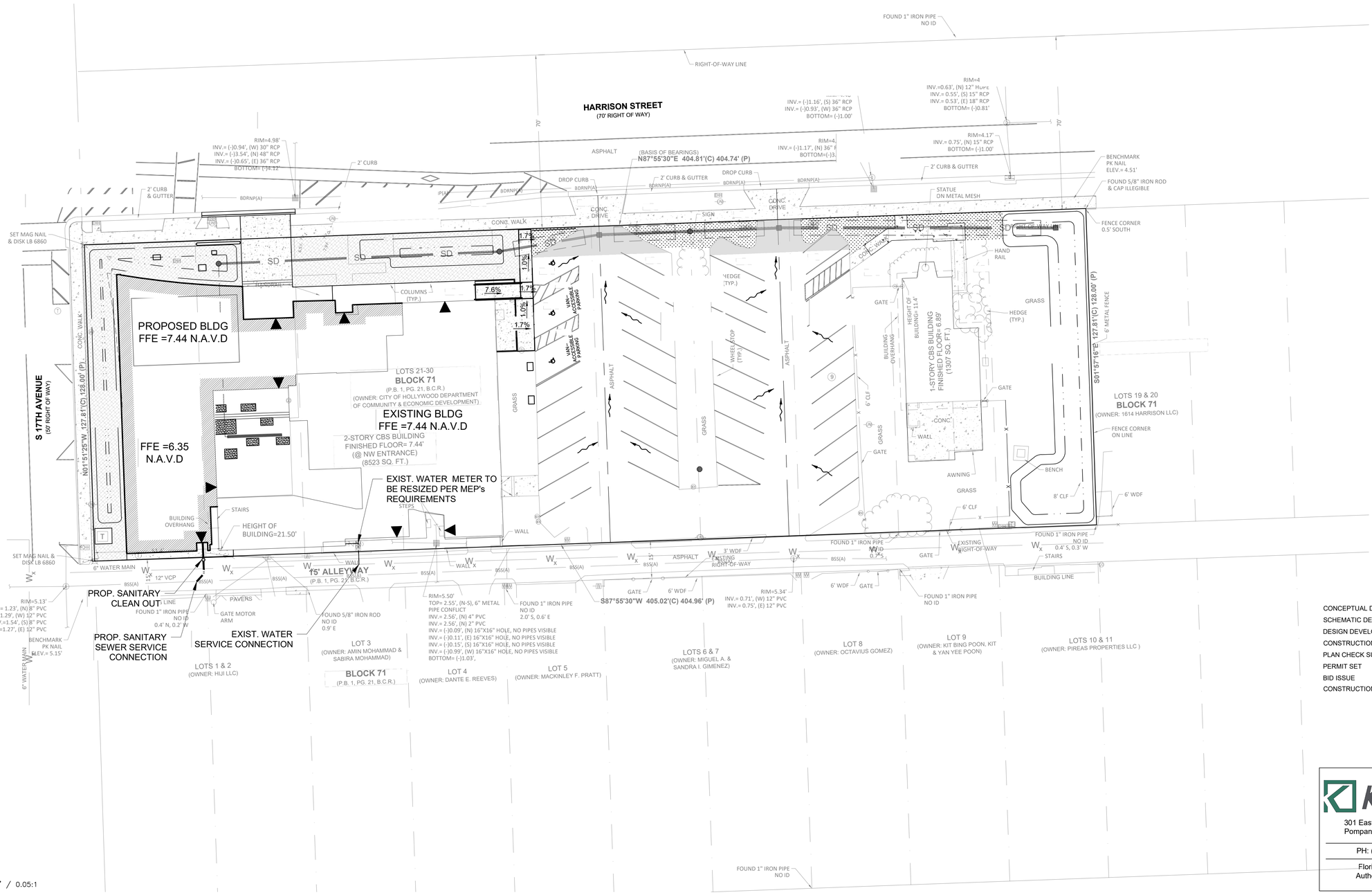
CP-503



VP SCALE: 1"=20' / 0.05:1

N

GRAPHIC SCALE
0 20 40
SCALE: 1" = 20

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

PRELIMINARY PLAN
NOT FOR CONSTRUCTION

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PROJECT NUMBER: 01924.0

KEITH PROJECT NUMBER: 10842.00

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SHEET TITLE:
WATER AND SEWER PLAN

SCALE: AS SHOWN
DATE PRINTED: 2021-01-04

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CU-101

WATER SYSTEM NOTES:

1. NEW OR RELOCATED UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT THAT WILL CROSS ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE OTHER PIPELINE OR AT LEAST 12 INCHES BELOW THE OTHER PIPELINE.
2. NEW OR RELOCATED UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT THAT WILL CROSS ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPELINE. [FAC 62-555.314(2); EXCEPTIONS ALLOWED UNDER FAC 62-555.314(5)].
3. AT ALL UTILITY CROSSINGS DESCRIBED ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE WILL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE, OR THE PIPES WILL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORM WATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. [FAC 62-555.314(2); EXCEPTIONS ALLOWED UNDER FAC 62-555.314(5)].
4. NEW UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT TO BE DUCTILE IRON PIPE (D.I.P.) WHEN CROSSING BELOW SANITARY SEWER MAINS.
5. POLYETHYLENE ENCASEMENT MATERIAL SHALL BE USED TO ENCASE ALL BURIED DUCTILE IRON PIPE, FITTINGS, VALVES, RODS, AND APPURTENANCES IN ACCORDANCE WITH AWWA C105, METHOD A. THE POLYETHYLENE TUBING SHALL BE CUT TWO FEET LONGER THAN THE PIPE SECTION AND SHALL OVERLAP THE ENDS OF THE PIPE BY ONE FOOT. THE POLYETHYLENE TUBING SHALL BE GATHERED AND LAPPED TO PROVIDE A SNUG FIT AND SHALL BE SECURED AT QUARTER POINTS WITH POLYETHYLENE TAPE. EACH END OF THE POLYETHYLENE TUBING SHALL BE SECURED WITH A WRAP OF POLYETHYLENE TAPE.
6. THE POLYETHYLENE TUBING SHALL PREVENT CONTACT BETWEEN THE PIPE AND BEDDING MATERIAL, BUT IS NOT INTENDED TO BE A COMPLETELY AIRTIGHT AND WATERTIGHT ENCLOSURE. DAMAGED POLYETHYLENE TUBING SHALL BE REPAIRED IN A WORKMANLIKE MANNER USING POLYETHYLENE TAPE, OR THE DAMAGED SECTION SHALL BE REPLACED. POLY WRAP WILL NOT BE PAID FOR AS A SEPARATE BID ITEM. IT SHALL BE CONSIDERED TO BE A PART OF THE PRICE BID FOR WATER MAINS.
7. FIRE HYDRANT BARRELS SHALL BE ENCASED IN POLY WRAP UP TO THE GROUND SURFACE AND THE WEEP HOLES SHALL NOT BE COVERED BY THE POLY WRAP.
8. GATE VALVES FOR USE WITH PIPE LESS THAN THREE INCHES (3") IN DIAMETER SHALL BE RATED FOR TWO HUNDRED (200) PSI WORKING PRESSURE, NON-SHOCK, BLOCK PATTERN, SCREWED BONNET, NON-RISING STEM, BRASS BODY, AND SOLID WEDGE. THEY SHALL BE STANDARD THREADED FOR PVC PIPE AND HAVE A MALLEABLE IRON HANDWHEEL. GATE VALVES 3" THROUGH 16" IN DIAMETER SHALL BE RESILIENT SEAT AND BIDIRECTIONAL FLOW ONLY. VALVES FOR SPECIAL APPLICATIONS WILL REQUIRE CITY UTILITY APPROVAL.
9. VALVE BOXES AND COVERS FOR ALL SIZE VALVES SHALL BE OF CAST IRON CONSTRUCTION AND ADJUSTABLE SCREW-ON TYPE. THE LID SHALL HAVE CAST IN THE METAL THE WORD "WATER" FOR THE WATER LINES. ALL VALVE BOXES SHALL BE SIX INCH (6") NOMINAL DIAMETER AND SHALL BE SUITABLE FOR DEPTHS OF THE PARTICULAR VALVE. THE STEM OF THE BURIED VALVE SHALL BE WITHIN TWENTY-FOUR INCHES (24") OF THE FINISHED GRADE UNLESS OTHERWISE APPROVED BY THE CITY.
10. ALL WATER MAIN INSTALLATIONS SHALL COMPLY WITH THE COLOR CODING REQUIREMENTS OF CHAPTER 62-555.320 F.A.C.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL		REVISED: 06/08/2014
DRAWN: EAM	WATER SYSTEM NOTES		DRAWING NO. W-01
APPROVED: XXX			

WATER SYSTEM NOTES (CONTINUED):

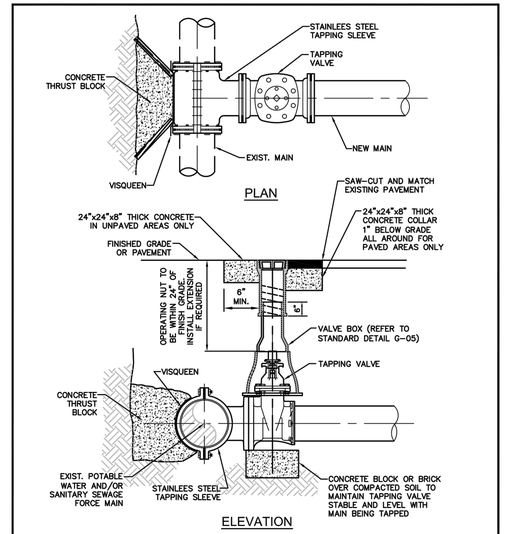
11. ALL WATER MAIN INSTALLATIONS SHALL COMPLY WITH THE COLOR CODING REQUIREMENTS OF CHAPTER 62-555.320 F.A.C.
12. ALL PVC PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI/AWWA C900 LATEST REVISION AND CLASS DR 18. ALL DIP WATER MAINS SHALL BE DUCTILE IRON PRESSURE CLASS 350, WITH WALL THICKNESS COMPLYING WITH CLASS 52. ALL DUCTILE IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI/AWWA C151/A21.51-02 AND BE CEMENT LINED AND SEAL COATED PER ANSI/AWWA C104/A21.4-03.
13. FITTINGS SHALL BE DUCTILE IRON, MEETING ANSI/AWWA C153/A21.53-00 SPECIFICATIONS, WITH 350 PSI MINIMUM WORKING PRESSURE. FITTINGS MUST BE CEMENT LINED AND SEAL COATED PER ANSI/AWWA C104/A21.4-03. ALL DUCTILE IRON PIPE AND FITTINGS MUST BE MANUFACTURED IN THE UNITED STATES OF AMERICA.
14. ALL DUCTILE IRON PIPE TO BE MECHANICAL JOINTS, WRAPPED IN POLY. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED AS DETERMINED BY DESIGN.
15. PAVEMENT RESTORATION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY.
16. ALL TRENCHING, PIPE LAYING, BACKFILL, PRESSURE TESTING, AND DISINFECTING MUST COMPLY WITH THE CITY OF HOLLYWOOD SPECIFICATIONS.
17. THE MINIMUM DEPTH OF COVER OVER WATER MAINS IS 30" (DIP) OR 36" (PVC).
18. MINIMUM HORIZONTAL SEPARATION BETWEEN STORM STRUCTURES AND WATER MAINS SHALL BE 3'.
19. MAXIMUM DEFLECTION PER EACH JOINT SHALL BE 50% OF MANUFACTURES RECOMMENDATION (MAXIMUM) WHERE DEFLECTION IS REQUIRED.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING CONFLICTS WITH WATER MAINS PLACED AT MINIMUM COVER. IN CASE OF CONFLICT, WATER MAIN SHALL BE LOWERED TO PASS UNDER CONFLICTS WITH 18" MINIMUM VERTICAL SEPARATION. NO ADDITIONAL PAYMENT SHALL BE DUE TO CONTRACTOR FOR LOWERING THE MAIN OR THE ADDITIONAL FITTINGS USED THEREON.
21. PIPE JOINT RESTRAINT SHALL BE PROVIDED BY THE USE OF DUCTILE IRON FOLLOWER GLANDS MANUFACTURED TO ASTM A 536-80. TWIST-OFF NUTS SHALL BE USED TO ENSURE PROPER ACTUATING OF THE RESTRAINING DEVICES. THE MECHANICAL JOINT RESTRAINING DEVICES SHALL HAVE A WORKING PRESSURE OF 250 PSI MINIMUM, WITH A MINIMUM SAFETY FACTOR OF 2:1, AND SHALL BE EBAA IRON INC., MEGALUG OR APPROVED EQUAL. JOINT RESTRAINTS SHALL BE PROVIDED AT A MINIMUM OF THREE JOINTS (60 FEET) FROM ANY FITTING.
22. WHENEVER IT IS NECESSARY, IN THE INTEREST OF SAFETY, TO BRACE THE SIDES OF A TRENCH, THE CONTRACTOR SHALL FURNISH, PUT IN PLACE AND MAINTAIN SUCH SHEETING OR BRACING AS MAY BE NECESSARY TO SUPPORT THE SIDES OF THE EXCAVATION TO ENSURE PERSONNEL SAFETY, AND TO PREVENT MOVEMENT WHICH CAN IN ANY WAY DAMAGE THE WORK OR ENDANGER ADJACENT STRUCTURES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SEQUENCE, METHODS AND MEANS OF CONSTRUCTION, AND FOR THE IMPLEMENTATION OF ALL OSHA AND OTHER SAFETY REQUIREMENTS.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL		REVISED: 06/08/2014
DRAWN: EAM	WATER SYSTEM NOTES		DRAWING NO. W-02
APPROVED: XXX			

WATER METER SERVICE NOTES:

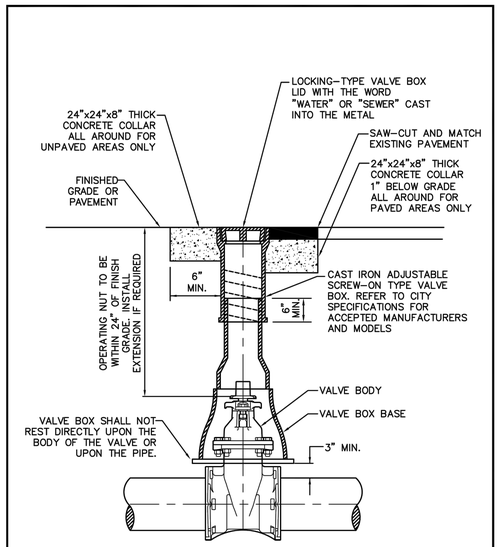
1. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED NOT LESS THAN 18" ON CENTER.
2. P.E. TUBING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARD C901, "POLYETHYLENE (PE) PRESSURE PIPE AND TUBING, 1/2 IN. (13mm) THROUGH 3 IN. (76 mm), FOR WATER SERVICE".
3. MINIMUM SERVICE PIPE DIAMETER SHALL BE 1" FOR SINGLE OR DUAL ¾" OR SINGLE 1" DIAMETER METERS.
4. MINIMUM SERVICE PIPE DIAMETER SHALL BE 2" FOR SINGLE OR DUAL 1-½" OR SINGLE 2" DIAMETER METERS.
5. FOR METER DIAMETERS LARGER THAN 2", THE MINIMUM SERVICE PIPE DIAMETER SHALL BE THE SAME AS THE METER DIAMETER.
6. APPROVED COPPER TUBING MAY BE USED AT THE CITY'S DISCRETION.
7. FOR NEW METER INSTALLATIONS, ALL SADDLES, VALVES, PIPING, FITTINGS,CURB STOPS, METER VALVES, METER COUPLINGS, METER VAULTS AND COVERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THE WATER METERS WILL BE PROVIDED AND INSTALLED BY THE CITY OF HOLLYWOOD (NEW ACCOUNTS).
8. FOR METER RELOCATIONS, ALL SADDLES, VALVES, PIPING, FITTINGS, CURB STOPS, METER VALVES, METER COUPLINGS, METER VAULTS AND COVERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THE EXISTING WATER METER TO BE RELOCATED AND INSTALLED BY CONTRACTOR.
9. FOR EXISTING METERS ABUTTING THE RIGHT-OF-WAY THAT ARE BEING DISCONNECTED FROM EXISTING MAINS AND RECONNECTED TO NEW MAINS, THE CONTRACTOR SHALL:
   a. CUT AND PLUG THE EXISTING SERVICE LINE AT THE MAIN AND AT THE METER, AND REMOVE THE EXISTING BALL VALVE CURB STOP.
   b. FURNISH AND INSTALL SERVICE SADDLE, CORPORATION STOP OR SERVICE VALVE AND VALVE BOX, PIPING AND FITTINGS UP TO AND INCLUDING THE BALL VALVE CURB STOP.
12. THE ELEVATION AT THE TOP OF THE METER BOX SHALL MATCH THE ELEVATION OF THE BACK OF SIDEWALK, WHENEVER PRACTICAL.
13. AS PART OF THE SERVICE INSTALLATION, THE CONTRACTOR SHALL RESTORE THE RIGHT-OF-WAY TO MATCH EXISTING CONDITIONS, INCLUDING ROADWAY PAVEMENT, PAVEMENT MARKINGS AND RPMs, CONCRETE CURBS, SIDEWALKS, RAMPS (INCLUDING DETECTABLE WARNING SURFACE), SODDING, AND ALL OTHER IMPROVEMENTS REMOVED OR DAMAGED DURING THE SERVICE INSTALLATION.
14. FOR UNPAVED AREAS, THE MINIMUM GROUND COVER ACCEPTED BY THE CITY IS SODDING.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL		REVISED: 11/06/2017
DRAWN: EAM	WATER METER SERVICE NOTES FOR 5/8" THROUGH 2" METERS		DRAWING NO. W-07
APPROVED: XXX			



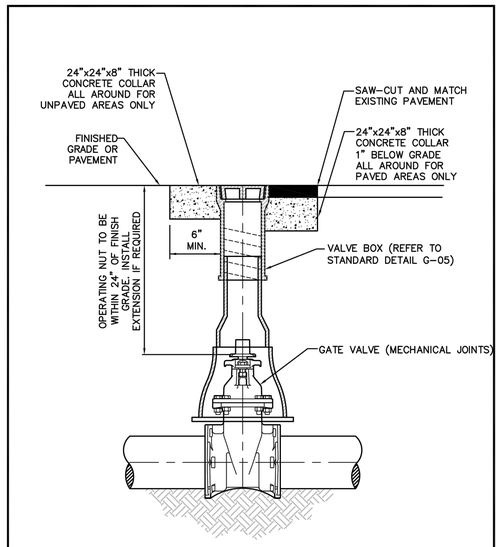
NOTES:
1. NOTIFY THE CITY OF HOLLYWOOD 48 HOURS IN ADVANCE OF PROPOSED TAP.
2. TAPPING MUST BE DONE IN THE PRESENCE OF AN AUTHORIZED CITY REPRESENTATIVE.
3. TEMPORARY THRUST BLOCKS TO BE INSTALLED AND REMAIN IN PLACE DURING TAPPING OPERATIONS.
4. FOR SEWAGE FORCE MAINS, REFER TO DETAIL OF PRIVATE FORCE MAIN TIE-IN AT PROPERTY LINE.
5. FOR WATER MAINS, A GATE VALVE OF SAME DIAMETER SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF THE TAPPING VALVE.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL		REVISED: 06/08/2014
DRAWN: EAM	TYPICAL TAPPING SLEEVE AND VALVE SETTING		DRAWING NO. G-06
APPROVED: XXX			

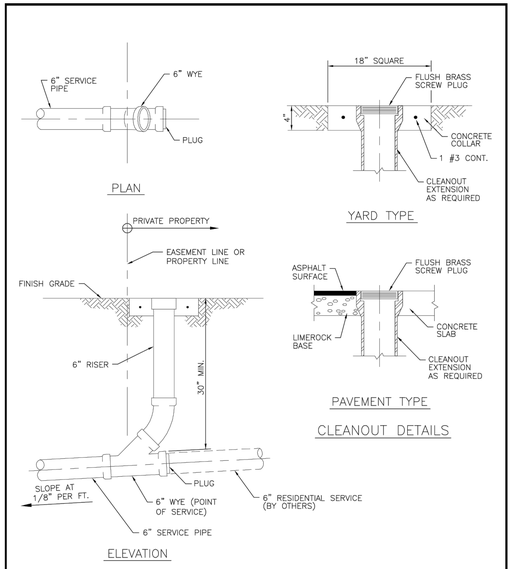


ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL		REVISED: 06/08/2014
DRAWN: EAM	TYPICAL VALVE BOX SETTING		DRAWING NO. G-05
APPROVED: XXX			

VP SCALE: 1" = 1' / 1:1



ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL		REVISED: 06/08/2014
DRAWN: EAM	TYPICAL GATE VALVE AND VALVE BOX SETTING		DRAWING NO. G-07
APPROVED: XXX			



ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL		REVISED: 06/08/2014
DRAWN: EAM	SEWER SERVICE CONNECTION AND CLEANOUT AT PROPERTY LINE		DRAWING NO. S-12
APPROVED: XXX			

PRELIMINARY PLAN
NOT FOR CONSTRUCTION
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THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)

ART AND CULTURE CENTER EDUCATION FACILITY

1650 HARRISON STREET HOLLYWOOD, FL 33020

PROJECT NUMBER: 01924.0
KEITH PROJECT NUMBER: 10842.00

REVISIONS:
1 --
2 --
3 --
4 --
5 --
6 --

KEITH
301 East Atlantic Boulevard
Pompano Beach, FL 33060
PH: (954) 788-3400
Florida Certificate of Authorization # - 7928

SHEET TITLE: WATER AND SEWER DETAILS

SCALE: AS SHOWN
DATE PRINTED: 2021-01-04

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CU-501

SEWER NOTES:

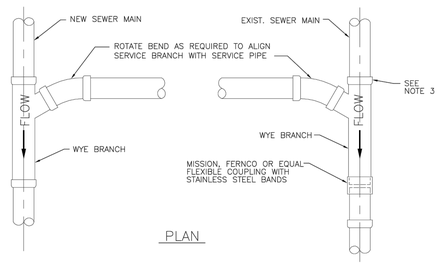
1. THE MINIMUM DEPTH OF COVER OVER D.I.P. SANITARY SEWER GRAVITY OR FORCE MAINS IS 30". THE MINIMUM DEPTH OF COVER OVER PVC SANITARY SEWER OR FORCE MAINS IS 36".
2. ALL CONNECTIONS TO EXISTING MAINS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. LEAKAGE TESTS AND ALIGNMENT (LAMPING) TESTS SHALL BE PERFORMED ON ALL NEW SEWER LINES UP TO THE CONNECTION POINT WITH THE EXISTING SEWER SYSTEM. THESE TESTS SHALL BE REQUESTED AND PAID FOR BY THE CONTRACTOR.
4. LAMPING TESTS SHALL BE PERFORMED ON GRAVITY SEWERS FROM MANHOLE TO MANHOLE UP TO AND INCLUDING THE POINT OF CONNECTION TO THE EXISTING SEWER SYSTEM.
5. LEAKAGE TESTS SHALL BE PERFORMED ON ALL SEGMENTS OF A GRAVITY SEWER SYSTEM, INCLUDING SERVICE LATERALS AND MANHOLES, FOR A CONTINUOUS PERIOD OF NO LESS THAN 2 HOURS. AT THE END OF THE TEST, THE TOTAL MEASURED LEAKAGE SHALL NOT EXCEED 100 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM, WITH ZERO ALLOWABLE LEAKAGE FOR LATERALS AND MANHOLES. AN EXFILTRATION OR INFILTRATION TEST SHALL BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET ON THE SECTION BEING TESTED.
6. FORCE MAINS SHALL BE PRESSURE-TESTED IN ACCORDANCE WITH RULE 62-555.330 (FAC). THE PRESSURE TEST SHALL CONSIST OF HOLDING A TEST PRESSURE OF 150 PSI ON THE PIPELINE FOR A CONTINUOUS PERIOD OF 2 HOURS THE MAXIMUM ALLOWABLE LEAKAGE SHALL BE DETERMINED BY THE FOLLOWING FORMULA:

$$\frac{L = S \times D \times \sqrt{P}}{148{,}000}$$

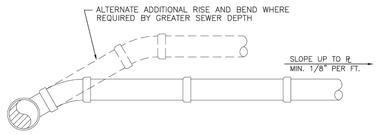
WHERE:
L = ALLOWABLE LEAKAGE FOR SYSTEM IN GALLONS PER HOUR
D = PIPE DIAMETER IN INCHES
S = LENGTH OF LINES IN LINEAL FEET
P = AVERAGE TEST PRESSURE IN PSI

7. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTYFYING CONFLICTS WITH FORCE MAINS PLACED AT MINIMUM COVER. IN CASE OF CONFLICT, FORCE MAIN SHALL BE LOWERED TO PASS UNDER CONFLICTS WITH 12" MINIMUM SEPARATION FROM WATER MAINS AND 6" MINIMUM SEPARATION FROM OTHER UTILITIES. NO ADDITIONAL PAYMENT SHALL BE DUE TO CONTRACTOR FOR LOWERING THE MAIN OR THE ADDITIONAL FITTINGS USED THEREON.
8. WHENEVER IT IS NECESSARY, IN THE INTEREST OF SAFETY, TO BRACE THE SIDES OF A TRENCH, THE CONTRACTOR SHALL FURNISH, PUT IN PLACE AND MAINTAIN SUCH SHEETING OR BRACING AS MAY BE NECESSARY TO SUPPORT THE SIDES OF THE EXCAVATION TO ENSURE PERSONNEL SAFETY, AND TO PREVENT MOVEMENT WHICH CAN IN ANY WAY DAMAGE THE WORK OR ENDANGER ADJACENT STRUCTURES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SEQUENCE, METHODS AND MEANS OF CONSTRUCTION, AND FOR THE IMPLEMENTATION OF ALL OSHA AND OTHER SAFETY REQUIREMENTS.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL		REVISED: 06/08/2014
DRAWN: EAM	SANITARY SEWER MAIN CONSTRUCTION NOTES		DRAWING NO. S-01
APPROVED: XXX			



PLAN

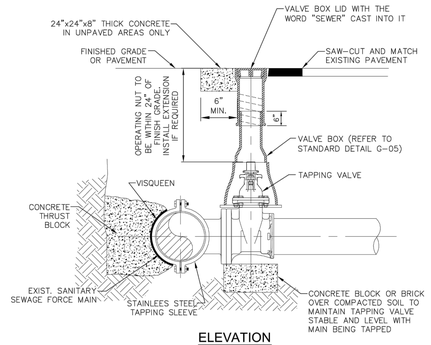


ELEVATION

NOTES:

1. SINGLE SERVICE CONNECTIONS SHALL USE 6" PIPE AND FITTINGS.
2. USE RISER CONNECTIONS WHERE INVERT OF SEWER IS GREATER THAN 7'-0" DEEP.
3. WHERE BELL OF WYE AND SPIGOT OF EXISTING MAIN ARE NOT COMPATIBLE, USE A SECOND FLEXIBLE COUPLING.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL		REVISED: 06/08/2014
DRAWN: EAM	WYE BRANCH CONNECTION		DRAWING NO. S-09
APPROVED: XXX			

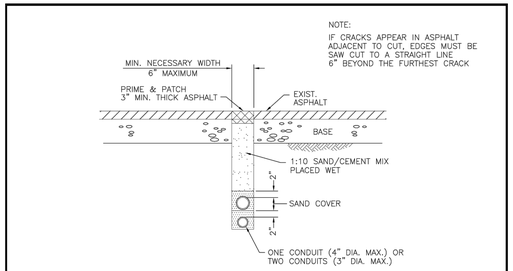


ELEVATION

NOTES:

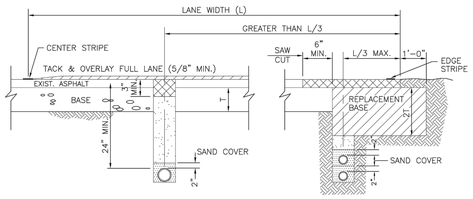
1. REFER TO STANDARD DETAIL GS-06, "TYPICAL TAPPING SLEEVE AND VALVE SETTING"
2. REFER TO STANDARD DETAIL S-14, "PRIVATE FORCE MAIN TIE-IN AT PROPERTY LINE".

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL		REVISED: 06/08/2014
DRAWN: EAM	FORCE MAIN CONNECTION		DRAWING NO. S-13
APPROVED: XXX			



DETAIL "A"

MINIMUM UTILITY CROSSING OF ROADWAY



DETAIL "B"

DETAIL "C"

MINIMUM PARALLEL UTILITY INSTALLATION

NOTE:
DETAILS NOT SHOWN SHALL BE AS PER DETAIL "A"

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL		REVISED: 06/08/2014
DRAWN: EAM	FLEXIBLE PAVEMENT RESTORATION FOR CONDUIT		DRAWING NO. G-12.2
APPROVED: XXX			

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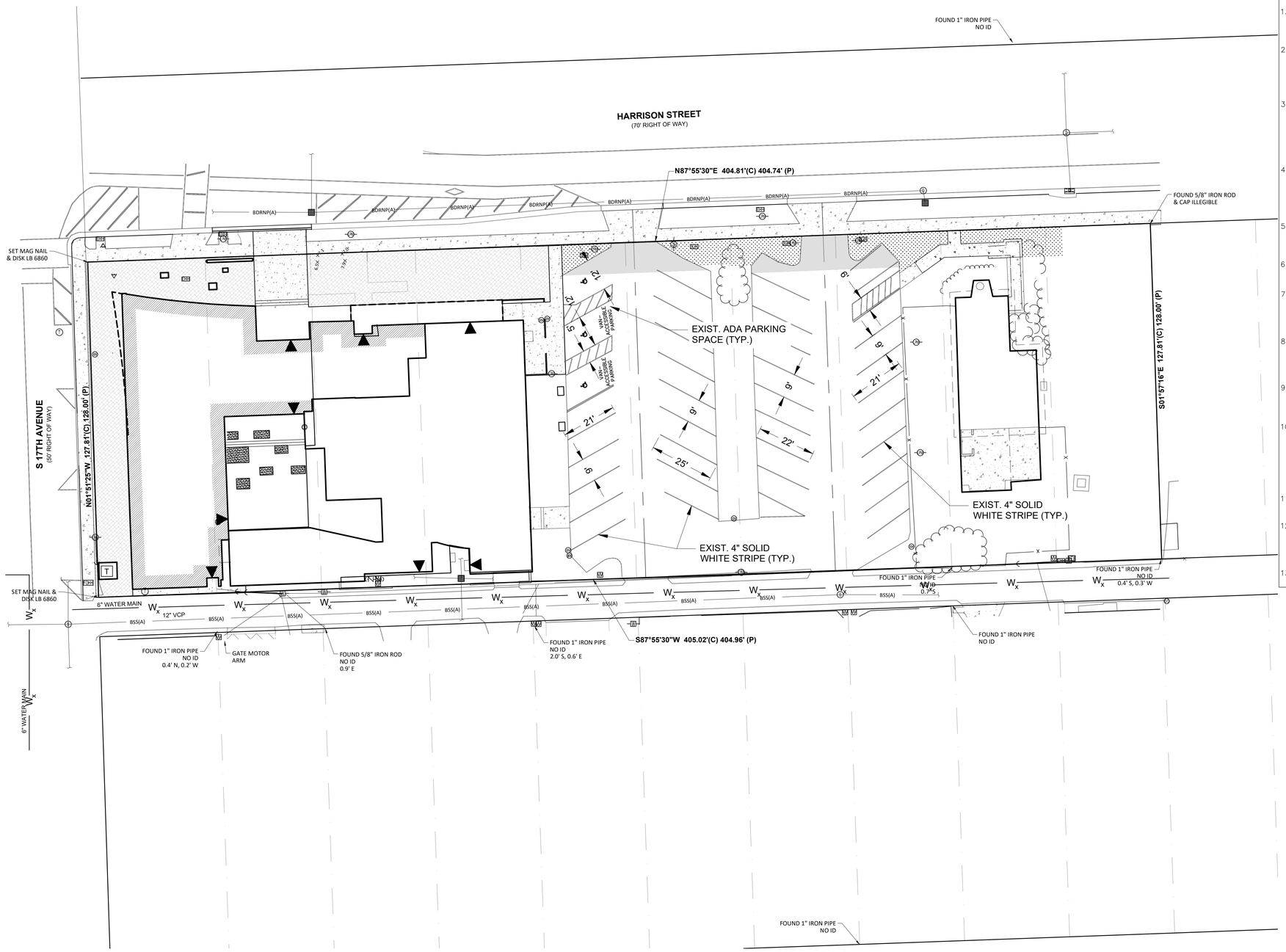

VP SCALE: 1"=20' / 0.05:1

N

GRAPHIC SCALE
0 20 40
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NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

LEGEND:

- 6" DOUBLE YELLOW STRIPING
- 24" WHITE STOP BAR
- R1-1 30" x 30" 'STOP' SIGN
- 6" 10'-30' SKIP YELLOW

PAVEMENT MARKING AND SIGNAGE NOTES:

1. EXISTING NO PARKING SIGNS WITHIN THE RIGHT OF WAY SWALE SHALL BE REMOVED IN AREAS OF PROPOSED CURBING.
2. ALL EXISTING TRAFFIC CONTROL SIGNAGE AND PAVEMENT MARKINGS IN CONFLICT WITH THE PROPOSED TRAFFIC CONTROL SIGNAGE AND PAVEMENT MARKINGS WILL BE REMOVED OR RELOCATED BY THE CONTRACTOR.
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), CURRENT BROWARD COUNTY TRAFFIC ENGINEERING DIVISION STANDARDS (CURRENT EDITION), AND THE CITY OF HOLLYWOOD'S ZONING AND LAND DEVELOPMENT REGULATIONS.
4. MARKINGS SHALL CONFORM TO FDOT STANDARD SPECIFICATIONS, SECTION 711, DESIGN STANDARDS, INDEX 17346, AND THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION STANDARDS AND SPECIFICATIONS (CURRENT EDITION).
5. ALL ON-SITE MARKINGS SHALL BE PAINT EXCEPT 24" SOLID WHITE STOP BAR WHICH SHALL BE THERMOPLASTIC OR AS INDICATED ON PLANS.
6. VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF SIGN POSTS.
7. ALL PAVEMENT MARKINGS AND SIGNING DAMAGED DURING CONSTRUCTION, SHALL BE RESTORED TO BROWARD COUNTY TRAFFIC ENGINEERING DIVISION STANDARDS (CURRENT ADDITION).
8. THE CONTRACTOR SHALL PROVIDE A COPY OF THEIR BROWARD COUNTY CERTIFICATE OF COMPETENCY PRIOR TO SUBMITTING FINAL INSPECTION REQUEST TO BROWARD COUNTY TRAFFIC ENGINEERING DIVISION.
9. ALL SIGNS TO FOLLOW FDOT INDEX 17302 – CASE V (LOCATION IN BUSINESS OR RESIDENTIAL AREAS) AND INDEX 11860 – MIN. INSTALLATION REQUIREMENTS.
10. ALL FDC SIGNAGE SHALL BE INSTALLED PURSUANT TO CITY STANDARDS AND SHALL HAVE RED LETTERING, NOT LESS THAN 3 INCHES IN HEIGHT, ON WHITE BACKGROUND. EACH SIGN SHALL BE 18 INCHES WIDE BY 24 INCHES IN HEIGHT, AND SHALL BE CONSISTENT WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION).
11. ALL FIRE HYDRANTS REQUIRE BLUE REFLECTORS IN THE ROADWAY TO INDICATE FIRE HYDRANT LOCATIONS.
12. FIRE DEPARTMENT CONNECTION PER CITY REQUIREMENTS, REFER TO PLUMBING PLAN. INSTALL "FIRE DEPARTMENT CONNECTION, NO PARKING" SIGN TO BE FDOT AND CITY COMPLIANT AS REQUIRED.
13. STOP BARS SHALL BE A MINIMUM OF 4 FEET BEHIND THE CROSSWALK.

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PROJECT NUMBER: 01924.0

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REVISIONS:

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SHEET TITLE:
PAVEMENT MARKING AND SIGNAGE PLAN

SCALE: AS SHOWN

DATE PRINTED: 2021-01-04

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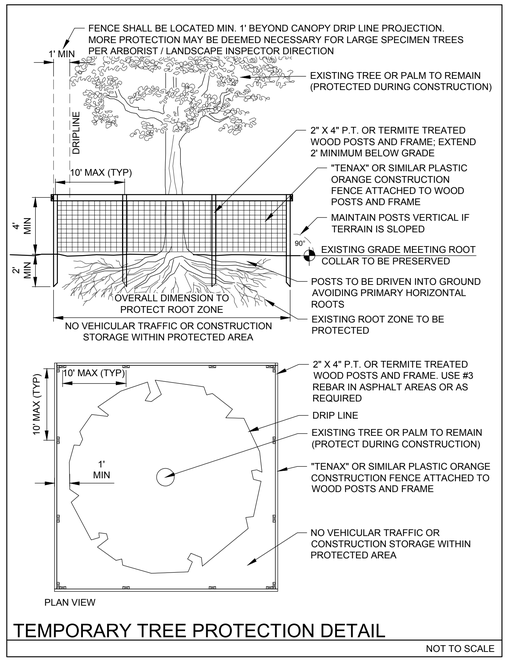
CM-101

TREE DISPOSITION LEGEND:

	EXISTING TREE/PALM TO REMAIN (NO SYMBOL); TO BE PROTECTED DURING CONSTRUCTION
△	EXISTING TREE/PALM TO RELOCATE REFER TO LANDSCAPE PLAN FOR NEW LOCATION
X	EXISTING TREE/PALM TO REMOVE REMOVE ALL CAT 1 INVASIVE EXOTICS (EX: BRAZ. PEPPER)
XXX-□□	EXISTING TREE/PALM NUMBER REFER TO TREE DISPOSITION TABLE ON LD-102

TREE DISPOSITION NOTES:

1. EXISTING TREES TO REMAIN SHALL BE TRIMMED PER ANSI-A300 STANDARDS, REMOVING WEAKEST RUBBING BRANCHES AND DEAD BRANCHES, BUT RETAINING 80% OF FOLIAGE. LARGE TREES SHALL HAVE LOWER BRANCHES CLEARED UP TO 8'.
2. SYMBOLS MAY BE SHOWN OFFSET FROM ACTUAL TREE LOCATION FOR CLARITY.
3. CONTACT LANDSCAPE ARCHITECT / ISA CERTIFIED ARBORIST FOR CLARIFICATION ON ANY DISCREPANCIES.
4. TRIMMING AND ANY NECESSARY ROOT PRUNING SHALL BE PERFORMED OR SUPERVISED BY A CERTIFIED ARBORIST.
5. ALL TREE WORK REQUIRE PERMITTING BY A REGISTERED COUNTY TREE TRIMMER.
6. BUBBLERS SHALL BE PROVIDED FOR ALL RELOCATED TREES AND PALMS.
7. REMOVAL OF ANY TREES OR PALMS WILL REQUIRE A WRITTEN "TREE REMOVAL PERMIT" FROM THE LOCAL GOVERNING AGENCY PRIOR TO REMOVAL. CONFIRM WITH LOCAL GOVERNING AGENCY THAT TREES CLASSIFIED AS NUISANCE/EXOTIC INVASIVE MAY BE EXEMPT.
8. ALL TREES AND PLANT MATERIAL TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION. REFER TO TREE PROTECTION DETAIL. THE CONTRACTOR SHALL TAKE EXTRA CAUTION TO PREVENT ANY DAMAGE TO THE TRUNK, ROOT ZONES AND GRADE.



TEMPORARY TREE PROTECTION DETAIL

NOT TO SCALE

TREE DISPOSITION TABLE - Certified by Arborist Michael J. Phillips #FL9346A

PROJECT #: 10842.00 **PROJECT NAME: Hollywood Art & Culture Center**

TREE #	COMMON NAME	SCIENTIFIC NAME	DBH IN.	TREES - HT.(FT) PALMS - CT (FT.	CNPY. FT.	TREE % CONDITION	TREE DISPOSITION	COMMENTS
924	YELLOW TAB	*"Tabebuia caraiba"*	13	15	18	70%	**REMOVE**	L, CO-D, CB, B DMG
951	ROYAL PALM	*"Roystonia elata"*		35	20	70%	**REMOVE**	
952	ROYAL PALM	*"Roystonia elata"*		32	20	65%	**REMOVE**	W CPY , OHE
989	FOXTAIL PALM	*"Wodyetia bifurcata"*		15	8	50%	**REMOVE**	W CPY , CON, MAJOR R DMG
992	PYGMY DATE PALM	*"Phoenix roebelenii"*		7	10	65%	**REMOVE**	DOUBLE, CURVED
1012	CHRISTMAS PALM	*"Adonidia merrillii"*		8	15	80%	**REMOVE**	TRIPLE, SHARED CANOPY
1015	CHRISTMAS PALM	*"Adonidia merrillii"*		8	15	80%	**REMOVE**	DOUBLE, SHARED CANOPY
1058	ROYAL PALM	*"Roystonia elata"*		30	15	70%	**REMOVE**	CON
1153	SOLITAIRE PALM	*"Ptychosperma elegans"*		20	15	70%	**REMAIN**	
1164	SOLITAIRE PALM	*"Ptychosperma elegans"*		20	15	70%	**REMAIN**	
1165	SOLITAIRE PALM	*"Ptychosperma elegans"*		20	15	70%	**REMAIN**	
1168	SOLITAIRE PALM	*"Ptychosperma elegans"*		20	15	70%	**REMAIN**	
1169	SOLITAIRE PALM	*"Ptychosperma elegans"*		20	15	70%	**REMAIN**	
1170	PYGMY DATE PALM	*"Phoenix roebelenii"*		6	10	65%	**REMOVE**	SHADED
1171	MONTGOMERY PALM	*"Veitchia montgomeryana"*		20	15	70%	**REMAIN**	TRIPLE
1172	PYGMY DATE PALM	*"Phoenix roebelenii"*		10	10	65%	**REMOVE**	SHADED, CURVED
1174	SOLITAIRE PALM	*"Ptychosperma elegans"*		25	15	70%	**REMAIN**	
1175	PYGMY DATE PALM	*"Phoenix roebelenii"*		7	8	65%	**REMOVE**	SHADED, CURVED
1176	SOLITAIRE PALM	*"Ptychosperma elegans"*		25	15	70%	**REMAIN**	
1281	ROYAL PALM	*"Roystonia elata"*		45	20	60%	**REMAIN**	CON
1319	ROYAL PALM	*"Roystonia elata"*		30	20	75%	**REMAIN**	W CNPY.
1320	PAUROTIS PALM	*"Acoelorrhaphe wrightii"*		14	6	75%	**REMAIN**	6 TRUNKS, SHARED CLUSTER
1321	PAUROTIS PALM	*"Acoelorrhaphe wrightii"*		14	5	75%	**REMAIN**	4 TRUNKS, SHARED CLUSTER
1322	ROYAL PALM	*"Roystonia elata"*		32	20	75%	**REMAIN**	
1329	CABBAGE PALM	*"Sabal palmetto"*		15	7	50%	**REMOVE**	CON, THIN, T DMG
1403	CABBAGE PALM	*"Sabal palmetto"*		16	10	60%	**REMAIN**	CON, L, OHE
1451	ROYAL PALM	*"Roystonia elata"*		30	20	80%	**REMAIN**	
1452	BOTTLE BRUSH	*"Callistemon viminalis"*	6, 4	17	15	60%	**REMAIN**	MT, CR, W CNPY
1453	ROYAL PALM	*"Roystonia elata"*		35	20	80%	**REMAIN**	
1454	ROYAL PALM	*"Roystonia elata"*		35	20	80%	**REMAIN**	CON
1459	CABBAGE PALM	*"Sabal palmetto"*		20	9	70%	**REMAIN**	L
1536	CABBAGE PALM	*"Sabal palmetto"*		16	10	65%	**REMAIN**	CON, L, THIN
1600	CABBAGE PALM	*"Sabal palmetto"*		16	9	65%	**REMAIN**	CON, L, W CNPY
1601	COCONUT PALM	*"Cocos nucifera"*		22	14	65%	**REMAIN**	CHLORTIC, SHADED, CURVED
1602	CABBAGE PALM	*"Sabal palmetto"*		14	10	65%	**REMAIN**	W CNPY., THIN
1603	BLACK OLIVE	*"Bucida buceras"*	22	40	48	75%	**REMAIN**	C-DOM, SURFACE ROOTS
1604	CABBAGE PALM	*"Sabal palmetto"*		18	9	65%	**REMAIN**	L
1626	ROYAL PALM	*"Roystonia elata"*		45	20	60%	**REMAIN**	L, CON
1768	FLORIDA THATCH PALM	*"Thrinax radiata"*		7	10	80%	**REMAIN**	
1769	FLORIDA THATCH PALM	*"Thrinax radiata"*		7	10	80%	**REMAIN**	
1770	FLORIDA THATCH PALM	*"Thrinax radiata"*		7	10	80%	**REMAIN**	
1774	DAHOON HOLLY	*"Ilex cassine"*	4	12	8	60%	**REMAIN**	MAJOR TRUNK WOUND
1790	QUEEN PALM	*"Arecastrum romanzoffianum"*		25	12	65%	**REMAIN**	
1792	DAHOON HOLLY	*"Ilex cassine"*	5	18	15	70%	**REMAIN**	
1793	PONYTAIL PALM	*"Beaucarnea recurvata"*	6,5,6	10	10	80%	**REMOVE**	TRIPLE, T DMG
1929	CABBAGE PALM	*"Sabal palmetto"*		14	8	72%	**REMAIN**	OHE
1930	CHINESE FAN PALM	*"Livistona chinensis"*		10	15	80%	**REMAIN**	DBL
1932	CHRISTMAS PALM	*"Adonidia merrillii"*		14	15	75%	**REMAIN**	DBL

11	TOTAL DBH **TO BE MITIGATED**
12	TOTAL 8' PALMS **TO BE MITIGATED**
0	TOTAL SPECIMEN DOLLAR VALUE **TO BE PAID / MITIGATED**

N

GRAPHIC SCALE

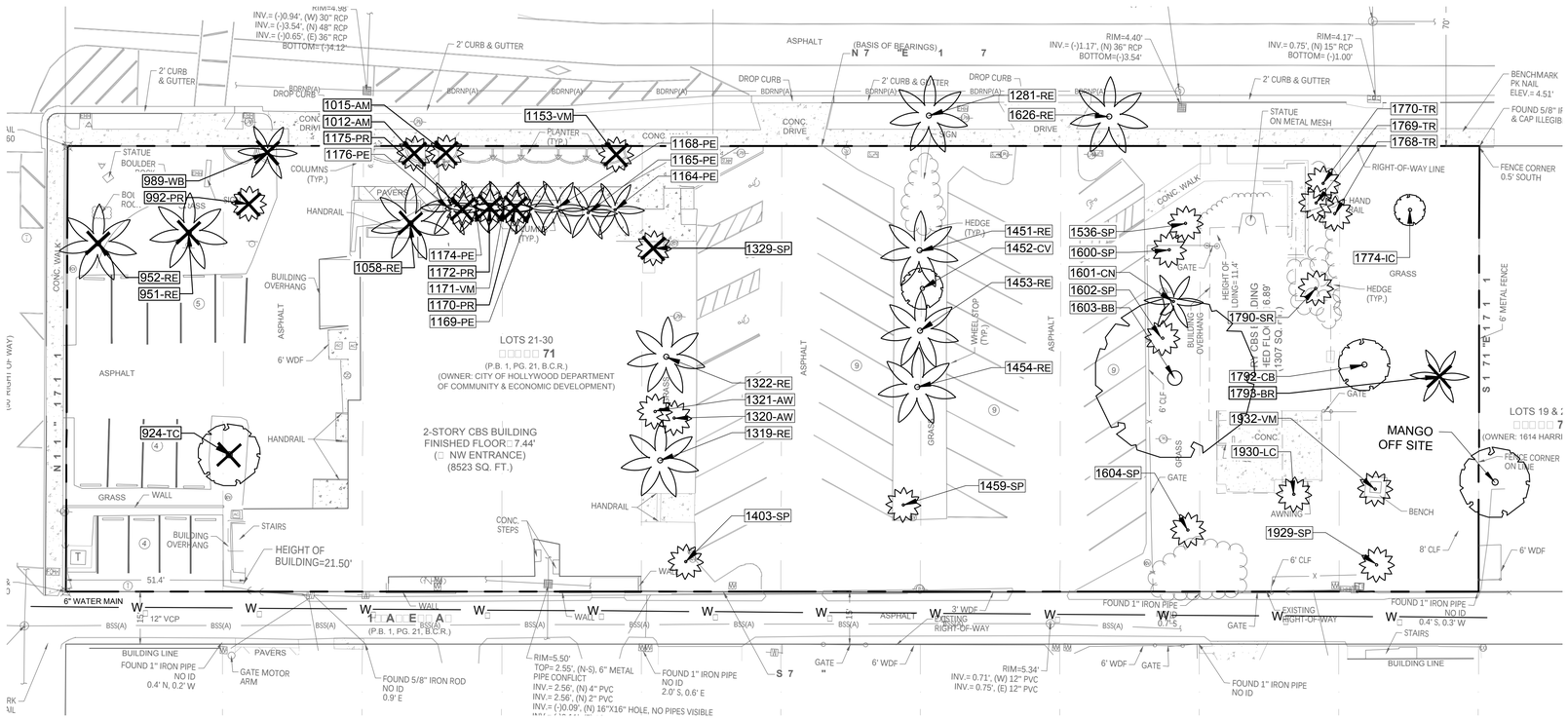
0 20 40

SCALE: 1" = 20'

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

ABBREVIATIONS LEGEND

B CAV	BRANCH CAVITY
B DMG	BRANCH DAMAGE
CB	CROSSING BRANCHES
CO-D	CO-DOMINANT
CON	CONSTRUCTION
D	DECAY
DB	DIEBACK
DL	DUAL LEADER
FB	FUNGUS BODIES
IB	INCLUDED BARK
I DMG	INSECT DAMAGE
L	LEANING
MT	MULTI-TRUNK
NL	NO MAIN LEADER
RA	ROOT AREA INSUFFICIENT
R DMG	ROOT DAMAGE
S	SUCKER GROWTH
T CAV	TRUNK CAVITY
T DMG	TRUNK DAMAGE
W CPY	WEAK CANOPY
OHE	OVERHEAD UTILITIES
UP	UTILITY PRUNED



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REGISTERED LANDSCAPE ARCHITECT — PAUL H. WEINBERG — LA 6666804 — STATE OF FLORIDA

01/04/21

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PROJECT NUMBER: 01924.0

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REVISIONS:
1 --
2 --
3 --
4 --
5 --
6 --

SHEET TITLE:

TREE DISPOSITION PLAN

SCALE: AS SHOWN

DATE PRINTED: 2021-01-04

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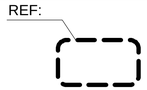
LD-101

GENERAL LEGEND

SYMBOL	DESCRIPTION
	ENLARGEMENT AREA REFERENCE
	SHEET MATCHLINE
	LIMIT OF CONSTRUCTION
	PROPERTY LINE
SITEWORK	
	DETAIL REFERENCE
	MATERIAL OR FINISH REFERENCE SYMBOL
	SECTION CUT REFERENCE
	ELEVATION OR AERIAL VIEW REFERENCE
PLANTING	
	PLANT LABEL
DIMENSIONING	
	ALIGN ELEMENTS

ABBREVIATIONS

B&B	BALLED AND BURLAPPED
BLDG.	BUILDING
B.O.C.	BACK OF CURB
CAL.	CALIPER
CJ	CONTROL JOINT
CL	CENTERLINE
CLR	CLEAR
CT	CLEAR TRUNK
CRZ	CRITICAL ROOT ZONE
EJ	EXPANSION JOINT
EQ	EQUAL
FFE	FINISHED FLOOR ELEVATION
FG	FIELD GROWN
F.O.B.	FACE OF BUILDING
GAL.	GALLON
GW	GREY WOOD
HT	HEIGHT
H.P.	HIGH POINT
L.A.	LANDSCAPE ARCHITECT
L.O.C.	LIMIT OF CONSTRUCTION
L.P.	LOW POINT
MIN.	MINIMUM
MULTI	MULTI-TRUNK
N.I.C.	NOT IN CONTRACT
OA	OVERALL
O.C.	ON CENTER
O.C.E.W.	ON CENTER EACH WAY
O.D.	ON DIAMETER
PA (OR P.A.)	PLANTING AREA
QTY	QUANTITY
REF.	REFERENCE
R.O.W.	RIGHT OF WAY
SIM.	SIMILAR DETAIL
SPRD.	SPREAD
TD	TOP OF DRAIN
T.O.C.	TOP OF CURB
TS	TOP OF STAIR
TW	TOP OF WALL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE

GENERAL NOTES:

1.) LOCATE AND VERIFY THE CONDITION OF EXISTING UTILITIES PRIOR TO EXCAVATION. TAKE RESPONSIBILITY OF CONTACTING LINE LOCATION SERVICES AND ANY COST INCURRED FOR BODILY INJURY AND / OR DAMAGE OF OWNER'S PROPERTY OR SAID UTILITIES.

2.) THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED BY THE CONTRACTOR OF ANY DISCREPANCIES DISCOVERED BETWEEN THE PLANS AND ACTUAL SITE CONDITIONS BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE LIABLE FOR ALL MODIFICATIONS AND DAMAGES IF WORK PROCEEDS WITHOUT THIS NOTIFICATION AND APPROVAL.

3.) THE CONTRACTOR IS RESPONSIBLE FOR ALL ASPECTS OF MAINTAINING A SAFE WORK SITE INCLUDING BUT, NOT LIMITED TO PROVIDING FOR TRAFFIC CONTROL, INSTALLATION AND PLACEMENT OF FENCING AND BARRICADES, EXCAVATION AND TRENCH PROTECTION, AND COMPLIANCE WITH ALL FEDERAL AND LOCAL REGULATIONS AND CODES. ALL SAFETY EXPOSURES OR VIOLATIONS SHALL BE RECTIFIED IMMEDIATELY.

4.) THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL EXISTING IMPROVEMENTS BOTH ON SITE AND ADJACENT TO THE WORK SITE AND SHALL REPAIR ANY DAMAGE TO THESE IMPROVEMENTS TO THE SATISFACTION OF THE OWNER.

5.) THE CONTRACTOR SHALL NOTIFY OWNER AND LANDSCAPE ARCHITECT 72 HOURS PRIOR TO COMMENCEMENT OF WORK TO COORDINATE PROJECT INSPECTION SCHEDULES.

6.) ANY ALTERNATES AND OR SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR APPROVAL. CHANGES TO THE SCOPE OF WORK AND / OR CONTRACT DOCUMENTS RESULTING FROM THE ACCEPTANCE OF THE CONTRACTOR'S ALTERNATES AND / OR SUBSTITUTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

7.) THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF TRASH ON A DAILY BASIS.

8.) THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. PRIOR TO CONSTRUCTION, ALL PERMITS AND APPROVALS REQUIRED FOR CONSTRUCTION OF THE PROJECT SHALL BE PAID FOR AND OBTAINED BY THE CONTRACTOR.

9.) COORDINATE WORK WITH SUBCONTRACTORS TO ACCOMPLISH THE SCOPE OF WORK AS SHOWN AND NOTED IN THE CONTRACT DOCUMENTS AS WELL AS, COORDINATE CONSTRUCTION WITH OTHER CONTRACTORS WORKING ON THE SITE.

10.) THE CONTRACTOR SHALL COORDINATE THE STORING OF MATERIALS, PARKING OF VEHICLES, AND RESTRICTIONS OF WORK AND ACCESS WITH THE OWNER. UNDER NO CIRCUMSTANCES SHALL ANY CONTRACTOR STORE MATERIALS, PARK VEHICLES OR EQUIPMENT UNDER THE CANOPY OF EXISTING TREES.

11.) UNLESS SPECIFIED OTHERWISE, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND PAYING ALL TEMPORARY UTILITIES AND SERVICES NECESSARY TO COMPLETELY INSTALL ALL WORK AS SHOWN AND NOTED IN THE CONTRACT DOCUMENTS.

12.) THE CONTRACTOR IS RESPONSIBLE FOR THE LEGAL OFF-SITE DISPOSAL OF SURPLUS MATERIAL AND DEBRIS.

13.) UPON COMPLETION OF CONSTRUCTION AND PRIOR TO FINAL APPROVAL, THE CONTRACTOR SHALL THOROUGHLY CLEAN THE PROJECT SITE OF ALL TRASH, REPAIR ALL DAMAGE TO FINISH GRADE, INCLUDING TAILINGS FROM EXCAVATIONS, WHEEL RUTS AND ANY SETTLING OR EROSION THAT HAS OCCURED PRIOR TO COMPLETION. ALL AREAS OF THE PROJECT SITE SHALL BE LEFT IN A NEAT AND PRESENTABLE CONDITION SATISFACTORY TO THE OWNER PRIOR TO SUBMITTAL OF THE FINAL PAYMENT.

HARDSCAPE MATERIALS SCHEDULE

KEY	DESCRIPTION / MODEL	COLOR	FINISH	CONTACT	REMARKS
CONCRETE					
C.1	GREY CONCRETE SIDEWALKS	STANDARD GREY	MEDIUM BROOM FINISH, SAW CUT CONTROL JOINTS	LOCAL SOURCE	
PAVERS					
P.1	RECYCLED CONCRETE PAVERS - SAW CUT, VARIOUS SIZES	TO BE DETERMINED	TO BE DETERMINED	TO BE DETERMINED	-SUBMIT SAMPLE AND PRODUCT DATA FOR REVIEW & APPROVAL
MISCELLANEOUS					
M.1	CRUSHED COQUINA SHELL -TO INCLUDE ORGANIC-LOCK BINDER	LOCAL SOURCE CRUSHED CORAL SHELL	NATURAL	CORAL SHELL: COMPANY: YARDCO PHONE: 561-433-4148 YARDCOROCKS.COM BINDER: COMPANY: ORGANIC-LOCK CONTACT: CHERYL MASTERS PHONE: 902-471-6836 ORGANIC-LOCK.COM	-SUBMIT SAMPLE AND PRODUCT DATA FOR REVIEW

PRELIMINARY PLAN
NOT FOR CONSTRUCTION

THESE PLANS ARE NOT FULLY PERMITTED AND ARE SUBJECT TO REVISIONS MADE DURING THE PERMITTING PROCESS. RESPONSIBILITY FOR THE USE OF THESE PLANS PRIOR TO OBTAINING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT WILL FALL SOLELY UPON THE USER.

CONCEPTUAL DESIGN	YYYY-MM-DD
SCHEMATIC DESIGN	YYYY-MM-DD
DESIGN DEVELOPMENT	YYYY-MM-DD
CONSTRUCTION DOCUMENTS	YYYY-MM-DD
PLAN CHECK SUBMITTAL	YYYY-MM-DD
PERMIT SET	YYYY-MM-DD
BID ISSUE	YYYY-MM-DD
CONSTRUCTION ISSUE	YYYY-MM-DD

01/04/21

PAUL H. WEINBERG, R.L.A.
FLORIDA REG. NO. LA6666804
(FOR THE FIRM)

ART AND CULTURE CENTER EDUCATION FACILITY

1650 HARRISON STREET HOLLYWOOD, FL 33020

PROJECT NUMBER: 01924.0

KEITH PROJECT NUMBER: 10842.00

REVISIONS:

1	--	4	--
2	--	5	--
3	--	6	--

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SHEET TITLE:
GENERAL NOTES, LEGEND, & HARDSCAPE SCHEDULE

SCALE: AS SHOWN

DATE PRINTED: 2021-01-04

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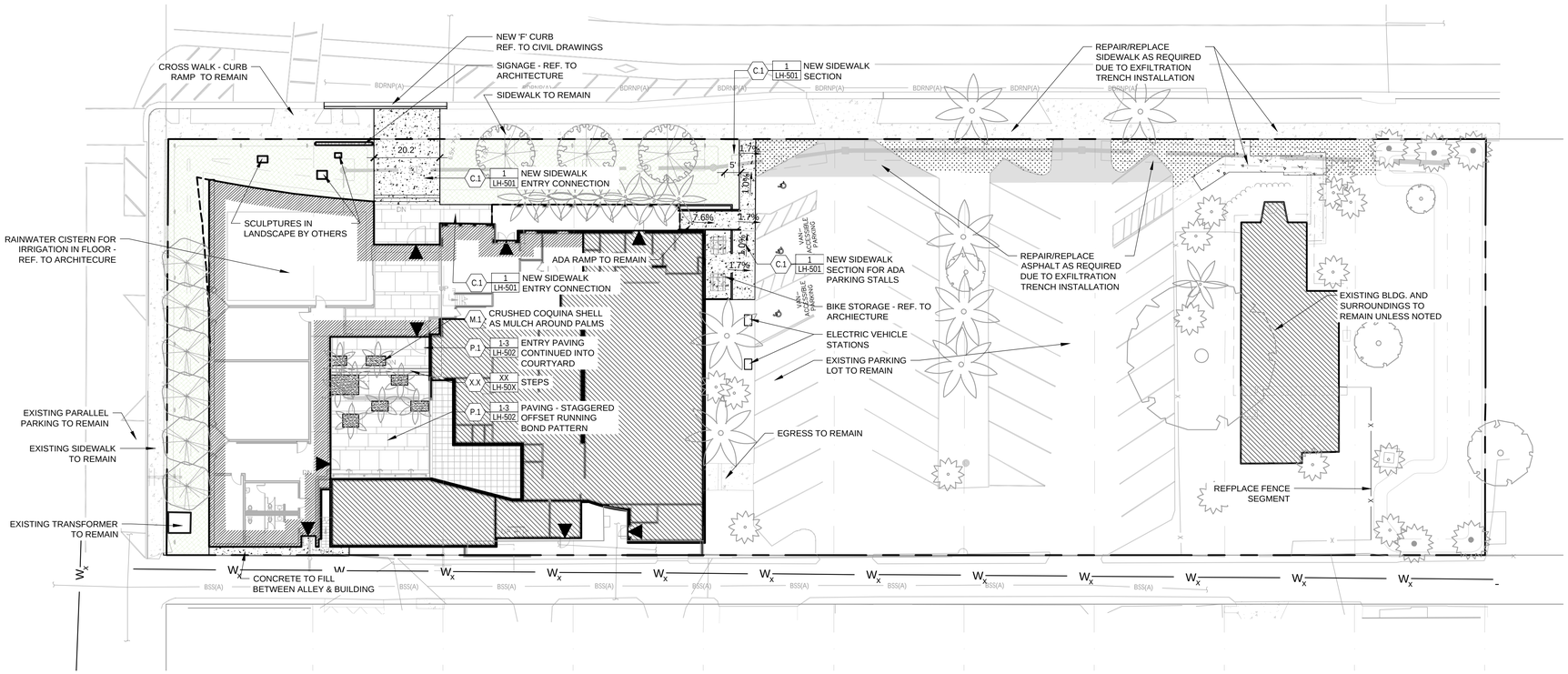
LH-001



N

GRAPHIC SCALE

0 20 40

SCALE: 1"=20'

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

QUICK REFERENCE MATERIALS SCHEDULE.

SEE SHEET LH-001 FOR COMPLETE SCHEDULE

REFERENCE MATERIALS SCHEDULE		
CONCRETE		
KEY	DESCRIPTION / MODEL	COLOR
C.1	GREY CONCRETE SIDEWALKS	STANDARD GREY
PAVERS		
P.1	RECYCLED CONCRETE PAVERS - SAW CUT, VARIOUS SIZES	TO BE DETERMINED
MISCELLANEOUS		
M.1	CRUSHED COQUINA SHELL -TO INCLUDE ORGANIC-LOCK BINDER	LOCAL SOURCE CRUSHED CORAL SHELL

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PERMIT SET	YYYY-MM-DD
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CONSTRUCTION ISSUE	YYYY-MM-DD

REGISTERED LANDSCAPE ARCHITECT
PAUL H. WEINBERG
LA 6666804
STATE OF FLORIDA

01/04/21

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SHEET TITLE: HARDSCAPE PLAN

SCALE: AS SHOWN

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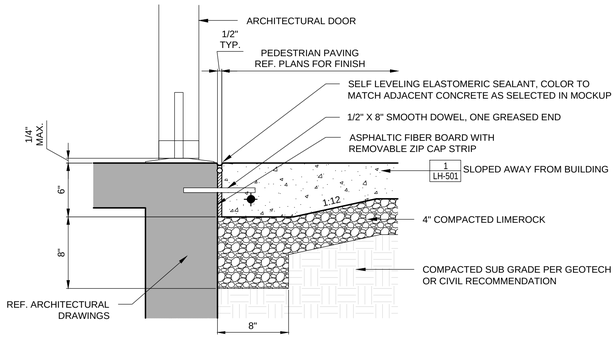
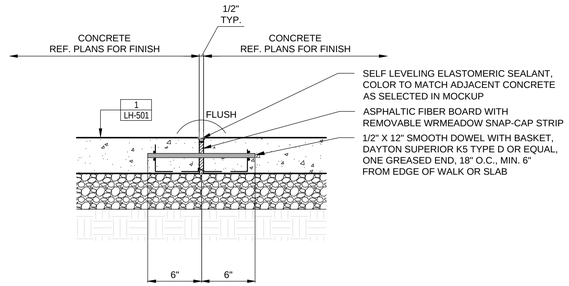
LH-101



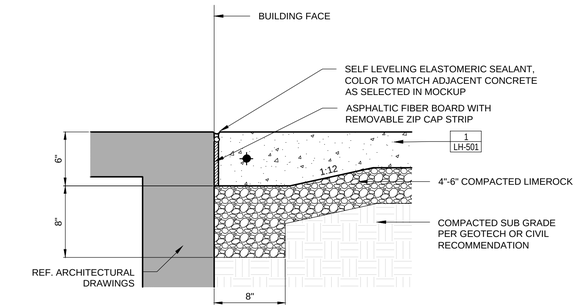
7 CONCRETE AT BUILDING THRESHOLD

SECTION — SCALE: 1-1/2"=1'-0"



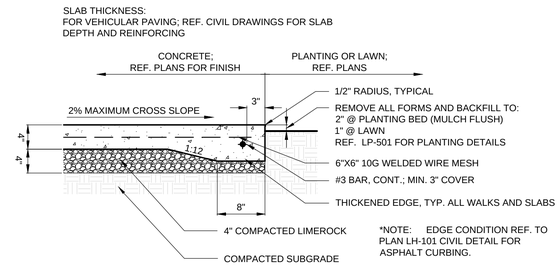
3 DOWELLED EXPANSION JOINT

SECTION — SCALE: 1-1/2"=1'-0"



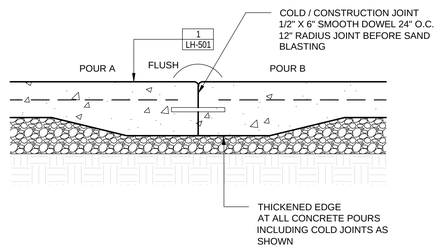
6 CONCRETE AT BUILDING FACE

SECTION — SCALE: 1-1/2"=1'-0"



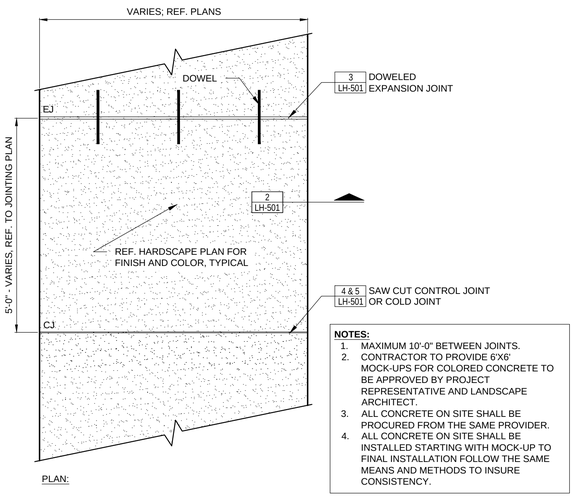
2 CONCRETE WALK - THICKENED EDGE

SECTION — SCALE: 1"=1'-0"



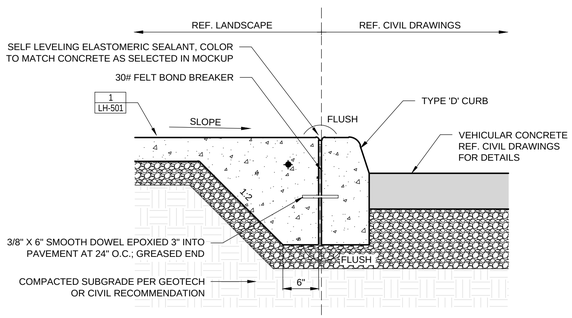
5 CONSTRUCTION / COLD JOINT

SECTION — SCALE: 1-1/2"=1'-0"



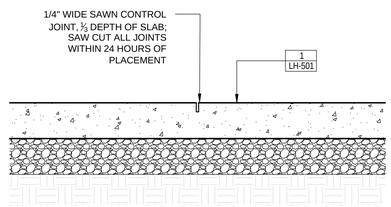
1 CONCRETE WALK

PLAN ENLARGEMENT — SCALE: 3/4"=1'-0"



8 CONCRETE AT CURB

SECTION — SCALE: 1-1/2"=1'-0"



4 SAW CUT CONTROL JOINT

SECTION — SCALE: 1-1/2"=1'-0"

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CONSTRUCTION ISSUE	YYYY-MM-DD

REGISTERED LANDSCAPE ARCHITECT — PAUL H. WEINBERG — LA 6666804 — STATE — FLORIDA

01/04/21

PAUL H. WEINBERG, R.L.A.
FLORIDA REG. NO. LA6666804
(FOR THE FIRM)

ART AND CULTURE CENTER EDUCATION FACILITY

1650 HARRISON STREET HOLLYWOOD, FL 33020

PROJECT NUMBER: 01924.0

KEITH PROJECT NUMBER: 10842.00

REVISIONS:

1	--	4	--
2	--	5	--
3	--	6	--

SHEET TITLE:

HARDSCAPE DETAILS

SCALE: AS SHOWN

DATE PRINTED: 2021-01-04

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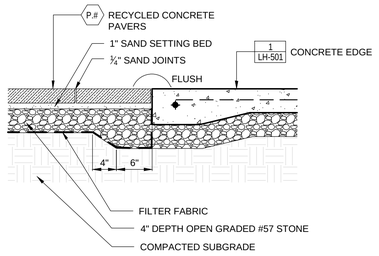
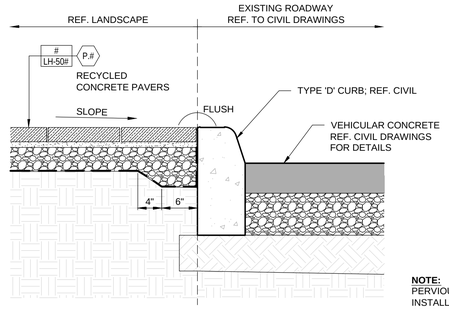
LH-501



3 CONCRETE PAVERS AT SIDEWALK

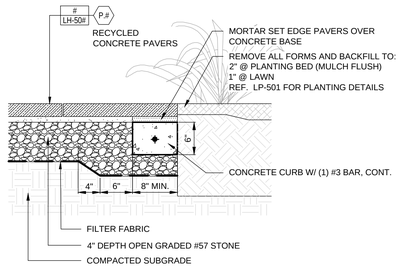
SECTION SCALE: 1"=1'-0"



NOTE:
PERVIOUS PAVERS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

2 CONCRETE PAVERS AT CURB

SECTION SCALE: 1"=1'-0"



1 CONCRETE PAVERS TYP. EDGE

SECTION SCALE: 1"=1'-0"

PRELIMINARY PLAN
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REGISTERED LANDSCAPE ARCHITECT
PAUL H. WEINBERG
LA 6666804
STATE OF FLORIDA

01/04/21

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SHEET TITLE: HARDSCAPE DETAILS

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LH-502

PLANTING ABBREVIATIONS

B&B	BALLED AND BURLAPPED
CAL.	CALIPER
CT	CLEAR TRUNK
CRZ	CRITCAL ROOT ZONE
FG	FIELD GROWN
GAL.	GALLON
GW	GREY WOOD
HT	HEIGHT
MIN.	MINIMUM
MULTI	MULTI-TRUNK
OA	OVERALL
O.C.	ON CENTER
QTY	QUANTITY
SPRD.	SPREAD
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE

10842.00 - HOLLYWOOD ART & CULTURE CENTER

City of Hollywood - Landscape Data Table

ZONING DISTRICT=	GU	* No specifc code for Government Use, Table follows Commercial Districts C-1 though C-5, Page 14 of the Landscape Manual
LOT AREA=	51,847	
ACRES=	1.19	

TREES				REQUIRED	PROVIDED
STREET TREES	572.9	LF Street	50	**11**	**12**

MITIGATION TABLE - see sheet LD-101	
12	Palm to be **removed**
11	DBH (inches) to be **removed**
REQUIRED REPLACEMENT TREES	
12	Replacement for Palms Required
"11"	Replacement (DBH) for Trees Required
6	* DBH to be replaced. Minimum size tree is 2" DBH, 12' HT x 5' SPRD. **11"/2" = 6 Trees**
18	Total Mitigation Required in Trees

Palms replaced at 1:1 but counted 3:1 as a tree. The (22) trees/palms meets mitigation requirements

TREES PROVIDED	
13	Palms - as listed on Planting Schedule
4	**Palms provided counted at 3:1 for Site Required trees.*
9	Trees as listed on Planting Schedule
(21")	** Combination of 3" Trees and 2" trees used as replacements. (3) 3" Live Oaks - 9" DBH. (6) 2" Green Buttonwoods = 12"*
22	Total Trees Provided (Palms 3:1)

SHRUBS					
A. Required: sum of lot and street trees required x 12					
	29	x	12	348	**350+**
B. 50% Native shrubs required				174	**175**
LARGE SHRUBS OR SMALL TREES					
A. 10% of shrubs required to be large or small trees				35	**35+**
B. 50% of large shrubs required to be native				17	**17+**

OPEN SPACE CALCULATIONS	SF	ACRES	%	TREES REQUIRED	COPYABSE
OVERALL SITE AREA	51753	1.19	100.00%	*17456.3/1000* **17**	**34**
IMPERVIOUS LOT COVERAGE	34296.7	0.79	66.27%		
OPEN SPACE COVERAGE	17456.3	0.40	33.73%		

PLANTING PLAN - PALETTE

TREES & PALMS

QTY	SYMBOL	KEY	PLANT NAME	SIZE / REMARKS	N**
6		CE	*Cononcarpus erectus* GREEN BUTTONWOOD	12' HT. X 5' SPRD. 2" DBH MIN., STANDARD	N**
3		QV	*Quercus virginiana 'CATHEDRAL'* CATHEDRAL LIVE OAK	15' HT. X 6' SPRD. 3" DBH MIN.	N**
8		CA	*Carpenteria acuminata* CARPENTER PALM	16' HT. SINGLE	**
5		SP	*Sabal palmetto* CABBAGE PALM	12',16',18' HT. BOOTED, STAGGERED HEIGHTS	N**

SHRUB AREAS

QTY	SYMBOL	KEY	PLANT NAME	SIZE / REMARKS	N**
136		NEB	*Nephrolepis bisserrata 'Macho Fern'* MACHO FERN	24" HT; 24" SPRD; 36" O.C.	N**
438		TRF	*Tripsacum floridanum* FLORIDA GAMMA GRASS	18" HT; 12" SPRD; 30" O.C.	N**

SOD

4160 SF		SOD	BAHIA SOD		**

N**	DENOTES NATIVE SPECIES
**	DENOTES HIGH DROUGHT TOLERANT SPECIES
*	DENOTES MODERATE DROUGHT TOLERANT SPECIES

PLANTING NOTES:

PLANT LISTS: PLANT QUANTITIES, SIZES, AND LOCATIONS SHALL BE DETERMINED BY PLAN AND PLANT LISTS. PLANT HEIGHT AND SPREAD SHALL TAKE PRECEDENCE OVER CONTAINER SIZE. CONTAINER SIZE NOTED IS TO BE CONSIDERED MINIMUM. SPACING OF PLANT MATERIAL WILL BE DETERMINED BY PLANT LISTS AND DETAILS. QUANTITIES SHOWN ON PLANT LISTS ARE GUIDELINE ONLY. CONTRACTOR IS RESPONSIBLE FOR THE ACTUAL QUANTITIES INDICATED ON PLANS. DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.

SUBSTITUTIONS: LANDSCAPE ARCHITECT TO REVIEW AND APPROVE ANY PLANT SUBSTITUTIONS. SUBSTITUTIONS SHALL BE PROVIDED AS AN ALTERNATE ON PROPOSALS.

PLANTING SOIL: TOPSOIL SHALL BE CLEAN, STERILE, AND FREE OF DEBRIS OR OTHER FOREIGN MATERIAL. TOPSOIL WHEN SUITABLE, SHALL BE USED FOR THE PLANTING OF TREES AND SHRUBS. THE EXISTING SOILS SHALL BE AMENDED WITH ORGANIC MATERIAL TO REDUCE THE PH LEVELS TO BETWEEN 5 AND 6. AMENDMENTS ARE TO BE INCORPORATED INTO THE PLANTING BACKFILL MATERIAL. GROUNDCOVER BEDS SHALL BE TOPPED WITH A MINIMUM 4" OF PLANTING SOIL. THE PLANTING SOIL TO BE MIXED INTO THE EXISTING SOILS DURING PLANTING.

SOIL ADDITIVES: ADDITIVES SUCH AS WATER ABSORBING POLYMERS ARE WELCOME ADDITIONS TO SOILS WHERE WATER RETENTION IS A PROBLEM.

FERTILIZER: SLOW-RELEASE GRANULAR FERTILIZER SIMILAR TO 12-4-12 FORMULA TO BE APPLIED AT PLANTING AT MANUFACTURERS RECOMMENDED APPLICATION RATES. TREE TABS SHALL BE USED FOR ALL TREES AND PALMS.

MULCH: A 3' DIAMETER MULCH RING WITH 3" OF SHREDDED MELALEUCA MULCH SHALL BE USED AROUND ALL FREE-STANDING TREES AND PALMS. SHRUB BEDS SHALL BE MULCHED WITH 3" OF SHREDDED MELALEUCA MULCH AS SHOWN ON PLAN.

PLANTING PROCEDURE: ALL PLANTS SHALL BE PLANTED AT SOIL LEVELS AT WHICH THEY WERE PREVIOUSLY GROWN. SHRUB AND HEDGE MATERIAL SHALL BE PLANTED A MIN. 2' AWAY FROM WALLS OR OTHER OBSTRUCTIONS. SEE DETAILS ON LP-501. LARGE MATERIAL SHALL BE PLANTED AWAY FROM OVERHANGS SO AS NOT TO AFFECT THE PLANT OR STRUCTURE IN THE FUTURE. UNSUITABLE SOIL OR SITE CONDITIONS TO BE BROUGHT TO THE ATTENTION OF THE G.C. AND THE LANDSCAPE ARCHITECT.

WATERING: ALL PLANT MATERIAL SHALL BE WATERED IN THOROUGHLY AT INSTALLATION SO AS TO REMOVE AIR POCKETS. WATERING IS THE RESPONSIBILITY OF THE CONTRACTOR, AND HE SHALL HAND WATER AS NECESSARY. A TEMPORARY WATERING SYSTEM MAY BE NECESSARY FOR LARGE MATERIAL.

GUYING: PROPER SUPPORT OF TREES AND PALMS DURING THE GROW-IN PERIOD IS THE RESPONSIBILITY OF CONTRACTOR. STAKING SHALL BE PER INDUSTRY STANDARDS. NO HARM SHALL BE CAUSED BY THE STAKING PROCESS (I.E. BRACES ARE NOT TO BE NAILED INTO TREES). SEE DETAILS ON LP-501.

SOD: SOD SHALL BE DENSE, GREEN, AND WELL ROOTED, DISEASE FREE, AND FREE OF WEEDS, OR INSECTS. SOD SHALL BE WATERED TO A DEPTH OF 4" AFTER LAYING. ALL AREAS TO BE SODDED SHALL BE RAKED SMOOTH AND ALL DEBRIS REMOVED PRIOR TO INSTALLATION.

GUARANTEE: ALL PLANT MATERIALS SHALL BE GUARANTEED FOR 1 YEAR AFTER COMPLETION OF PROJECT. GUARANTEE APPLIES TO HEALTH, POSITION, AND SIZE. REPLACEMENT COST WILL BE CARRIED BY CONTRACTOR.

PRELIMINARY PLAN
NOT FOR CONSTRUCTION

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REGISTERED LANDSCAPE ARCHITECT
PAUL H. WEINBERG
LA 6666804
STATE
FLORIDA
01/04/21

PAUL H. WEINBERG, R.L.A.
FLORIDA REG. NO. LA6666804
(FOR THE FIRM)

ART AND CULTURE CENTER EDUCATION FACILITY

1650 HARRISON STREET HOLLYWOOD, FL 33020

PROJECT NUMBER: 01924.0

KEITH PROJECT NUMBER: 10842.00

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SHEET TITLE:
PLANTING NOTES & SCHEDULE

SCALE: AS SHOWN

DATE PRINTED: 2021-01-04

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LP-001

PLANTING PLAN - PALETTE

TREES & PALMS

QTY	SYMBOL	KEY	PLANT NAME	SIZE / REMARKS	N**
6		CE	*Cononcarpus erectus* GREEN BUTTONWOOD	12' HT. X 5' SPRD. 2" DBH MIN., STANDARD	N**
3		QV	*Quercus virginiana 'CATHEDRAL'* CATHEDRAL LIVE OAK	15' HT. X 6' SPRD. 3" DBH MIN.	N**
8		CA	*Carpenteria acuminata* CARPENTER PALM	16' HT. SINGLE	**
5		SP	*Sabal palmetto* CABBAGE PALM	12',16',18' HT. BOOTED, STAGGERED HEIGHTS	N**

SHRUB AREAS

QTY	SYMBOL	KEY	PLANT NAME	SIZE / REMARKS	N**
136		NEB	*Nephrolepis bisserrata 'Macho Fern'* MACHO FERN	24" HT; 24" SPRD; 36" O.C.	N**
438		TRF	*Tripsacum floridanum* FLORIDA GAMMA GRASS	18" HT; 12" SPRD; 30" O.C.	N**

SOD

4160 SF		SOD	BAHIA SOD		**

N**	DENOTES NATIVE SPECIES
****	DENOTES HIGH DROUGHT TOLERANT SPECIES
*	DENOTES MODERATE DROUGHT TOLERANT SPECIES

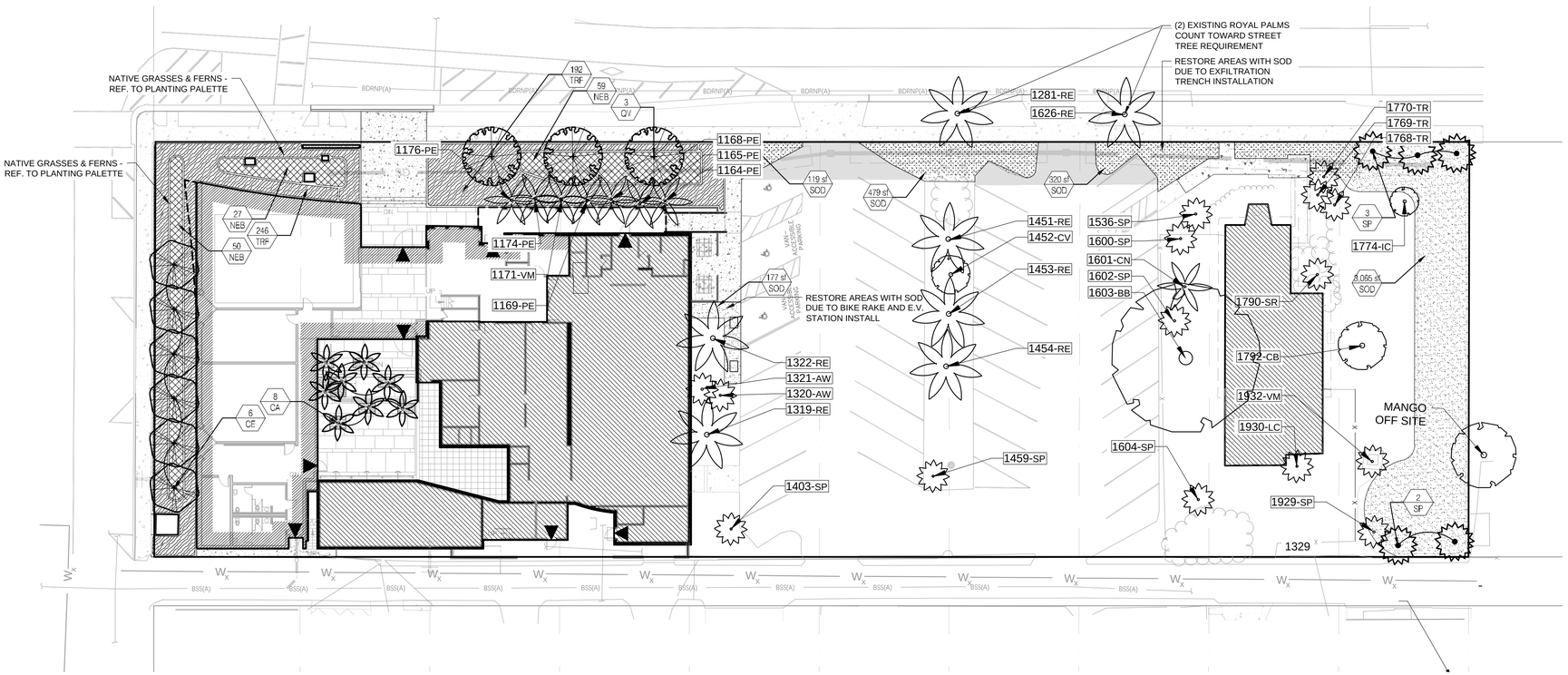
N

GRAPHIC SCALE

0 20 40

SCALE: 1"=20'

NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.



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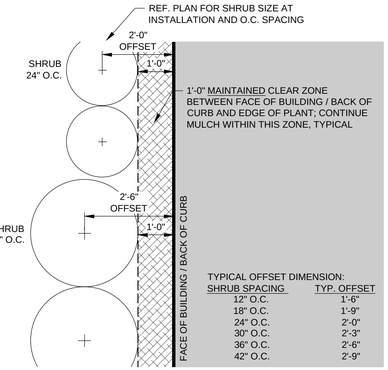
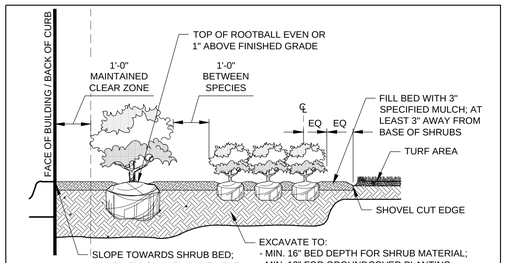
LP-101

NOTE:
- REF. LP-100, LANDSCAPE NOTES, FOR ADDITIONAL REQUIREMENTS.
- ROOT BALL SIZE FOR ALL TREES AND PALMS TO BE IN PROPORTION TO SIZE AND TYPE OF PALM PER FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS.



TYPICAL SHRUB OFFSET AT BUILDING / CURB

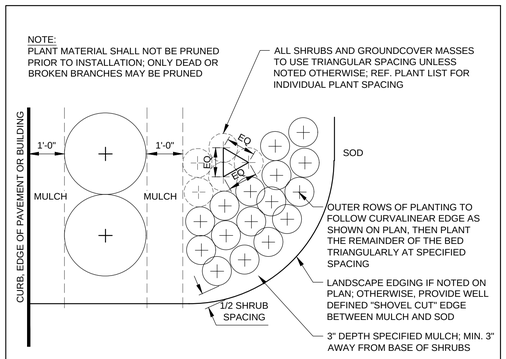
SECTION NOT TO SCALE



NOTE:
- PLANT MATERIAL SHALL NOT BE PRUNED PRIOR TO INSTALLATION. AFTER PLANTS HAVE BEEN INSTALLED, EACH PLANT SHALL BE PRUNED FOR UNIFORMITY OR AT THE DIRECTION OF THE LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING BEDS PRIOR TO INSTALLATION.

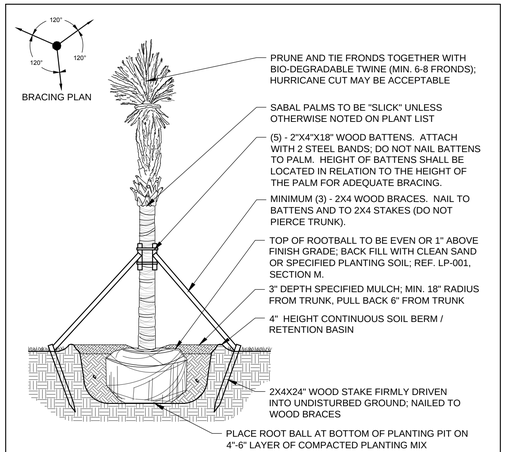
SHRUB AND GROUNDCOVER PLANTING

SECTION NOT TO SCALE



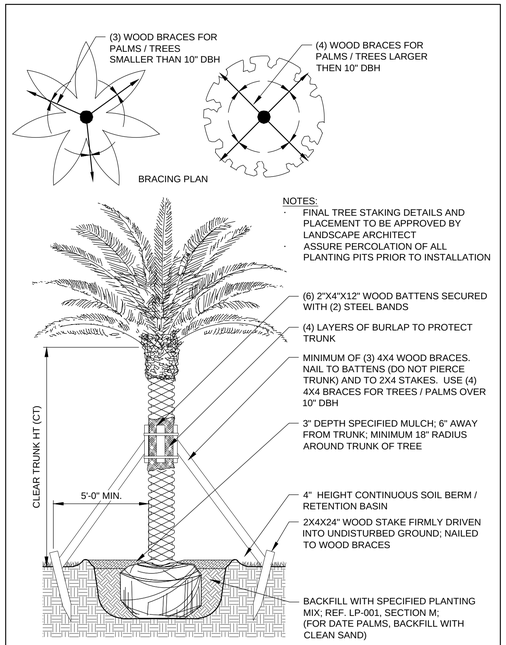
SHRUB AND GROUNDCOVER PLANTING

PLAN NOT TO SCALE



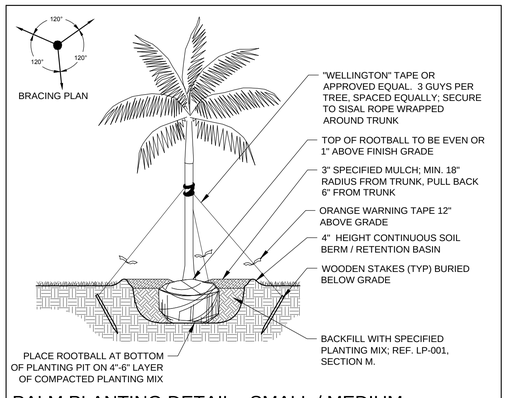
SABAL PALM PLANTING DETAIL

SECTION NOT TO SCALE



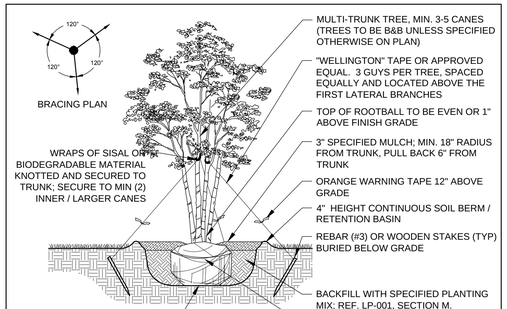
LARGE TREE / PALM PLANTING DETAIL

SECTION NOT TO SCALE



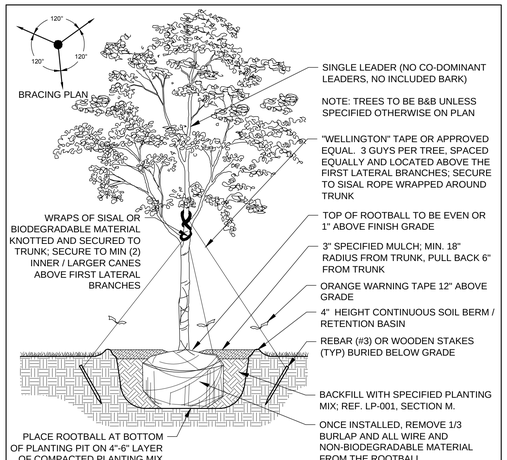
PALM PLANTING DETAIL - SMALL / MEDIUM

SECTION NOT TO SCALE



TREE PLANTING DETAIL - MULTI-TRUNK

SECTION NOT TO SCALE



TREE PLANTING DETAIL - SINGLE TRUNK

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LP-501

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
ES LCS RCS CS SS	HUNTER PROS-04 5` STRIP SPRAY TURF SPRAY, 4.0" POP-UP. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	2
Q T H F	HUNTER PROS-04 8` RADIUS TURF SPRAY, 4.0" POP-UP. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	3
Q T H F	HUNTER PROS-04 10` RADIUS TURF SPRAY, 4.0" POP-UP. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	37
Q T H TT TQ F	HUNTER PROS-04 15` RADIUS TURF SPRAY, 4.0" POP-UP. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	28
	HUNTER PROS-04 ADJUSTABLE ARC TURF SPRAY, 4.0" POP-UP. CO-MOLDED WIPER SEAL WITH UV RESISTANT MATERIAL.	61
25 50 10 20	HUNTER PCB 10 FLOOD BUBBLER, 1/2" FIPT.	18

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	HUNTER ACZ-075-25 DRIP CONTROL KIT FEATURING A 3/4" PGV-ASV VALVE, WITH 3/4" HY075 FILTER SYSTEM, AND 25PSI PRESSURE REGULATED. FLOW RANGE: 0.5 GPM TO 15 GPM. WITH 150 MESH STAINLESS STEEL SCREEN.	1
	AREA TO RECEIVE DRIPLINE HUNTER HDL-04-18-CV HDL-04-18-CV: HUNTER DRIPLINE W/ 0.4 GPH EMITTERS AT 18" O.C. CHECK VALVE, DARK BROWN TUBING WITH TAN STRIPING. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. INSTALL WITH HUNTER PLD BARBED OR PLD-LOC FITTINGS.	97.9 L.F.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	HUNTER ICV-G 1", 1-1/2", 2", AND 3" PLASTIC ELECTRIC REMOTE CONTROL VALVES. GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.	4	
	BUCKNER-SUPERIOR AV 3/4", 1", 1-1/4", 1-1/2", AND 2" RED BRASS ANGLE SHUT OFF VALVES WITH CROSS HANDLE.	4	
BF	FEBCO 765 1" PRESSURE VACUUM BREAKER, BRASS WITH BALL VALVE SOV. INSTALL 12" (305MM) ABOVE HIGHEST DOWNSTREAM OUTLET AND THE HIGHEST POINT IN THE DOWNSTREAM PIPING.	1	
C	HUNTER PC-400 LIGHT COMMERCIAL & RESIDENTIAL CONTROLLER, 4-STATION BASE MODULE CONTROLLER, 120 VAC, OUTDOOR MODEL	1	
RS	HUNTER SOLAR-SYNC SOLAR, RAIN FREEZE SENSOR WITH OUTDOOR INTERFACE, CONNECTS TO HUNTER PCC, PRO-C, AND I-CORE CONTROLLERS, INSTALL AS NOTED, INCLUDES 10 YEAR LITHIUM BATTERY AND RUBBER MODULE COVER, AND GUTTER MOUNT BRACKET. WIRED.	1	
PO	PRECISION PUMPING SYSTEMS ATLAS-S PRECISION PUMPING SYSTEMS ATLAS-S SERIES. FULLY ENCLOSED SELF CONTAINED SUBMERSIBLE TURBINE PUMP STATION WITH FLOW RATES FROM 20 GPM UP TO 200 GPM AND PRESSURES UP TO 130 PSI BOOST. GPM: PSI: VOLTAGE: PHASE:	1	
POC	POINT OF CONNECTION 1-1/2" WATER SOURCE (POTABLE WATER)	1	
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	1,955 L.F.	
	IRRIGATION MAINLINE: PVC SCHEDULE 40	831.5 L.F.	
	PIPE SLEEVE: PVC CLASS 200 SDR 21	221.7 L.F.	

THIS IS A TEMPORARY IRRIGATION SYSTEM, ALL PROPOSED PLANT MATERIAL IS DRAFT TOLERANT- FLORIDA NATIVE. ONCE THE PLANT MATERIAL IS ESTABLISH, TEMPORARY IRRIGATION SYSTEM CAN BE STUFF OFF.

N

GRAPHIC SCALE

0 20 40

SCALE: 1" 20'

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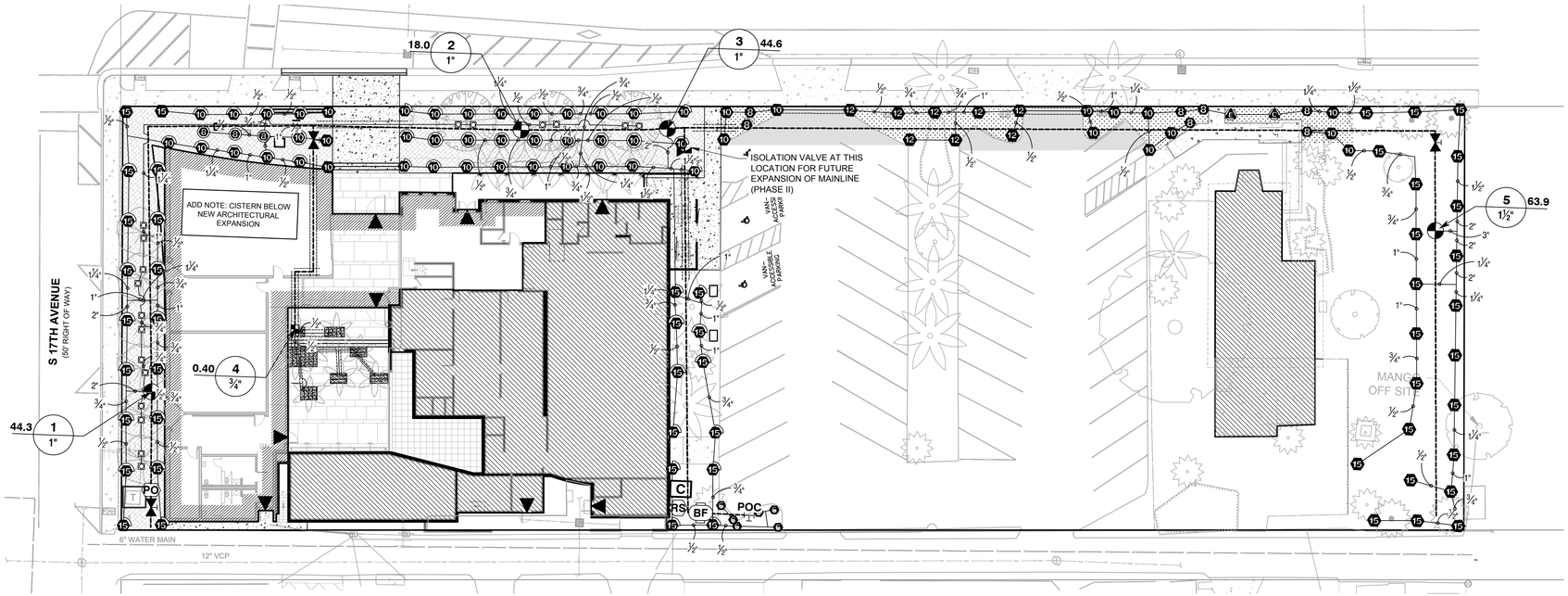

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IRRIGATION PLAN

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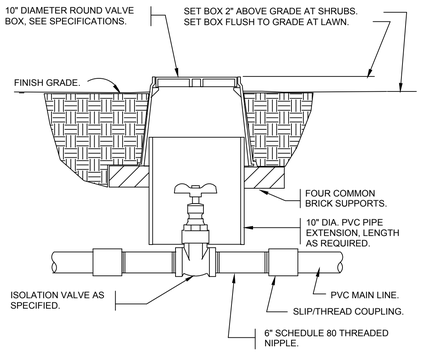
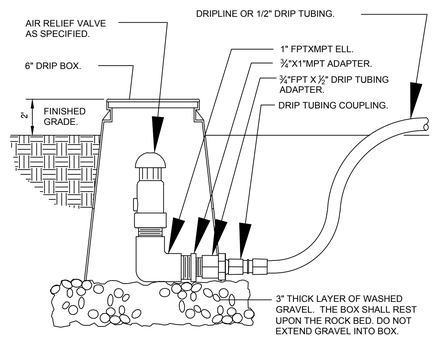
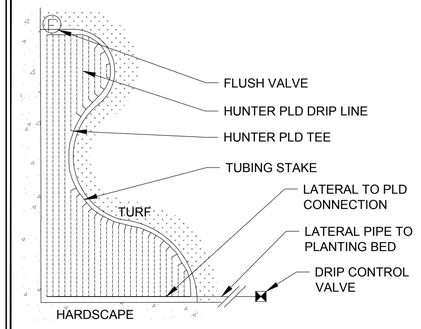
LI-101



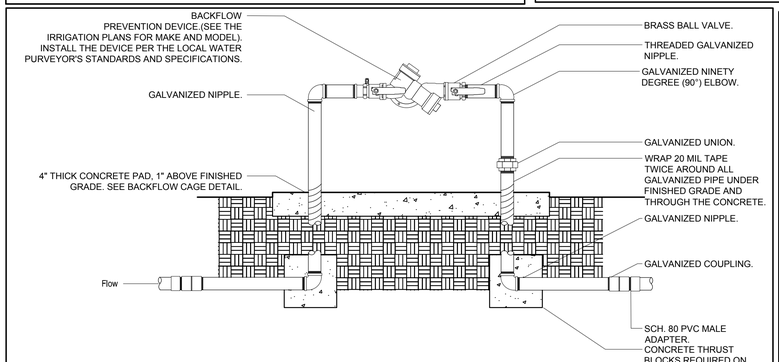
BRASS ISOLATION VALVE NOT TO SCALE



DRIP AIR RELIEF VALVE NOT TO SCALE

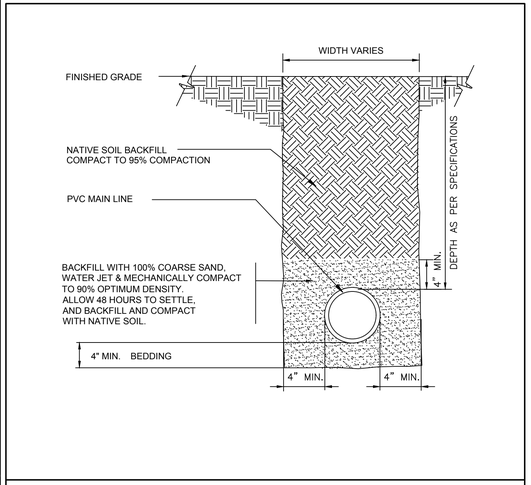


IN-LINE DRIP TUBING

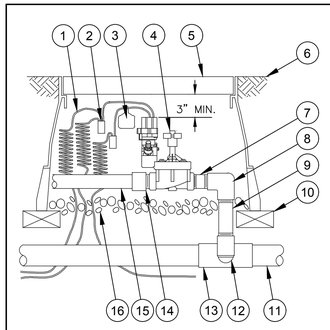


NOTE:
1- ALL ASSEMBLY PARTS (THREADED NIPPLES, FITTINGS, ETC.) SHALL BE GALVANIZED OR BRASS PER LOCAL CODES AND REQUIREMENTS.
2- GALVANIZED NIPPLE SHALL EXTEND 12" PAST THE EDGE OF THE CONCRETE FOOTING.
3- SCH. 80 PVC MALE ADAPTER SHALL BE USED IN CONNECTION FROM GALVANIZE TO THE MAINLINE.
4- BACKFLOW PREVENTION DEVICE SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE LANDSCAPE METER.
5- BACKFLOW PREVENTION DEVICE SHALL BE LOCATED IN PLANTING AREA UNLESS APPROVED BY OWNER'S REPRESENTATIVE.
6- SEE DETAIL FOR BACKFLOW CAGE INSTALLATION.
7- ALL BACKFLOW PREVENTION DEVICES SHALL HAVE FREEZE BLANKET INCLUDED UPON INSTALLATION.
8- ALL GALVANIZED CONNECTIONS SHALL TO BE MADE USING PIPE THREAD SEALANT. ALL SCH. 80 PVC TO GALVANIZED CONNECTIONS TO BE MADE USING TEFLON TAPE.

BACKFLOW PREVENTION DEVICE NOT TO SCALE

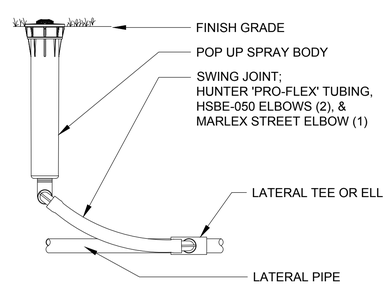


SLEEVE NOT TO SCALE

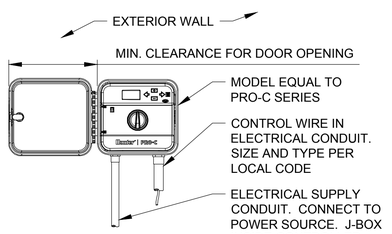


1. WIRE COIL
2. WATERPROOF CONNECTION
3. ID TAG: RAIN BIRD VID SERIES
4. REMOTE CONTROL VALVE
5. VALVE BOX WITH COVER
6. FINISH GRADE/TOP OF MULCH
7. PVC SCH 80 NIPPLE (CLOSE)
8. PVC SCH 40 ELL
9. PVC SCH 80 NIPPLE
10. BRICK (1 OF 4)
11. PVC MAINLINE PIPE
12. SCH 80 NIPPLE
13. PVC SCH 40 TEE OR ELL
14. PVC SCH 40 MALE ADAPTER
15. PVC LATERAL PIPE
16. WASHED GRAVEL

ELECTRIC ZONE VALVE / BOX



4" POP-UP SPRAY HEAD



NOTE
SPECIFY 4,7,10,13,16 STATION MODEL CONTROLLER. MOUNT CONTROLLER WITH LCD SCREEN AT EYE LEVEL. CONTROLLER SHALL BE HARD-WIRED TO GROUNDED 110 VAC SOURCE.

PRO-C CONTROLLER

IRRIGATION NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIAL REQUIRED TO MAKE THE SYSTEM FUNCTION PROPERLY. ALL IRRIGATION SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND ALSO STATE AND/OR LOCAL CODES.
2. IRRIGATION PLANS ARE SCHEMATIC AND DRAWN FOR GRAPHIC CLARITY. ALL PIPING BELOW PAVEMENT SHALL BE SLEEVED. LAYOUT OF IRRIGATION SYSTEM SHALL BE COORDINATED WITH CORRESPONDING LANDSCAPE PLAN.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING LOCAL UNDERGROUND UTILITY PROVIDERS TO VERIFY LOCATIONS. THE CONTRACTOR IS ENCOURAGED TO VISIT THE SITE PRIOR TO INSTALLATION AND BECOME FAMILIAR WITH EXISTING CONDITIONS.
4. VALVE LOCATIONS ARE SCHEMATIC ONLY AND WILL BE ADJUSTED FOR SITE CONDITIONS. EACH VALVE SHALL BE INSTALLED IN A AMETEK OR CARSON VALVE BOX. THE FLOW ADJUSTMENT FEATURE WILL BE USED TO BALANCE PRESSURE THROUGHOUT THE SYSTEM.
5. PIPING SHALL BE SIZED TO MINIMIZE FRICTION LOSS AND MAINTAIN FLOW VELOCITY BELOW 5 FPS.
6. THE IRRIGATION CONTROLLER SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS. PROPER GROUNDING EQUIPMENT AND SURGE PROTECTION SHALL BE PROVIDED. A RAIN SENSOR SHALL BE INSTALLED TO OVER-RIDE THE CONTROLLER.
7. ALL HEADS ON RISERS SHALL BE SET AT THE HEIGHT OF ADJACENT PLANT MATERIAL.
8. SPRINKLER LOCATIONS ADJACENT TO PAVEMENT, STRUCTURES, FENCES, ETC. SHALL BE OFFSET AS FOLLOWS: 12" MIN FOR POP-UP MIST HEADS, 18" FOR SHRUB RISERS, 18" FOR ROTOR HEADS, AND TYPICALLY 5 FEET FOR ROTORS ALONG UNCURBED ROADWAYS.
9. ALL SLEEVING SHALL BE SCH 40 PVC TO SIZE INDICATED ON PLAN, OR IF NOT INDICATED, A MIN. OF 2 PIPE SIZES LARGER THAN SUPPLY LINE CONTAINED. ALL SLEEVES SHALL BE INSTALLED A MIN. OF 24" BELOW FINISH GRADE.
10. CONTROL WIRES SHALL BE UL APPROVED PE IRRIGATION CONTROL WIRE. USE 14 GAGE CONTROL WIRE AND 12 GAGE GROUND WIRE. WIRE SHALL BE BUNDLED AND ATTACHED TO THE MAIN LINE IN TRENCH OR THROUGH WIRE SLEEVES AT PAVEMENT CROSSINGS 24" BELOW FIN. GRADE. ALL SPLICES SHALL BE MADE WITH WATERPROOF DIRECT-BURIAL SPLICE KITS AND CONTAINED IN VALVE BOXES. TWO EXTRA CONTROL WIRES SHALL BE INSTALLED TO THE FURTHEST VALVES IN EACH DIRECTION FROM THE CONTROLLER.
11. PIPING IN NARROW PLANTING AREAS, PARKING ISLANDS AND PLANTERS SHALL BE SET TO ONE SIDE TO ALLOW ROOM FOR ROOT BALLS. PIPE AS INDICATED ON PLAN IS SCHEMATIC AND SHOULD BE ADJUSTED FOR FIELD CONDITIONS.
12. ALL GLUE JOINTS SHALL BE CLEANED, SANDED, AND TREATED WITH A COLORED HIGH ETCH PRIMER AND JOINED USING A SOLVENT CONFORMING WITH ASTM D2564.
13. SYSTEM PIPE SIZE 3/4" SHALL BE CLASS 200 PVC; SYSTEM PIPE SIZE 1" OR GREATER SHALL BE CLASS 160 PVC. SYSTEM MAIN WILL BE SCH. 40 PVC TO SIZE INDICATED ON PLAN. ALL FITTINGS WILL BE SOLVENT WELD SCH 40 PVC. MAIN LINE SHALL HAVE 24" MINIMUM COVER; ALL OTHER PIPING WILL HAVE 12" MIN. COVER. ALL BACKFILL FOR PIPE TRENCHES SHALL BE CLEAN AND FREE OF FOREIGN DEBRIS AND SHARP OBJECTS; BACKFILLED TRENCHES SHALL BE PROPERLY COMPACTED. ALL MAIN LINES WILL BE INSTALLED A MIN. OF 3' FROM ANY TREE OR PALM.
14. WATERING TIME PER STATION WILL BE DETERMINED IN THE FIELD AND PER LOCAL REQUIREMENTS. REFER TO MANUFACTURER'S INSTRUCTIONS FOR PRECIPITATION RATES OF SPRINKLERS SPECIFIED.
15. IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE WITH 100% OVERLAP MIN. PROVIDE BUBBLERS FOR ALL NEW AND RELOCATED TREES AND PALMS.
16. RUST CONTROL SYSTEM TO BE INSTALLED WITH PUMP STATION (IF FROM WELL).
17. THE IRRIGATION SYSTEM IN THE RIGHT-OF-WAY IS TO INCORPORATE LOW TRAJECTORY SPRAY HEADS TO MINIMIZE OVERSPRAY.
18. AS-BUILT DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AND GIVEN TO THE OWNER PRIOR TO FINAL ACCEPTANCE.

PRELIMINARY PLAN
NOT FOR CONSTRUCTION

THESE PLANS ARE NOT FULLY PERMITTED AND ARE SUBJECT TO REVISIONS MADE DURING THE PERMITTING PROCESS. RESPONSIBILITY FOR THE USE OF THESE PLANS PRIOR TO OBTAINING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT WILL FALL SOLELY UPON THE USER.

CONCEPTUAL DESIGN	YYYY-MM-DD
SCHEMATIC DESIGN	YYYY-MM-DD
DESIGN DEVELOPMENT	YYYY-MM-DD
CONSTRUCTION DOCUMENTS	YYYY-MM-DD
PLAN CHECK SUBMITTAL	YYYY-MM-DD
PERMIT SET	YYYY-MM-DD
BID ISSUE	YYYY-MM-DD
CONSTRUCTION ISSUE	YYYY-MM-DD

REGISTERED LANDSCAPE ARCHITECT PAUL H. WEINBERG LA 6666804 STATE OF FLORIDA

01/04/21

PAUL H. WEINBERG, R.L.A.
FLORIDA REG. NO. LA6666804
(FOR THE FIRM)

ART AND CULTURE CENTER EDUCATION FACILITY

1650 HARRISON STREET HOLLYWOOD, FL 33020

PROJECT NUMBER: 01924.0
KEITH PROJECT NUMBER: 10842.00

REVISIONS
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1 -- 4 --
2 -- 5 --
3 -- 6 --

SHEET TITLE:
IRRIGATION DETAILS

SCALE: AS SHOWN
DATE PRINTED: 2021-01-04

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