



Mayor
Francis Suarez

Commission:

Chairman - D5 Commissioner
Keon Hardemon

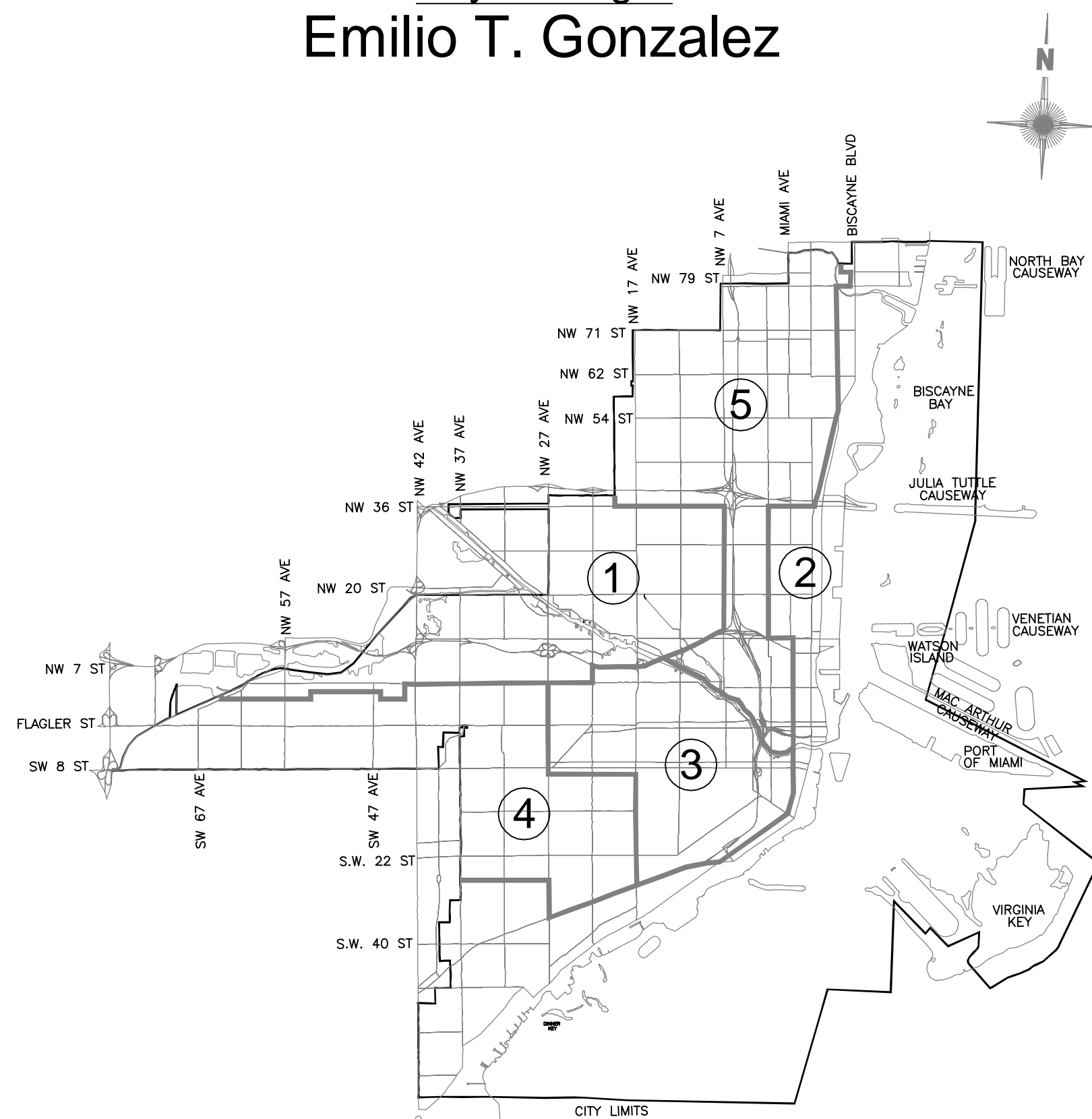
Vice Chairman - D2 Commissioner
Ken Russell

D1 Commissioner
Wifredo (Willy) Gort

D3 Commissioner
Joe Carollo

D4 Commissioner
Manolo Reyes

City Manager
Emilio T. Gonzalez



CITY OF MIAMI

OFFICE OF CAPITAL IMPROVEMENTS

Steven C. Williamson, Director

PBA FERN ISLE PARK REDEVELOPMENT

CITY OF MIAMI PROJECT NO. B-40543

2304 N.W. 14TH STREET, MIAMI, FLORIDA 33125

PERMIT SET REV 02 - APRIL 2019

SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP

LANDSCAPE ARCHITECT
GEORGE PUIG, P.L.A.
KIMLEY-HORN AND ASSOCIATES, INC.
355 ALHAMBRA CIRCLE, SUITE 1400
CORAL GABLES, FLORIDA 33134
(305) 673-2025

CIVIL ENGINEER
ALBERTO HERRERA, P.E.
KIMLEY-HORN AND ASSOCIATES, INC.
355 ALHAMBRA CIRCLE, SUITE 1400
CORAL GABLES, FLORIDA 33134
(305) 673-2025

ARCHITECT
J GARY MCGRAW
GIL-MCGRAW ARCHITECTS LLP
(305) 663-1263

STRUCTURAL ENGINEER
LUIS M. RODRIGUEZ, PE
ARMANDO SALAS, PE
BRILL RODRIGUEZ SALAS & ASSOCIATES
9360 SW 72 ST, SUITE 262
MIAMI FLORIDA 33173
(305) 273-4204

GEOTECHNICAL ENGINEER
PROFESSIONAL SERVICES INDUSTRIES, INC.
7950 NW 64th STREET
MIAMI, FLORIDA, 33166
(305) 471-7725
FAX (305) 593-1915

MEP ENGINEER
RENE I. BASULTO, PE
BASULTO & ASSOCIATES
14160 PALMETTO FRONTAGE ROAD,
MIAMI LAKES, FLORIDA, 33016
(305) 698-3988

PROJECT:

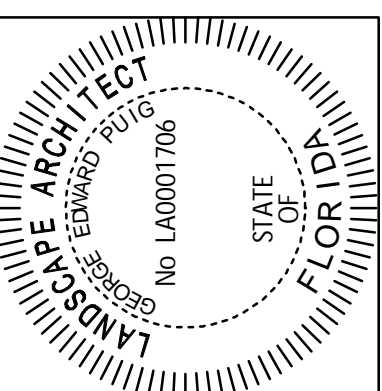
**PBA FERN ISLE PARK
REDEVELOPMENT**

No.	REVISIONS - SUBMITTALS	DATE
01	PERMIT SET REV 01	03/08/19
02	PERMIT SET REV 02	04/26/19

INDEX OF DRAWINGS

Sheet	Description	Sheet	Description	Sheet	Description
L-000	COVER SHEET	L-451	LANDSCAPE SPECIFICATIONS	E-3.1	STORAGE BUILDING AND PAVILION
-	BOUNDARY SURVEY SHEET 1,2,3, & 4	L-600	IRRIGATION PLAN	E-4.0	ELECTRICAL RISER AND PANEL SCHEDULES
C-101	GENERAL NOTES	L-650	IRRIGATION SCHEDULE AND DETAILS	E-5.0	ELECTRICAL DETAILS
C-200	DEMOLITION NOTES	L-651	IRRIGATION DETAILS	M-1.0	HVAC NOTES, SCHEDULES, AND DETAILS
C-201	DEMOLITION PLAN	L-652	IRRIGATION NOTES	M-2.0	MECHANICAL FLOOR PLAN
C-300	EROSION AND SEDIMENT CONTROL NOTES	L-653	IRRIGATION NOTES	P-1.0	PLUMBING NOTES, SCHEDULE
C-301	EROSION AND SEDIMENT CONTROL PLAN	INDEX	INDEX, ABBREVIATIONS, LOCATION MAP	P-2.0	RESTROOM FLOOR PLAN ISOMETRICS
C-302	EROSION AND SEDIMENT CONTROL DETAILS	A-2.0	SITE PHOTOS	P-3.0	PLUMBING DETAILS
C-303	EROSION AND SEDIMENT CONTROL DETAILS	A-2.1	ARCHITECTURAL SITE PLAN		
C-400	SITE PLAN	A-3.0	FLOOR PLANS, REFLECTED CEILING PLAN		
C-401	SITE PLAN DETAILS	A-3.1	ROOF PLAN, EXISTING STORAGE BUILDING PLAN		
C-500	PAVING, GRADING, AND DRAINAGE PLAN	A-3.2	RESTROOM INTERIOR ELEVATIONS		
C-501	PAVING, GRADING AND DRAINAGE PLAN	A-4.0	EXTERIOR ELEVATIONS		
C-502	PAVING, GRADING, AND DRAINAGE DETAILS	A-5.0	BUILDING SECTION "A"		
C-503	PAVING, GRADING, AND DRAINAGE DETAILS	A-5.1	BUILDING SECTION "B"		
C-600	WATER AND SEWER NOTES	A-6.0	DETAILS		
C-601	WATER AND SEWER PLAN	A-7.0	ARCHITECTURAL SPECIFICATIONS		
C-602	WATER AND SEWER PLAN	S-1.0	STRUCTURAL NOTES		
C-603	WATER AND SEWER PROFILES	S-2.1	FOUNDATION AND GROUND FLOOR PLAN		
L-150	EXISTING TREE PLAN	S-2.2	ROOF FRAMING PLANS		
L-200	TREE DISPOSITION PLAN	S-4.1	STRUCTURAL WALL SECTIONS		
L-250	TREE DISPOSITION NOTES & DETAILS	S-5.1	STRUCTURAL DETAILS		
L-300	HARDSCAPE PLAN	S-5.2	STRUCTURAL DETAILS		
L-350-353	HARDSCAPE DETAILS	E-1.0	GENERAL ELECTRICAL NOTES & LEGEND		
EX-1-6	MANUFACTURER'S DETAILS	E-2.0	ELECTRICAL SITE PLAN		
L-400	LANDSCAPE PLAN	E-2.1	PHOTOMETRIC SITE PLAN		
L-450	LANDSCAPE DETAILS	E-3.0	RESTROOM BUILDING ELECTRICAL & LIGHTING PLAN		

SEAL

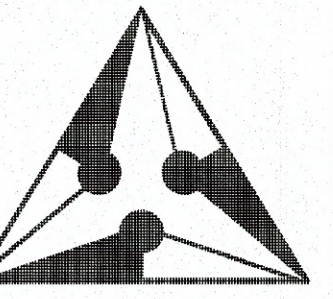


SHEET No. PAGE No.

COVER

BOUNDARY SURVEY

of
2300 N.W. 14th STREET, MIAMI,
MIAMI-DADE COUNTY, FLORIDA 33125
for
CITY OF MIAMI

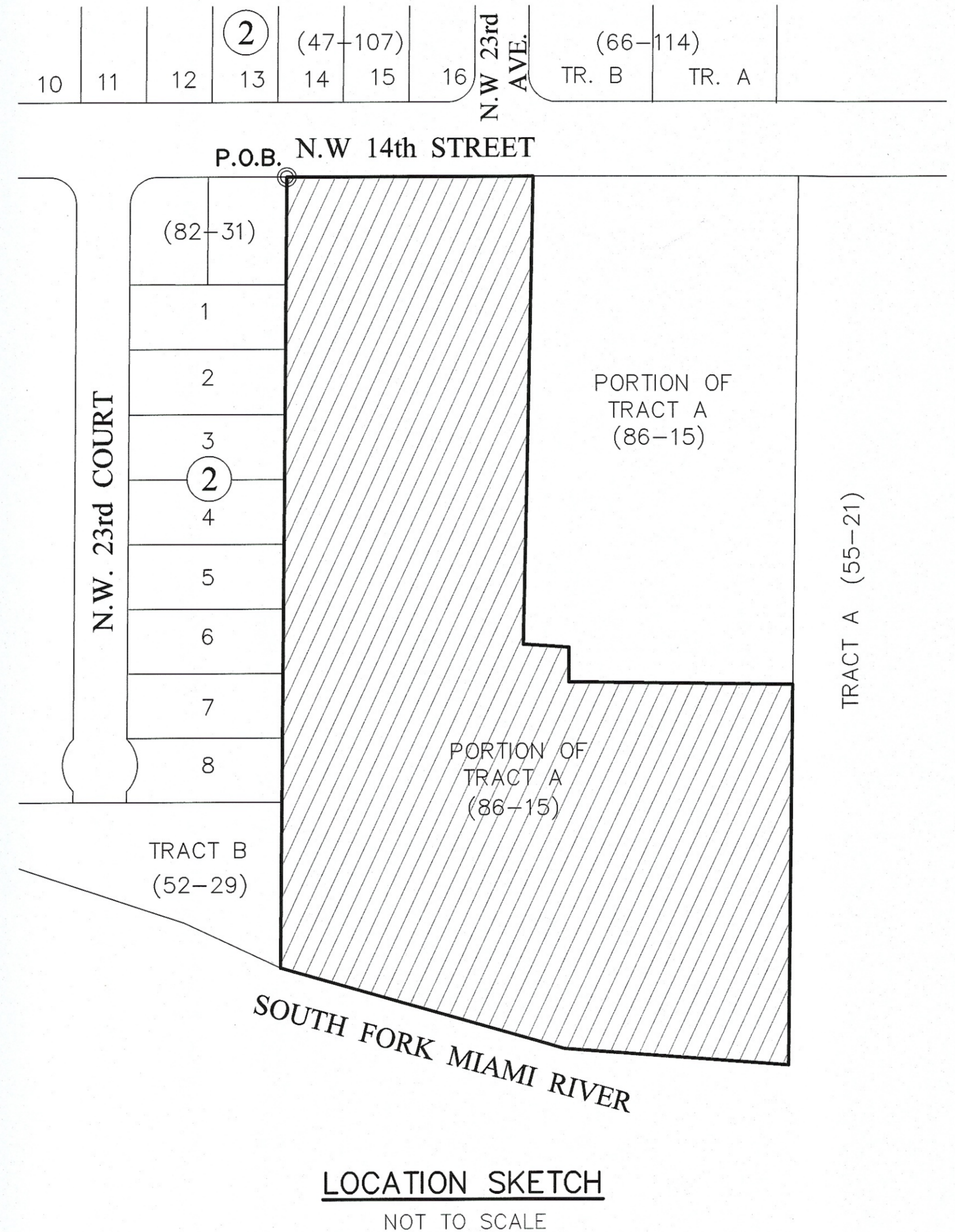


J. Bonfill & Associates, Inc.
 REGISTERED LAND SURVEYORS & MAPPERS
 Florida Certificate of Authorization LB3398
 7100 S.W. 99th Avenue Suite 104
 Miami, Florida 33173 (305) 598-8383

BOUNDARY SURVEY
 of
 2300 N.W. 14th STREET, MIAMI,
 MIAMI-DADE COUNTY, FLORIDA 33125
 for
 CITY OF MIAMI

TREE No.	COMMON NAME	DIAMETER (INCHES)	HEIGHT(FT)	CANOPY(FT)
T1	TREE	72	50	65
T2	TREE	45.6	50	40
T3	TREE	60	50	50
T4	PINE TREE	36	45	45
T5	TREE	24	28	16
T6	TREE	18	40	28
T7	TREE	9.6	20	17
T8	TREE	4.8	10	8
T9	TREE	3	8	4
T10	COCONUT PALM	9.6	20	15
T11	TREE	7.2	15	18
T12	COCONUT PALM	9.6	32	16
T13	OAK	30	38	26
T14	OAK	36	50	50
T15	OAK	36	50	50
T16	OAK	48	50	50
T17	TREE	36	40	60
T19	OAK	30	60	45
T20	OAK	24	55	35
T21	TREE	24	40	40
T22	OAK	36	60	60
T23	OAK	30	45	30
T24	OAK	30	45	30
T27	OAK	36	60	30
T28	OAK	24	40	20
T31	TREE	60	60	50
T32	OAK	60	60	30
T33	OAK	21.6	25	15
T34	OAK	21.6	25	15
T35	OAK	21.6	25	10

TREE No.	COMMON NAME	DIAMETER (INCHES)	HEIGHT(FT)	CANOPY(FT)
T36	OAK	36	35	40
T37	OAK	18	30	10
T38	TREE	72	60	80
T39	TREE	60	45	45
T46	TREE	48	35	20
T47	TREE	48	50	35
T48	TREE	96	65	55
T49	MAHOGANY	7.2	20	10
T50	MAHOGANY	7.2	25	12
T51	MAHOGANY	7.2	25	12
T52	OAK	6	18	8
T54	OAK	6	18	8
T55	TREE	7.2	30	18
T58	TREE	3.6	18	8
T59	TREE	18	30	15
T60	TREE	9.6	14	6
T61	TREE	12	30	20
T63	TREE	12	40	30
T64	TREE	12	25	20
T65	TREE	12	25	15
T66	TREE	72	60	50
T67	PALM	18	50	18
T69	TREE	96	65	50
T104	TREE	12	28	23
T105	OAK	4.8	18	8
T106	OAK	6	18	8
T107	MAHOGANY	9	26	15
T108	TREE	12	30	30



SURVEYOR'S NOTES:

1. MAP OF BOUNDARY SURVEY:
Field Survey was completed on: August 29th, 2018.

2. LEGAL DESCRIPTION:
All that Lot, piece or parcel of land, situate, lying in Section 34, Township 53 South, Range 41 East, City of Miami, Miami-Dade County, Florida, being a portion of Tract "A" of "POLICE BENEVOLENT ASSOCIATION", according to the Plat thereof, as recorded April 25, 1969 in Plat Book 86, at Page 15 of the Public Records of Dade County, (now Miami-Dade County), Florida, the same being particularly described by metes and bounds as follows, viz:
Begin at the Northwest corner of said Tract "A", thence N87°54'32"E (the same line bearing West by Plat) along the North line of said Tract "A" and the South right of way of N.W. 14th Street for 231.06 feet; thence departing said North line of Tract "A" and the south right of way line of N.W. 14th Street, S00°49'34"E for 433.64 feet; thence S88°04'50"E for 42.63 feet; thence S01°55'10"E for 32.19 feet; thence N88°35'32"E for 208.03 feet to a point of intersection with the East line of said Tract "A", thence S01°24'28"E (the same line bearing S00°41'00"W by Plat) along said East line of Tract "A" for 354.86 feet to the Southeast corner of said Tract "A"; thence N87°51'35"W along the South line of said Tract "A" for 208.67 feet (the same line bearing S85°46'07"E for a distance of 208.29 feet by Plat); thence N76°01'43"W along said South line of Tract "A" for 274.58 feet (the same line bearing S73°56'15"E for a distance of 275.00 feet by Plat) to the Southwest corner of said Tract "A"; thence N01°35'28"W (the same line bearing S00°30'00"W by Plat) along the West line of said Tract "A" for 734.60 feet to the Point of Beginning.
Containing 261,340 Square feet or 6.0 Acres, more or less, by calculation.
The above captioned property was surveyed based on the above Legal Description as per O.R.B 25532, Page 4543.

3. SOURCES OF DATA:
AS TO VERTICAL CONTROL:
By scaled determination the subject property lies in Flood Zone AE, Base Flood Elev. 9 feet, as per Federal Emergency Management Agency (FEMA) Community-Panel Number 120650, Map No. 12086C0311, Suffix L, Revised Date: 09-11-2009.
An accurate Zone determination should be made by the preparer of the map, the Federal Emergency Management Agency, or the Local Government Agency having jurisdiction over such matters prior to any judgments being made from the Zone as noted. The referenced Federal Emergency Management Agency Map states in the notes to the user that "this map is for insurance purposes only".
The vertical control element of this survey was derived from the City of Miami Datum.

Benchmarks used:
City of Miami Benchmark Elevation=8.35'
Location: S.W. 14th Street & S.W. 23rd Avenue
City of Miami Benchmark Elevation=7.77'
Location: SE corner of S.W. 14th Street & S.W. 23rd Court

AS TO HORIZONTAL CONTROL:
North Arrow and Bearings refer to an assumed value of West along the North line of the Subject property, as per Plat Book 86, Page 15, Miami-Dade County, Florida. Said line is considered well established and monumented.

4. ACCURACY:
The accuracy obtained by measurement and calculation of closed geometric figures was found to exceed this requirement.

5. LIMITATIONS:
Since no other information other than what is cited in the Sources of Data was furnished, the Client is hereby advised that there may be legal restrictions on the Subject Property that are not shown on the Survey Map or contained within this Report that may be found in the Public Records of Miami-Dade County, or the records of any other public and private entities as their jurisdictions may appear. The Surveyor makes no representation as to ownership or possession of the Subject Property by any entity or individual who may appear in public records. No excavation or determination was made as to how the Subject Property is served by utilities. No improvements were located, other than those shown. No underground foundations, improvements and/or utilities were located or shown hereon. This notice is required by the "Standards of Practice for Land Surveying in the State of Florida," pursuant to Rule 5J-17 of the Florida Administrative Code.
Notice is hereby given that Sunshine State One Call of Florida, Inc., must be contacted at 1-800-432-4770 at least 48 hours in advance of any construction, excavation or demolition activity within, upon, abutting or adjacent to the Subject Property. This Notice is given in compliance with the "Underground Facility Damage Prevention and Safety Act," pursuant to Chapter 556.101-111 of the Florida Statutes.

CERTIFY TO:

SURVEYOR'S CERTIFICATE:
I HEREBY CERTIFY: That the Boundary Survey of the above described property is true and correct to the best of my knowledge and belief as recently surveyed under my direction. Further, there are no above ground encroachments unless shown. This survey meets the Standards of Practice set forth by the Florida Board of Professional Surveyors and Mappers, in Chapter 5J-17, Florida Administrative Code, pursuant to section 472.027 Florida Statutes. Examination of the abstract of title will have to be made to determine recorded instruments, if any, affecting the property. Location and identification of utilities adjacent to the property were not secured as such information was not requested. Ownership is subject to opinion of title.

J. Bonfill & Associates, Inc.
Florida Certificate of Authorization Number LB 3398
By: *Oria Jannet Suarez*
Oria Jannet Suarez, P.S.M.
Professional Surveyor and Mapper No. 6781
State of Florida

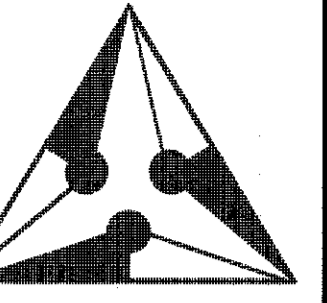
NOTICE: Not valid without the signature and original raised seal of a Florida Licensed Surveyor and Mapper. Additions or deletions to Survey Maps or reports by other than the signing party or parties is prohibited without the written consent of the signing party or parties.

REVISIONS	BY
REVISION 1 (TREES) 11-19-18	J.S.

Proj:	16-0023
Job:	18-0219
Date:	08-29-2018
Drawn:	G.P., J.S., C.B., M.R., A.A., JB
Checked:	J.S.
Scale:	AS SHOWN
Field Book:	FILE

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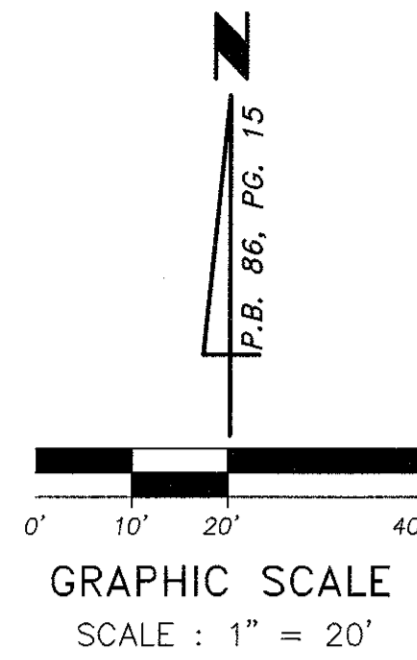


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SHEET 2 OF 4	



LEGEND

- Diameter
- Air Conditioning
- Water Pump
- Back Flow Preventer
- Concrete Light Pole
- Metal Light Pole
- Guy Wire
- Utility Power Pole
- Fire Hydrant
- Water Meter
- Electric Box
- Telephone Box
- Sewer Manhole
- Overhead Utility Lines
- Light Pole
- Gas Valve
- Water Valve
- Water Manhole
- Telephone Manhole
- Monitoring Well
- Parking Meter
- Unknown Manhole
- Sewer Valve
- Mail Box
- Spot Elevation
- Temporary Benchmark
- Right-of-Way Lines
- Property Corner
- Traffic Sign
- Catch Basin
- Drainage Manhole
- Irrigation Control Valve
- Iron Fence
- C.B.S. Wall
- Clean Out
- Guard Pole
- Chain Link Fence
- Wood Fence

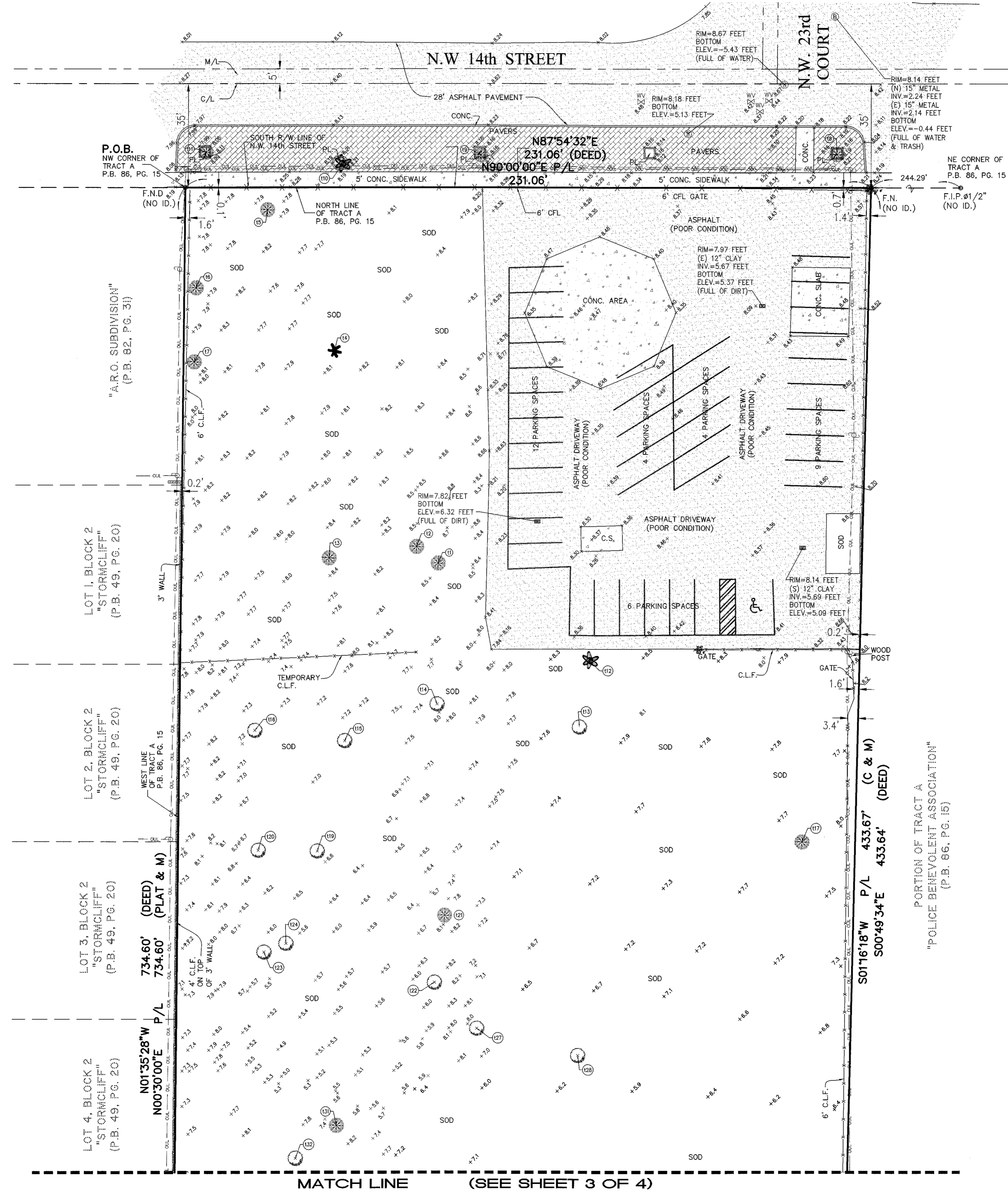
ABBREVIATIONS

- A Arc Length
- A/C Air Conditioner Pad
- ASPH. Asphalt
- B.M. Benchmark
- C.B.S. Concrete Block Structure
- C.C. Conc. Curb
- C.G. Curb & Gutter
- C/L Center Line
- C.L.F. Chain Link Fence
- CONC. Concrete
- C.S. Concrete Slab
- D.C. Depress Curb
- DWR. Driveway
- E.T.P. Electric Transformer Pad
- F.F.E. Finished Floor Elevation
- F.I.P. Found Iron Pipe
- F.N.D. Found Nail & Disc
- F.R. Found Rebar
- I.D. Identification
- INV. Inverts
- L.F.E. Lowest Floor Elevation
- M/L Monument Line
- P.B. Plat Book
- P.C.P. Permanent Control Point
- PG. Page
- PL. Planter
- P/L Property Line
- P.R.M. Permanent Reference Monument
- R/W Right-of-Way Line
- SWK. Sidewalk
- T.B.M. Temporary Benchmark
- V.G. Valley Gutter
- W.F. Wood Fence
- U.E. Utility Easement
- (C) Calculated
- (M) Measured

TREE LEGEND

- | SYMBOL | COMMON NAME |
|--------|------------------------|
| | Tree (Species unknown) |
| | Palm Tree |
| | Mahogany |
| | Coconut Palm |
| | Oak Tree |
| | Pine Tree |

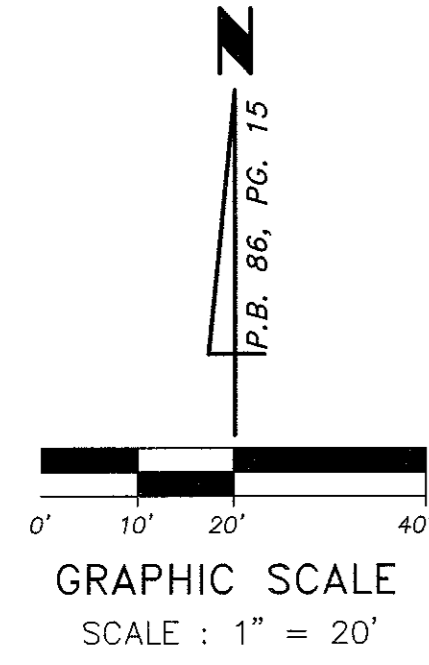
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MATCH LINE (SEE SHEET 3 OF 4)

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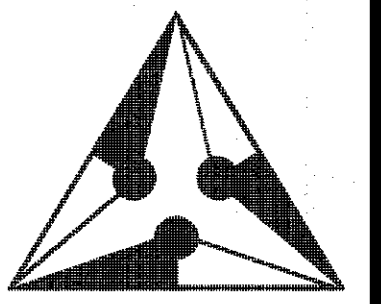
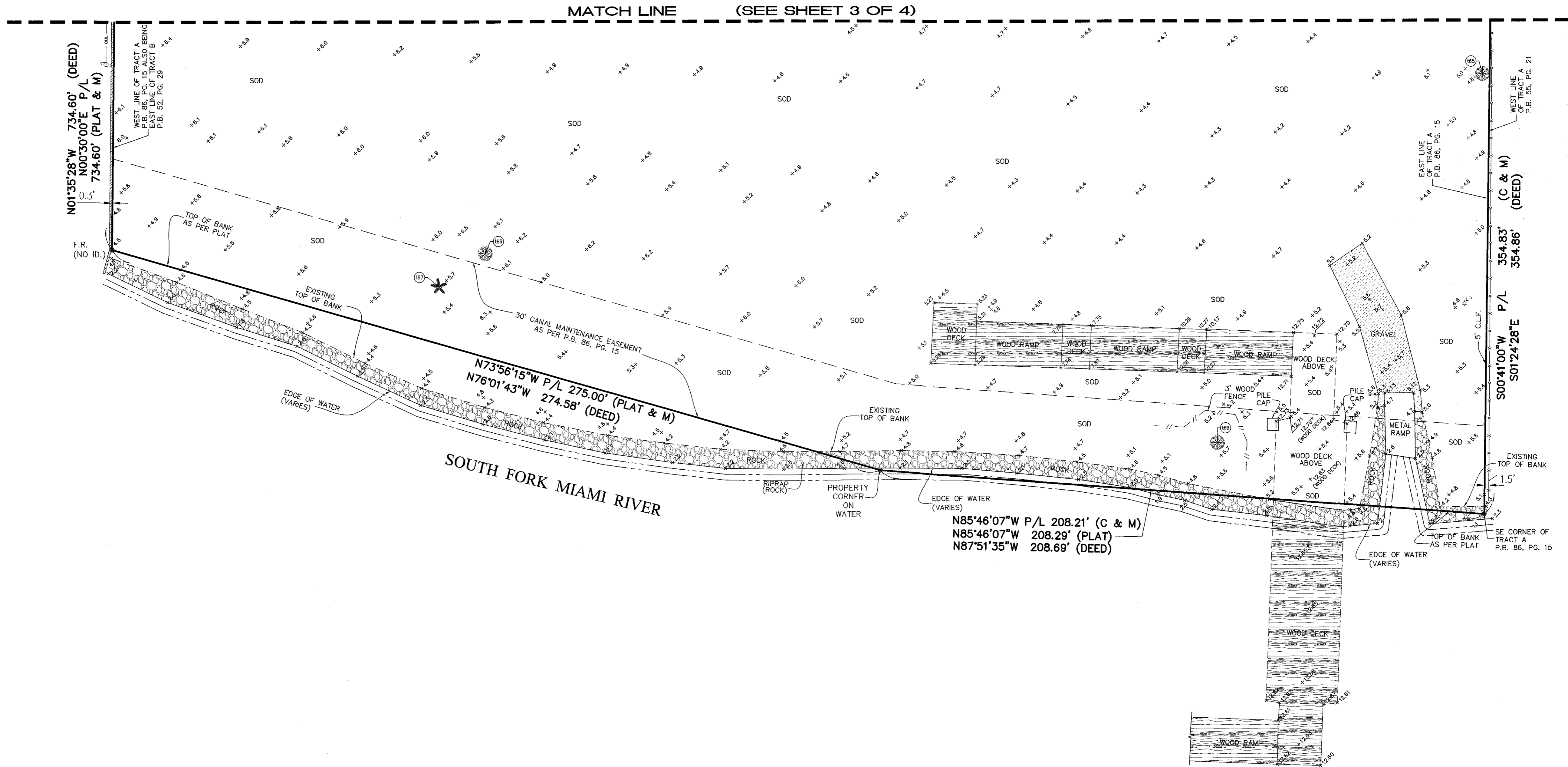
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- Monitoring Well
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SYMBOL COMMON NAME

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- ⊞ Mahogany
- ⊞ Coconut Palm
- ⊞ Oak Tree
- ⊞ Pine Tree

* Tree types are determined to the best of our ability and should be confirmed by botanist or a trained specialist.



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Checked:	J.S.
Scale:	AS SHOWN
Field Book:	FILE
SHEET 4 OF 4	

I. GENERAL NOTES AND SPECIFICATIONS

1. GENERAL NOTES ON THE PROJECT PLANS AND DRAWINGS ARE SOLELY TO AID AND ASSIST THE CONTRACTOR WITH THE FIELD OPERATIONS FOR THE PROJECT. GENERAL NOTES MAY NOT FULLY DESCRIBE ALL OF THE REQUIREMENTS FOR AN ITEM. THEREFORE, THE CONTRACTOR SHALL READ AND VERIFY THE CONTRACT DOCUMENTS, INCLUDING BUT NOT LIMITED TO PLANS, SPECIFICATIONS, GENERAL TERMS, AND CONDITIONS, AND THE SUPPLEMENTAL TERMS AND CONDITIONS, TO FULLY UNDERSTAND AND COMPLY WITH ALL REQUIREMENTS THEREIN.
2. ALL MATERIALS AND CONSTRUCTION UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE CITY OF MIAMI PUBLIC WORKS MANUAL, THE FLORIDA BUILDING CODE, FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DESIGN STANDARDS AND SPECIFICATIONS AND ALL OTHER LOCAL, STATE AND FEDERAL REQUIREMENTS.
3. LOCATIONS, SIZE AND MATERIAL OF EXISTING UTILITIES HAVE BEEN DETERMINED FROM AVAILABLE RECORDS. NEITHER THE DEVELOPER, CLIENT, OWNER NOR THE ENGINEER OF RECORD GUARANTEES THE ACCURACY OF THIS DATA. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HORIZONTALLY AND VERTICALLY LOCATE AND PROTECT ALL EXISTING UTILITIES AND STRUCTURES ENCOUNTERED DURING CONSTRUCTION. THE CONTRACTOR SHALL PHYSICALLY FIELD VERIFY BOTH THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UNDERGROUND AND ABOVE GROUND UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL BEAR ALL COSTS FOR THIS WORK.
4. ALL EXISTING UNDERGROUND OR ABOVEGROUND UTILITY PIPES, CABLES, DUCTS, EQUIPMENT, DEVICES, ETC. WITHIN OR OUTSIDE THE PROJECT CONSTRUCTION LIMITS WHICH ARE DAMAGED OR DISRUPTED AS A RESULT OF THE CONTRACTOR'S OPERATION, SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE UTILITY OWNER. REGARDLESS OF WHETHER THEY WERE SHOWN OR NOT SHOWN ON THE PLANS OR LOCATED OR NOT BY THE OWNER'S REPRESENTATIVE, THE UTILITY COMPANY, SUNSHINE STATE ONE-CALL OF FLORIDA, ETC.
5. ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO COMMENCING ANY CONSTRUCTION WORK.
6. NO FIELD CHANGES OR DEVIATIONS FROM THE DESIGN ARE TO BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
7. ALL DEFECTIVE WORK NOT ACCEPTED BY THE ENGINEER OF RECORD, BY THE OWNER'S REPRESENTATIVE, OR BY ANY GOVERNMENTAL PERMITTING REGULATORY AGENCY SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
8. ALL STAGING AREAS SHALL BE PROPERLY FENCED AND SECURED BY THE CONTRACTOR.
9. ALL AREAS WHICH ARE BEING EXCAVATED SHALL BE PROPERLY PROTECTED AND BARRICADED BY THE CONTRACTOR. ALL TRENCH WORK SHALL COMPLY WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 C.F.R.S. 1926.650 SUBPART P AND THE FLORIDA TRENCH SAFETY ACT.
10. ALL EXISTING CONCRETE AND/OR ASPHALT PAVEMENT, CURB AND GUTTERS, CURBS AND WALKS, SOD, LANDSCAPING, FENCE, ETC. DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL CONDITIONS, AT NO ADDITIONAL COST TO THE OWNER OR CLIENT.
11. TEMPORARY ASPHALT PAVEMENT SHALL BE APPLIED TO ALL TRENCHES, WITHIN AN EXISTING PAVED RIGHT OF WAY, AT THE END OF EACH WORKDAY. PLATING MAY BE USED WITH THE RIGHT-OF-WAY OWNER'S PRIOR CONSENT.
12. PROVIDE FILL TO ENSURE THAT THE FINISH GRADE (INCLUDING SOD) IN LANDSCAPE AREAS ARE AT LEVEL OF CURBS AND/OR EDGE OF SIDEWALKS.
13. WHERE NEW GRADES BLEND INTO EXISTING GRADES IN LANDSCAPE AREAS PROVIDE A UNIFORM TRANSITION. PROTECT ALL EXISTING PAVEMENT AND LANDSCAPE AREAS THAT ARE TO REMAIN.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING UNINTERRUPTED WATER AND SEWER SERVICE DURING THE CONSTRUCTION OF THE TIE-IN CONNECTION OF ALL PROPOSED WATER OR SANITARY SEWER SYSTEMS, TO ANY EXISTING WATER OR SANITARY MAINS AND SERVICE LINES. ABANDONMENT SHALL NOT OCCUR UNTIL THE PROPOSED WORK HAS BEEN APPROVED AND ACCEPTED FOR OPERATION BY THE ENGINEER OF RECORD AND CITY OF MIAMI PUBLIC WORKS DEPARTMENT. ALL EXISTING FIRE HYDRANTS SHALL BE RECONNECTED TO THE PROPOSED WATER MAIN. CITY OF MIAMI PUBLIC WORKS DEPARTMENT FIELD OPERATIONS SECTION WILL COORDINATE IN THE FIELD WITH THE WATER DISTRIBUTION DIVISION TO DETERMINE IF AN EXISTING FIRE HYDRANT SHALL BE REPLACED AS NEEDED OR REQUIRED.
15. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE PUBLIC HEALTH AND ENSURE JOB SAFETY. THE CONTRACTOR SHALL CONFORM TO ALL APPLICABLE OCCUPATIONAL SAFETY & HEALTH AGENCY (OSHA) STANDARDS AND FEDERAL, STATE AND LOCAL GOVERNMENT SAFETY REQUIREMENTS.
16. THE CONTRACTOR SHALL ENSURE THAT OVERFLOWS OR RAW SEWAGE SPILLS DO NOT OCCUR DURING CONSTRUCTION OF PROPOSED SANITARY SEWER TIE-IN CONNECTIONS.
17. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT STORM WATER POLLUTION PREVENTION AND EROSION CONTROL MEASURES AND PRACTICES DURING CONSTRUCTION IN ACCORDANCE WITH THE EROSION CONTROL PLAN DETAILS AND THE CURRENT FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (N.P.D.E.S.) PERMIT FOR CONSTRUCTION ACTIVITIES REQUIREMENTS.
18. CONTRACTOR SHALL ENSURE THAT ALL STORM WATER RUN-OFF WITHIN THE CONSTRUCTION AREA IS CONTAINED ON-SITE.
19. WHEN POWER POLES ARE ADJACENT TO ANY PROPOSED UTILITY, THE CONTRACTOR SHALL PROVIDE PROPER SHORING OR OTHER SUITABLE SUPPORT DURING CONSTRUCTION. THE SHORING AND SUPPORT METHODS SHALL BE APPROVED BY THE UTILITY COMPANY'S ENGINEERING DEPARTMENT.
20. DUE TO FEDERAL REGULATIONS, THE CONTRACTOR MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES AND MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE WITHIN THE PROJECT AREA.
21. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER EXISTING SITE IMPROVEMENTS, FEATURES AND CONDITIONS SHOWN ON THE DRAWINGS WERE OBTAINED FROM THE FOLLOWING TOPOGRAPHIC BOUNDARY SURVEY SPECIFICALLY PREPARED FOR THIS PROJECT:

TITLE: BOUNDARY SURVEY
DATE: 8/29/2018
BY: J. BONFILL & ASSOCIATES, INC.
7100 SW 99TH AVE, STE 104
MIAMI, FL 33173
(305) 598-8383 PHONE
22. ALL UTILITY CONNECTIONS TO THE BLDG. SHALL BE CONSTRUCTED AND CAPPED OR PLUGGED FIVE FEET FROM THE PROPOSED BUILDING. CONTRACTOR SHALL PERFORM TIE-INS TO THE BUILDING. THE COST ASSOCIATED WITH THE TAPPING/PLUGGING OF THE UTILITIES SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE.
23. CONTRACTOR SHALL COORDINATE WORK WITH OTHER UTILITY AND BUILDING TRADES WORKING ON THIS OR ADJACENT PROJECTS.
24. THE CONTRACTOR SHALL TAKE SPECIAL NOTE OF THE EXISTING SOIL CONDITIONS THROUGHOUT THIS PROJECT. ANY SPECIAL SHORING, SHEETING AND/OR OTHER PROCEDURES NECESSARY TO PROTECT ADJACENT PROPERTY, EITHER PUBLIC OR PRIVATE, DURING CONSTRUCTION ACTIVITIES. ALL COST ASSOCIATED WITH SUCH WORK SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
25. AFTER LOCATING AND VERIFYING EXISTING UTILITY TIE IN POINTS, CONTRACTOR IS TO VERIFY THAT DESIGN COMPONENTS SUCH AS, BUT NOT LIMITED TO, PERCENT SLOPE, INVERT, TAP LOCATIONS, PIPE RUNS, INFRASTRUCTURE DEPTH, ETC. WILL STILL BE IN ACCORDANCE WITH THE ENGINEERING PLANS.
26. IF IT SHOULD BECOME NECESSARY TO STOP WORK FOR INDEFINITE PERIODS, THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO PREVENT DAMAGE OR DETERIORATION OF THE WORK ALREADY PERFORMED.
27. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL UTILITY MARKINGS ONCE THE WORK IS COMPLETED. CONTRACTOR SHALL USE SPECIAL CARE WHEN REMOVING THE UTILITY MARKINGS. THE REMOVAL METHOD NEEDS TO BE SUCH THAT IT DOES NOT DAMAGE THE SURFACE OF THE EXISTING WORK ALREADY IN PLACE. IF WATER-RESISTING OLDER ASPHALT PAVEMENT, CARE NEEDS TO BE TAKEN TO NOT DISCOLOR THE ASPHALT OR POLISH THE AGGREGATE. IF THE REMOVALS ARE AN OLDER CONCRETE SURFACES, THE ENTIRE SURFACE OF A PANEL OR SECTION NEEDS TO BE BLASTED TO SHOW UNIFORM COLOR THROUGHOUT THE SAME PANEL OR SECTION. IN ANY CASE (ASPHALT OR CONCRETE SURFACE), THE METHOD NEEDS TO BE SUCH THAT A SLICK SURFACE IS NOT LEFT BEHIND.

NOT PART OF MD-WASD NOTES OR APPROVAL

II. PRE-CONSTRUCTION RESPONSIBILITIES

1. THE INFORMATION PROVIDED IN THESE PLANS IS TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT ANY INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED AND UPON WHICH THEIR BIDS WILL BE BASED.
2. THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE-CALL OF FLORIDA (1-800-432-4770) AND ALL KNOWN EXISTING UTILITY OWNERS AT LEAST 2 BUSINESS DAYS BEFORE DIGGING TO ALLOW FOR FIELD LOCATION OF UNDERGROUND UTILITIES. CONTRACTOR SHALL ASSIST THE UTILITY COMPANIES IN THEIR EFFORTS TO FIELD VERIFY UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BEAR ALL COSTS FOR THIS WORK.
3. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO ARRANGE FOR ANY REMOVAL, RELOCATION AND TEMPORARY SUPPORT OF UTILITY FEATURES, ETC. AS NECESSARY TO COMPLETE THE WORK, IF APPLICABLE.

III. OBSERVATIONS AND TESTING

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AT LEAST 2 BUSINESS DAYS IN ADVANCE OF PERFORMING ALL CIVIL RELATED TESTS. UNLESS AUTHORIZED BY THE ENGINEER OF RECORD, THE CONTRACTOR SHALL NOT PROCEED WITH TESTING UNLESS THE ENGINEER OR A DESIGNATED REPRESENTATIVE IS PRESENT TO WITNESS THE TESTS.
2. THE ENGINEER OF RECORD WILL REQUIRE THAT THE FOLLOWING TESTS BE PERFORMED WITH ACCEPTABLE RESULTS:
 - A. SANITARY SEWAGE COLLECTION SYSTEM:
 - I. LAMPING TEST FROM MANHOLE TO MANHOLE, INCLUDING CONNECTING MANHOLE
 - II. INFILTRATION/EXFILTRATION TEST UP TO THE CONNECTING MANHOLE
 - III. PRESSURE TEST AS REQUIRED BY DRCR
 - B. STORM DRAINAGE-(EXFILTRATION TRENCH DEPTH)
 - I. EXFILTRATION TRENCH DEPTH
 - II. LAMPING TEST FROM MANHOLE TO MANHOLE, INCLUDING CONNECTING MANHOLE (IF APPLICABLE)
 - C. DRAINAGE WELL SPECIFIC CAPACITY TEST.
 - D. WATER SYSTEM-(PRESSURE TEST AND BACTERIOLOGICAL TEST)
 - E. SUBGRADE - SUBMIT AND HAVE APPROVED DENSITIES PRIOR TO PLACEMENT OF ROCK.
 - F. LIME ROCK BASE - SUBMIT AND HAVE APPROVED DENSITIES AND AS-BUILTS PRIOR TO THE PLACEMENT OF ANY ASPHALT. (FLAT BOARDING ALSO REQUIRED.)
 - G. ASPHALT PAVEMENT
 - H. FINAL WALK-THROUGH INSPECTION - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL APPLICABLE REGULATORY AGENCIES FOR INSPECTION REQUIREMENTS.
 - I. CONCRETE FORMWORK AND ADA SLOPE VERIFICATIONS.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AT LEAST 2 BUSINESS DAYS IN ADVANCE OF THE FOLLOWING EVENTS:
 - A. PRIOR TO PLACING BALLAST ROCK WITHIN EXFILTRATION TRENCH AND PIPE RUNS TO MEASURE DEPTH AND WIDTH, AS WELL AS DIRECTIONS RESPECTIVELY.
 - B. PRIOR TO BACKFILLING WATER MAINS AND SERVICES
 - C. PRIOR TO BACKFILLING SANITARY SEWER MAINS AND SERVICES
 - D. AFTER COMPACTION OF LIMEROCK BASE AND PRIOR TO PLACEMENT OF FIRST LIFT OF ASPHALT
 - E. AFTER 2ND LIFT AND CONCRETE PLACEMENT OF PEDESTRIAN PATHWAYS
 - F. INSTALLING CONNECTIONS TO EXISTING WATER AND SEWER MAINS/SERVICES AFTER SECOND LIFT AND CONCRETE PLACEMENT OF PEDESTRIAN PATHWAYS.
 - G. AT SUBSTANTIAL COMPLETION
 - H. FINAL INSPECTION

UNLESS AUTHORIZED BY THE ENGINEER OF RECORD, THE CONTRACTOR SHALL NOT PROCEED WITH THESE ACTIVITIES, UNLESS THE ENGINEER OR A DESIGNATED REPRESENTATIVE IS PRESENT TO PERFORM AN INSPECTION.

4. SHOULD THE CONTRACTOR FAIL TO GIVE THE ENGINEER OF RECORD ADVANCE NOTICE OF TESTING AND INSPECTIONS AS SPECIFIED ABOVE, THE ENGINEER SHALL RESERVE THE RIGHT TO REFUSE ISSUANCE OF ANY CERTIFICATIONS OF COMPLETION AND FINAL INSPECTIONS, AND RESERVES THE RIGHT TO RECOMMEND THAT ANY CONTRACT AMOUNTS STILL HELD IN RETAINAGE NOT BE RELEASED. CITY INSPECTOR REPORTS SHALL NOT BE ACCEPTED AS A SUBSTITUTE FOR THE ENGINEER'S PRESENCE AT THE TESTING AND INSPECTION INTERVALS SPECIFIED ABOVE.

IV. SHOP DRAWINGS

1. PRIOR TO CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD FOR THE FOLLOWING ITEMS:
 - A. DRAINAGE STRUCTURES, INCLUDING CATCH BASINS, WELL BOXES, PUMPS, MANHOLES/INLET FRAMES/GRATES, BAFFLES, ETC.
 - B. ALL DRAINAGE PIPES.
 - C. TRENCH DRAINS.
 - D. EXFILTRATION FILTER FABRIC
 - E. ALL WATER AND SEWER SYSTEM COMPONENTS
 - F. ASPHALT PAVEMENT MIX DESIGN
 - G. LIMEROCK MATERIAL
 - H. CONCRETE MIX FOR PAVEMENT
 - I. MATERIAL SUBSTITUTION REQUESTS
 - J. EROSION CONTROL MATERIALS
 - K. FILL MATERIAL
2. ALL PRECAST STRUCTURAL DRAWINGS MUST BE SIGNED AND SEALED BY A STATE OF FLORIDA LICENSED ENGINEER OF RECORD STATING THAT THE STRUCTURE(S) MEETS THE H20 LOAD RATING REQUIREMENTS. STRUCTURAL SHOP DRAWINGS WILL BE REJECTED AND NOT REVIEWED IF NOT SEALED BY A FLORIDA LICENSED ENGINEER.

IN ADDITION, SOME CITIES, COUNTIES, STATE AND/OR NATIONAL REGULATORY AGENCIES REQUIRE THEIR OWN INDIVIDUAL REVIEW AND APPROVAL. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL OTHER AGENCY SHOP DRAWING APPROVALS AS REQUIRED.

V. TEMPORARY FACILITIES

1. TEMPORARY FACILITIES
 - A. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES, AND ELECTRICITY, DURING CONSTRUCTION.
 - B. THE CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND DITCHES DURING ALL PHASES OF CONSTRUCTION, IF APPLICABLE.
 - C. CONTRACTOR SHALL OBTAIN THE ENGINEERING DESIGN AND PERMIT FOR SUCH FACILITIES AT THE CONTRACTOR'S SOLE COST.
2. TRAFFIC REGULATION
 - A. THE CONTRACTOR SHALL PROVIDE ALL MAINTENANCE OF TRAFFIC DURING CONSTRUCTION. TO INCLUDE BUT IS NOT LIMITED TO WARNING SIGNALS, SIGNS, LIGHTS AND FLAG PERSONS AS NECESSARY WITHIN PUBLIC RIGHT-OF-WAYS IN ACCORDANCE WITH M.U.T.C.D. AND CITY OF MIAMI PUBLIC WORKS DEPARTMENT.
 - B. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC AT ALL TIMES. SPECIAL PRECAUTION IS TO BE TAKEN IN PATHS OF EGRESS.
 - C. NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE CITY OF MIAMI PUBLIC WORKS DEPARTMENT.

VI. PROJECT CLOSE OUT:

1. CLEANING UP
 - A. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER AND THE PAVED AREAS SHALL BE SWEEPED BROOM CLEAN. UPON FINAL CLEANUP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH, AND THE PAVED AREAS SHALL BE BROOMED AND PRESSURE CLEANED.
 - B. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS/HER WORK, EQUIPMENT AND/OR EMPLOYEES TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE COMMENCEMENT OF OPERATIONS AND TO THE OWNER'S SATISFACTION.
 - C. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, MAILBOXES, SIGNS AND ANY OTHER IMPROVEMENTS REMOVED DURING CONSTRUCTION WITH THE SAME TYPE OF MATERIAL AND TO THE CONDITION WHICH EXISTED PRIOR TO THE COMMENCEMENT OF OPERATIONS AND TO THE OWNER'S SATISFACTION.
 - D. WHERE MATERIAL OR DEBRIS HAVE WASHED OR FLOWED INTO, OR HAVE BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING THE PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION. ANY ADVERSE EFFECTS OR BUILDUP IN PUBLIC INFRASTRUCTURE WILL BE CLEANED AND REDUCED BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.
 - E. ALL DISPOSAL OF EXCESS AND UNSUITABLE EXCAVATED MATERIAL, DEMOLITION, VEGETATION, RUBBISH AND DEBRIS SHALL BE MADE OUTSIDE THE LIMITS OF CONSTRUCTION AT A LEGAL DISPOSAL SITE PROVIDED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE, WITH THE PRIOR APPROVAL OF THE ENGINEER OF RECORD. MATERIAL CLEARED FROM THE SITE SHALL NOT BE DEPOSITED ON ADJACENT AND/OR NEARBY PROPERTY.
2. ALL PROPERTY MONUMENTS OR PERMANENT SURVEY REFERENCES, REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY A STATE OF FLORIDA REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
3. PROJECT RECORD DOCUMENTS
 - A. DURING THE DAILY PROGRESS OF THE JOB, THE CONTRACTOR SHALL RECORD ON HIS SET OF CONSTRUCTION DRAWINGS THE EXACT LOCATION, LENGTH AND ELEVATION OF ANY FACILITY NOT BUILT EXACTLY ACCORDING TO PLANS. PRIOR APPROVAL FROM THE ENGINEER OF RECORD IS REQUIRED FOR SAID FACILITIES.
 - B. AT THE COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL SUBMIT THREE (3) SIGNED & SEALED AS-BUILT DRAWINGS, SIGNED & SEALED BY A REGISTERED LAND SURVEYOR LICENSED IN THE STATE OF FLORIDA. ADDITIONAL AS-BUILT DRAWINGS REQUIRED BY THE CITY, COUNTY, STATE AND/OR FEDERAL REGULATORY AGENCIES SHALL ALSO BE SUBMITTED ONCE REQUIRED. THE AS-BUILT DRAWINGS SHALL INDICATE LOCATION, SIZE, ELEVATION, MATERIAL, ETC., OF ALL WORK COMPLETED UNDER THIS CONTRACT AND OF ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION.

VII. STORM DRAINAGE

1. WHEN EXISTING MANHOLE RINGS, CATCH BASIN GRATE AND FRAMES, VALVE BOXES, PULL BOXES OR OTHER UTILITY CASTINGS ARE ENCOUNTERED WITHIN THE PROPOSED LIMITS OF WORK THE CONTRACTOR SHALL FIELD ADJUST THE EXISTING RING AND FRAME, GRATE AND FRAME, VALVE BOXES OR PULL BOXES TO MATCH THE PROPOSED ELEVATION. SUCH WORK SHALL BE INCLUDED IN THE BID PRICE.
2. ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS OTHERWISE INDICATED.
3. UNLESS OTHERWISE SPECIFIED ON THE PLANS, ALL DRAINAGE PIPE SHALL BE HDPE DOUBLE WALLED SMOOTH INTERIOR PIPE AND SHALL MEET THE REQUIREMENTS OF AASHTO M294 TYPE S, MPT AND ASTM D2321, D3212, F1417, F477, F667 OR AS NOTED ON THE CONSTRUCTION DRAWINGS.
4. CONTRACTOR SHALL VACUUM CLEAN AND REMOVE ALL SILT, SEDIMENT AND DEBRIS FROM ALL OF THE EXISTING AND PROPOSED DRAINAGE STRUCTURES AND PIPE NETWORK WITHIN THE PROJECT LIMITS PRIOR TO FINAL ACCEPTANCE OF DRAINAGE SYSTEM. ALL COST OF SUCH WORK SHALL BE INCLUDED IN THE BID PRICE.
5. ALL DRAINAGE WORK SHALL CONFORM TO THE GOVERNING JURISDICTIONAL AGENCY REGULATIONS AND STANDARDS
6. UNLESS OTHERWISE SPECIFIED ON THE PLANS, MINIMUM COVER OVER ALL STORM DRAINAGE PIPE SHALL BE 36-INCHES. CONTRACTOR SHALL AVOID ALL UNNECESSARY CROSSINGS BY HEAVY CONSTRUCTION EQUIPMENT DURING CONSTRUCTION.
7. UNLESS OTHERWISE SPECIFIED ON THE PLANS, ALL CATCH BASINS, MANHOLES, FRAMES AND GRATES, RINGS AND COVERS, WITHIN PRIVATE PROPERTY, SHALL BE DESIGNED TO WITHSTAND AN AASHTO AND FDOT H20 LOAD RATING AND SHALL BE OBTAINED FROM PLAN SPECIFIED MANUFACTURERS OR APPROVED EQUIVALENT MANUFACTURER.

VIII. EARTHWORK AND PAVING

1. ALL UNDERGROUND UTILITY WORK SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF SUB BASE. ANY SUBGRADE RE-WORK DUE TO UNDERGROUND INFRASTRUCTURE INCONSISTENCIES WILL BE DONE AT THE CONTRACTOR'S EXPENSE.
2. PROPOSED ASPHALT PAVEMENT SHALL BE CONNECTED TO EXISTING AS CITY OF MIAMI PUBLIC WORKS STANDARD DETAILS. CONTRACTOR SHALL MATCH EXISTING ELEVATIONS ON NEW SIDEWALK OR NEW PAVEMENT.
3. SAW CUT EXISTING CONCRETE WALKS, CURB AND GUTTERS, AND ASPHALT OR CONCRETE PAVEMENT CAREFULLY AND IN A STRAIGHT LINE WHERE UNDERGROUND WORK IS REQUIRED. WHERE PROPOSED ASPHALT OR CONCRETE PAVEMENT, CURB, SIDEWALK, ETC. WILL MEET AN EXISTING LOCATION CUT CONCRETE WALKS, CONCRETE PAVEMENT, CURB AND GUTTERS AT NEAREST EXISTING JOINT.

SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

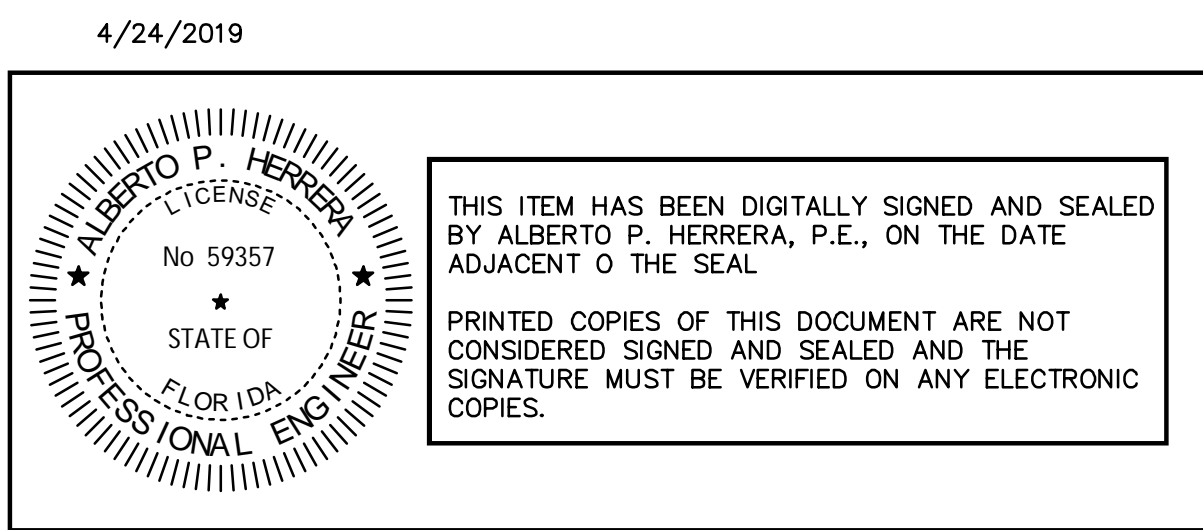
GENERAL NOTES

SHEET TITLE:

LICENSED PROFESSIONAL
ALBERTO P. HERRERA, P.E.
FLORIDA LICENSE NUMBER
59357

DATE:

No.	REVISIONS - SUBMITTALS	DATE



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ALBERTO P. HERRERA, P.E., ON THE DATE ADJACENT TO THE SEAL

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C-101

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Plot: PBA Fern Isle Park Redevelopment - Demolition Notes - 4/24/2019 12:01:25pm K:\CROG_LURC\0436430051_pba_fern_isle\CIVIL\CA00\plansheets\C-200 DEMOLITION NOTES.dwg

DEMOLITION NOTES AND SPECIFICATIONS:

SHOULD ANY SECTION OF THESE DEMOLITION NOTES BE IN DIRECT CONFLICT WITH THE PROVISIONS OR TECHNICAL SPECIFICATIONS CONTAINED IN THE CONTRACT DOCUMENTS FOR THIS PROJECT, THE MORE STRINGENT OF THE TWO SHALL GOVERN.

I. GENERAL

- FOR THIS PROJECT, "OWNER" SHALL MEAN 2300 NW 14TH ST "SURVEY" SHALL MEAN THE BOUNDARY SURVEY PREPARED BY J. BONFILL & ASSOCIATES, INC. AND "ENGINEER" SHALL MEAN THE ENGINEER OF RECORD.
- EXISTING CONDITIONS, UTILITIES, STRUCTURES AND OTHER IMPROVEMENTS, AS SHOWN ON THE DEMOLITION DRAWINGS, WERE TAKEN FROM THE SURVEY (PREPARED BY J. BONFILL & ASSOCIATES, INC. LAST AMENDED ON 8/29/18), AND FROM INFORMATION PROVIDED BY UTILITY COMPANIES. AN ATTEMPT HAS BEEN MADE TO SHOW ALL EXISTING STRUCTURES, UTILITIES, DRIVES, WALKS, ETC., IN THEIR APPROXIMATE LOCATION. OTHERS MAY EXIST AND MAY BE FOUND UPON VISITING THE SITE. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ACCURATELY LOCATE ALL FACILITIES AND TO DETERMINE THEIR EXTENT. IF SUCH FACILITIES OBSTRUCT THE PROGRESS OF THE WORK AND ARE NOT INDICATED TO BE REMOVED OR RELOCATED, THEY SHALL BE REMOVED OR RELOCATED ONLY AS DIRECTED BY THE OWNER, ARCHITECT, OR ENGINEER OF RECORD, AT NO ADDITIONAL COST TO THE OWNER.
- ORGANIZE AND PERFORM DEMOLITION WORK TO AVOID DAMAGE TO CONSTRUCTION INTENDED TO REMAIN. ANY COMPONENTS INTENDED TO REMAIN BUT DAMAGED DURING DEMOLITION WILL BE REPLACED, NEW, BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE
- DEMOLITION AND REMOVAL OPERATIONS SHALL BE CONDUCTED IN AN EXPEDIENT MANNER, WITH PRECAUTIONS TAKEN TO PREVENT THE DEMOLITION SITE FROM BEING A NUISANCE.
- PERFORM REMOVAL AND DEMOLITION IN ACCORDANCE WITH DEMOLITION SCHEDULE (REFER TO SECTION IV) AND TAKE NECESSARY PRECAUTIONS TO PROTECT EXISTING ADJACENT BUILDINGS, FURNISHINGS, AND EQUIPMENT. NOTIFY THE ENGINEER OF ANY CONDITIONS THAT MAY AFFECT THE SAFETY OF OCCUPANTS OF ADJACENT BUILDINGS, THE NORMAL USE OF THESE FACILITIES, OR THE PHYSICAL CONDITION OF THE STRUCTURES.
- ALL EXISTING UTILITIES OUTSIDE THE PROPERTY BOUNDARIES ARE TO REMAIN, UNLESS OTHERWISE NOTED. ALL DEMOLITION WORK SHALL BE VERIFIED AGAINST PROPOSED WORK.
- PRIOR TO DEMOLITION ACTIVITIES, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL AFFECTED UTILITY COMPANIES IN ORDER TO COORDINATE THE DEACTIVATION OF ALL EXISTING UTILITY LINES WITHIN THE PROPERTY. ONCE ALL ONSITE UTILITIES HAVE BEEN DEACTIVATED, ALL LINES SHALL BE CUT AND CAPPED INSIDE THE PROPERTY LINE, AND REMOVED (UNLESS OTHERWISE INDICATED).
- THE CONTRACTOR SHALL USE EXTREME CAUTION IN REMOVING ANY STRUCTURES AND UTILITIES ABOVE AND BELOW GRADE TO PREVENT DAMAGE TO EXISTING UTILITIES WHICH ARE TO REMAIN IN SERVICE. ANY DAMAGE TO EXISTING PIPELINES, UTILITIES, ETC., CAUSED BY THE CONTRACTOR SHALL BE REPAIRED, AT THE CONTRACTOR'S EXPENSE, IN A MANNER ACCEPTABLE TO THE PARTY IN OWNERSHIP OF THE DAMAGED PROPERTY. THE CONTRACTOR SHALL REPORT ANY EXISTING DAMAGE PRIOR TO BEGINNING WORK. IN THE EVENT OF ACCIDENTAL DISRUPTION OF UTILITIES OR THE DISCOVERY OF PREVIOUSLY UNKNOWN UTILITIES, CONTRACTOR MUST NOTIFY THE AFFECTED UTILITY COMPANY AND THE ENGINEER. THE UTILITY COMPANY, ENGINEER, AND CONTRACTOR MUST FIRST AGREE ON A PLAN TO CORRECT THE SITUATION OR IDENTIFY THE UTILITY SERVICE LINE. ALL ASSOCIATED COSTS SHALL BE INCURRED AT THE CONTRACTOR'S EXPENSE.
- NO LIGHTING MAY BE REMOVED FROM PUBLIC STREETS UNTIL PROPOSED LIGHTING IS FULLY IN PLACE. OTHERWISE CONTRACTOR SHALL INSTALL A TEMPORARY LIGHTING SYSTEM, SO THAT NO AREA USED BY THE PUBLIC WILL HAVE LESS LIGHTING THAN CURRENTLY EXISTS.
- EXISTING WORK NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY REMOVED, DAMAGED, EXPOSED, OR IN ANY WAY DISTURBED OR ALTERED BY REMOVAL WORK SHALL BE REPAIRED, PATCHED OR REPLACED, AT THE CONTRACTOR'S EXPENSE, TO THE ENGINEER'S SATISFACTION.
- TITLE AND RESPONSIBILITY OF MATERIALS AND EQUIPMENT TO BE REMOVED, EXCEPT SALVAGEABLE EQUIPMENT TO BE RETAINED BY THE OWNER, IS VESTED TO THE CONTRACTOR UPON RECEIPT OF NOTICE TO PROCEED. THE OWNER WILL NOT BE RESPONSIBLE FOR THE CONDITION, LOSS OR DAMAGE TO SUCH MATERIALS AND EQUIPMENT AFTER NOTICE TO PROCEED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO:
 - PROTECT ALL EXISTING STRUCTURAL ELEMENTS TO REMAIN DURING DEMOLITION
 - IF APPLICABLE, PROVIDE A TEMPORARY PATCH AND REPAIR TO ALL SURFACES AFFECTED BY DEMOLITION WHICH ARE TO BE RECONSTRUCTED AS PART OF THIS PROJECT.
 - EXIST. CONC. OR ASPHALT PAVEMENT TO BE REMOVED SHALL BE SAW-CUT IN NEAT, STRAIGHT LINES.
 - EXIST. IRRIGATION LINES WITHIN THE LIMITS OF DEMOLITION TO BE REMOVED.
 - ALL EXISTING WIRE, IRON, CHAIN LINK, WOOD FENCES ARE TO REMAIN UNLESS OTHERWISE SPECIFIED.
 - NO ELECTRIC POLE, STREET LIGHT, WATER METER/VALVE, FIRE HYDRANT ETC. WILL BE REMOVED WITHIN THE ROADWAY RIGHT OF WAY LINES.
 - REFER TO LANDSCAPE PLANS FOR ALL EXIST. TREES.
 - EXIST. MONITORING WELLS TO REMAIN AND BE PROTECTED AT ALL TIMES.
 - ALL EXISTING SURVEY REFERENCES AND MARKERS SHALL REMAIN IN PLACE OR BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.

II. DESCRIPTION

- PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, ETC., NECESSARY AND INCIDENTAL TO THE COMPLETION OF ALL SITE DEMOLITION AND CLEARING WORK AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN, INCLUDING THE LEGAL TRANSPORT AND OFF-SITE DISPOSAL OF DEMOLITION DEBRIS.
- ALL ONSITE WORK INCLUDED CONSISTS OF, BUT IS NOT LIMITED TO, THE FOLLOWING:
 - FULL-DEPTH REMOVAL OF EXISTING SIDEWALKS, DRIVES, CURBS, PAVEMENT, ETC.
 - CLEARING SITE OF DEMOLITION DEBRIS.
 - REMOVAL FROM SITE AND DISPOSAL OF ALL EXCESS AND UNUSABLE MATERIAL.
 - COORDINATION WITH ALL UTILITY COMPANIES/OWNERS PRIOR TO DEACTIVATION.

III. APPLICABLE CODES

- DEMOLITION AND TRANSPORTATION OF DEBRIS SHALL COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND REGULATIONS GOVERNING THESE OPERATIONS. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ANY PERMITS, BONDS, LICENSES, ETC., REQUIRED FOR DEMOLITION AND CLEARING WORK.
- ANY WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF MIAMI PUBLIC WORKS DEPARTMENT, FLORIDA DEPARTMENT OF TRANSPORTATION, AND OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION, AND SHALL NOT BEGIN UNTIL THE CONTRACTOR HAS NOTIFIED, AND ALL REQUIRED PERMITS HAVE BEEN OBTAINED FROM, THESE GOVERNING AUTHORITIES.

IV. SEQUENCING AND SCHEDULING

- AREAS ADJACENT TO DEMOLITION AND REMOVAL WORK MAY BE OCCUPIED BUT THE ACTIVITIES IN THOSE AREAS CANNOT BE INTERRUPTED OR DISTURBED DURING NORMAL WORKING HOURS. DEMOLITION SCHEDULE SHALL BE COORDINATED WITH ALL ADJACENT PROPERTY OWNERS AND ANY OTHER PARTIES WHOSE DAILY ACTIVITIES WOULD BE AFFECTED BY THE DEMOLITION WORK.
- COORDINATE WITH APPLICABLE UTILITY COMPANIES FOR UTILITY LINE REMOVAL, CAPPING AND UTILITY SHUTDOWNS NECESSITATED BY REMOVAL WORK.

V. ENVIRONMENTAL PROTECTION

- CONTROL AMOUNT OF DUST RESULTING FROM CONSTRUCTION OR DEMOLITION TO PREVENT SPREAD OF DUST TO OTHER BUILDINGS AND TO AVOID CREATION OF A NUISANCE IN SURROUNDING AREAS. USE OF WATER TO CONTROL DUST WILL NOT BE PERMITTED WHEN IT WILL RESULT IN, OR CREATE, HAZARDOUS OR OBJECTIONABLE CONDITIONS SUCH AS FLOODING.
- NOISE PRODUCING ACTIVITIES SHALL BE HELD TO A MINIMUM. INTERNAL COMBUSTION ENGINES AND COMPRESSORS, ETC., SHALL BE EQUIPPED WITH MUFFLERS TO REDUCE NOISE TO A MINIMUM. COMPLY WITH ALL NOISE ABATEMENT ORDINANCES.
- THE USE OF EXPLOSIVES WILL NOT BE PERMITTED.
- DISPOSITION OF DEMOLISHED MATERIALS BY BURNING IS NOT PERMITTED.
- ALL CLEARING SHALL BE PERFORMED IN A MANNER SUCH AS TO PREVENT ANY WASH-OFF OF SOILS AND DEBRIS FROM THE SITE INTO PUBLIC RIGHT-OF-WAY STREAMS, AND/OR STORM DRAINAGE SYSTEMS. APPROPRIATE SEDIMENTATION PONDS, DIKES, COLLARS, AND FILTER MEDIA SHALL BE EMPLOYED IN ACCORDANCE WITH THE EROSION CONTROL PLANS TO INSURE COMPLIANCE WITH THESE REQUIREMENTS. WHERE A SPECIFIC STATUTE GOVERNS THESE PROCEDURES, SUCH STATUTE SHALL BE COMPLIED WITH IN ITS ENTIRETY.
- DURING THE ENTIRE COURSE OF OPERATIONS, ALL EXISTING DRAINAGE WAYS, BOTH INTO AND FROM THE PROJECT AREA SHALL BE MAINTAINED IN A FUNCTIONAL CONDITION, AND BE CLEANED AS NECESSARY.
- AT ALL TIMES DURING THE CLEARING OPERATION, THE EXPOSED AREAS OF SUBGRADE SHALL BE MAINTAINED IN A CONDITION COMPATIBLE WITH POSITIVE DRAINAGE OF THE WORK AREA. NO WATER WILL BE PERMITTED TO STAND IN OPEN EXCAVATIONS. ALL STORMWATER RUNOFF SHALL BE CONTAINED WITHIN THE SITE. FAILURE TO MAINTAIN SUCH DRAINAGE SHALL BE CONSIDERED ADEQUATE CAUSE FOR THE ENGINEER, OWNER, OR INSPECTOR TO ORDER TEMPORARY SUSPENSION OF THE WORK. ALL ASSOCIATED COSTS SHALL BE INCURRED AT THE CONTRACTOR'S EXPENSE.
- PROVIDE SUITABLE AND FUNCTIONAL DRAINAGE BY OPENING DITCHES, FILTER DRAINS, TEMPORARY CUT-OFF LINES, ETC., AND ERECT TEMPORARY PROTECTIVE STRUCTURES WHERE NECESSARY. ALL EMBANKMENTS SHALL BE BACK-BLADED AND SUITABLY SEALED TO PROTECT AGAINST ADVERSE WEATHER CONDITIONS.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS WHEN REMOVING ABANDONED AND DE-ENERGIZED MATERIALS. IF ASBESTOS PIPES ARE ENCOUNTERED, THE CONTRACTOR WILL TAKE ALL NECESSARY ABATEMENT STEPS AS REQUIRED BY GOVERNING REGULATIONS TO SAFELY REMOVE AND DISPOSE OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY OF SAID MATERIALS.

VI. TRAFFIC MAINTENANCE

- CONTRACTOR SHALL FOLLOW THE MORE STRINGENT AND APPLICABLE PROCEDURE OUT OF THE FLORIDA DEPARTMENT OF TRANSPORTATION AND/OR THE CITY OF MIAMI PUBLIC WORKS MAINTENANCE OF TRAFFIC PROCEDURES DURING DEMOLITION IN PUBLIC RIGHT-OF-WAYS AND PRIVATE DRIVEWAYS, PEDESTRIANS PATHS, AND ROADWAYS (FDOT INDEX 600 SERIES).
- THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING, SHORING, TEMPORARY CROSSOVER FOR PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING PLATING, GUARDRAILS, LAMPS, WARNING SIGNS, FLAGS, ETC. AS REQUIRED BY AGENCIES HAVING JURISDICTION, AND SHALL NOT REMOVE THESE UNTIL THE NEED FOR PROTECTION CEASES.
- THE CONTRACTOR MAY NOT CLOSE ANY SIDEWALKS WITHOUT PROVIDING ALTERNATE ROUTES IN ACCORDANCE WITH FDOT INDEX 660 AND AUTHORIZATION FROM AGENCIES HAVING JURISDICTION.
- CONDUCT REMOVAL OPERATIONS SO THAT TRAFFIC IS MAINTAINED ALONG EXISTING STREETS AND WALKS. KEEP PAVED STREETS AND WALKWAYS CLEAN AND FREE OF DEBRIS. REMOVE MATERIAL AND OTHER MATTER TRACKED OR FALLEN ONTO TRAFFIC SURFACES.

VII. CLEAN UP

- REMOVE DEMOLISHED CONSTRUCTION MATERIALS AND RELATED DEBRIS FROM THE SITE ON A REGULAR BASIS. ACCUMULATION OF DEBRIS ON THE SITE WILL NOT BE PERMITTED. SELLING OF SALVAGEABLE MATERIALS IS NOT PERMITTED AT THE SITE. LEED RELATED SALVAGEABLE MATERIALS MUST BE DOCUMENTED BY THE CONTRACTOR.
- REMOVE MATERIALS, INCLUDING DEBRIS AND DUST, AND DISPOSE OF LEGALLY OFF SITE. NO DEBRIS SHALL BE BURNED OR BURIED ON THE SITE AS A MEANS OF DISPOSAL. USE METHODS APPROVED BY THE REGULATORY AGENCIES PRIOR TO BEGINNING CLEANUP OPERATIONS. USE OF BLOWERS TO DISTRIBUTE DUST WILL NOT BE PERMITTED.
- MATERIAL DESIGNATED FOR REMOVAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP

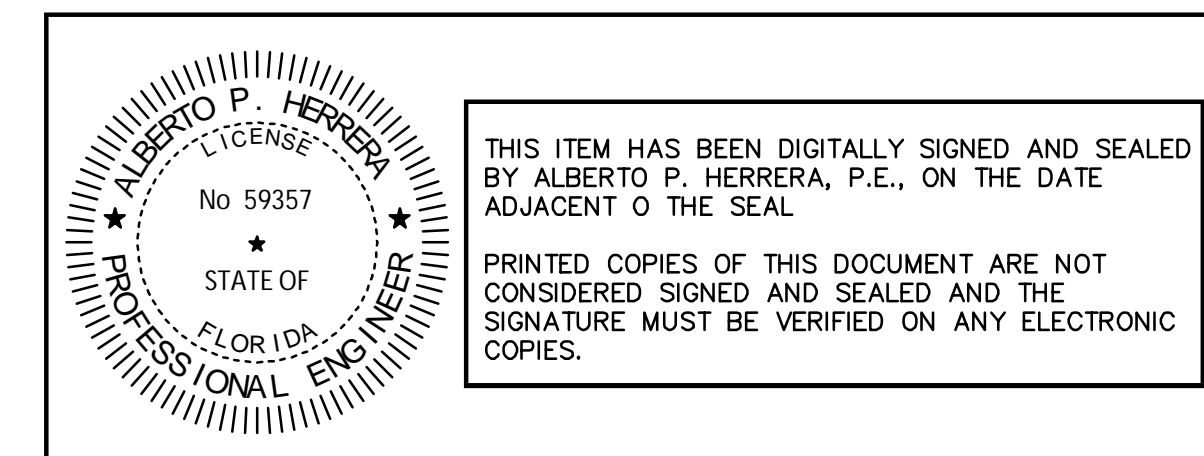


PBA FERN ISLE PARK REDEVELOPMENT
 CITY OF MIAMI, PROJECT NO. B-40543
 2304 N.W. 14TH STREET, MIAMI, FL 33125

SHEET TITLE:
DEMOLITION NOTES

LICENSED PROFESSIONAL
 ALBERTO P. HERRERA, P.E.
 FLORIDA LICENSE NUMBER
 59357
 DATE: _____

4/24/2019



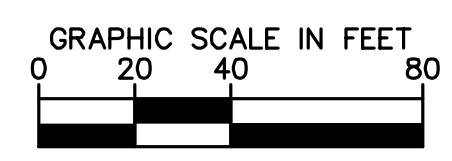
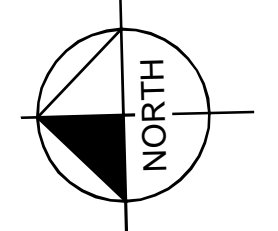
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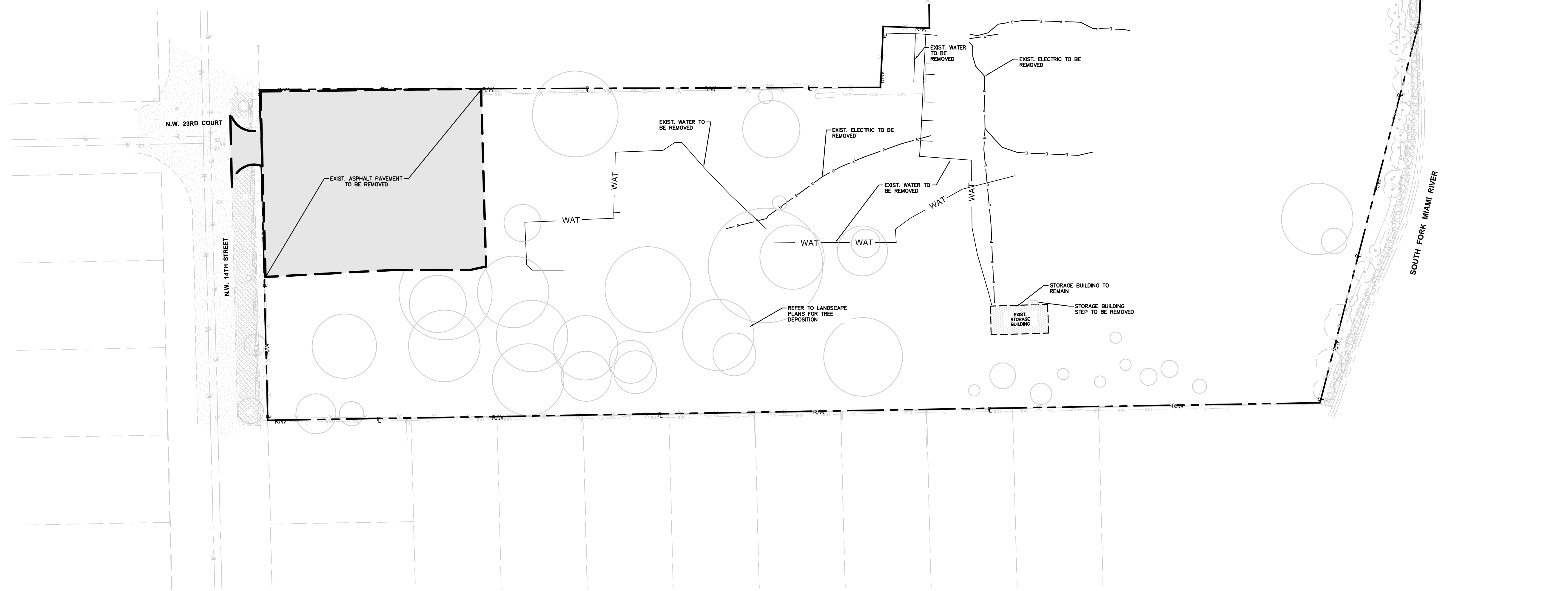


LEGEND:

- EXIST. RIGHT-OF-WAY LINE OR PROPERTY LINE
- CENTER LINE OF ROADWAY
- MONUMENT LINE
- EXIST. BUILDING TO REMAIN
- LIMITS OF DEMOLITION AREA
- EXIST. GAS LINE
- EXIST. IRRIGATION LINE
- EXIST. UNDERGROUND ELECTRICITY LINE
- EXIST. OVERHEAD LINE

NOTES:

1. ONSITE LIGHT POLES TO BE REMOVED MUST HAVE THEIR SOURCE OF POWER TERMINATED AT THE SITE. CONTRACTOR TO CONFIRM NO POWER/LIGHTNING INTERRUPTIONS TO THE SURROUNDING PROPERTIES/PARCELS PRIOR TO PERFORMING WORK.
2. THE INTENT OF THE DEMOLITION PLAN IS TO DEPICT ALL EXISTING FEATURES THAT ENCUMBER THE PROPOSED CONSTRUCTION AREA AND ARE SCHEDULED FOR REMOVAL. SOME INCIDENTAL ITEMS MAY HAVE BEEN INADVERTENTLY OMITTED FROM THE PLAN. THE CONTRACTOR IS ENCOURAGED TO THOROUGHLY INSPECT THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO SUBMITTING PRICING. CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR INCIDENTAL ITEMS NOT SHOWN ON THIS DEMOLITION PLAN.
3. DEWATERING SHOULD BE ANTICIPATED AND INCLUDED IN THE CONTRACTOR'S BID.
4. SEE SHEET C-301 FOR INLET PROTECTION AND EROSION AND SEDIMENT CONTROL.
5. CONTRACTOR IS RESPONSIBLE FOR REPAIRS TO EXISTING CONCRETE OR ASPHALT TO REMAIN IF DAMAGED DURING CONSTRUCTION.
6. ALL UTILITIES AND ABOVE GROUND FEATURES WITHIN THE RIGHT-OF-WAY ARE TO REMAIN OR BE RELOCATED UNLESS SPECIFICALLY SPECIFIED OTHERWISE. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED TO THESE ITEMS.
7. CONTRACTOR TO COORDINATE WITH CITY OF MIAMI AND MIAMI-DADE COUNTY AS NEEDED/ REQUIRED.
8. CONTRACTOR TO REFER TO LANDSCAPE PLANS FOR TREE REMOVAL/RELOCATION. CONTRACTOR TO SECURE TREE REMOVAL PERMIT PRIOR TO WORK COMMENCING.
9. CONTRACTOR TO SAWCUT IN NEAT, STRAIGHT LINES WHEN REMOVING EXISTING PAVEMENT/CONCRETE THAT IS ADJACENT TO EXISTING PAVEMENT/CONCRETE THAT IS TO REMAIN. CONTRACTOR IS RESPONSIBLE FOR REPAIRS TO EXISTING CONCRETE OR ASPHALT IF DAMAGED DURING CONSTRUCTION.
10. CONTRACTOR TO COORDINATE EXISTING UTILITY POLE RELOCATION/REMOVAL WITH RESPECTIVE UTILITY OWNER.
11. CONTRACTOR TO SECURE ALL NECESSARY PERMITS/APPROVALS FOR ONSITE DEMOLITION AND/OR DEMOLITION WITHIN PUBLIC RIGHT OF WAY AND PRIVATE PROPERTY.
12. CONTRACTOR TO NOTIFY FDEP AND OBTAIN NECESSARY WELL CLOSURE PERMITS PRIOR TO CLOSURE/ ABANDONMENT OF EXIST. DRAINAGE WELLS.
13. ALL IPE DECKING RELATED TO THE BRIDGE REMOVAL IS TO BE BUNDLED AND SAVAGE.



SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



**PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125**

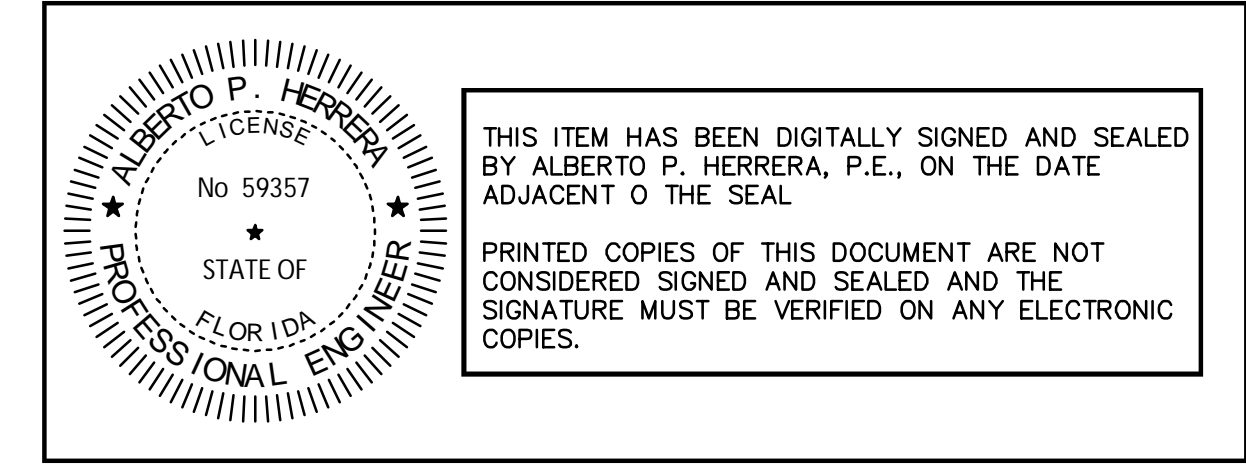
DEMOLITION PLAN

SHEET TITLE:

LICENSED PROFESSIONAL
ALBERTO P. HERRERA, P.E.
FLORIDA LICENSE NUMBER
59357
DATE: _____

No.	REVISIONS - SUBMITTALS	DATE

4/29/2019



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BEST MANAGEMENT PRACTICES (BMPs):

THIS PLAN HAS BEEN PREPARED TO ENSURE COMPLIANCE WITH APPROPRIATE CONDITIONS OF THE MIAMI-DADE COUNTY LAND DEVELOPMENT REGULATIONS, THE RULES OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP), CHAPTER 17-25, F.A.C., THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD), CHAPTER 400-4, F.A.C. AND THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) DOCUMENT NO. EPA 832/R-92-005 (SEPTEMBER 1992). THE PLAN ADDRESSES THE FOLLOWING:

A. PREVENT LOSS OF SOIL DURING CONSTRUCTION BY STORMWATER RUNOFF AND/OR WIND EROSION, INCLUDING PROTECTING TOPSOIL BY STOCKPILING FOR REUSE.

B. SEDIMENTATION PROTECTION OF STORM SEWER OR RECEIVING STREAM.

C. PREVENT POLLUTING THE AIR WITH DUST AND PARTICULATE MATTER. THE VARIOUS TECHNIQUES OR ACTIONS IDENTIFIED UNDER EACH SECTION INDICATE THE APPROPRIATE SITUATION WHEN THE TECHNIQUES SHOULD BE EMPLOYED. ALSO IDENTIFIED IS A CROSS-REFERENCE TO A DIAGRAM OR FIGURE REPRESENTING THE TECHNIQUE. IT SHOULD BE NOTED THAT THE MEASURES IDENTIFIED ON THIS PLAN ARE ONLY SUGGESTED BMP(S). THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND EROSION CONTROL MEASURES AS SPECIFIED IN ACCORDANCE WITH THE CURRENT FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS. CONTRACTOR SHALL PREPARE REQUIRED NPDES DOCUMENTATION AND OBTAIN PERMIT PRIOR TO COMMENCEMENT OF CONSTRUCTION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE THE REQUIRED NPDES DOCUMENT AND OBTAIN THE NPDES PERMIT. ALL COST ASSOCIATED WITH SUCH WORK SHALL BE DEEMED INCIDENTAL TO THE PROJECT LUMP SUM COST.

GENERAL EROSION CONTROL NOTES:

A. THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS COMPRISED OF THIS DRAWING, THE STANDARD DETAILS, THE NPDES PERMIT (TO BE OBTAINED BY CONTRACTOR) AND ALL SUBSEQUENT REVISIONS AND RELATED DOCUMENTS.

B. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THIS DRAWING AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.

C. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMP) IN ALL CONSTRUCTION ACTIVITIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- FUEL SPILLS AND LEAKS PREVENTION
- PREVENT/REDUCE VEHICLE AND EQUIPMENT WASHING AND STEAM CLEANING
- VEHICLE AND EQUIPMENT MAINTENANCE AND REPAIR
- PROPER OUTDOOR LOADING/UNLOADING OF MATERIALS
- PREVENT/REDUCE OUTDOOR STORAGE OF RAW MATERIALS, PRODUCTS, AND BY-PRODUCTS
- SOLID WASTE MANAGEMENT
- HAZARDOUS WASTE MANAGEMENT
- CONCRETE WASTE MANAGEMENT
- SANDBLASTING WASTE MANAGEMENT
- STRUCTURE CONSTRUCTION AND PAINTING
- SPILL PREVENTION AND CONTROL
- CONTAMINATED SOIL MANAGEMENT
- SANITARY/SEPTIC WASTE MANAGEMENT
- SOIL EROSION CONTROL
- STORM WATER TURBIDITY MANAGEMENT

ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.

D. BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.

E. SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS. CONTRACTOR MUST MAINTAIN ALL PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS ON SITE AT ALL TIMES.

F. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.

G. CONTRACTOR SHALL BEGIN CLEARING AND GRUBBING THOSE PORTIONS OF THE SITE NECESSARY TO IMPLEMENT PERIMETER CONTROL MEASURES. CLEARING AND GRUBBING FOR THE REMAINING PORTIONS OF THE PROPOSED SITE SHALL COMMENCE ONCE PERIMETER CONTROLS ARE IN PLACE. PERIMETER CONTROLS SHALL BE ACTIVELY MAINTAINED UNTIL SAID AREAS HAVE BEEN STABILIZED AND SHALL BE REMOVED ONCE FINAL STABILIZATION IS COMPLETE.

H. GENERAL EROSION CONTROL BMPs SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION AND POTENTIAL LAKE SLOPE CAVE-INS. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED AS SOON AS POSSIBLE DURING CONSTRUCTION.

I. ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.

J. TOPSOIL CANNOT BE STOCKPILED INSIDE THE PROPERTY FOR REUSE.

K. SURFACE WATER QUALITY SHALL BE MAINTAINED BY EMPLOYING THE FOLLOWING BMP'S IN THE CONSTRUCTION PLANNING AND CONSTRUCTION OF ALL IMPROVEMENTS.

STORM WATER EROSION CONTROL PRACTICES:

A. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.

B. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.

C. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION.

D. WHERE PRACTICAL, STORMWATER SHALL BE CONVEYED BY SWALES.

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

- IN GENERAL, EROSION SHALL BE CONTROLLED AT THE FURTHEST PRACTICAL UPSTREAM LOCATION.
- STORMWATER INLETS SHALL BE PROTECTED DURING CONSTRUCTION. PROTECTION MEASURES SHALL BE EMPLOYED AS SOON AS PRACTICAL DURING THE VARIOUS STAGES OF INLET CONSTRUCTION. SILT BARRIERS SHALL REMAIN IN PLACE UNTIL SODDING AROUND INLETS IS COMPLETE.
- A TEMPORARY SEDIMENT TRAP SHOULD BE CONSTRUCTED TO DETAIN SEDIMENT-LADEN RUNOFF FROM DISTURBED AREAS.

F. SILT BARRIERS, ANY SILT WHICH ACCUMULATES BEHIND THE BARRIERS, AND ANY FILL USED TO ANCHOR THE BARRIERS SHALL BE REMOVED PROMPTLY AFTER THE END OF THE MAINTENANCE PERIOD SPECIFIED FOR THE BARRIERS.

G. SLOPES OF BANKS OF RETENTION/DETENTION PONDS SHALL BE CONSTRUCTED NOT STEEPER THAN 3H:1V FROM TOP OF BANK TO TWO FEET BELOW NORMAL WATER LEVEL, AS APPLICABLE.

H. SOD SHALL BE PLACED FOR A 2-FOOT WIDE STRIP ADJOINING ALL CURBING AND AROUND ALL INLETS. SOD SHALL BE PLACED BEFORE SILT BARRIERS ARE REMOVED.

I. WHERE REQUIRED TO PREVENT EROSION FROM SHEET FLOW ACROSS BARE GROUND FROM ENTERING A LAKE OR SWALE, A TEMPORARY SEDIMENT SUMP SHALL BE CONSTRUCTED.

J. FILTER FABRIC SHOULD BE USED FOR STORM DRAIN INLET PROTECTION BEFORE FINAL STABILIZATION.

WIND EROSION CONTROL PRACTICES:

A. WIND EROSION SHALL BE CONTROLLED BY EMPLOYING THE FOLLOWING METHODS AS NECESSARY AND APPROPRIATE:

- BARE EARTH AREAS SHALL BE WATERED DURING CONSTRUCTION AS NECESSARY TO MINIMIZE THE TRANSPORT OF FUGITIVE DUST. IT MAY BE NECESSARY TO LIMIT CONSTRUCTION VEHICLE SPEED IF BARE EARTH HAS NOT BEEN EFFECTIVELY WATERED. IN NO CASE SHALL FUGITIVE DUST BE ALLOWED TO LEAVE THE SITE UNDER CONSTRUCTION.
- DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED (SEE PERMANENT STABILIZATION PRACTICES FOR DETAILS). THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN. CLEARED SITE DEVELOPMENT AREAS NOT CONTINUALLY SCHEDULED FOR CONSTRUCTION ACTIVITIES SHALL BE COVERED WITH HAY OR OVERSEEDED AND PERIODICALLY WATERED SUFFICIENTLY TO STABILIZE THE TEMPORARY GROUNDCOVER (SEE TEMPORARY STABILIZATION PRACTICES FOR DETAILS).
- AT ANY TIME BOTH DURING AND AFTER SITE CONSTRUCTION THAT WATERING AND/OR VEGETATION ARE NOT EFFECTIVE IN CONTROLLING WIND EROSION AND/OR TRANSPORT OF FUGITIVE DUST, OTHER METHODS AS ARE NECESSARY FOR SUCH CONTROL SHALL BE EMPLOYED. THESE METHODS SHOULD INCLUDE ERECTION OF DUST CONTROL FENCES. A 6-FT GEOTEXTILE FILTER FIBER SHOULD BE HANGING AGAINST THE EXISTING CHAIN LINK FENCE AND GATE.

B. ALL DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PÉTROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

SPILL CONTROL PRACTICES:

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

A. SPILL CLEANUP INFORMATION SHALL BE POSTED ON SITE TO INFORM EMPLOYEES ABOUT CLEANUP PROCEDURES AND RESOURCES.

B. THE FOLLOWING CLEAN-UP EQUIPMENT MUST BE KEPT ON-SITE NEAR THE MATERIAL STORAGE AREA: GLOVES, MOPS, RAGS, BROOMS, DUST PANS, SAND, SAWDUST, LIQUID ABSORBER, GOGGLES, AND TRASH CONTAINERS.

C. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON-SITE AND READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.

D. ALL SPILLS SHALL BE CLEANED UP AS SOON AS POSSIBLE.

E. WHEN CLEANING A SPILL, THE AREA SHOULD BE WELL VENTILATED AND THE EMPLOYEE SHALL WEAR PROPER PROTECTIVE COVERING TO PREVENT INJURY.

F. TOXIC SPILLS MUST BE REPORTED TO THE PROPER AUTHORITY REGARDLESS OF THE SIZE OF THE SPILL.

G. AFTER A SPILL, THE PREVENTION PLAN SHALL BE REVIEWED AND CHANGED TO PREVENT FURTHER SIMILAR SPILLS FROM OCCURRING. THE CAUSE OF THE SPILL, MEASURES TO PREVENT IT, AND HOW TO CLEAN THE SPILL UP SHALL BE RECORDED.

H. THE SUPERINTENDENT SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR AND IS RESPONSIBLE FOR THE DAY TO DAY SITE OPERATIONS. THE SUPERINTENDENT ALSO OVERSEES THE SPILL PREVENTION PLAN AND SHALL BE RESPONSIBLE FOR EDUCATING THE EMPLOYEES ABOUT SPILL PREVENTION AND CLEANUP PROCEDURES.

STABILIZATION PRACTICES:

A. TEMPORARY STABILIZATION – TOPSOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASE FOR AT LEAST 21 DAYS, SHALL BE STABILIZED WITH TEMPORARY SEED AND MULCH WITHIN 14 DAYS OF THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. THE TEMPORARY SEED REQUIRED CAN BE FOUND IN TABLE 1.65 A OF THE FLORIDA DEVELOPMENT MANUAL. PRIOR TO SEEDING, GROUND SOLS ARE ADDIC 2 TONS OF PULVERIZED AGRICULTURAL LIMESTONE SHOULD BE ADDED PER ACRE AND 450 POUNDS OF 10-20-20 FERTILIZER SHALL BE APPLIED TO EACH ACRE. AFTER SEEDING, EACH AREA SHALL BE IMMEDIATELY MULCHED WITH STRAW OR EQUIVALENT EQUAL. AREAS OF THE SITE WHICH ARE TO BE PAVED SHALL BE TEMPORARILY STABILIZED BY APPLYING GEOTEXTILE AND STONE SUB-BASE UNTIL BITUMINOUS PAVEMENT CAN BE APPLIED.

B. PERMANENT STABILIZATION – DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASES SHALL BE STABILIZED WITH PERMANENT SEED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY. THE APPROPRIATE PERMANENT SEED MIX CAN BE FOUND IN TABLES 1.66A, 1.66B AND 1.66C OF THE FLORIDA DEVELOPMENT MANUAL. PRIOR TO SEEDING, 2 TONS/ACRE OF FINELY GROUND AGRICULTURAL LIMESTONE, AND THE PROPER FERTILIZER BASED ON THE TYPE OF SEEDING SHALL BE APPLIED TO EACH ACRE TO PROVIDE PLANT NUTRIENTS. AFTER SEEDING, EACH AREA SHALL BE MULCHED IMMEDIATELY.

C. STABILIZATION WILL BE INITIATED ON ALL DISTURBED AREAS WITHIN 14 DAYS OF WORK CEASING, UNLESS CONSTRUCTION ACTIVITY WILL RESUME IN THAT AREA WITHIN 21 DAYS AFTER WORK STOPPAGE. THE TEMPORARY SEDIMENT SUMP SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED ON THE GROUND DRAINING TO THE SUMP.

D. CONTRACTOR TO ENSURE THAT EXISTING VEGETATION ON OR ADJACENT TO THE PROPOSED SITE IS PRESERVED AND DISTURBED PORTIONS OF THE SITE ARE STABILIZED. STABILIZATION PRACTICES SHOULD BE INITIATED AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS WHERE CONSTRUCTION HAS TEMPORARILY CEASED.

E. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

F. SHALL BE IN ACCORDANCE WITH DEP DOCUMENT NO. 62-621.300(4)(g)

STRUCTURAL PRACTICES:

A. EARTH DIKE – IF REQUIRED, AN EARTH DIKE SHALL BE CONSTRUCTED ALONG THE SITE PERIMETER. A PORTION OF THE DIKE SHALL DIVERT RUN-ON AROUND THE CONSTRUCTION SITE. THE REMAINING PORTION OF THE DIKE SHALL COLLECT RUNOFF FROM THE DISTURBED AREA AND DIRECT THE RUNOFF TO THE SEDIMENT BASIN.

B. SEDIMENT BASIN – A SEDIMENT BASIN SHALL BE CONSTRUCTED IN THE COMMON DRAINAGE AREA FOR THE SITE. ALL SEDIMENT COLLECTED IN THE BASIN MUST BE REMOVED FROM THE BASIN UPON COMPLETION OF CONSTRUCTION. SEDIMENT FROM THE BASIN MAY BE USED AS FILL ON THE SITE IF IT IS SUITABLE SOIL.

C. SHALL BE IN ACCORDANCE WITH DEP DOCUMENT NO. 62-621.300(4)(g)

WASTE DISPOSAL:

A. WASTE MATERIALS – ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A METAL DUMPSTER WITH A SECURE LID IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER. THE SUPERINTENDENT SHALL COORDINATE WITH THE LOCAL UTILITIES TO HAVE THE DUMPSTER EMPTIED AT LEAST TWICE A WEEK AND THE WASTE TAKEN TO AN APPROPRIATE LANDFILL. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE. THE SUPERINTENDENT SHALL ORGANIZE TRAINING FOR THE EMPLOYEES IN THE PROPER PRACTICES WHEN DEALING WITH WASTE MATERIALS. THE SUPERINTENDENT SHALL BE RESPONSIBLE FOR POSTING AND ENFORCING WASTE MATERIAL PROCEDURES.

B. HAZARDOUS WASTE – HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS OR AS DIRECTED BY THE MANUFACTURER. THE SUPERINTENDENT SHALL ORGANIZE THE PROPER TRAINING FOR EMPLOYEES IN THE PROPER PRACTICES WHEN DEALING WITH HAZARDOUS WASTE MATERIALS. THESE PROCEDURES SHALL BE POSTED ON THE SITE. THE PERSON WHO MANAGES THE SITE SHALL BE RESPONSIBLE FOR ENFORCING THE PROCEDURES.

C. SANITARY WASTE – SANITARY WASTE SHALL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. THE SUPERINTENDENT SHALL COORDINATE WITH THE LOCAL UTILITY FOR COLLECTION OF THE SANITARY WASTE AT LEAST THREE TIMES A WEEK TO PREVENT SPILLAGE ONTO THE SITE.

D. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

E. ANY CONSTRUCTION DEBRIS GENERATED AS A RESULT OF THIS PROJECT WILL BE DISPOSED OF OFF-SITE AN AT APPROPRIATE WASTE FACILITY.

F. CONCRETE WASHOUT LOCATIONS WILL BE PROVIDED IN AREAS WHERE THE DISPOSAL MATERIALS WILL BE CONTAINED TO PREVENT DISCHARGE OUTSIDE OF THE PROJECT LIMITS AND INTO THE WATERWAYS.

OFFSITE TRACKING:

A. STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED TO REDUCE SEDIMENT TRACKING OFFSITE. THE MAJOR ROAD CONNECTED TO THE PROJECT SHALL BE CLEANED ONCE A DAY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK RESULTING FROM CONSTRUCTION TRAFFIC. ALL TRUCKS HAULING MATERIALS OFFSITE SHALL BE COVERED WITH A TARP/AULIN.

B. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA. EMPLOYEE PARKING AREA, AND AREA FOR LOCATION PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES. HEAVY CONSTRUCTION EQUIPMENT PARKING AND MAINTENANCE AREAS SHALL BE DESIGNED TO PREVENT OIL, GREASE, AND LUBRICANTS FROM ENTERING SITE DRAINAGE FEATURES INCLUDING STORMWATER COLLECTION AND TREATMENT SYSTEMS. CONTRACTORS SHALL PROVIDE BROAD DIKES, HAY BALES OR SILT SCREENS AROUND, AND SEDIMENT SUMPS WITHIN, SUCH AREAS AS REQUIRED TO CONTAIN SPILLS OF OIL, GREASE OR LUBRICANTS. CONTRACTORS SHALL HAVE AVAILABLE, AND SHALL USE, ABSORBENT FILTER PADS TO CLEAN UP SPILLS AS SOON AS POSSIBLE AFTER OCCURRENCE.

C. ALL WASH WATER FROM CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC. SHALL BE DETAINED ON SITE AND SHALL BE PROPERLY TREATED OR DISPOSED.

D. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.

E. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

INSPECTION AND MAINTENANCE:

ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

A. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.

B. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.

C. THE SILT FENCE SHALL BE INSPECTED PERIODICALLY FOR HEIGHT OF SEDIMENT AND CONDITION OF FENCE. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE SILT FENCE.

D. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.

E. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.

F. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. THE SEDIMENT BASINS/DITCHES SHALL BE CHECKED MONTHLY FOR DEPTH OF SEDIMENT. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 10% AND AFTER CONSTRUCTION IS COMPLETE.

G. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN SEVEN CALENDAR DAYS FOLLOWING THE INSPECTION.

H. DIVERSION DIKES SHALL BE INSPECTED MONTHLY. ANY BREACHES SHALL BE PROMPTLY REPAIRED.

- A MAINTENANCE REPORT SHALL BE COMPLETED DAILY AFTER EACH INSPECTION OF THE SEDIMENT AND EROSION CONTROL METHODS. THE REPORTS SHALL BE FILED IN AN ORGANIZED MANNER AND RETAINED ON-SITE DURING CONSTRUCTION. AFTER CONSTRUCTION IS COMPLETED, THE REPORTS SHALL BE SAVED FOR AT LEAST THREE YEARS. THE REPORTS SHALL BE AVAILABLE FOR ANY AGENCY THAT HAS JURISDICTION OVER EROSION CONTROL.
- ALL REPAIRS MUST BE MADE WITHIN 24 HOURS OF REPORT.
- THE SUPERINTENDENT SHALL ORGANIZE THE TRAINING FOR INSPECTION PROCEDURES AND PROPER EROSION CONTROL METHODS FOR EMPLOYEES THAT COMPLETE INSPECTIONS AND REPORTS.

SPILL PREVENTION AND CONTROL:

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

A. GOOD HOUSEKEEPING

- SUPERINTENDENT SHALL INSPECT PROJECT AREA DAILY FOR PROPER STORAGE, USE, AND DISPOSAL OF CONSTRUCTION MATERIALS.
- STORE ONLY ENOUGH MATERIAL ON SITE FOR PROJECT COMPLETION.
- ALL SUBSTANCES SHOULD BE USED BEFORE DISPOSAL OF CONTAINER.
- ALL CONSTRUCTION MATERIALS STORED SHALL BE ORGANIZED AND IN THE PROPER CONTAINER AND IF POSSIBLE, STORED UNDER A ROOF OR PROTECTIVE COVER.
- PRODUCTS SHALL NOT BE MIXED UNLESS DIRECTED BY THE MANUFACTURER.
- ALL PRODUCTS SHALL BE USED AND DISPOSED OF ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

B. HAZARDOUS PRODUCTS

- MATERIALS SHOULD BE KEPT IN ORIGINAL CONTAINER WITH LABELS UNLESS THE ORIGINAL CONTAINERS CANNOT BE RESEALED. IF ORIGINAL CONTAINERS CANNOT BE USED, LABELS AND PRODUCT INFORMATION SHALL BE SAVED.
- PROPER DISPOSAL PRACTICES SHALL ALWAYS BE FOLLOWED IN ACCORDANCE WITH MANUFACTURER AND LOCAL/STATE REGULATIONS.

C. PRODUCT SPECIFIC PRACTICES

- PÉTROLEUM PRODUCTS MUST BE STORED IN PROPER CONTAINERS AND CLEARLY LABELED. VEHICLES CONTAINING PÉTROLEUM PRODUCTS SHALL BE PERIODICALLY INSPECTED FOR LEAKS. PRECAUTIONS SHALL BE TAKEN TO AVOID LEAKAGE OF PÉTROLEUM PRODUCTS ON SITE.
- THE MINIMUM AMOUNT OF FERTILIZER SHALL BE USED AND MIXED INTO THE SOIL IN ORDER TO LIMIT EXPOSURE TO STORM WATER. FERTILIZERS SHALL BE STORED IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
- PAINT CONTAINERS SHALL BE SEALED AND STORED WHEN NOT IN USE. EXCESS PAINT MUST BE DISPOSED OF IN AN APPROVED MANNER.
- CONCRETE TRUCKS SHALL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

STORMWATER POLLUTION PREVENTION PRACTICES:(FOR PROJECTS OF 0.5 ACRES OR MORE CITY ORDINANCE NUMBER 13081)

- TREE PROTECTION AND PRUNING SHALL BE ACCOMPLISHED AS DETAILED IN SPECIAL PROVISIONS, THE CONSTRUCTION PLANS, AND/OR PER TREE ORDINANCE 12836.
- ENVIRONMENTAL CONTROL FEATURES AS PROVIDED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), ARE TO BE INSTALLED AT ALL AREAS OF EXCAVATION OR FILL FOR DRAINAGE SYSTEM, OR STRUCTURE CONSTRUCTION PRIOR TO SUCH EXCAVATION OR FILL. INLET ENTRANCES ARE ALSO TO BE PROTECTED FROM SILTATION AS DETAILED ON SHEET 2 OF 4 OF THE MISC. 35-88-5 OF THE CITY OF MIAMI PUBLIC WORKS ENGINEERING STANDARD FOR DESIGN AND CONSTRUCTION MANUAL.
- ALL ENVIRONMENTAL CONTROL FEATURES ARE TO BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT IN ACCORDANCE WITH NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS. THE CONTRACTOR MUST ENSURE THAT ALL EROSION CONTROL FEATURES FUNCTION PROPERLY AT ALL TIMES.
- ALL EROSION AND MATERIAL DEPOSITS MUST BE CONTAINED WITHIN THE PROJECT LIMITS.
- DITCH BOTTOM INLETS SHALL BE PROTECTED FROM SEDIMENT INTAKE UNTIL THE PROJECT IS COMPLETE. ELEVATION OF GROUND OUTSIDE OF INLET TOP SHALL NOT BE HIGHER THAN INLET TOP. ROCK BAGS SHALL BE INSTALLED AROUND INLET TOP. COMPLETED INLETS IN PAVED AREAS SHALL ALSO BE PROTECTED WITH ROCK BAGS TO PREVENT SEDIMENT INTAKE.
- CURB INLETS SHALL BE PROTECTED FROM SEDIMENT INTAKE UNTIL THE PROJECT IS COMPLETE. ALL EXPOSED SLOPED MATERIAL ADJACENT TO INLETS SHALL BE COVERED WITH EROSION CONTROL MATTING WITH OUTER LIMITS PROTECTED BY ROCK BAGS. ANY DAMAGED OR INEFFECTIVE ROCK BAGS ARE TO BE REPLACED WITH NEW ONES.
- STOCKPILED MATERIAL SHALL NOTE BE LEFT IN EROSION PRONE AREAS UNLESS PROTECTED BY COVER OR ROCK BAGS.
- INSPECTION OF EROSION CONTROL MEASURES AND CONDITION OF ADJACENT PROPERTIES SHALL BE PERFORMED DAILY BY THE CONTRACTOR'S REPRESENTATIVE AND THE PROJECT ENGINEER. DEFICIENCIES SHALL BY NOTED AND CORRECTED.
- ANY OFFSITE SEDIMENT DISCHARGE TO A MUNICIPAL SEPARATE STORMWATER SYSTEM ARISING FROM THE CONTRACTOR'S ACTIVITIES IS NOT ALLOWED. REFER TO PUBLIC WORKS BULLETIN NO. 25.
- THE USE OF SANITARY SEWERS, FRENCH DRAINS, COVER DITCHES AND/OR ROCK DRAINS FOR THE DISPOSAL OF WASTEWATER IS EXPRESSLY PROHIBITED. REFER TO PUBLIC WORKS BULLETIN NO. 25.

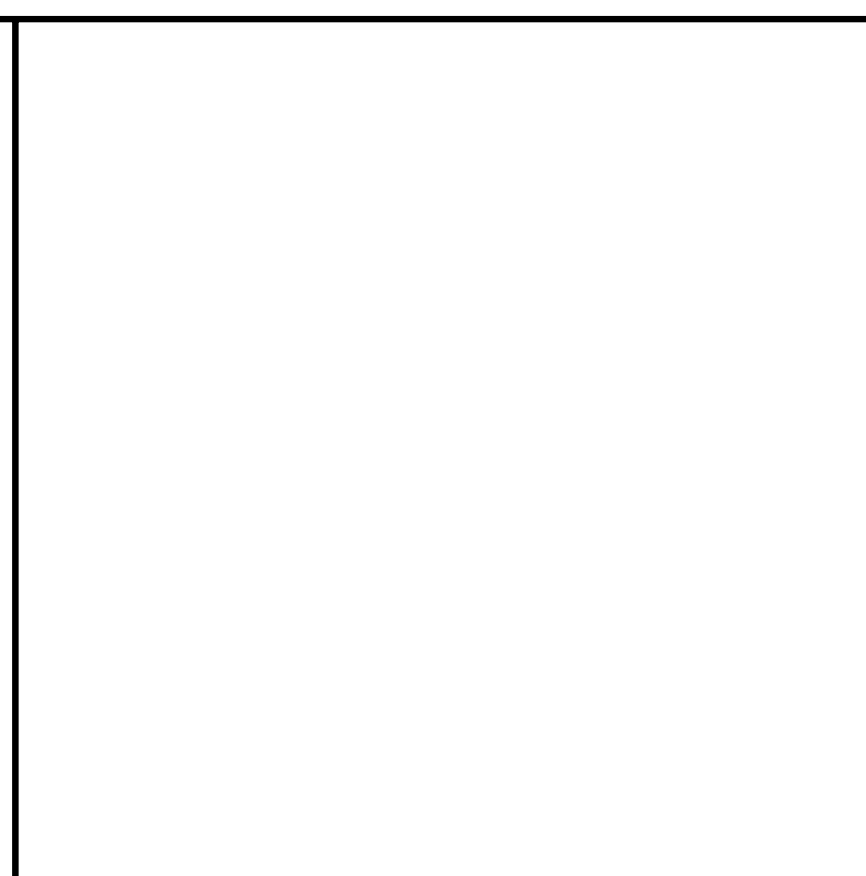
PROJECT DESCRIPTION:

- PROJECT LOCATION: 2300 NW 14TH ST, MIAMI FL, 33125
- PROJECT LIMITS: TOTAL PROJECT AREA IS APPROXIMATELY 6 ACRES.
- CONSTRUCTION ACTIVITY: CONSTRUCTION OF PROPOSED UTILITY IMPROVEMENTS.
- MAJOR SOIL DISTURBING ACTIVITIES: CLEARING AND GRUBBING, INSTALLATION OF UTILITIES.
- DEWATERING ACTIVITIES: DEWATERING IS NOT ANTICIPATED FOR THIS SITE.
- SOIL CHARACTERISTICS: THE SOIL TYPE WITHIN THE PROJECT'S LIMIT OF DISTURBANCE IS CLASSIFIED AS URBAN SOIL AND IS NOT HIGHLY ERODIBLE.
- RUNOFF COEFFICIENTS: EXISTING: 0.90
DURING CONSTRUCTION: 0.90
PROPOSED: 0.90

SEQUENCE OF CONSTRUCTION:

SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS:

- PRIOR TO COMMENCEMENT OF ANY EARTH DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRUBBING, INSTALL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE EROSION CONTROL PLAN, STANDARD DETAILS, NPDES REQUIREMENTS, AND THE CITY OF MIAMI PUBLIC WORKS ENGINEERING STANDARD FOR DESIGN AND CONSTRUCTION MANUAL.
- BEGIN CLEARING AND GRUBBING.
- INSTALL DRAINAGE SYSTEM, INCLUDING: CONCRETE INLETS, DRAIN BASINS, DRAINAGE PIPES, AND EXFILTRATION TRENCHES.
- INSTALL INLET PROTECTION AND ROCK BAGS ON ALL INLETS AND MANHOLES IN THE LOCATIONS SHOWN ON THE PLANS AND PER THE STANDARD DETAILS PROVIDED AND THE CITY OF MIAMI PUBLIC WORKS ENGINEERING STANDARD FOR DESIGN AND CONSTRUCTION MANUAL.
- PREPARE SUBBASE MATERIAL.
- BEGIN ASPHALT AND CONCRETE INSTALLATION.
- AFTER COMPLETION OF SITE WORK, BEGIN SITE STABILIZATION AND PERMANENT SEEDING.
- ONCE SITE STABILIZATION IS COMPLETE, CONTRACTOR TO CLEAN ALL CONSTRUCTION DEBRIS FROM CONSTRUCTION SITE.
- ONCE A UNIFORM 70% VEGETATIVE COVER OF PERENNIAL VEGETATION IS ACHIEVED ACROSS THE ENTIRE DISTURBED AREA THE REMOVAL OF TEMPORARY EROSION CONTROL MEASURES MAY BEGIN.
-



PBA FERN ISLE PARK REDEVELOPMENT CITY OF MIAMI, PROJECT NO. B-40543 2304 N.W. 14TH STREET, MIAMI, FL 33125

EROSION AND SEDIMENT CONTROL NOTES

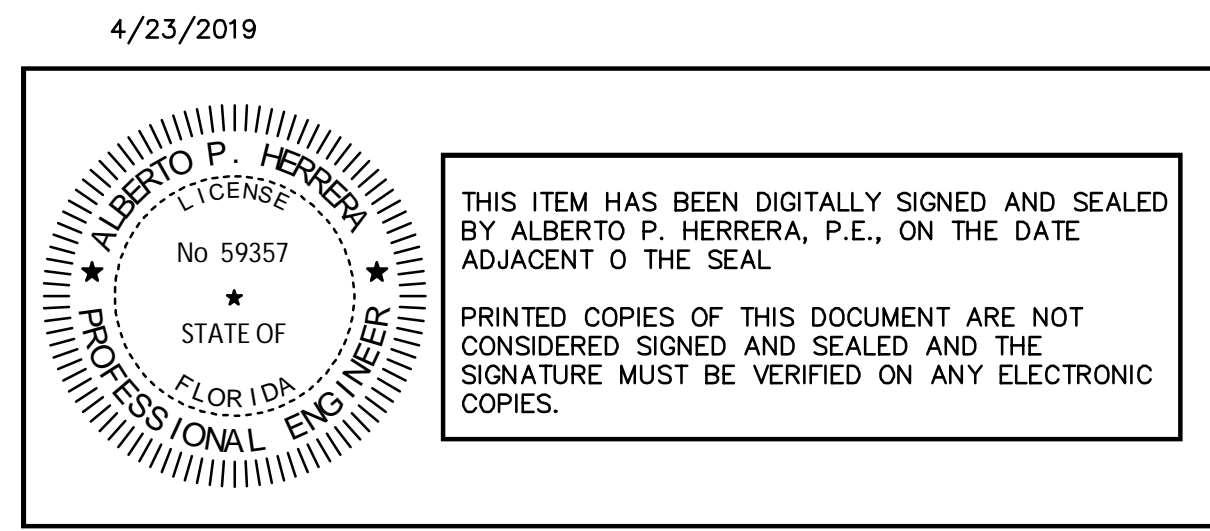
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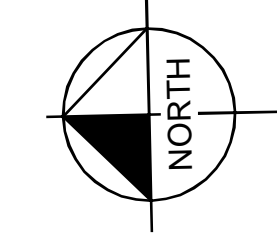
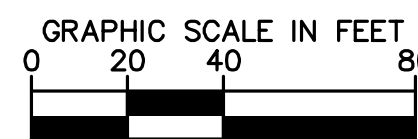
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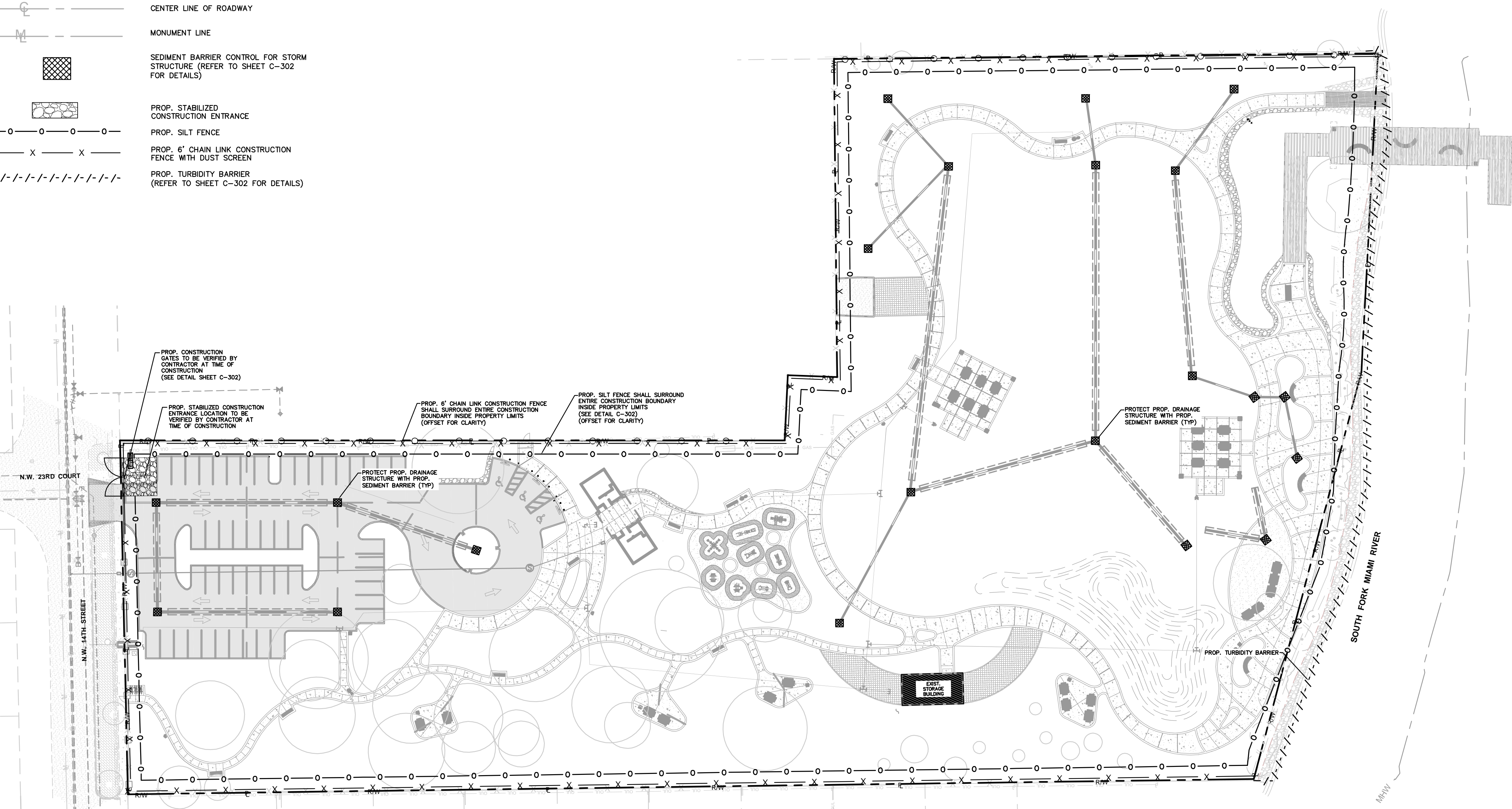
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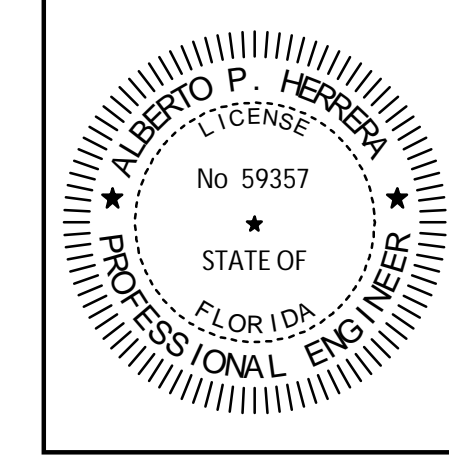


LEGEND:

- EXIST. AND PROP. RIGHT-OF-WAY LINE OR PROPERTY LINE
- CENTER LINE OF ROADWAY
- MONUMENT LINE
- SEDIMENT BARRIER CONTROL FOR STORM STRUCTURE (REFER TO SHEET C-302 FOR DETAILS)
- PROP. STABILIZED CONSTRUCTION ENTRANCE
- PROP. SILT FENCE
- PROP. 6' CHAIN LINK CONSTRUCTION FENCE WITH DUST SCREEN
- PROP. TURBIDITY BARRIER (REFER TO SHEET C-302 FOR DETAILS)



4/24/2019



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**PBA FERN ISLE PARK REDEVELOPMENT
 CITY OF MIAMI, PROJECT NO. B-40543
 2304 N.W. 14TH STREET, MIAMI, FL 33125**

**EROSION AND
 SEDIMENT CONTROL
 PLAN**

SHEET TITLE:

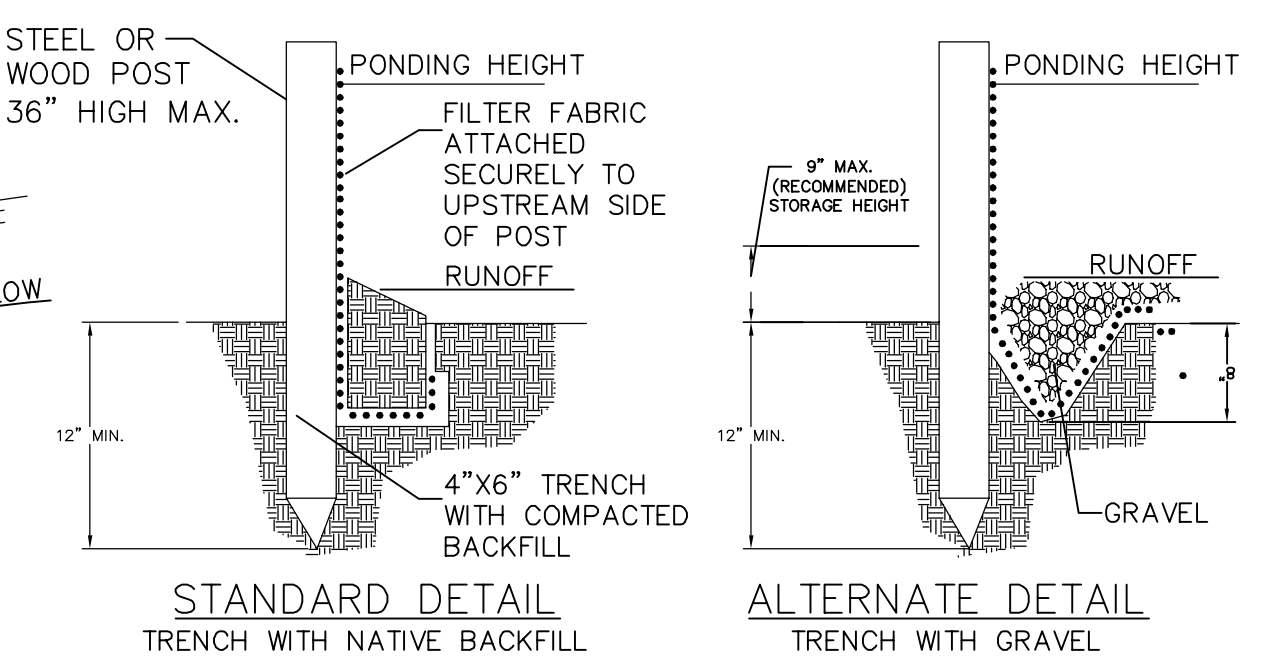
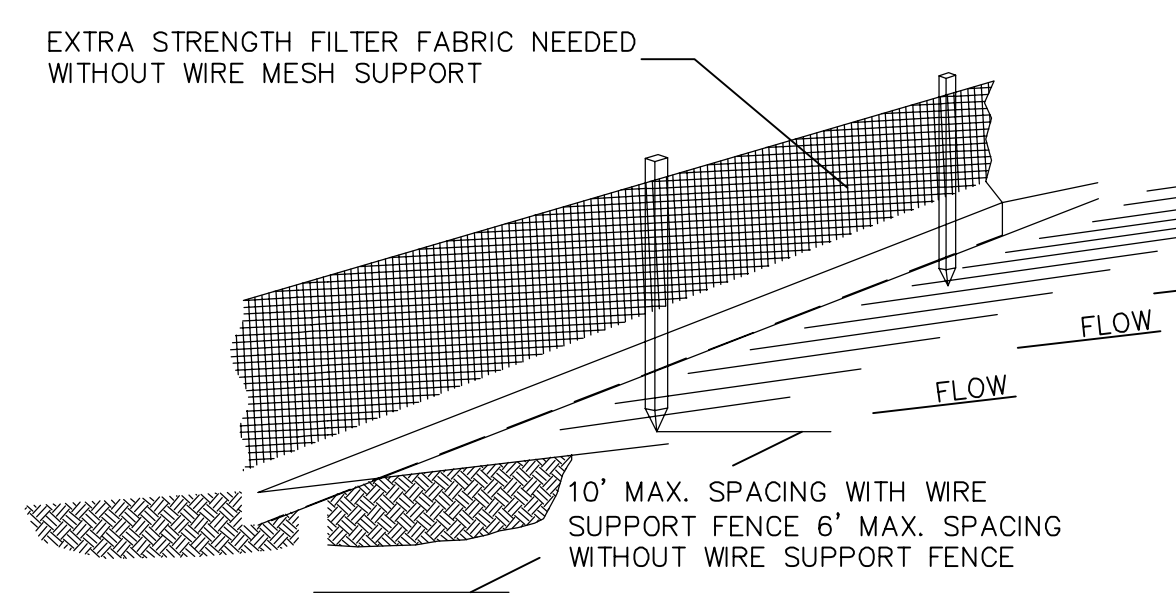
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PAGE No. _____ SHEET No. **C-301**

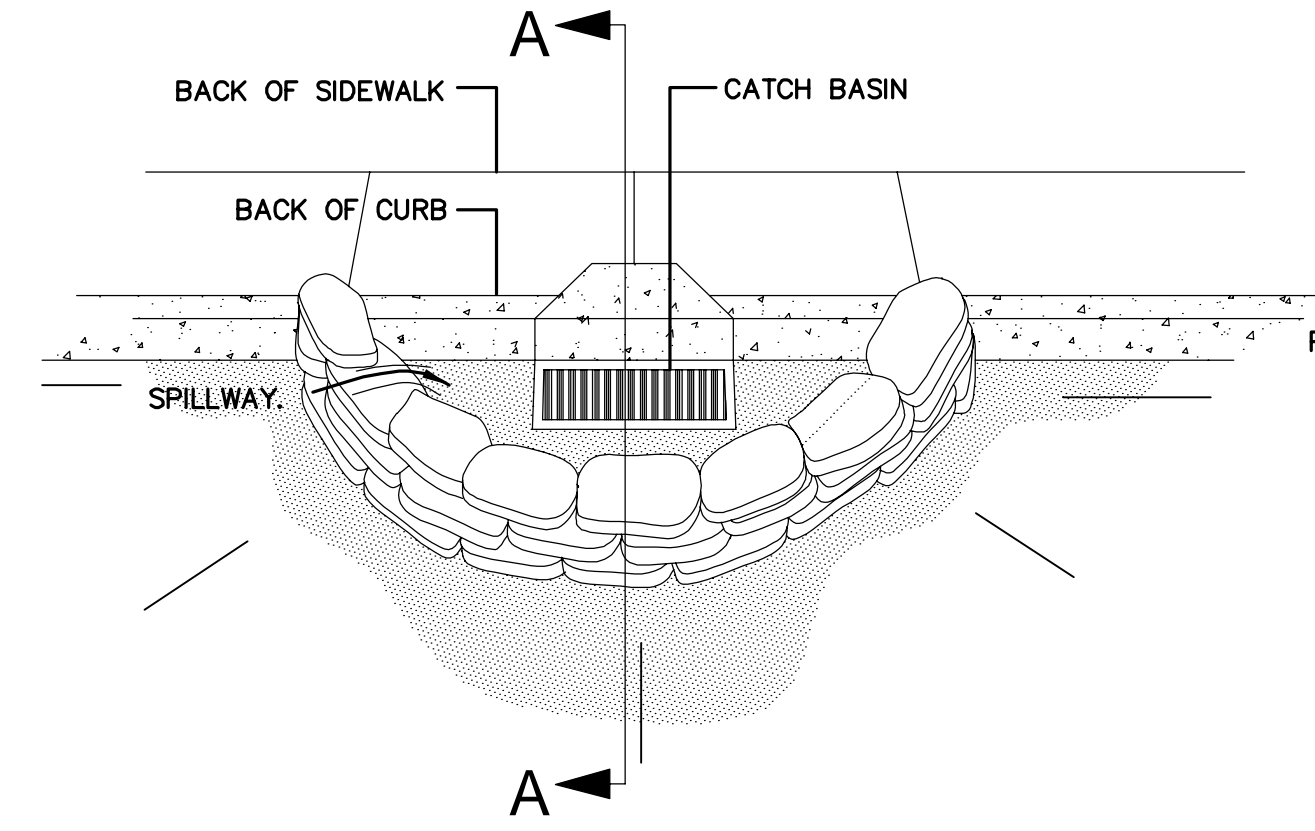
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K:\GRC_JURC\04364-30051 pba fern isle\CADD\plansheets\C-303 EROSION AND SEDIMENT CONTROL DETAILS.dwg



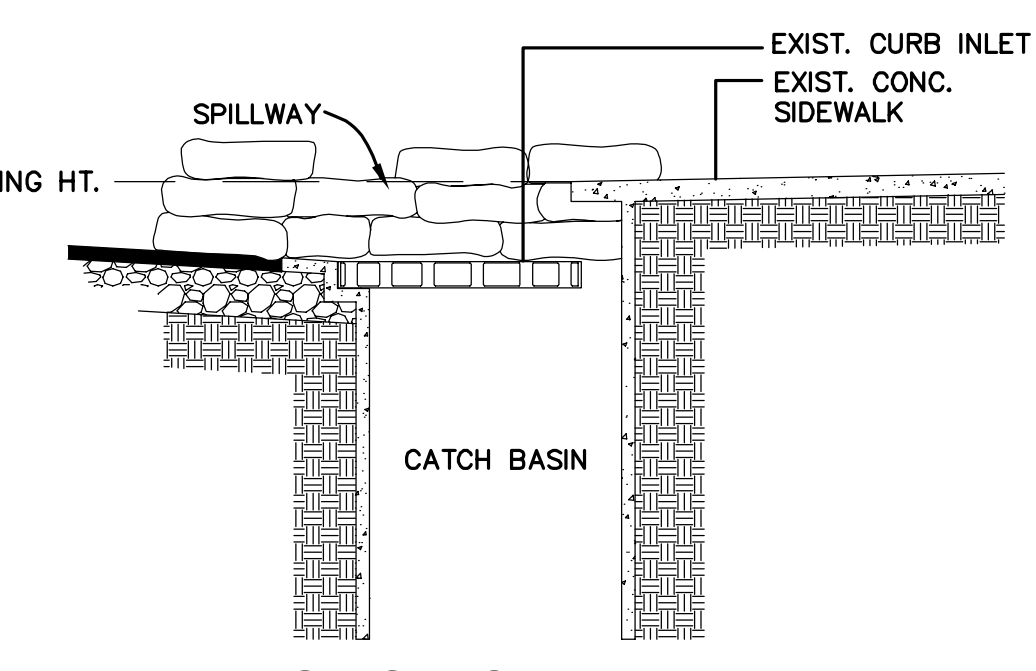
- NOTE:**
- INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
 - REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
 - SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

SILT FENCE DETAIL
N.T.S.

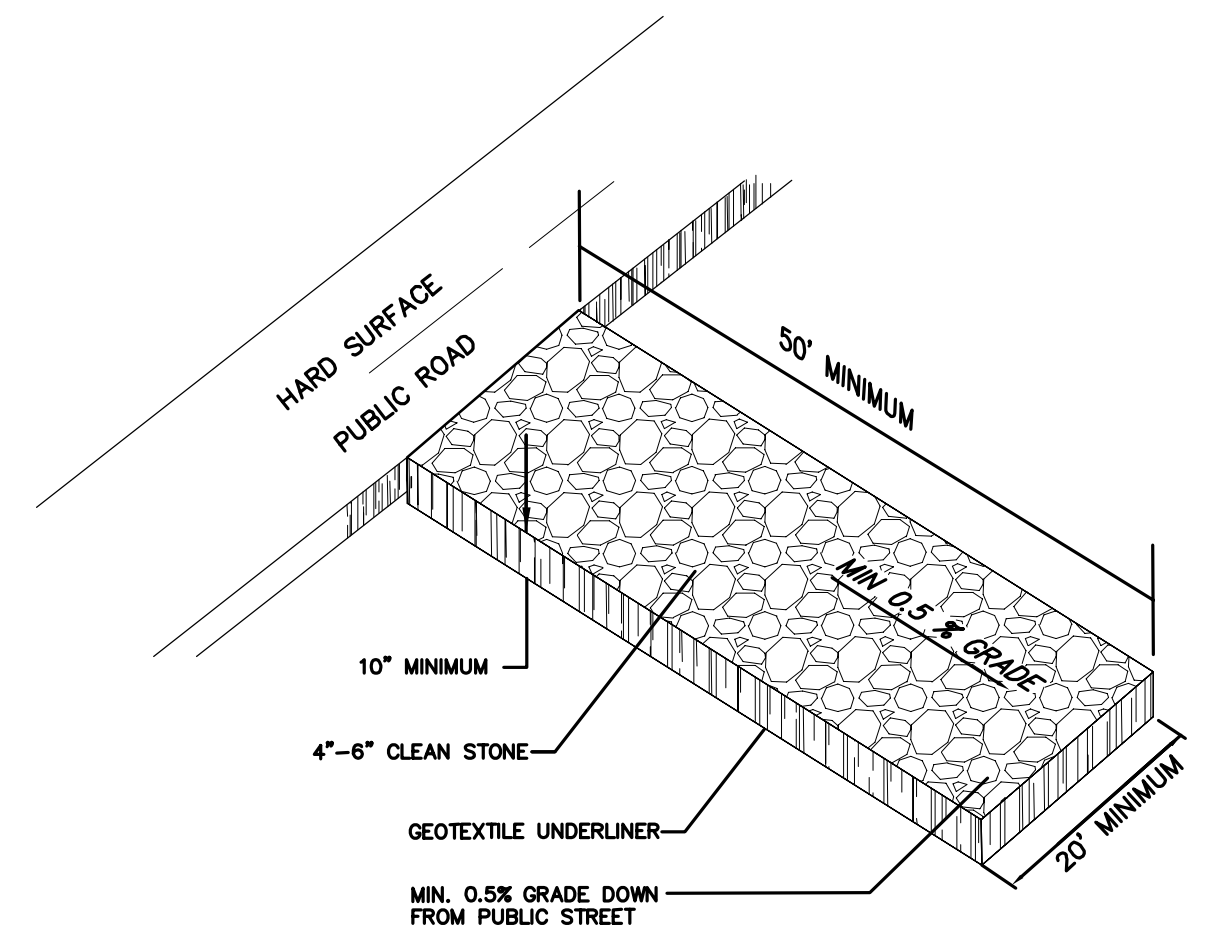


CURB INLET SILT BARRIER DETAIL
N.T.S.

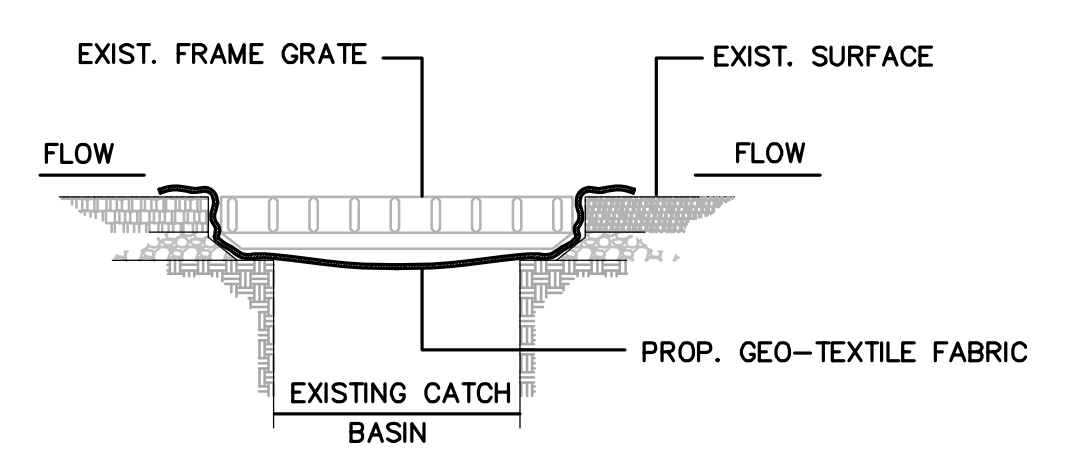
- NOTES:**
- PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
 - SANDBAGS, OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH GRAVEL LAYERED AND PACKED TIGHTLY.
 - LEAVE ONE SANDBAG GAP IN THE TOP ROW TO PROVIDE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



SECTION A-A
N.T.S.

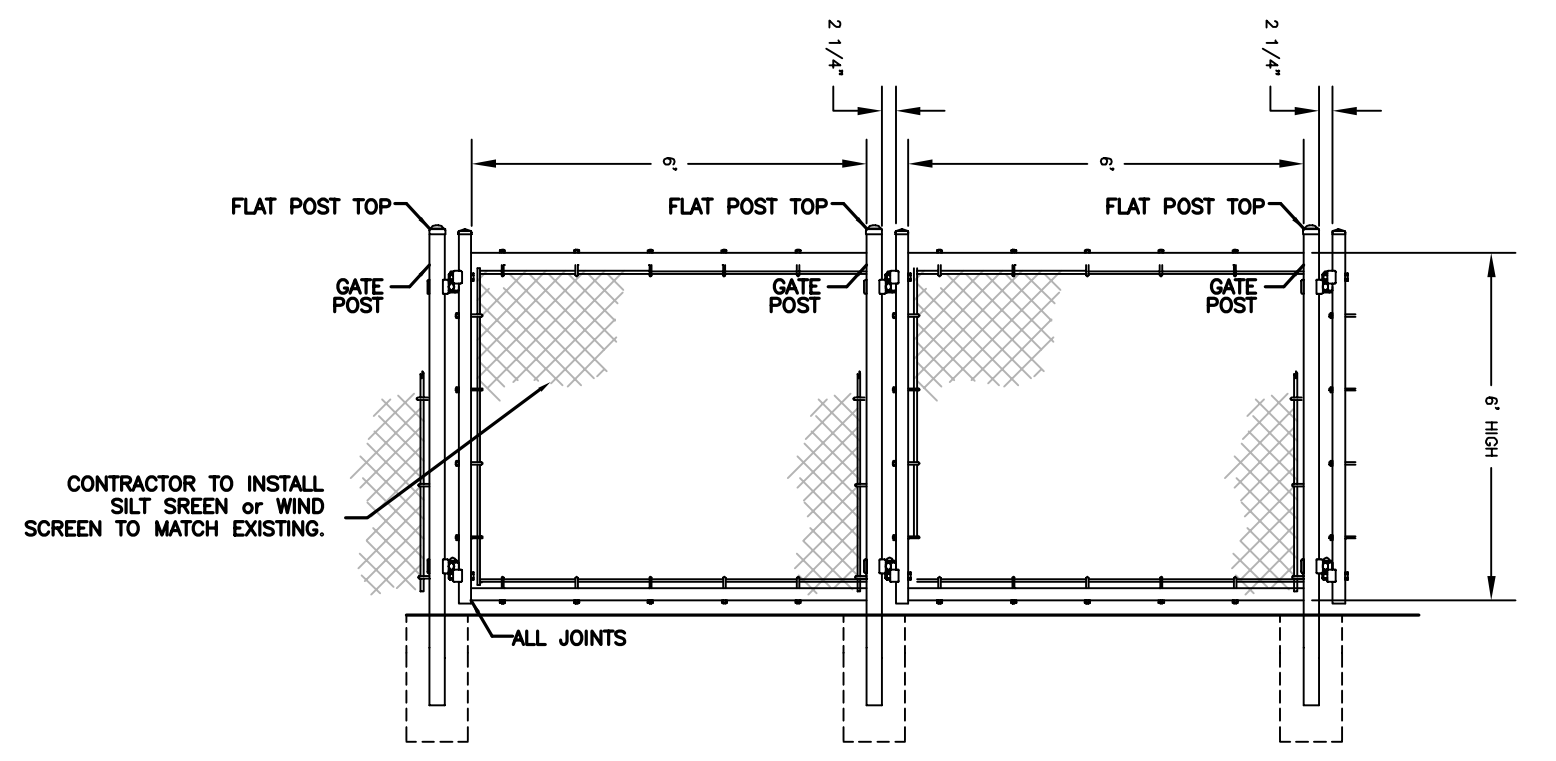


STABILIZED CONSTRUCTION ENTRANCE (SCE)
N.T.S.



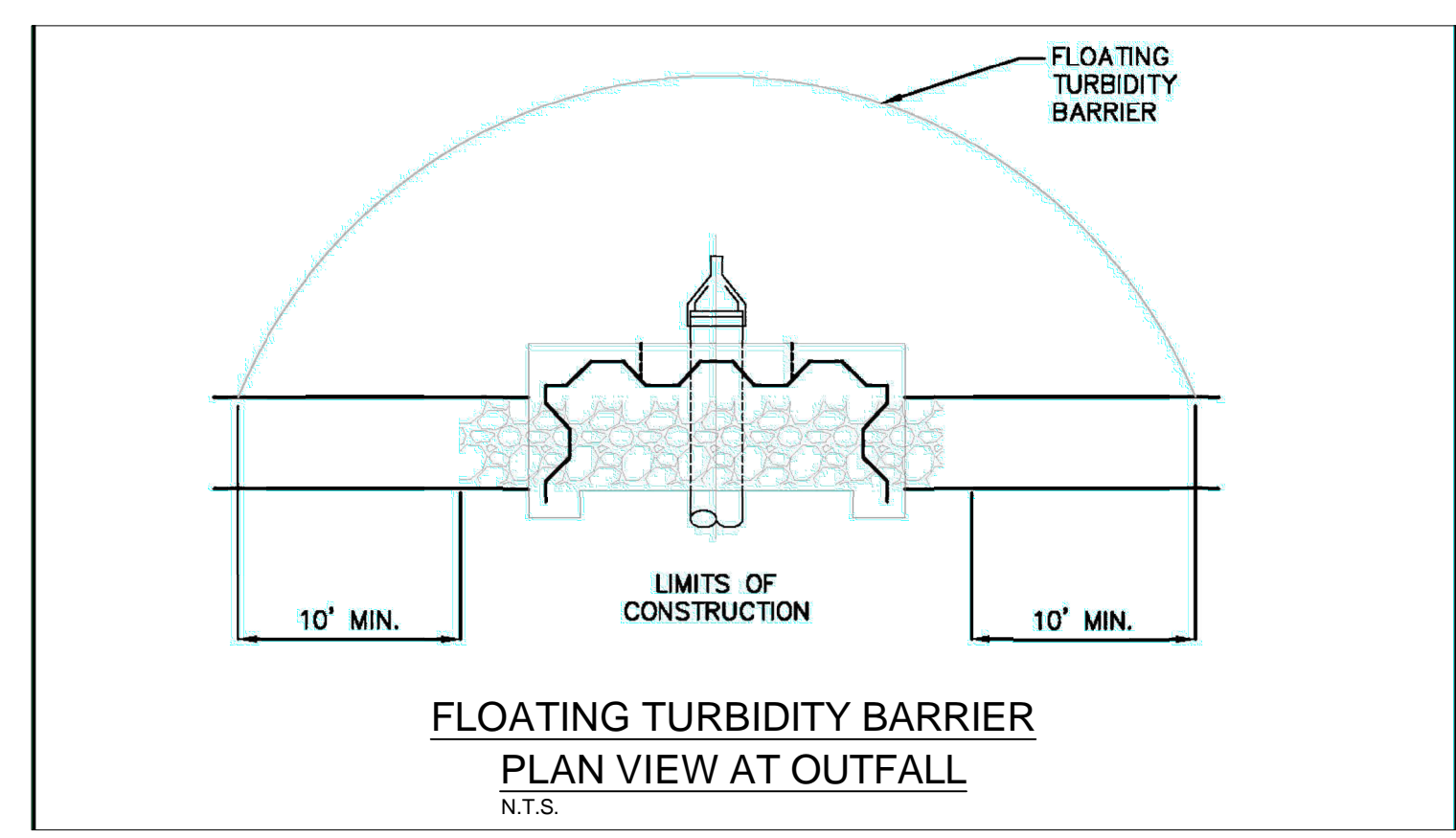
CATCH BASIN SILT BARRIER DETAIL
N.T.S.

- NOTES:**
- CONTRACTOR SHALL PERFORM DAILY INSPECTIONS OF GEO-TEXTILE FABRIC BARRIER AND AS NECESSARY REPLACE OR REPAIR AS REQUIRED, SPECIFICALLY AFTER STORM EVENTS AND LARGE RAINFALL EVENTS.
 - SEDIMENTATION AND DEBRIS THAT ARE REMOVED FROM BARRIERS SHALL BE LEGALLY DISPOSED OF AT AN AUTHORIZED OFF-SITE DISPOSAL FACILITY.

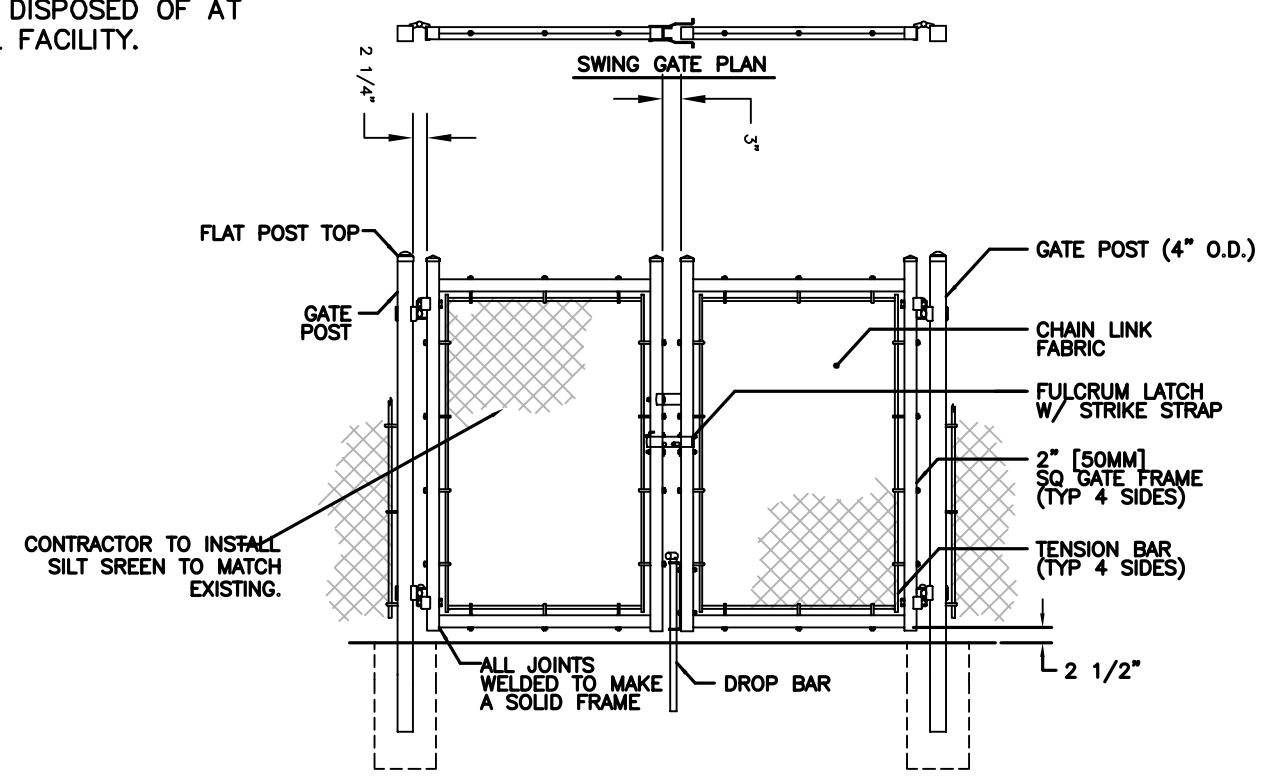


TEMPORARY 6' HIGH CHAIN LINK FENCE (WIND SCREEN)

- GATE NOTES:**
- GATE MATERIAL SHALL MATCH EXISTING GATES/FENCE.
 - BRACING SHALL BE PROVIDED.
 - GATES ARE MANUALLY OPERATED.
 - FENCE SHOULD BE INSTALLED PER MANUFACTURE SPECS



FLOATING TURBIDITY BARRIER PLAN VIEW AT OUTFALL
N.T.S.



SWING GATE ELEVATION TEMPORARY 24' WIDE SWING GATES (FIRE DEPARTMENT ACCESSIBLE)

- GATE NOTES:**
- GATE MATERIAL SHALL MATCH EXISTING GATES/FENCE.
 - BRACING SHALL BE PROVIDED.
 - GATES ARE MANUALLY OPERATED.

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OFFICE OF CAPITAL IMPROVEMENTS
444 S.W. 2nd Avenue, 8th Floor
Miami, FL 33130

**PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125**

EROSION AND SEDIMENT CONTROL DETAILS

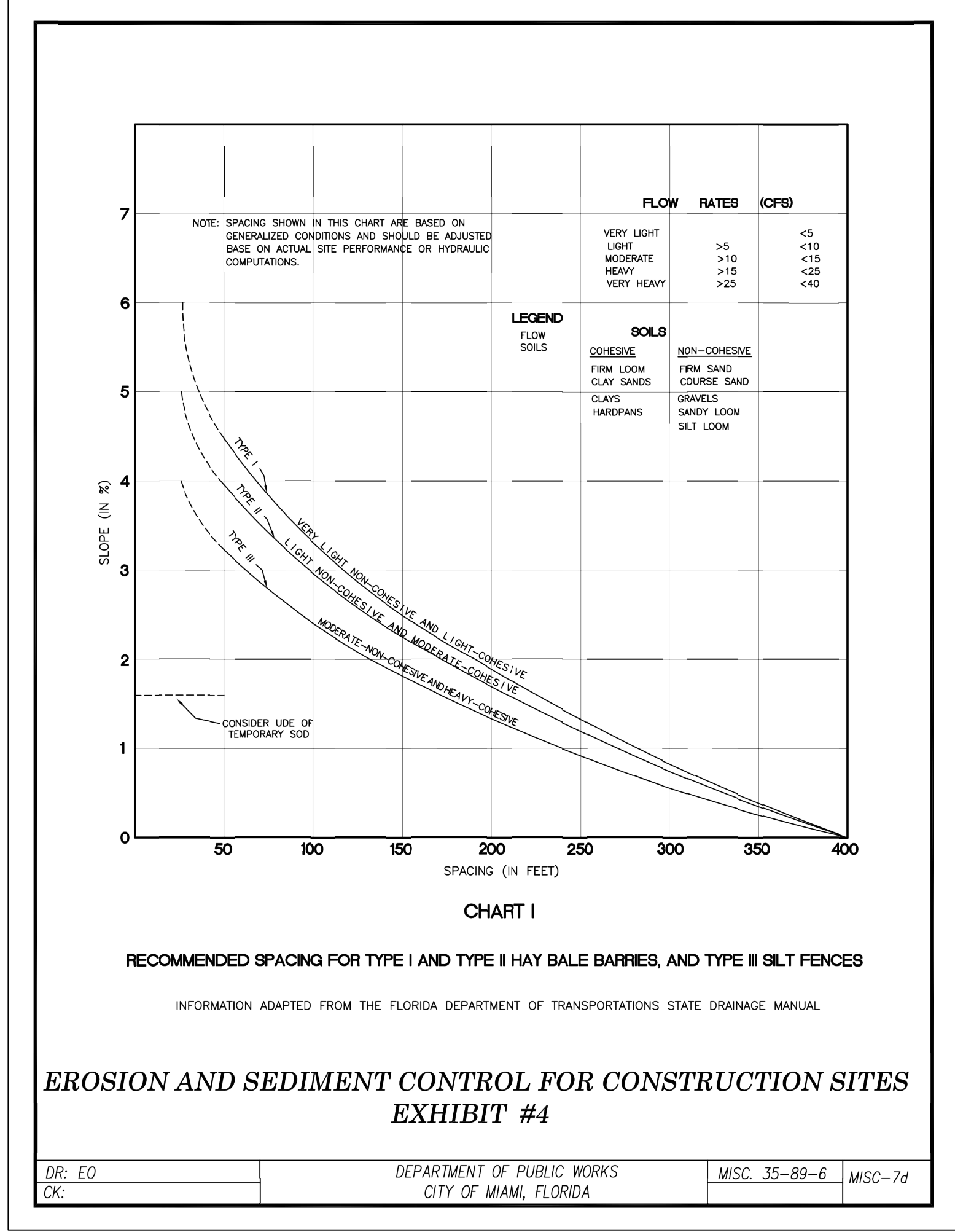
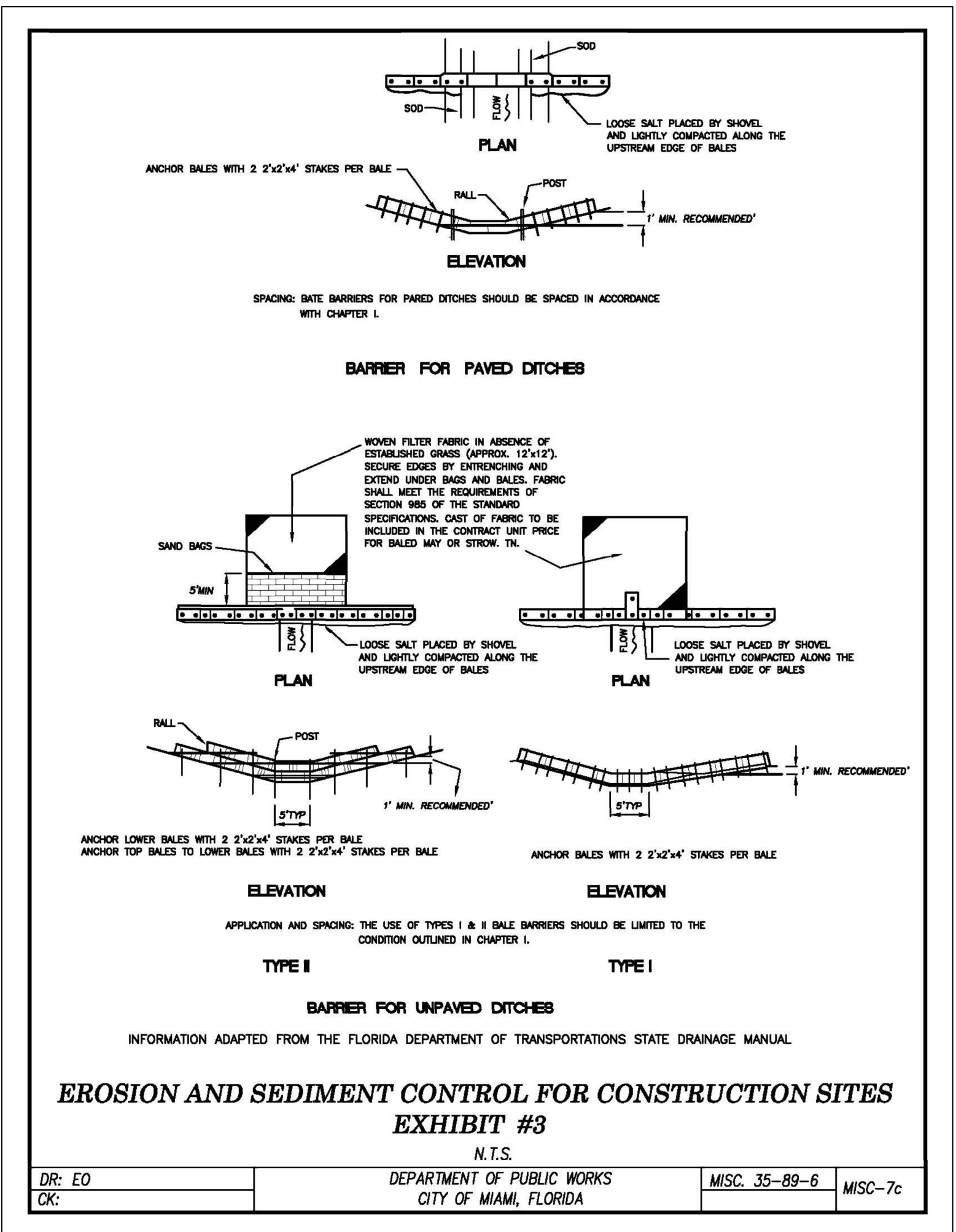
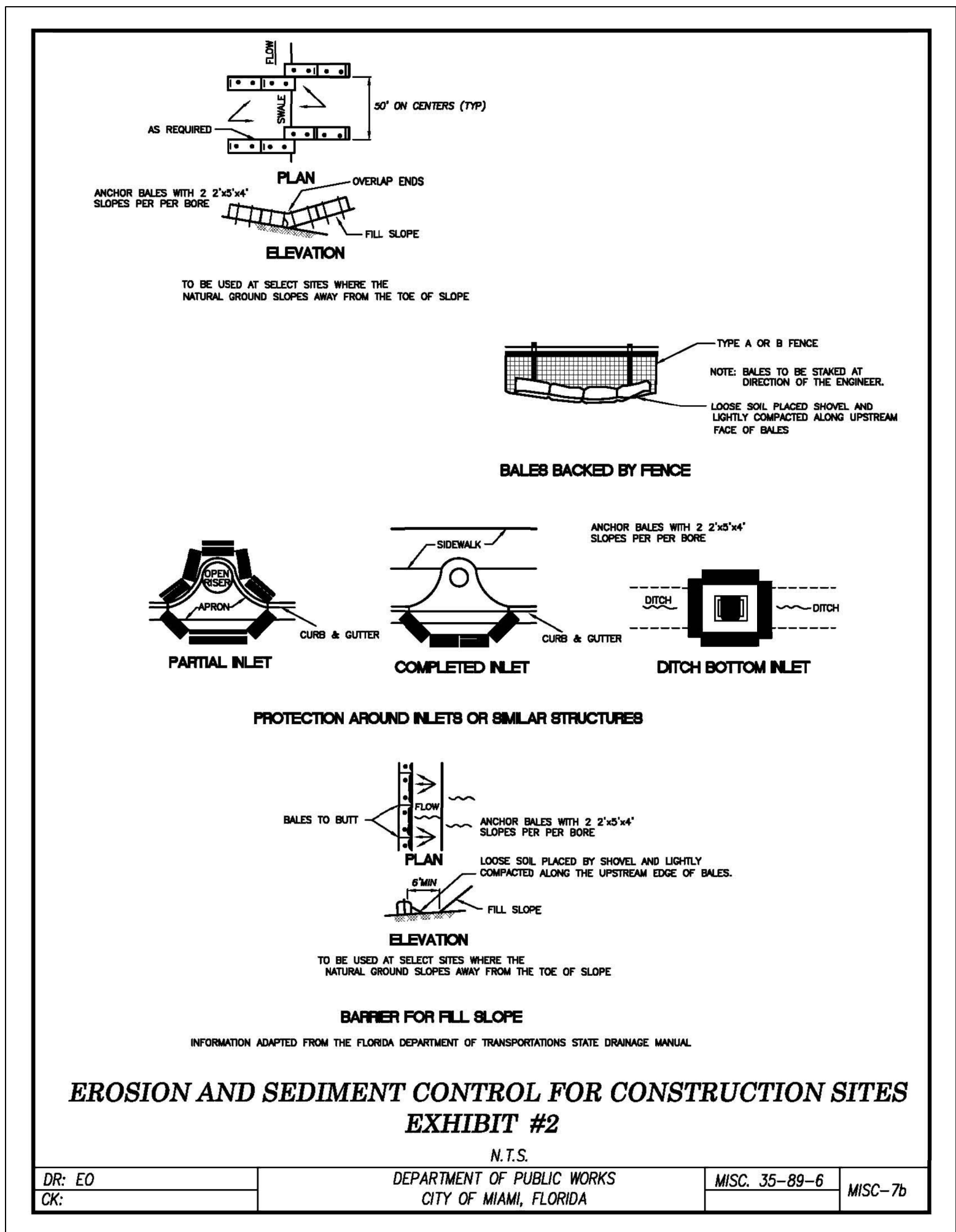
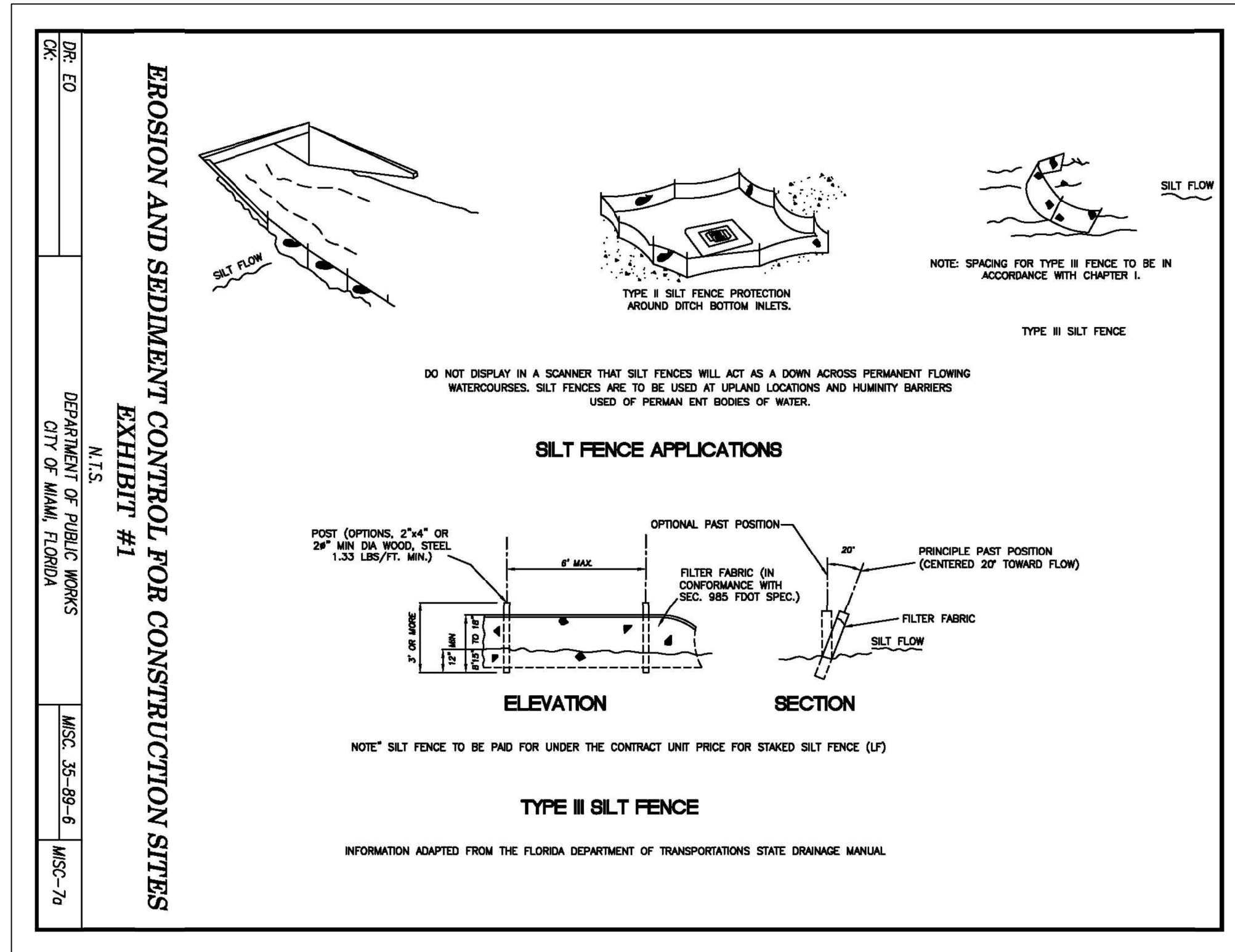
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K:\ORG_URG\04364\00151_pba_fern_ile\CIVIL\CADD\plansheets\303-EROSION AND SEDIMENT CONTROL DETAILS.dwg



- STORM WATER POLLUTION PREVENTION PRACTICES:**
(FOR PROJECTS OF 1 ACRE OR MORE)
- Tree protection and pruning shall be accomplished as detailed in special provisions, the construction plans, and or per tree ordinance 12636.
 - The Storm Water Pollution Prevention Plan, SWPPP, submitted to Public Works, shall describe in detail how the construction effort will be phased with regards to minimizing erosion problems by the use of temporary and permanent erosion control measures, for the various sequences of construction operations. Any modifications must be approved by the City of Miami - NPDES Section, Department of Public Works.
 - Environmental control features as provided in the SWPP, are to be installed at all areas of excavation or fill for drainage system, or structure construction prior to such excavation or fill. Inlet entrances are also to be protected from siltation as detailed on sheet 2 of 4 of Misc. 35-89-6.
 - All environmental control features are to be maintained throughout the life of the project in accordance with N.P.D.E.S. requirements. The contractor must insure that all erosion control features function properly at all times.
 - All erosion and material deposits must be contained within the project limits.
 - Any damaged or ineffective rock bags are to be replaced with new ones. The location of rock bags installation is as mentioned in the SWPPP plans. The project engineer may specify other areas as necessary.
 - Ditch bottom inlets shall be protected from sediment intake until project is complete. Elevation of ground outside inlet top shall not be higher than inlet top. Rock bags shall be installed around inlet top. Completed inlets in paved areas shall also be protected with rock bags to prevent sediment intake.
 - Curb inlets also shall be protected from sediment intake until the project is complete. All exposed sloped material adjacent to inlet, shall be covered with erosion control matting with outer limits protected by rock bags.
 - Stockpiled material shall not be left in erosion prone areas unless protected by cover or rock bags.
 - Inspection of erosion control measures and condition of adjacent properties, shall be performed daily by the contractor's representative and the project engineer. Deficiencies shall be noted and corrected.
 - Any offsite sediment discharge to a municipal separate storm water system arising from the contractor's activities is not allowed. Refer to Public Works Department Bulletin No. 25.
 - The use of sanitary sewers, french drains, cover ditches and/or rock drains for the disposal of wastewater is expressly prohibited. Refer to Public Works Department Bulletin No. 25.
- * NPDES - National Pollution Discharge Elimination System
- DR: ED
CK: _____
- DEPARTMENT OF PUBLIC WORKS
CITY OF MIAMI, FLORIDA
MISC. 35-89-6
MISC-7e

4/24/2019

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PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

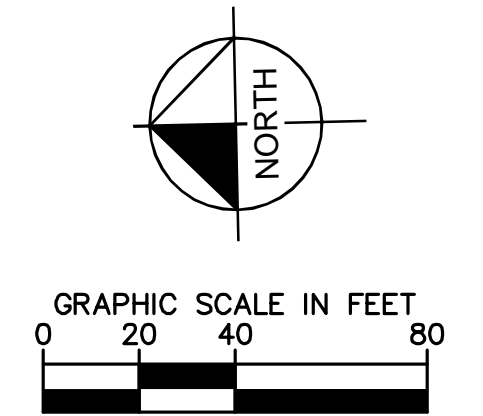
EROSION AND SEDIMENT CONTROL DETAILS

SHEET TITLE:

LICENSED PROFESSIONAL
ALBERTO P. HERRERA, P.E.
FLORIDA LICENSE NUMBER
59357

No.	REVISIONS - SUBMITTALS	DATE

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LEGEND:

- EXIST. AND PROP. RIGHT-OF-WAY LINE OR PROPERTY LINE
- CENTER LINE OF ROADWAY
- MONUMENT LINE
- PROP. ASPHALT PAVEMENT (PROP. 28,165 SF)
- PROP. LANDSCAPING (SEE LANDSCAPE SET)
- PROP. SIGN (4)
- PROP. TYPE "D" CURB (±1,200LF)
- TRAFFIC PATTERN DIRECTION (NOT A PAVEMENT MARKING)
- EXIST. GAS LINE
- EXIST. IRRIGATION LINE
- EXIST. UNDERGROUND ELECTRICITY LINE
- EXIST. OVERHEAD LINE

LEGAL DESCRIPTION:
 ALL THAT LOT, PIECE OR PARCEL OF LAND, SITUATED, LYING IN SECTION 34, TOWNSHIP 53 SOUTH, RANGE 41 EAST, CITY OF MIAMI, MIAMI-DADE COUNTY, FLORIDA, BEING A PORTION OF TRACK "A" OF "POLICE BENEVOLENT ASSOCIATION", ACCORDING TO THE PLAT THEREOF, AS RECORDED APRIL 25, 1969 IN PLAT BOOK 86, AT PAGE 15 OF THE PUBLIC RECORDS OF DADE COUNTY, (NOW MIAMI-DADE COUNTY), FLORIDA, THE SAME BEING PARTICULARLY DESCRIBED BY METES AND COURS AS FOLLOWS, VIZ.:

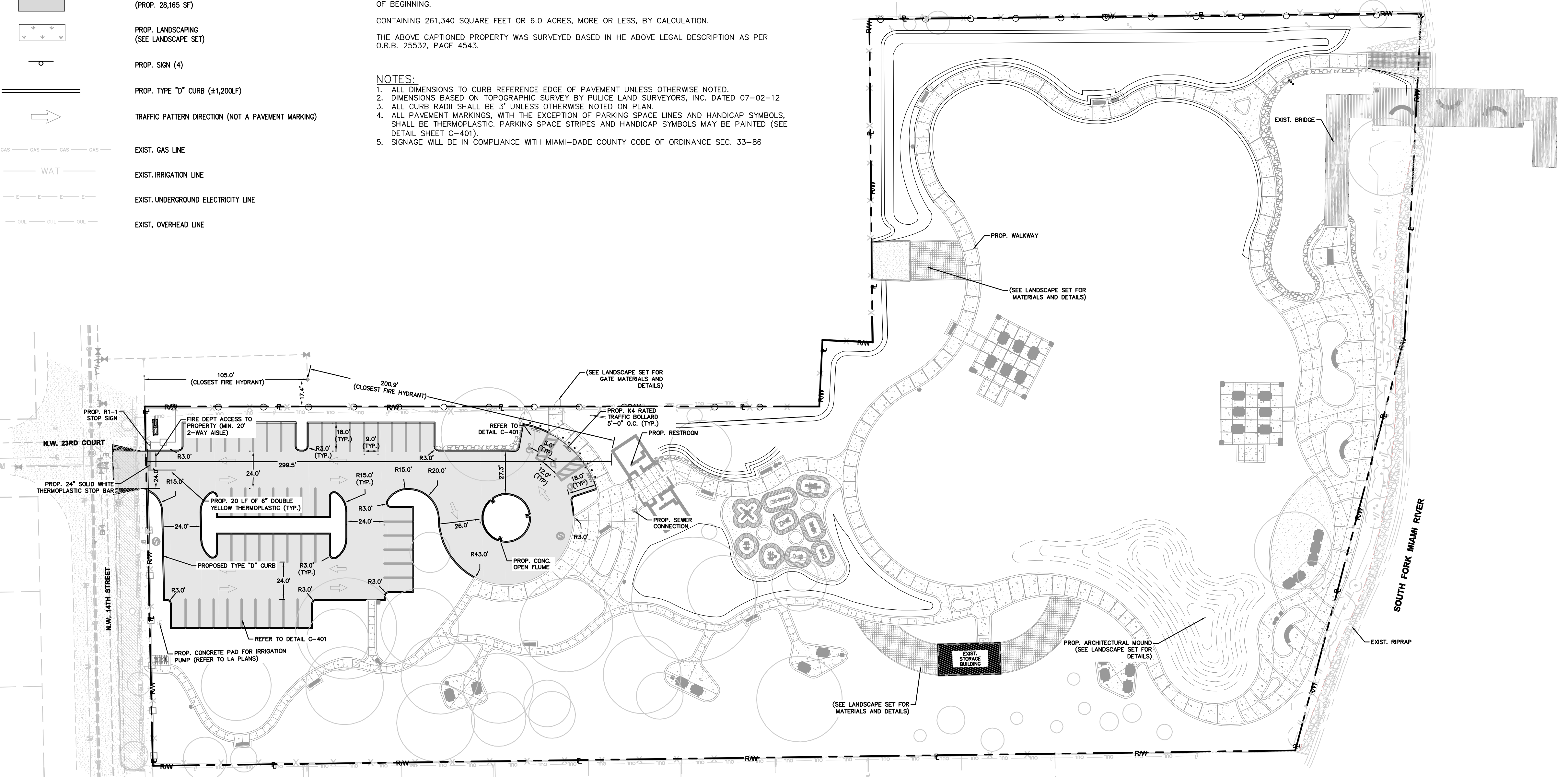
BEING AT NORTHWEST CORNER OF SAID TRACK "A", THENCE N87°54'32"E (THE SAME LINE BEARING WEST BY PLAT) ALONG THE NORTH LINE OF SAID TRACK "A" AND THE SOUTH RIGHT OF WAY OF N.W. 14TH STREET FOR 231.06 FEET; THENCE DEPARTING SAID NORTH LINE OF TRACK "A" AND THE SOUTH RIGHT OF WAY LINE OF N.W. 14TH STREET, S00°55'10"E FOR 32.19 FEET; THENCE N88°35'32"E FOR 208.03 FEET TO A POINT OF INTERSECTION WITH THE EAST LINE OF SAID TRACK "A", THENCE S01°24'28"E (THE SAME LINE BEARING S00°41'00"W BY PLAT) ALONG SAID EAST LINE OF TRACK "A" FOR 354.86 FEET TO THE SOUTHEAST CORNER OF SAID TRACK "A"; THENCE N87°51'35"W ALONG THE SOUTH LINE OF SAID TRACK "A" FOR 208.67 FEET (THE SAME LINE BEARING S85°46'07"E FOR A DISTANCE OF 208.29 FEET BY PLAT); THENCE N76°01'43"W ALONG SAID SOUTH LINE OF TRACK "A" FOR 274.88 FEET (THE SAME LINE BEARING S73°56'15"E FOR A DISTANCE OF 275.00 FEET BY PLAT) TO THE SOUTHWEST CORNER OF SAID TRACK "A"; THENCE N01°35'28"W (THE SAME LINE BEARING S00°30'00"W BY PLAT) ALONG THE WEST LINE OF SAID TRACK "A" FOR 734.60 FEET TO THE POINT OF BEGINNING.

CONTAINING 261,340 SQUARE FEET OR 6.0 ACRES, MORE OR LESS, BY CALCULATION.
 THE ABOVE CAPTIONED PROPERTY WAS SURVEYED BASED IN THE ABOVE LEGAL DESCRIPTION AS PER O.R.B. 25532, PAGE 4543.

- NOTES:**
1. ALL DIMENSIONS TO CURB REFERENCE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
 2. DIMENSIONS BASED ON TOPOGRAPHIC SURVEY BY PULICE LAND SURVEYORS, INC. DATED 07-02-12
 3. ALL CURB RADII SHALL BE 3' UNLESS OTHERWISE NOTED ON PLAN.
 4. ALL PAVEMENT MARKINGS, WITH THE EXCEPTION OF PARKING SPACE LINES AND HANDICAP SYMBOLS, SHALL BE THERMOPLASTIC. PARKING SPACE STRIPES AND HANDICAP SYMBOLS MAY BE PAINTED (SEE DETAIL SHEET C-401)
 5. SIGNAGE WILL BE IN COMPLIANCE WITH MIAMI-DADE COUNTY CODE OF ORDINANCE SEC. 33-86

OVERALL SITE IMPACT TABLE

COVERAGE	EXISTING	CHANGE	PROPOSED	
Lot Coverage (SF)	19,534	+8,631	28,165	
PARKING REQUIREMENTS	EXISTING	CHANGE	PROPOSED	REQUIRED
Parking Spaces	35	+18	53	-
Handicap Parking Spaces	1	+2	3	2



SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP

CITY OF MIAMI
 OFFICE OF CAPITAL IMPROVEMENTS
 444 S.W. 2nd Avenue, 8th Floor
 Miami, FL 33130

PBA FERN ISLE PARK REDEVELOPMENT
 CITY OF MIAMI, PROJECT NO. B-40543
 2304 N.W. 14TH STREET, MIAMI, FL 33125

SITE PLAN

SHEET TITLE:

LICENSED PROFESSIONAL
 ALBERTO P. HERRERA, P.E.
 FLORIDA LICENSE NUMBER
 59357

DATE: _____

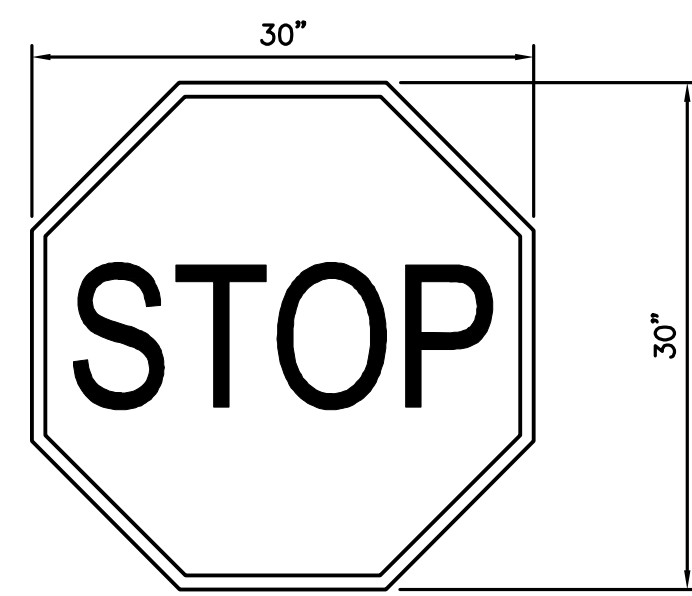
No.	REVISIONS - SUBMITTALS	DATE

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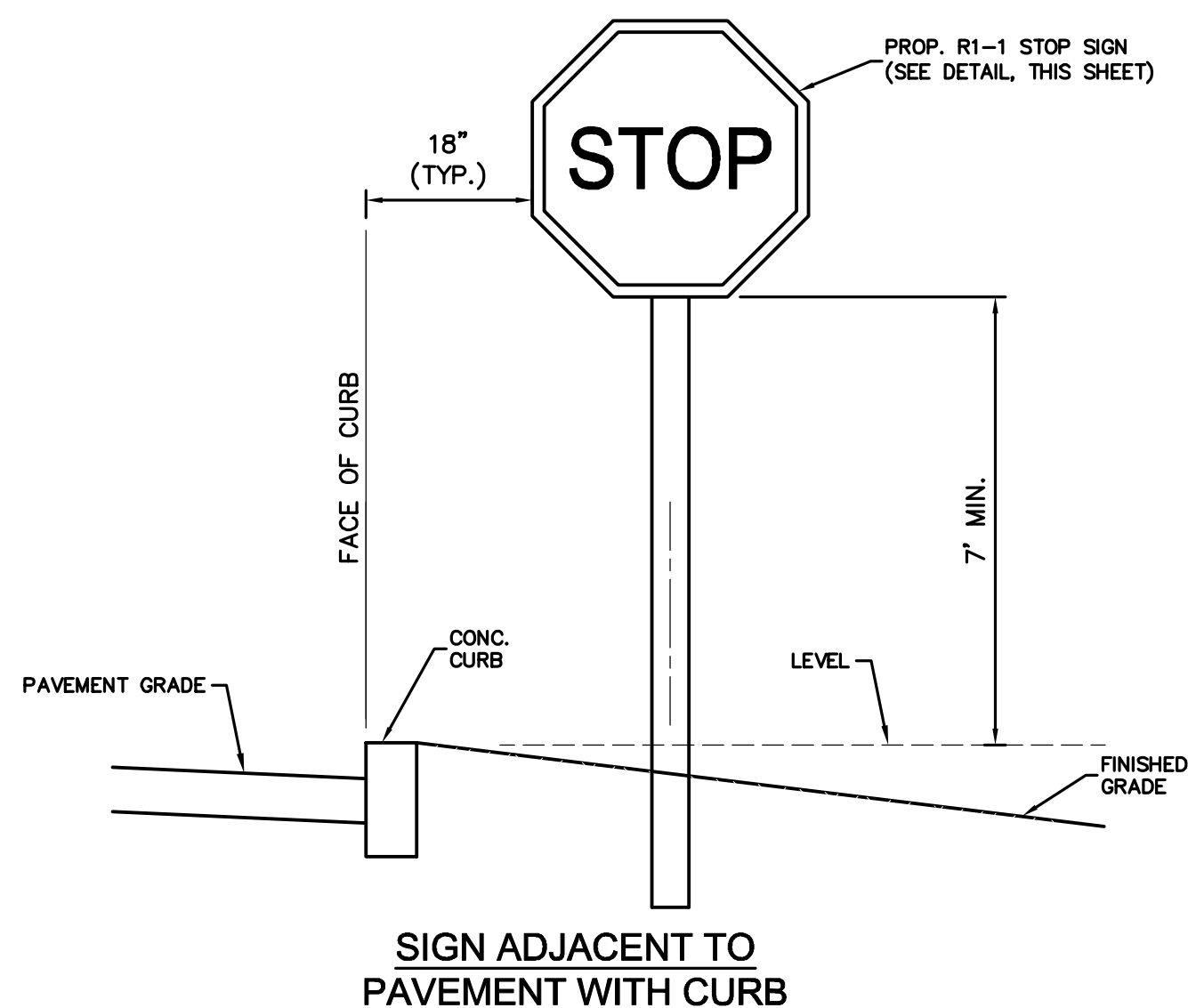
Sunshine811
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R1-1
(30"x30")

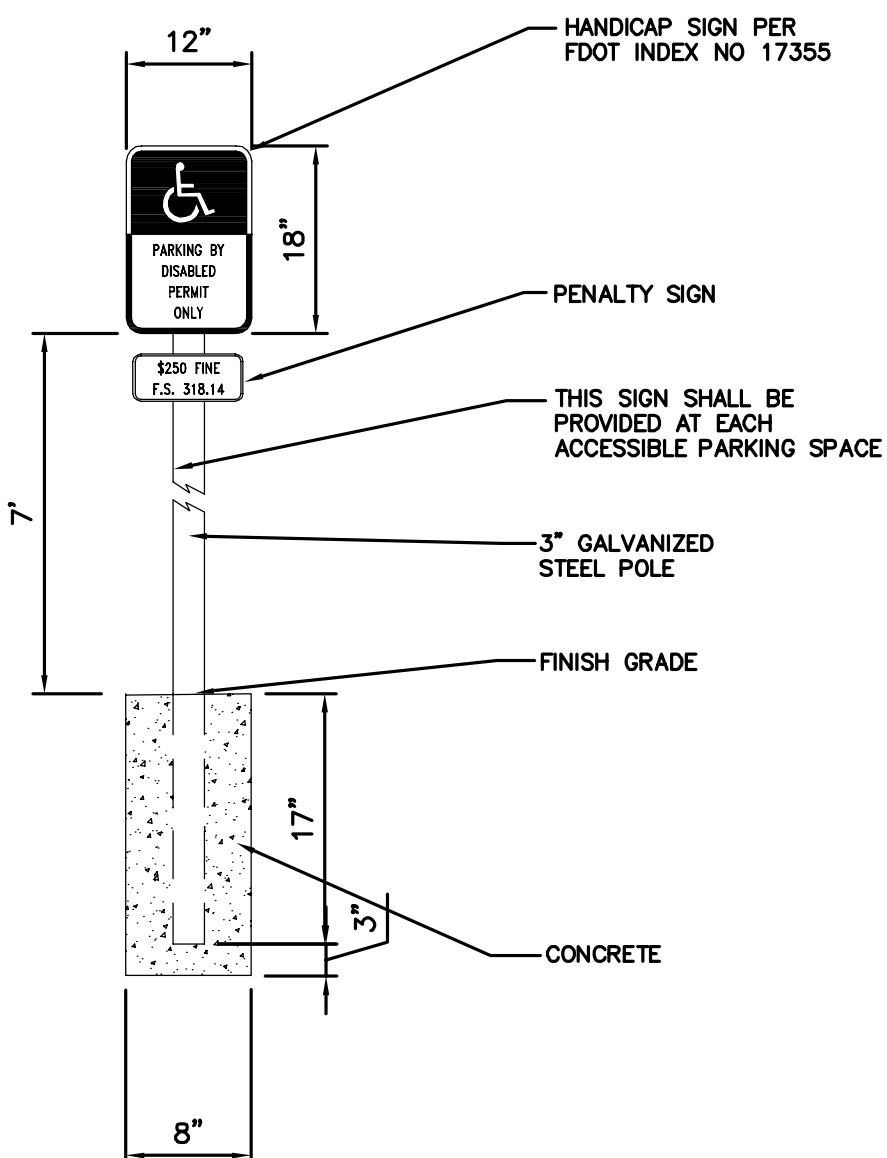
NOTE:
STOP SIGN AND ASSEMBLY SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT STANDARD DETAILS AND SPECIFICATIONS.

STOP SIGN DETAIL
N.T.S.

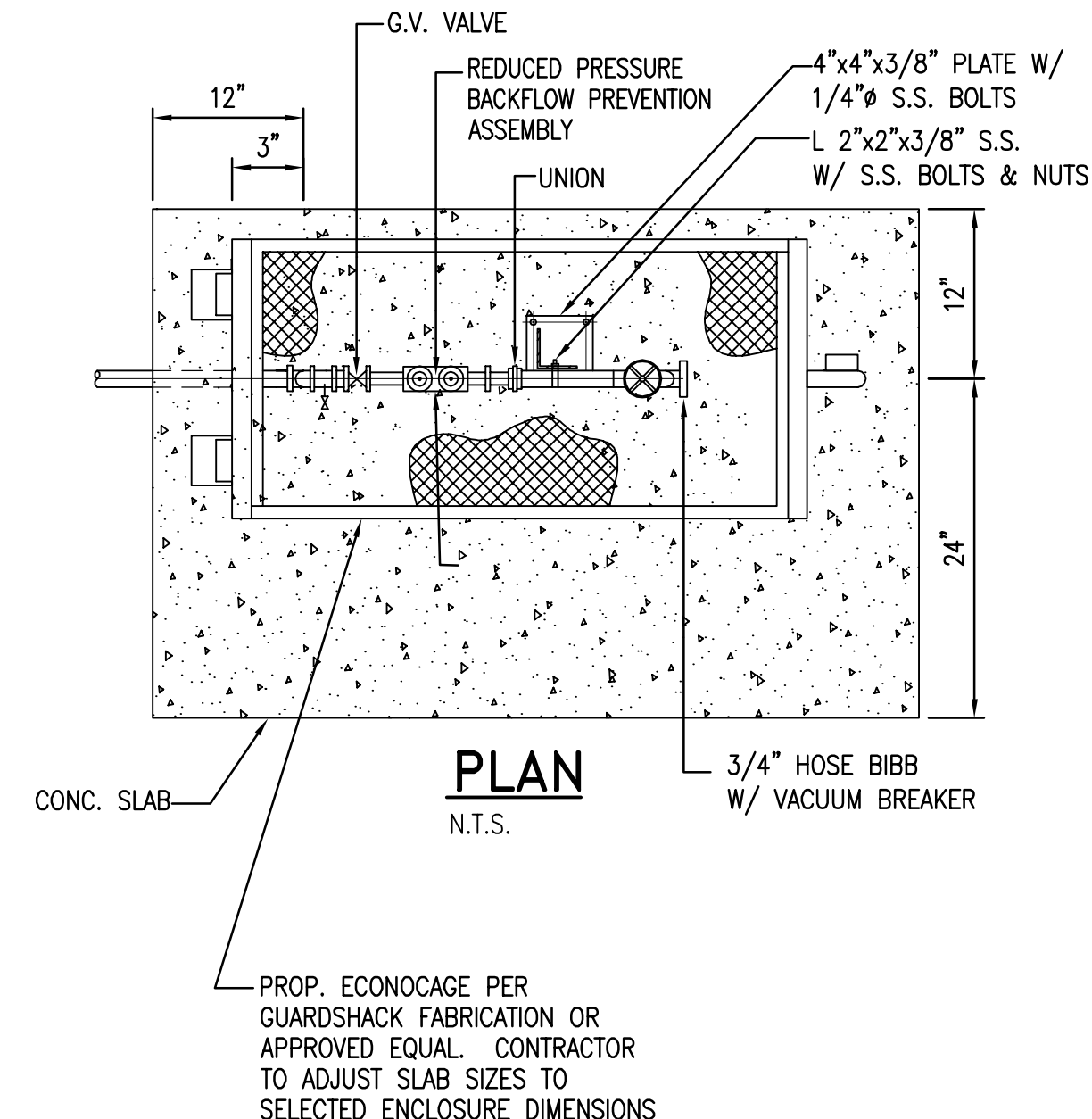


SIGN ADJACENT TO PAVEMENT WITH CURB
N.T.S.

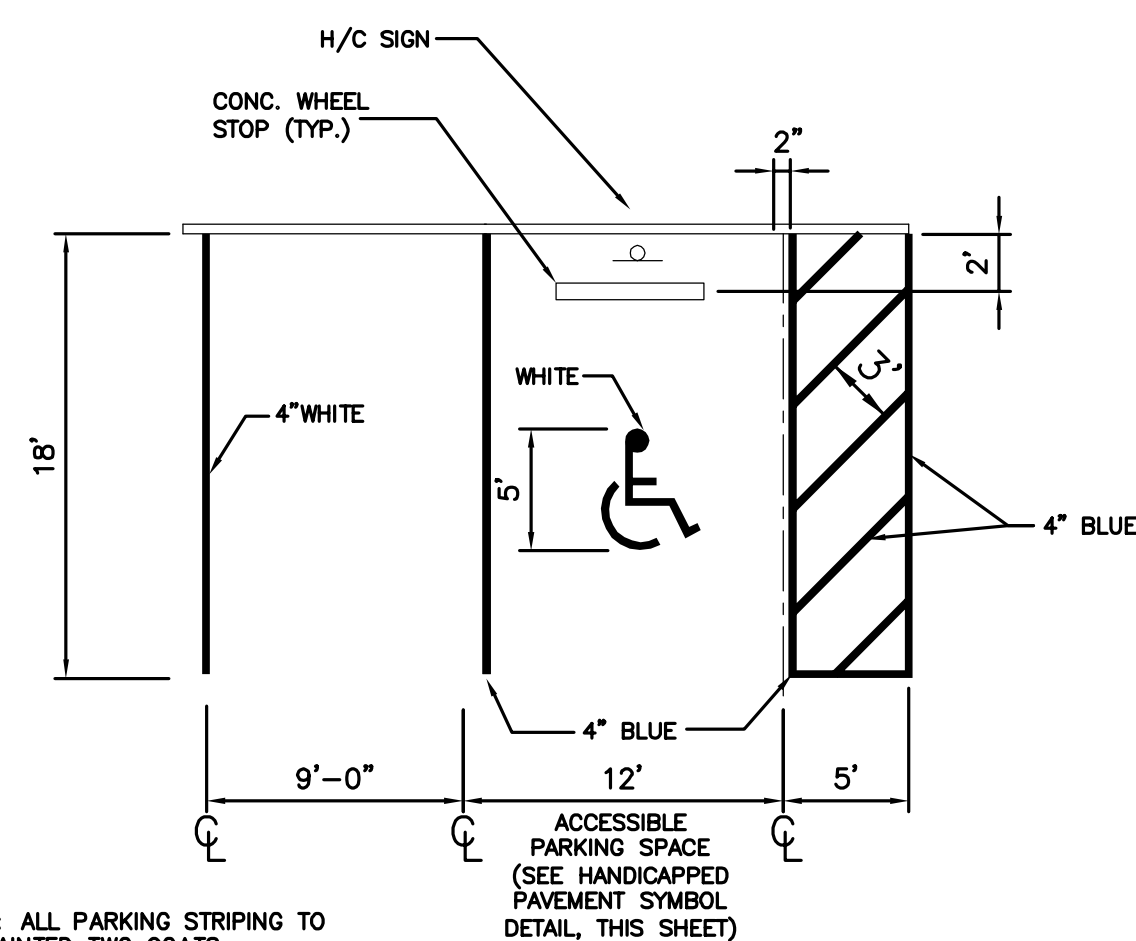
STOP SIGN LOCATION DETAIL
N.T.S.



HANDICAP SIGN
N.T.S.

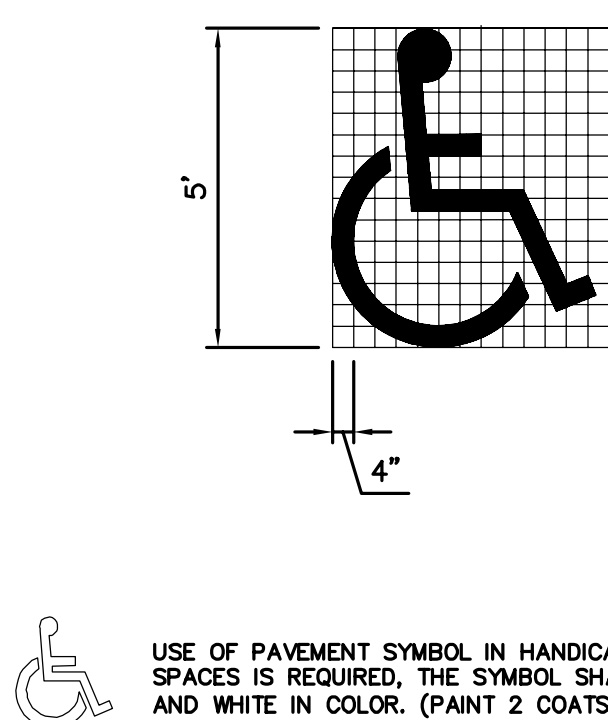


BACKFLOW PREVENTER WITH HOSE BIB
N.T.S.



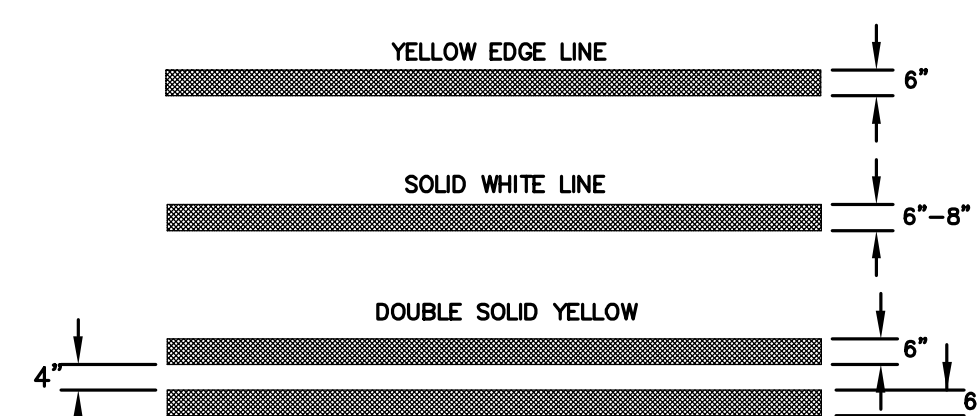
NOTE: ALL PARKING STRIPING TO BE PAINTED TWO COATS.

PARKING - PAVEMENT MARKING
N.T.S.

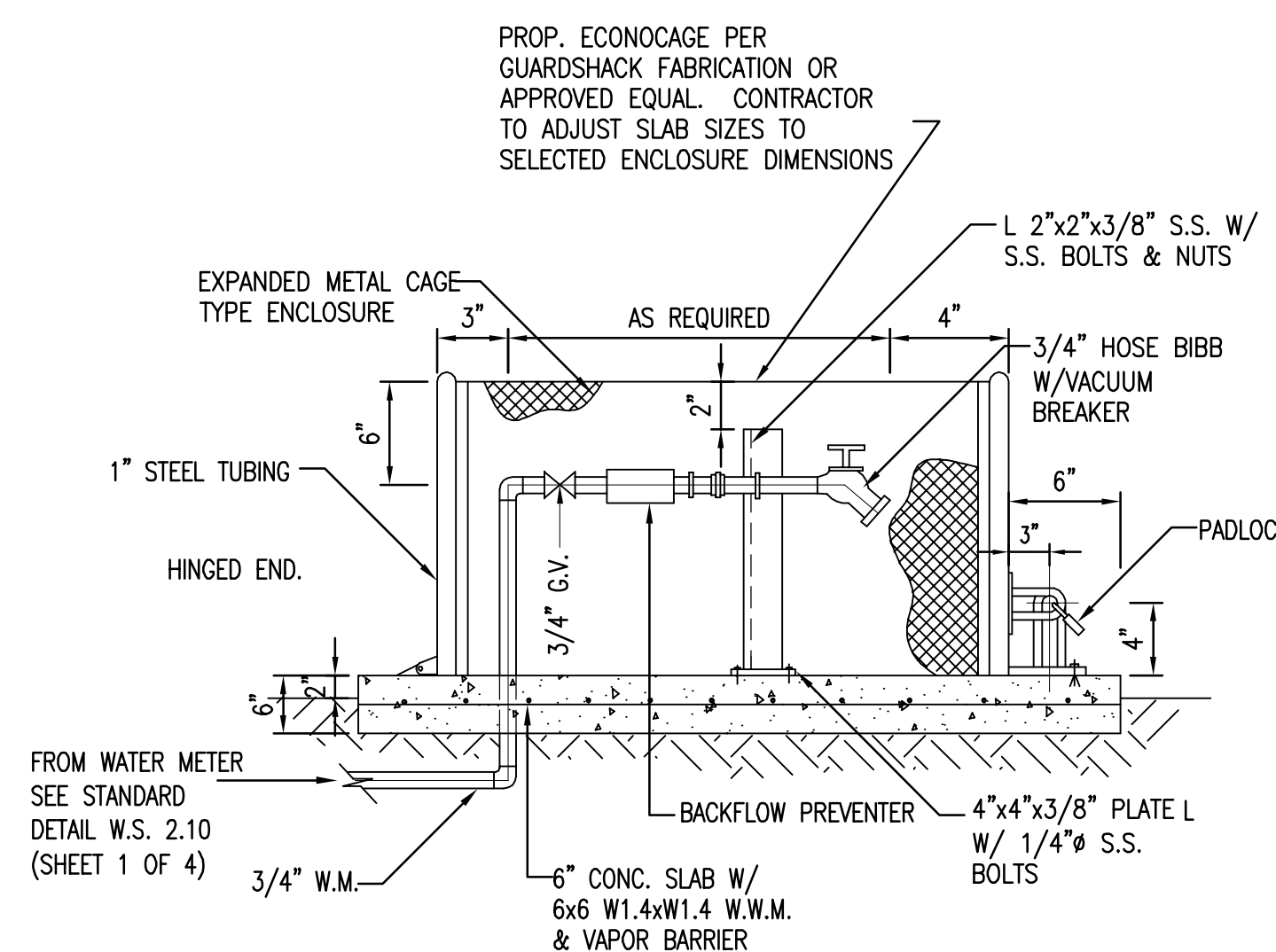


USE OF PAVEMENT SYMBOL IN HANDICAPPED PARKING SPACES IS REQUIRED. THE SYMBOL SHALL BE 5 FT. HIGH AND WHITE IN COLOR. (PAINT 2 COATS)

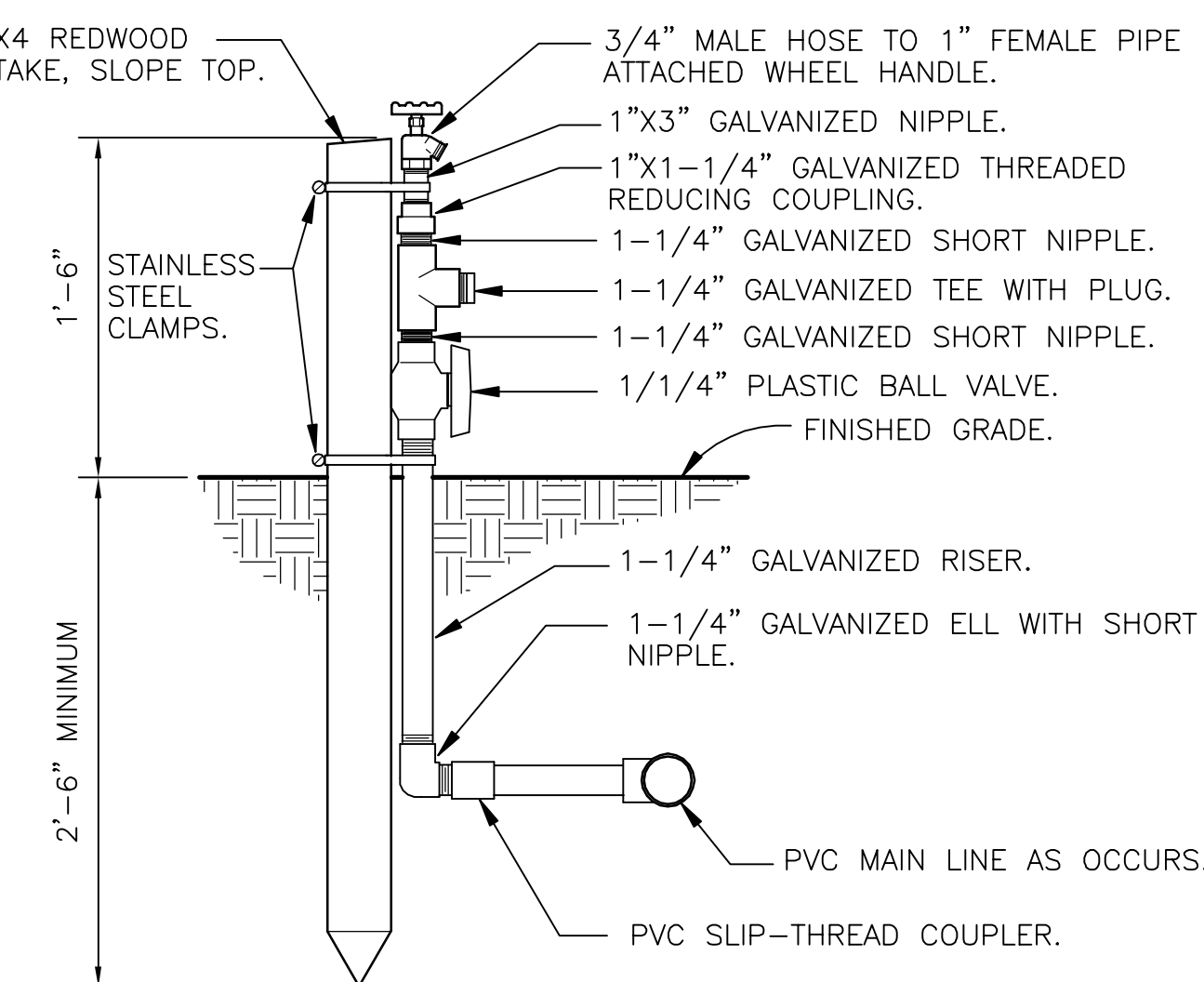
HANDICAPPED PAVEMENT SYMBOL
N.T.S.



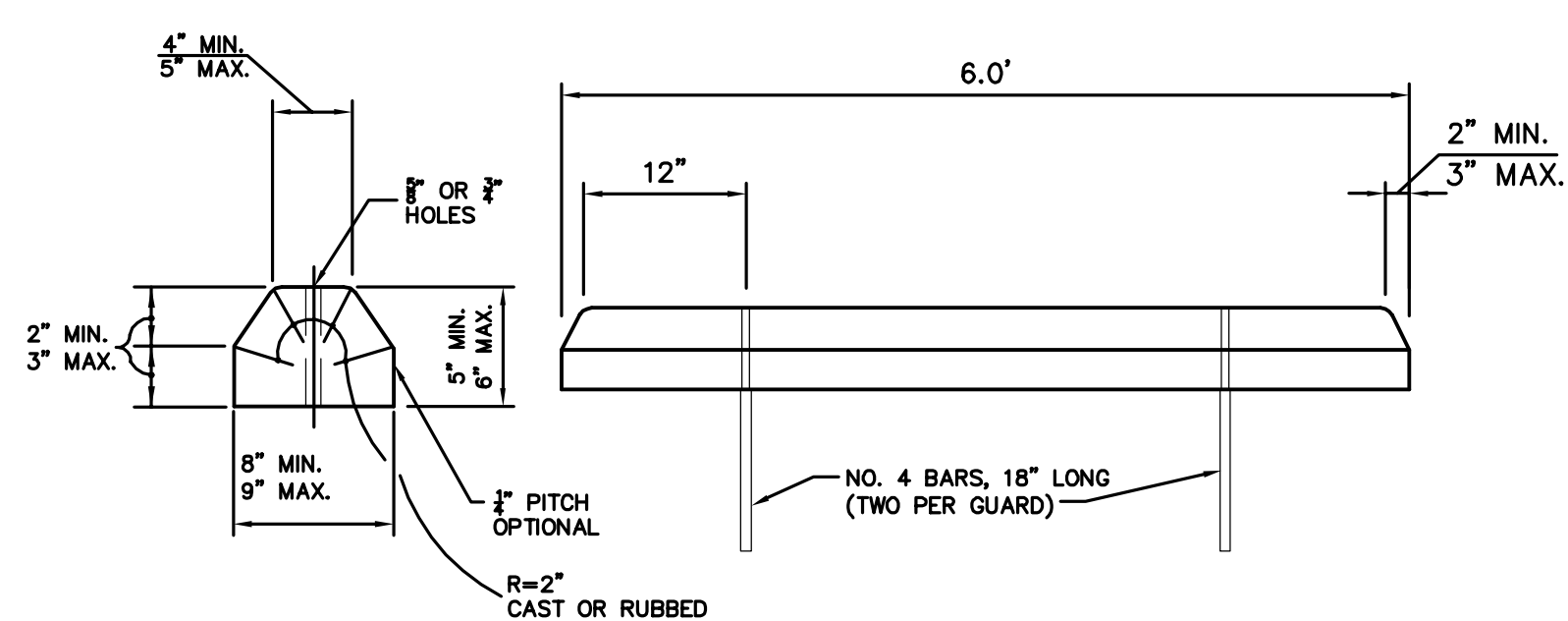
PAVEMENT LINES
N.T.S.



BACKFLOW PREVENTER WITH HOSE BIB
N.T.S.

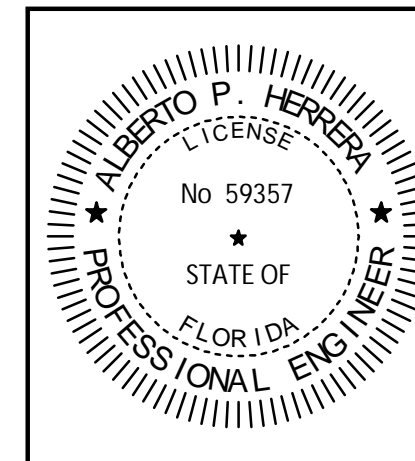


HOSE BIB DETAIL
N.T.S.



PRE-CAST CONCRETE WHEEL STOP
N.T.S.

4/24/2019



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PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

SITE PLAN DETAILS

SHEET TITLE:

LICENSED PROFESSIONAL
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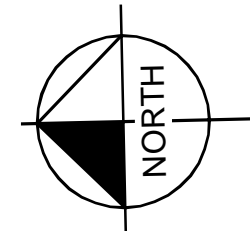
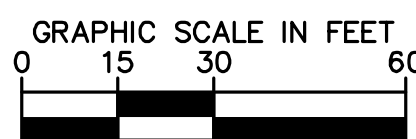
No.	REVISIONS - SUBMITTALS	DATE

PAGE No. SHEET No.
C-401

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© 2019 KIMLEY-HORN AND ASSOCIATES, INC. P:\CHG\URR\04-36430051 pba fern isle\CIVIL\CADD\plansheets\C-401 SITE PLAN DETAILS.dwg K:\CHG\URR\04-36430051 pba fern isle\CIVIL\CADD\plansheets\C-401 SITE PLAN DETAILS.dwg Layout: C-401 SITE PLAN DETAILS April 24, 2019 05:43:02pm

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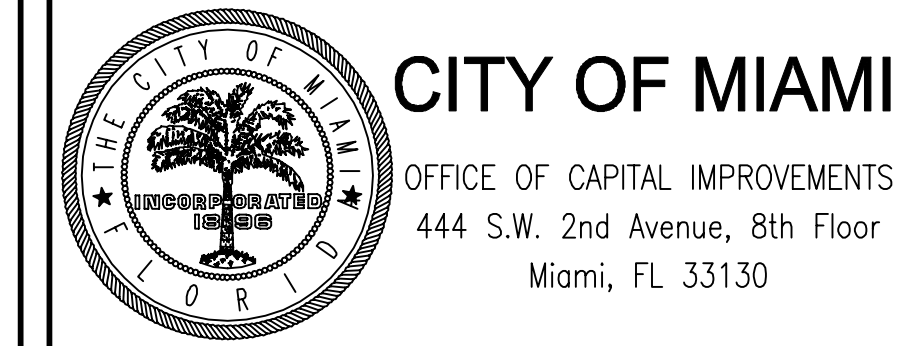
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- PROP. ASPHALT PAVEMENT (PROP. 28,165 SF)
- PROP. LANDSCAPING (SEE LANDSCAPE SET)
- PROP. FLOW ARROW
- PROP. ELEVATIONS
- MATCH EXIST. PAVEMENT ELEVATIONS
- PROP. HIGH POINT
- EXIST. ELEVATIONS
- PROP. DRAINAGE STRUCTURE
- PROP. YARD DRAIN
- PROP. EXFILTRATION TRENCH
- PROP. SOLID PIPE
- EXIST. GAS LINE
- EXIST. IRRIGATION LINE
- EXIST. UNDERGROUND ELECTRICITY LINE
- EXIST. OVERHEAD LINE

DRAINAGE STRUCTURE TABLE			
STRUCTURE NUMBER	STRUCTURE TYPE	RIM ELEVATION	INVERT ELEVATION
S-1	FDOT TYPE C INLET USP 3-3.0 TYPE "C" USF 4155 FRAME - 6210 GRATE W/ BAFFLE (OR APPROVED EQUAL)	RIM = 8.25	(18") 5.00 (N)
S-2	FDOT TYPE C INLET USP 3-3.0 TYPE "C" USF 4155 FRAME - 6210 GRATE W/ BAFFLE (OR APPROVED EQUAL)	RIM = 8.25	(18") 5.00 (E) (18") 5.00 (S)
S-3	FDOT TYPE C INLET USP 3-3.0 TYPE "C" USF 4155 FRAME - 6210 GRATE W/ BAFFLE (OR APPROVED EQUAL)	RIM = 8.25	(18") 5.00 (W) (18") 5.00 (S)
S-4	FDOT TYPE C INLET USP 3-3.0 TYPE "C" USF 4155 FRAME - 6210 GRATE W/ BAFFLE (OR APPROVED EQUAL)	RIM = 8.25	(18") 5.00 (N) (18") 5.00 (S)
S-5	FDOT TYPE C INLET USP 3-3.0 TYPE "C" USF 4155 FRAME - 6210 GRATE W/ BAFFLE (OR APPROVED EQUAL)	RIM = 8.00	(18") 5.00 (N)

NOTES:

1. ALL CATCH BASIN CONNECTED TO MUST HAVE 42 INCH SUMP WHEN A BAFFLE IS REQUIRED.
2. ALL PRB BAFFLES MUST HAVE 24" FROM THE BOTTOM OF THE BAFFLE TO THE BOTTOM OF THE STRUCTURE.

SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



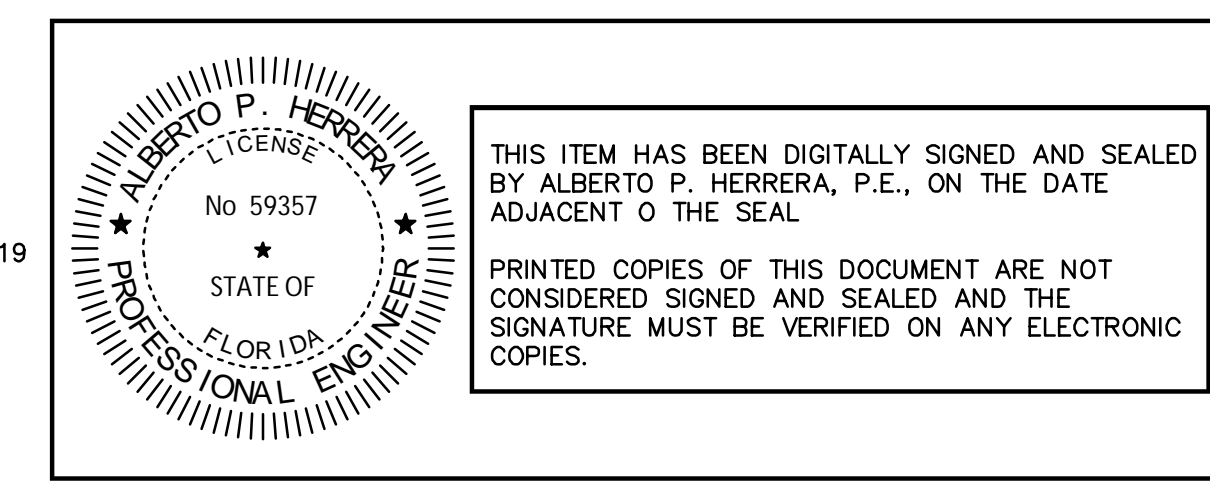
PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

PAVING, GRADING,
AND DRAINAGE PLAN

SHEET TITLE:

LICENSED PROFESSIONAL
 ALBERTO P. HERRERA, P.E.
 FLORIDA LICENSE NUMBER
 59357

No.	REVISIONS - SUBMITTALS	DATE



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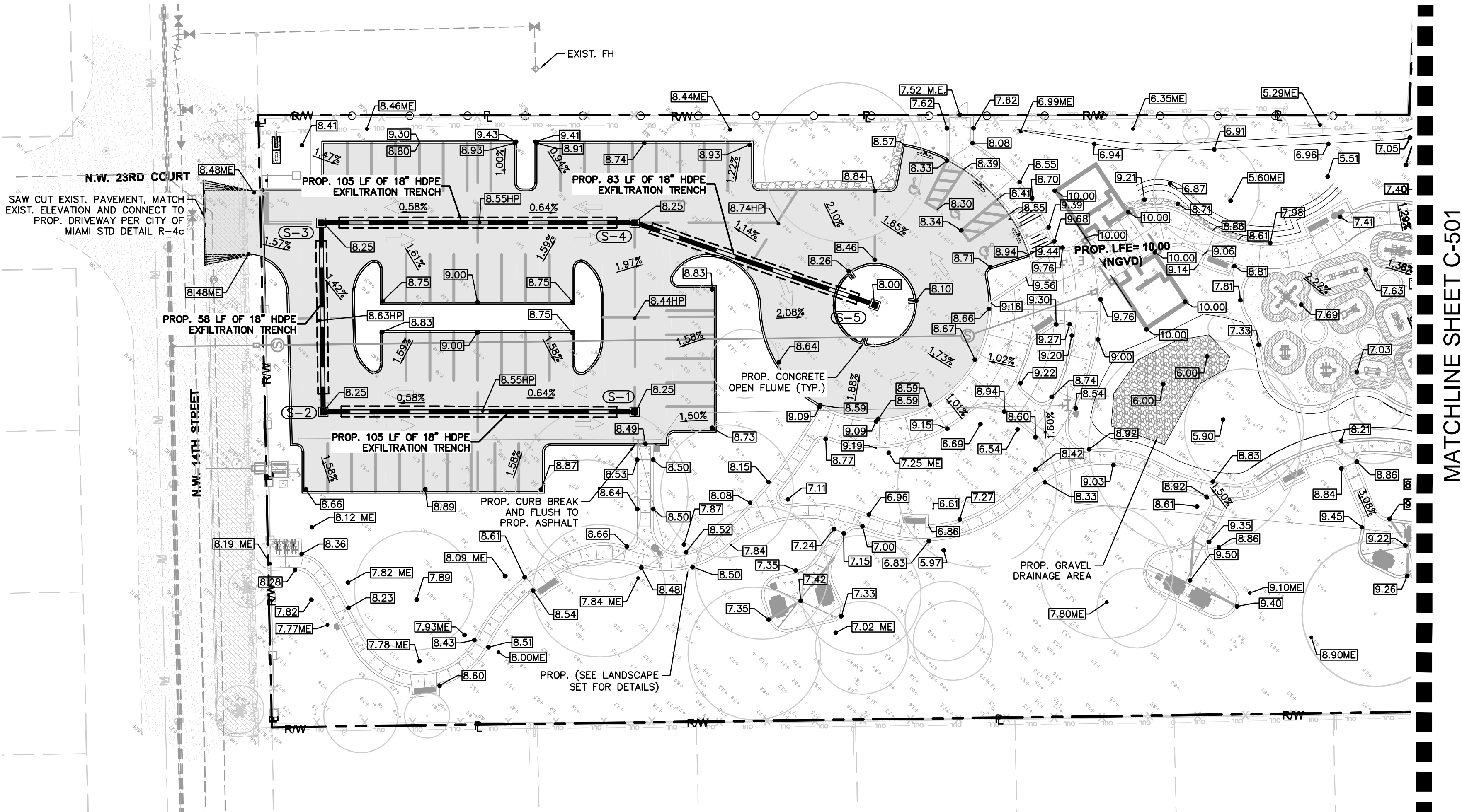
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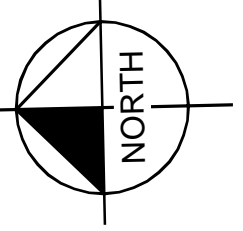
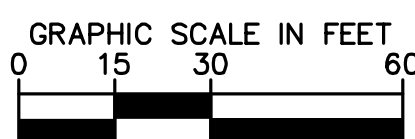


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PAGE No. SHEET No. **C-500**

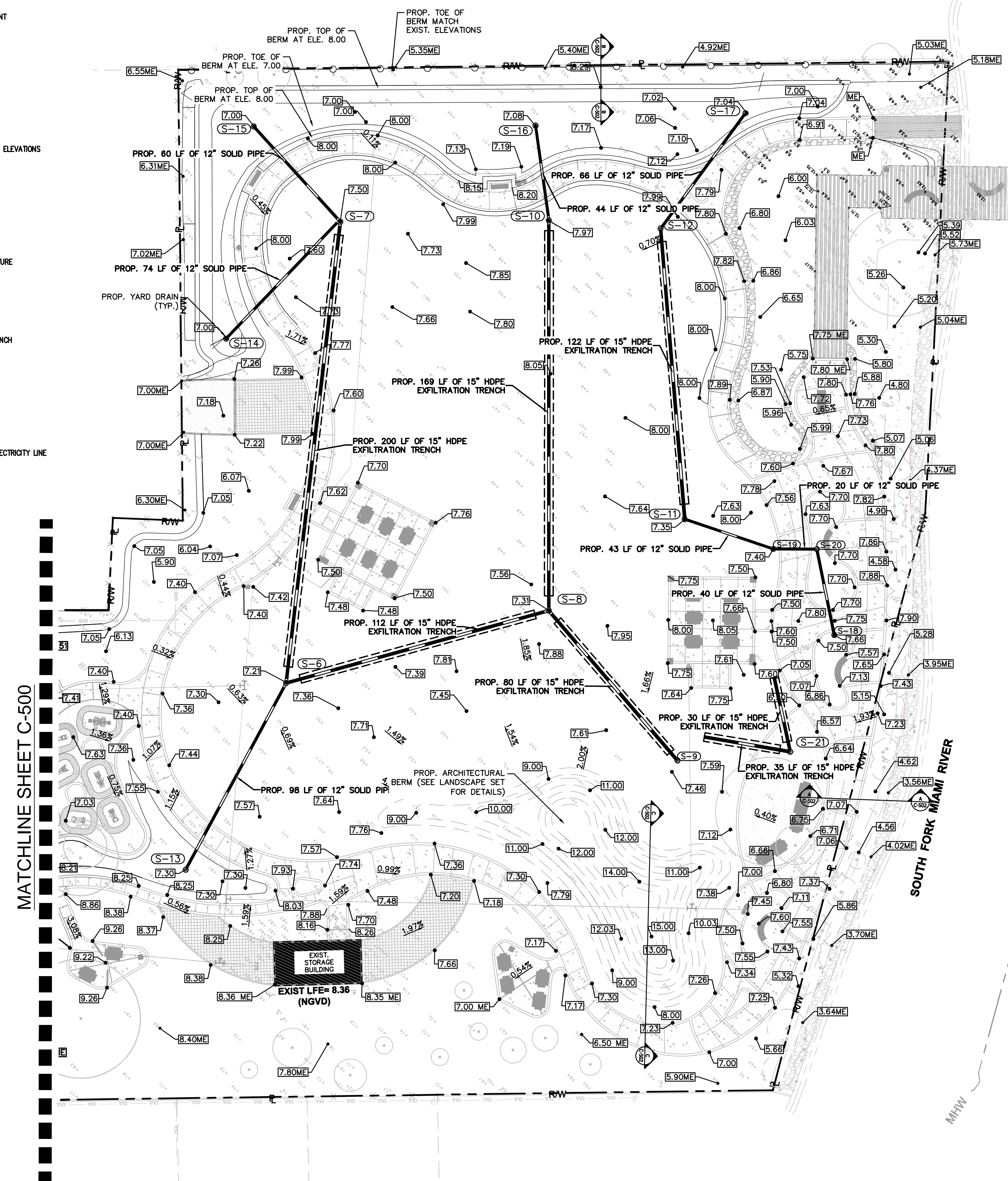


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- EXIST. OVERHEAD LINE



DRAINAGE STRUCTURE TABLE			
STRUCTURE NUMBER	STRUCTURE TYPE	RIM ELEVATION	INVERT ELEVATION
S-6	PROP. NYLOPLAST 18" DRAIN BASIN W/ IRONSMITH DRAIN GRATE (OR APPROV. EQUAL)	RIM = 7.80	(15") 5.00 (S) (12") 4.50 (NW) (15") 5.00 (E)
S-7	PROP. NYLOPLAST 18" DRAIN BASIN W/ IRONSMITH DRAIN GRATE (OR APPROV. EQUAL)	RIM = 7.80	(15") 5.00 (W) (12") 4.50 (NE)
S-8	PROP. NYLOPLAST 30" DRAIN BASIN W/ IRONSMITH DRAIN GRATE	RIM = 7.80	(15") 5.00 (N) (15") 5.00 (E) (15") 5.00 (SW)
S-9	PROP. NYLOPLAST 15" DRAIN BASIN W/ IRONSMITH DRAIN GRATE	RIM = 7.30	(15") 5.00 (NE)
S-10	PROP. NYLOPLAST 18" DRAIN BASIN W/ IRONSMITH DRAIN GRATE (OR APPROV. EQUAL)	RIM = 7.97	(15") 5.00 (W) (12") 5.00 (E)
S-11	PROP. NYLOPLAST 18" DRAIN BASIN W/ IRONSMITH DRAIN GRATE (OR APPROV. EQUAL)	RIM = 7.35	(15") 5.00 (E) (12") 5.00 (S)
S-12	PROP. NYLOPLAST 18" DRAIN BASIN W/ IRONSMITH DRAIN GRATE (OR APPROV. EQUAL)	RIM = 7.50	(15") 5.00 (W) (12") 4.50 (SE)
S-13	PROP. NYLOPLAST 15" DRAIN BASIN W/ IRONSMITH DRAIN GRATE	RIM = 7.30	(12") 4.50 (SE)
S-14	PROP. NYLOPLAST 15" DRAIN BASIN W/ IRONSMITH DRAIN GRATE AND ENVIROHOOD	RIM = 7.00	(12") 4.50 (SE)
S-15	PROP. NYLOPLAST 15" DRAIN BASIN W/ IRONSMITH DRAIN GRATE AND ENVIROHOOD	RIM = 7.00	(12") 4.50 (SW)
S-16	PROP. NYLOPLAST 15" DRAIN BASIN W/ IRONSMITH DRAIN GRATE AND ENVIROHOOD	RIM = 7.08	(12") 4.50 (W)
S-17	PROP. NYLOPLAST 15" DRAIN BASIN W/ IRONSMITH DRAIN GRATE AND ENVIROHOOD	RIM = 7.04	(12") 5.00 (NW)
S-18	PROP. NYLOPLAST 18" DRAIN BASIN W/ IRONSMITH DRAIN GRATE	RIM = 7.66	(12") 5.00 (E)
S-19	PROP. NYLOPLAST 12" DRAIN BASIN W/ IRONSMITH DRAIN GRATE	RIM = 7.46	(12") 5.00 (N) (12") 5.00 (S)
S-20	PROP. NYLOPLAST 12" DRAIN BASIN W/ IRONSMITH DRAIN GRATE	RIM = 7.62	(12") 5.00 (N) (12") 5.00 (W)
S-21	PROP. NYLOPLAST 15" DRAIN BASIN W/ IRONSMITH DRAIN GRATE	RIM = 6.58	(15") 5.00 (N) (15") 5.00 (E)

NOTES:

- ALL CATCH BASIN CONNECTED TO MUST HAVE 42 INCH SUMP WHEN A BAFFLE IS REQUIRED.
- ALL PRB BAFFLES MUST HAVE 24" FROM THE BOTTOM OF THE BAFFLE TO THE BOTTOM OF THE STRUCTURE.

SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

PAVING GRADING AND DRAINAGE PLAN

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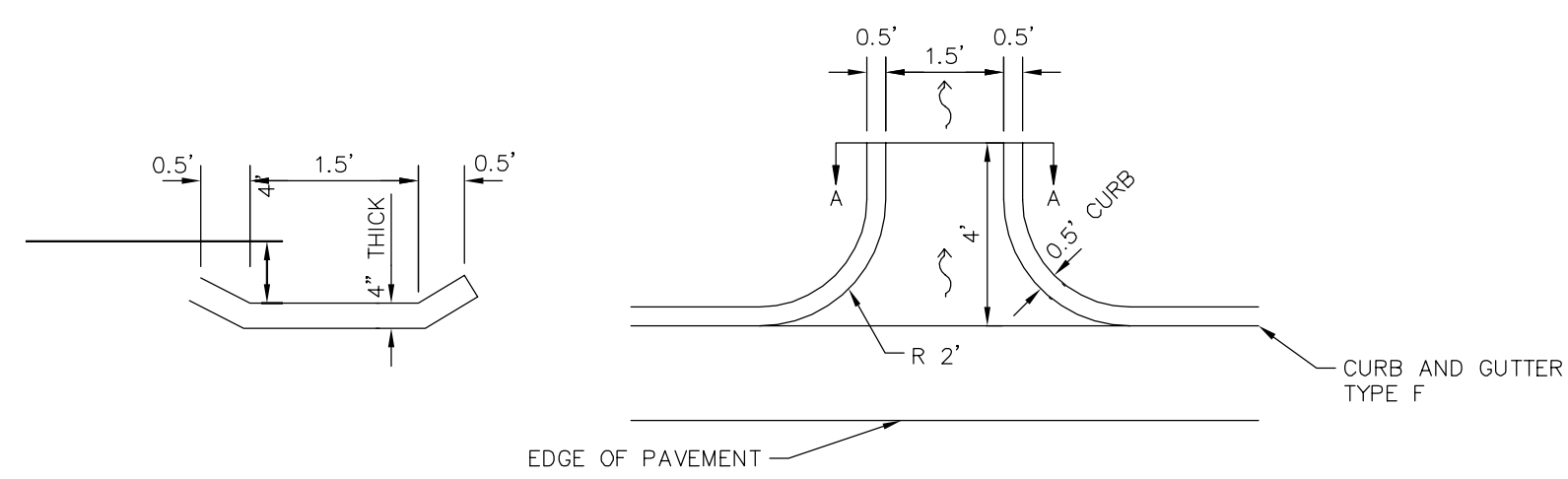
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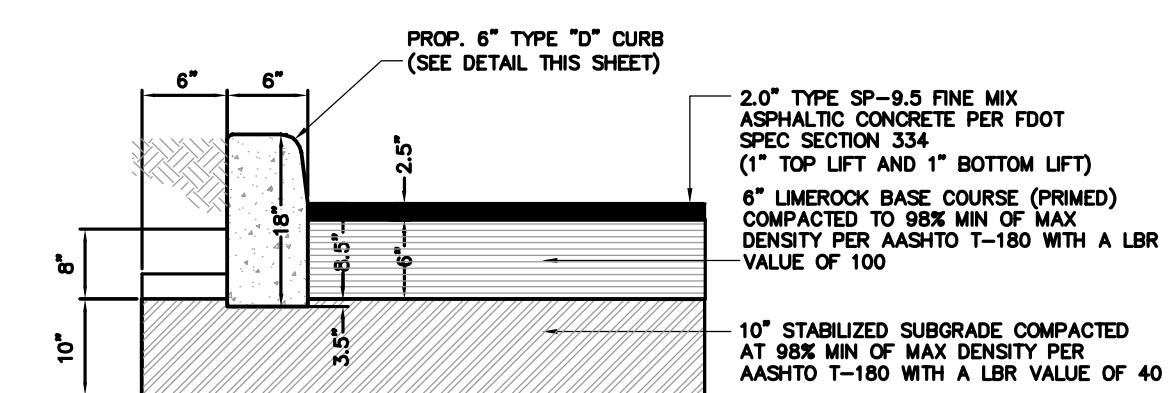
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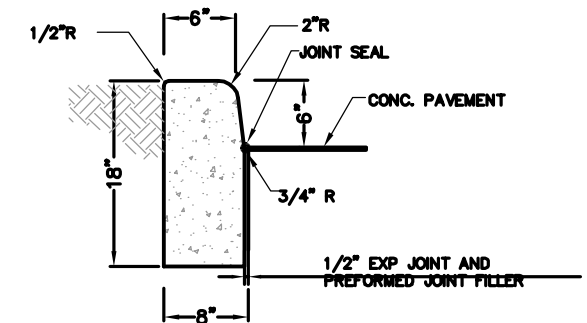
CONCRETE OPEN FLUME DETAIL
N.T.S.

NOTE: COST OF FLUMES TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TYPE F CURB AND GUTTER



STANDARD PAVEMENT DETAIL
N.T.S.

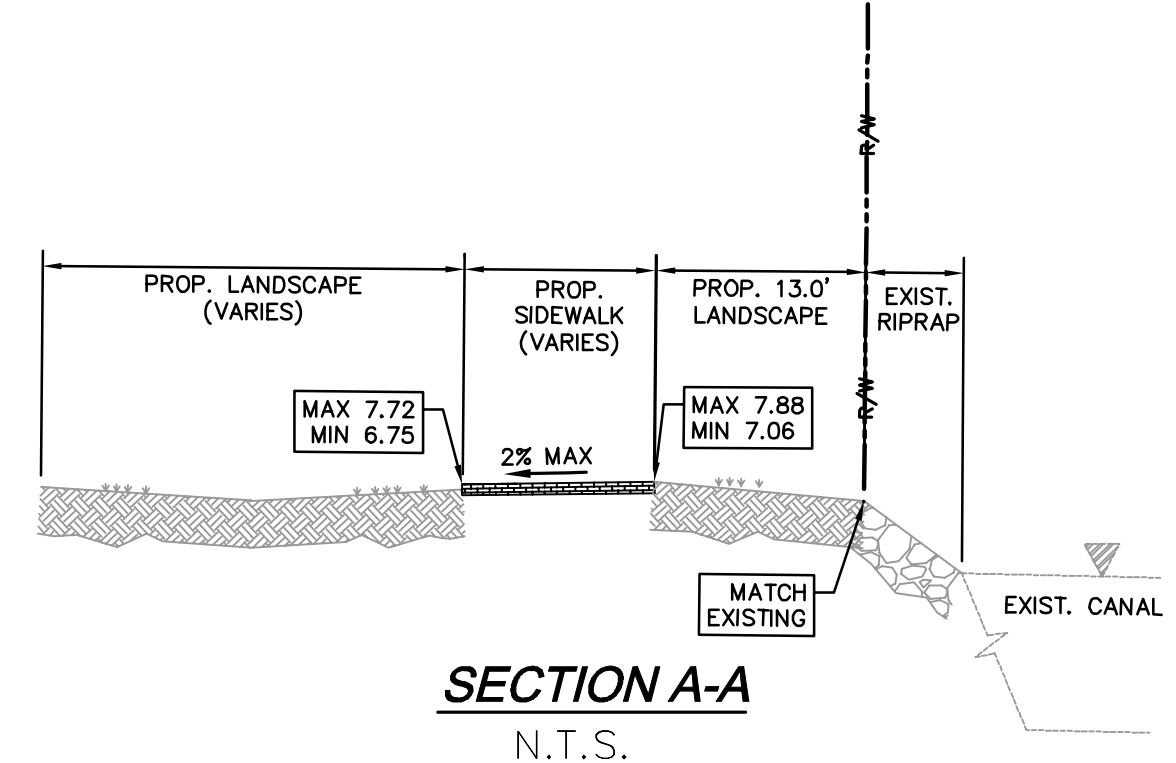
NOTE: BITUMINOUS ASPHALT COARSE MAY BE INSTALLED IN TWO SEPARATE LIFTS TO ALLOW MOBILIZATION OF EQUIPMENT. THE SECOND LIFT OF ASPHALT SHALL NOT BE PLACED UNTIL ALL OTHER WORK ON THE SITE HAS BEEN COMPLETED. UPON COMPLETION OF SECOND LIFT OF ASPHALT, ANY SCRATCHES, GROUDES, OR LOSS OF AGGREGATE WILL NOT BE ACCEPTED. CONTRACTOR TO REMEDY ALL HOLES, BLEMISHES, ETC. PRIOR TO THE UNIFORM INSTALLATION OF SECOND LIFT. AFTER SECOND LIFT OF ASPHALT IS INSTALLED, ROLLING IS REQUIRED.



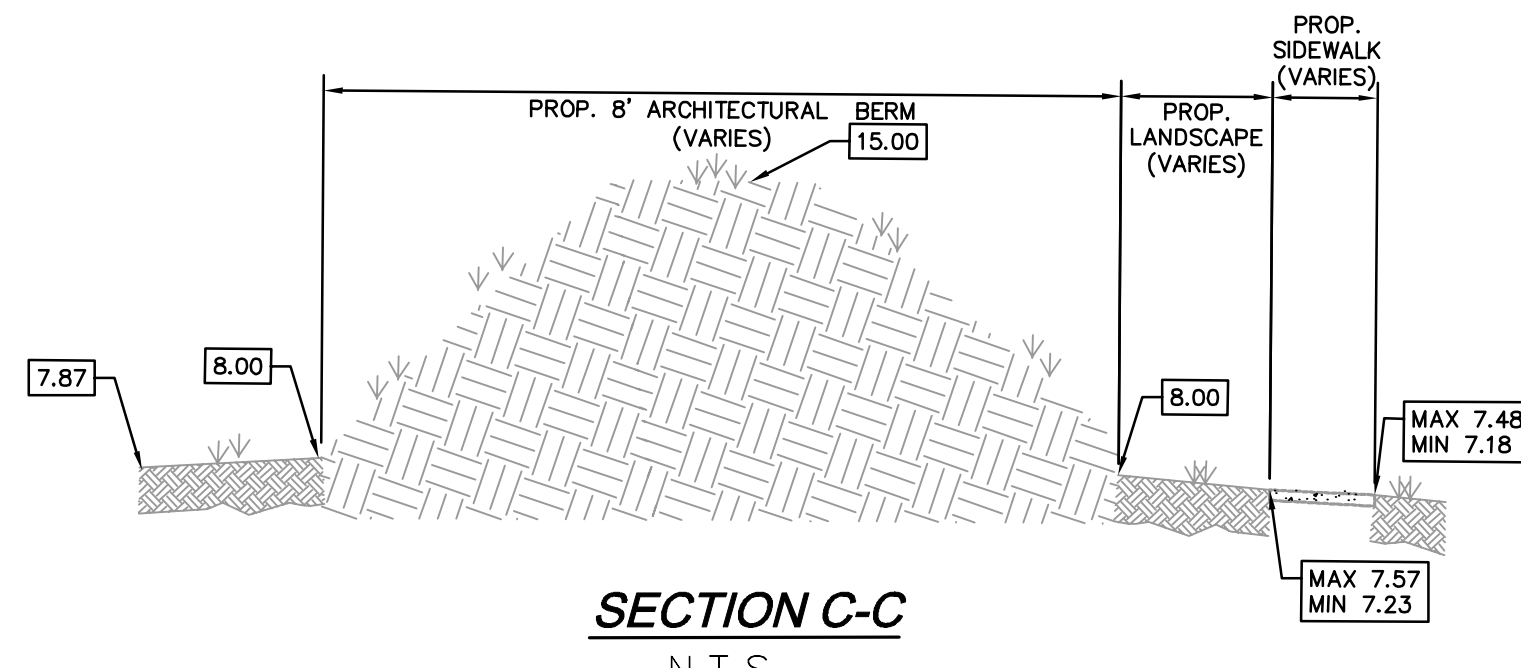
TYPE "D" VERTICAL CURB

NOTE: FOR USE ADJACENT TO CONCRETE OR FLEXIBLE PAVEMENT, CONCRETE SHOULDER, EXPANSION JOINTS, PREFORMED JOINT FILES AND JOINT SEAL, ARE REQUIRED BETWEEN CURBS AND CONCRETE PAVEMENT ONLY. FOOT INDEX NO. 300, SHEET 2 OF 2.

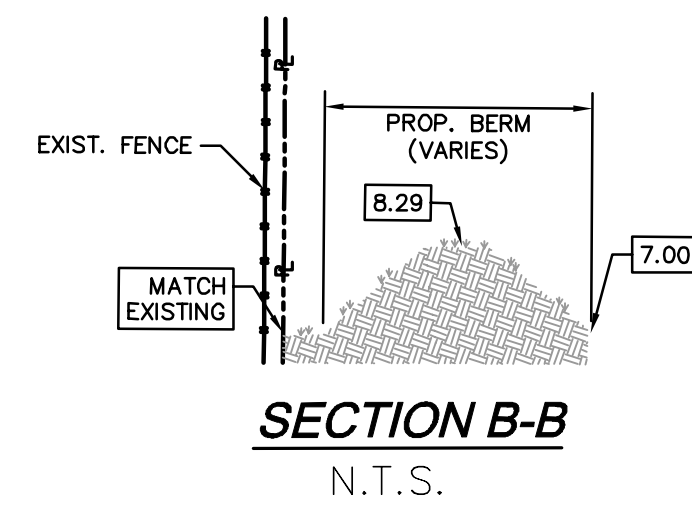
- NOTES**
- 1- ALL WORK SHALL COMPLY WITH MIAMI-DADE COUNTY STD SPECS. MATERIALS: SEC. 302-1 AND METHODS: SEC. 408, AND PER MIAMI-DADE PUBLIC WORKS STD.
 - 2- SUBGRADE SHALL BE COMPACTED TO 98% DENSITY AASHTO T-99.
 - 3- CURB, CURB & GUTTER, AND OUTER SHALL BE CONSTRUCTED IN 50' MAX SECTIONS WITH 1/4" TO 1/2" OPEN EXPANSION JOINT BETWEEN EACH SECTION AND CONTRACTION JOINTS AT 10' INTERVALS.
 - 4- CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS.



SECTION A-A
N.T.S.



SECTION C-C
N.T.S.



SECTION B-B
N.T.S.

4/24/2019

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ALBERTO P. HERRERA, P.E., ON THE DATE ADJACENT TO THE SEAL.

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Sunshine811

Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP

CITY OF MIAMI
OFFICE OF CAPITAL IMPROVEMENTS
444 S.W. 2nd Avenue, 8th Floor
Miami, FL 33130

PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

SHEET TITLE:
PAVING GRADING AND DRAINAGE DETAILS

LICENSED PROFESSIONAL
ALBERTO HERRERA, P.E.
FLORIDA LICENSE NUMBER
59357

DATE: _____

No.	REVISIONS - SUBMITTALS	DATE

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimberly-Horn and Associates, Inc. shall be without liability to Kimberly-Horn and Associates, Inc.

2018 KIMBLEY-HORN AND ASSOCIATES, INC. P:\CADD\PROJECTS\C-600 WATER AND SEWER NOTES.dwg K:\CADD\PROJECTS\C-600 WATER AND SEWER NOTES.dwg April 24, 2019 12:39:31pm

REQUIREMENTS PER DEPARTMENT OF HEALTH
(NOT A PART OF M-DWASD REVIEW NOR APPROVAL)

WATER MAIN HORIZONTAL SEPARATIONS

- SEPARATIONS SHALL BE MEASURED OUTSIDE EDGE TO OUTSIDE EDGE.
- BETWEEN WATER MAINS AND, STORM SEWERS, STORMWATER FORCE MAINS, OR RECLAIMED WATER LINES, SHALL BE 3 FT. MINIMUM.
- BETWEEN WATER MAINS AND VACUUM TYPE SEWER PREFERABLY 10 FT. AND AT LEAST 3 FT. MINIMUM.
- GRAVITY OR PRESSURE SANITARY SEWERS, WASTEWATER FORCE MAINS OR RECLAIMED WATER PREFERABLY 10 FT. AND AT LEAST 6 FT. MAY BE REDUCED TO 3 FT. WHERE BOTTOM OF WATER MAIN IS AT LEAST 6 INCHES ABOVE TOP OF SEWER.
- 10 FT. OF ANY PART OF ON-SITE SEWER TREATMENT OR DISPOSAL SYSTEM.

WATER MAIN VERTICAL SEPARATIONS

- SEPARATIONS BETWEEN WATER MAINS AND GRAVITY SEWER, VACUUM TYPE SEWER, OR STORM SEWERS, TO BE PREFERABLY 12 INCHES, OR AT LEAST 6 INCHES ABOVE, OR AT LEAST 12 INCHES IF BELOW.*
- PRESSURE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN, OR RECLAIMED WATER, AT LEAST 12 INCHES ABOVE OR BELOW.*

* NOTE: CENTER 1 - FULL LENGTH OF WATER MAIN PIPE AT CROSSINGS; ALTERNATIVELY ARRANGE PIPES SO JOINTS ARE AT LEAST 3 FEET FROM JOINTS IN VACUUM, STORM OR STORM FORCE MAINS. AT LEAST 6 FEET FROM JOINTS IN GRAVITY OF PRESSURE SEWERS, WASTEWATER FORCE MAINS OR RECLAIMED WATER.

TRENCH PROTECTION

TRENCH EXCAVATION PROTECTION SHALL BE ACCOMPLISHED AS REQUIRED BY THE PROVISIONS OF, PART 1926, SUBPART P, EXCAVATIONS, TRENCHING AND SHORING OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIONS STANDARDS AND INTERPRETATIONS.



RER-DERM WATER-SEWER GENERAL NOTES

- A horizontal distance of at least 6 feet, and preferably 10 feet (outside to outside), shall be maintained between gravity or pressure sewer pipes and water pipes. The minimum horizontal separation can be reduced to 3 feet for vacuum-type sewers or for gravity sewers where the top of the sewer pipe is at least 6 inches below the bottom of the water pipe. When the above specified horizontal distance criteria cannot be met due to an existing underground facility conflict, smaller separations are allowed if one of the following is met:
 - The sewer pipes are designed and constructed equal to the water pipe and pressure tested at 150 psi.
 - The sewer is encased in a watertight carrier pipe or concrete.
 - The top of the sewer is at least 18 inches below the bottom of the water pipe.
- A vertical distance of at least 12 inches (outside to outside) shall be maintained between any water and sewer mains with sewer pipes preferably crossing under water mains. The minimum vertical separation can be reduced to 6 inches for vacuum-type sewers or for gravity sewers where the sewer pipe is below the water main. The crossing shall be arranged so that all water main joints are at least 6 feet from all joints in gravity and pressure sewer pipes. This distance can be reduced to 3 feet for vacuum-type sewers. When the above specified vertical distance criteria cannot be met due to an existing underground facility conflict, smaller separations are allowed if one of the following is met:
 - The sewer pipes are designed and constructed equal to the water pipe and pressure tested at 150 psi.
 - The sewer is encased in a watertight carrier pipe or concrete.
- Air release valves shall be provided at high points of new force main sanitary sewers.
- Gravity sanitary sewers constructed within a public wellfield protection area shall be C-900 PVC or Ductile Iron Pipe. The maximum allowable exfiltration rate of gravity sanitary sewers constructed in a public wellfield protection area shall be:
 - Residential Land Uses. Fifty (50) gallons per inch pipe diameter per mile per day, based on a minimum two (2) hour test having a minimum of two (2) feet of positive head above the crown of the pipe.
 - Non-Residential Land Uses. Twenty (20) gallons per inch pipe diameter per mile per day, based on a minimum two (2) hour test having a minimum of two (2) feet of positive head above the crown of the pipe.
 - Any observed leaks or any obviously defective joints or pipes shall be replaced even when the total leakage is below that allowed.
- The maximum allowable exfiltration rate of gravity sanitary sewers constructed outside a public wellfield protection area shall be one hundred (100) gallons per inch pipe diameter per mile per day, based on a minimum two (2) hour test having a minimum of two (2) feet of positive head above the crown of the pipe. Any observed leaks or any obviously defective joints or pipes shall be replaced even when the total leakage is below that allowed.
- Forcemain sanitary sewers constructed within a public wellfield protection area shall be ductile iron, C-900 PVC, HDPE or reinforced concrete pressure sewer pipes.
- The maximum allowable exfiltration/leakage rate of forcemain sanitary sewers shall be:
 - Ductile Iron, C-900 PVC, HDPE and PVC Pipe. The allowable leakage rate specified in American Water Works Association Standard (AWWAS) C600-82 at a test pressure of 100 psi for a duration of not less than two (2) hours.
 - Reinforced Concrete Pressure Pipe. Half (1/2) the allowable leakage rate specified in AWWA C600-82 at a test pressure of 100 psi for a duration of not less than two (2) hours.
 - Any observed leaks or any obviously defective joints or pipes shall be replaced even when the total leakage is below that allowed.
- The contractor shall verify nature, depth, and character of existing underground utilities prior to start of construction.
- In no case shall a contractor install utility pipes, conduits, cables, etc. in the same trench above an existing water or sewer pipe except where they cross.
- If any area of the work site is found to contain buried solid waste and/or ground or ground water contamination, the following shall apply:
 - All work in the area shall follow all applicable safety requirements (e.g., OSHA, etc.) and notification must be provided to the appropriate agencies.
 - Immediately notify the Environmental Monitoring and Restoration Division (EMRD). The EMRD can be contacted at (305) 372-6700.
 - If contaminated soils and/or buried solid waste material is excavated during construction, then they require proper handling and disposal in accordance with the local, state and federal regulations. Be advised that the landfill owner/operator is the final authority on disposal and may have requirements beyond those provided by herein. If disposal within a Miami-Dade County owned landfill (Class I landfill) is appropriate and selected, please contact the Miami-Dade County Department of Solid Waste Management at (305) 594-6666 for information.
 - The reuse of contaminated soils that are not returned to the original excavation requires prior approval of a Soil Management Plan from the Environmental Monitoring and Restoration Division. The EMRD can be contacted at (305) 372-6700.
- Pumps must comply with the National Electrical Code (NEC) requirements for Class I, Group D, Division 1 locations (Explosion Proof).
- The contractor is advised that a Tree Removal/Relocation Permit may be required prior to the removal and/or relocation of tree resources. Prior to removing or relocating any trees, the Contractor shall notify the Tree and Forest Resources Section of DERM at (305) 372-6574 or via e-mail at: trf@miamidadade.gov, or contact the municipality with tree ordinance jurisdiction to obtain any required permits. Those trees not interfering with the construction shall be protected in place in accordance with the provisions of Section 24-49.5 of the Miami-Dade Code.
- Please note that the demolition, removal, and/or disturbance of existing underground utilities that contain asbestos-cement pipes (ACP) are subject to the provisions of 40 CFR-61 Subpart M. Therefore, pursuant to the provisions of 40 CFR-61-145, a NOTICE OF DEMOLITION OR ASBESTOS RENOVATION form must be filed with the Air Quality Management Division (AQMD) of DERM, at least ten (10) working days prior to starting of any work. Note that the backfilling and burial of crushed ACP would cause these locations to be considered active disposal sites and subject to 40 CFR-61.154, and 40 CFR-61.151 a year after project completion. Existing standard operating procedures, as well as applicable federal, state and local regulatory criteria, must be followed and implemented to minimize any potential release of fugitive emissions, especially during project construction activities. The AQMD can be contacted via email at asbestos@miamidadade.gov or 305-372-6925.

Rev. 4/30/2018
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GENERAL NOTES & SPECIFICATION FOR SEWER MAIN INSTALLATIONS
(NOT A PART OF M-DWASD NOTES NOR APPROVAL)

- THE CONTRACTOR SHALL MAKE EVERY REASONABLE EFFORT TO PERFORM THE WORK AND MAINTAIN SAFETY TO THE PUBLIC AND WORKERS, AND THE PROTECTION OF PROPERTY THROUGHOUT CONSTRUCTION. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA STANDARDS, AS APPLICABLE. CONTRACTOR MUST COMPLY WITH TRENCH SAFETY ACT.
- ALL UTILITY CROSSING LINES IDENTIFIED ON PLANS AND PROFILES ARE BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY UTILITY INFORMATION WITH APPROPRIATE UTILITIES AND SUNSHINE STATE ONE CALL CENTER OF FLORIDA 811. CONTRACTOR TO INCLUDE ON AS-BUILTS ACCURATE ELEVATION AND LOCATION OF ALL UTILITY CONFLICTS.
- ALL UTILITIES DAMAGED BY CONSTRUCTION MUST BE PROMPTLY REPAIRED TO THE CONDITION EXISTING PRIOR TO THE DAMAGING OF THE UTILITY. REPAIRS ARE INCIDENTAL TO THE INSTALLATION OF THE MAIN AND EXTENSIONS AND SHALL BE REPAIRED AT NO COST TO THE OWNER.
- ALL EXISTING MANHOLES, ELECTRIC BOXES, METER BOXES, AND VALVE BOXES SHALL BE ADJUSTED TO THE PROPOSED GRADE.
- PROPERTY DAMAGE RESULTING FROM WORK REQUIRED BY THIS CONTRACT SHALL BE CLEANED UP, REPAIRED OR REPLACED AT NO COST TO OWNER.
- CONTRACTOR SHALL PROVIDE ALL MAINS, ALL FITTINGS, ATTACHMENTS, AND EQUIPMENT REQUIRED TO PERFORM TESTING PER M-DWASD STANDARDS. PIPE AND FITTINGS SHALL BE RESTRAINED IN ACCORDANCE WITH M-DWASD STANDARD DETAIL GS 2.0 (1 THRU 5 OF 5)
- THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF ALL INSPECTIONS.
- ALL TRENCHES TO BE OVER-EXCAVATED A MINIMUM OF 6" TO PROVIDE FOR INSTALLATION OF ROCK BEDDING IN ACCORDANCE WITH M-DWASD STANDARDS.
- SURFACE RESTORATION, PAVEMENT REPLACEMENT, SIDEWALK REPLACEMENT, TRENCH BACKFILLING AND COMPACTION SHALL COMPLY WITH M-DWASD STANDARD DETAILS GS1.9, SS18.0, A1.0, A1.1 AND A4.0, M-DCFPD STANDARD DETAIL R21.1 AND THE APPLICABLE CURRENT CITY OF MIAMI PUBLIC WORKS, M-DCFPD AND FDOT STANDARDS.
- CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING SEWER LATERALS PRIOR TO THE CONSTRUCTION OF THE SANITARY SEWER CONNECTIONS. CONTRACTOR SHALL ADJUST THE ALIGNMENT OF THE SEWER CONNECTION AND PROVIDE THE REQUIRED FITTINGS AND CLEANOUTS AS NEEDED. ALL MODIFICATIONS TO ALIGNMENT SHALL BE CLEARLY RECORDED IN THE AS-BUILT DOCUMENTS.
- THE APPROXIMATE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS WERE PROVIDED BY THE RESPECTIVE UTILITY COMPANIES. THE EXACT HORIZONTAL AND VERTICAL LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING IF "OTHER" UTILITIES (NOT SHOWN IN THE PLANS) EXIST WITHIN THE AREA OF CONSTRUCTION. SHOULD THERE BE UTILITY CONFLICTS THAT WERE NOT ANTICIPATED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- THE PERMITEE WILL ENSURE THAT NO UNSAFE AREA(S) FOR PEDESTRIAN WILL REMAIN DURING ANY TIME OF CONSTRUCTION. PEDESTRIAN CONTROL FOR CLOSURE OF ROADS AND SIDEWALKS SHALL BE IN ACCORDANCE WITH THE F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX SERIES 600.
- ACCESS TO REMAIN OPEN AT ALL TIMES. THE PERMITEE SHALL PROVIDE AND MAINTAIN SAFE TEMPORARY ACCESS TO ALL ADJACENT PROPERTY AT ALL TIMES AND SHALL MAINTAIN ACCOMMODATIONS FOR INTERSECTING AND CROSSING TRAFFIC WITHIN THE CONSTRUCTION ZONE. NO ROAD OR STREET CROSSING SHALL BE BLOCKED OR UNDULY RESTRICTED AS DETERMINED BY THE ENGINEER.

NOT A PART OF MDWASD NOTES OR APPROVAL

SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

WATER AND SEWER NOTES

SHEET TITLE:

LICENSED PROFESSIONAL
ALBERTO P. HERRERA, P.E.
FLORIDA LICENSE NUMBER
59357

DATE:

No.	REVISIONS - SUBMITTALS	DATE

PAGE No. SHEET No. C-600

1. ALL MATERIALS AND LABOR UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE MIAMI-DADE WATER AND SEWER DEPARTMENT AND SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS AVAILABLE AND ON FILE WITH THE DEPARTMENT. SUBMIT SHOP DRAWINGS FOR ALL WATERLINES.

- COVER OVER WATER OR SEWER FORCE MAINS SHALL BE 4"-0" MIN.
- ALL MAIN LINE VALVES SHALL BE INSTALLED COMPLETE WITH 10" RISER PIPES AND NO. 3 OR 53 VALVE BOXES FIRE HYDRANTS AND SERVICE VALVES SHALL BE INSTALLED COMPLETE WITH 6" RISER PIPES AND NO. 2 VALVE BOXES.
- ALL FORCE MAIN SERVICE CONNECTIONS INTO PRESSURE TRANSMISSION MAINS SHALL HAVE A SHUT OFF VALVE AND CHECK VALVE AT THE POINT OF ENTRY.
- ALL GRAVITY SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DEPARTMENT STANDARDS.
- ALL WATER METERS WILL BE INSTALLED BY THE MIAMI-DADE WATER AND SEWER DEPARTMENT, PROVIDING THE APPROPRIATE CHARGES HAVE BEEN PREPAID.
- FIRE HYDRANT REQUIREMENTS (NUMBER AND LOCATION) SHALL BE AS REQUIRED BY MIAMI-DADE COUNTY FIRE DEPARTMENT OR THE APPROPRIATE FIRE AGENCY WITH INSTALLATION IN ACCORDANCE WITH DEPARTMENT STANDARDS.
- CONTRACTOR MUST CALL MDWASD INSPECTION DIVISION FOR A PRECONSTRUCTION MEETING 2 FULL BUSINESS DAYS PRIOR TO PROPOSED START OF CONSTRUCTION. CONTACT ONE CALL CENTER 48 HRS PRIOR TO EXCAVATION.
- CONTRACT INSPECTOR WILL INSPECT ANY FACILITIES APPROVED BY THE DEPARTMENT. ALL OTHER REQUIREMENTS OF THE PERMITTING AGENCY SHALL BE IN ACCORDANCE WITH THEIR STANDARDS AND REQUIREMENTS.
- WORK PERFORMED UNDER THIS PROJECT WILL NOT BE CONSIDERED AS COMPLETE UNTIL FINAL ACCEPTANCE OF THE SYSTEM BY THE DEPARTMENT AND UNTIL THE FOLLOWING DOCUMENTS ARE RECEIVED AND APPROVED BY THE DEPARTMENT:
 - EASEMENTS, IF REQUIRED
 - CONTRACTOR'S WAIVER AND RELEASE OF LIEN
 - ABSOLUTE BILL OF SALE
 - CONTRACTOR'S LETTER OF WARRANTY (I.E. LETTER AGREEMENT)
 - DEVELOPER'S CONTRACT BOND (I.E. CONTRACT AGREEMENT)
- "RECORD DRAWING" PRINTS (24"x 36") SHOWING SPECIFIC LOCATIONS, DEPTH, ETC. OF ALL WATER AND SEWER FACILITIES AS LOCATED BY A LICENSED SUPERVISOR & MAPPER, ALONG WITH PRINTS OF "RECORD DRAWINGS" WHICH HAVE BEEN SIGNED AND SEALED BY A REGISTERED SURVEYOR & MAPPER. (No. OF PRINTS: 3-FOR WATER, 4-FOR GRAVITY SEWER AND 5-FOR FORCE MAIN OR PUMP STATION PROJECTS). Submitted of final CAD files required.
- H.A.S. LETTER OF RELEASE REQUIRED FOR ALL WATER PROJECTS
- BILL OF SALE SKETCH (96"x 11") FOR WATER AND SEWER, SCHEMATICALLY

- ALL NEW CONNECTIONS FROM EXISTING DEPARTMENT MAINS TO BE MADE BY DEPARTMENT FORCES ONLY. THE CONTRACTOR TO EXCAVATE AT REQUIRED LOCATIONS, PROVIDE AND INSTALL MATERIAL WITH FITTINGS, PRIOR TO TAP.
- AN APPROVED PAVING AND DRAINAGE PLAN MUST BE SUBMITTED TO MDWASD FOR ALL NEW SUBDIVISIONS PRIOR TO APPROVAL OF WATER AND SEWER PERMIT PLANS, UPON REQUEST.
- UNLESS OTHERWISE SPECIFIED, ALL TAPS 20 INCHES AND SMALLER FOR CONNECTIONS TO EXISTING MAINS WILL BE DONE BY DEPARTMENT FORCES. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE PERMITTED TO TAP EXISTING MAINS IN THE SIZE RANGE SPECIFIED ABOVE. THE TAPPING SLEEVE AND TAPPING VALVE ARE FURNISHED AND INSTALLED BY THE CONTRACTOR UNDER THE SUPERVISION OF THE INSPECTOR.

MIAMI-DADE COUNTY	ISSUE DATE	APPROVED BY	STANDARD DETAIL	CROSS REF.	SPEC. REF.
Water & Sewer Department	03/01/2010	V.F.C.	STANDARD REQUIREMENTS WATER AND SEWER CONSTRUCTION	GS	0.5
	07/20/2016	D.V.			

NOT A PART OF MDWASD NOTES OR APPROVAL

FOR ALL PROJECTS WHERE REMOVAL OF UTILITY LINES IS PROPOSED

- ALL EXISTING UTILITIES BEING REMOVED AND/OR RELOCATED MUST REMAIN ACTIVE AND IN SERVICE, UNTIL SUCH TIME WHEN NEW REPLACING UTILITIES HAVE BEEN INSTALLED, IN SERVICE, ACCEPTED BY THE DEPARTMENT AND ALL RELATED SERVICES FROM THE EXISTING MAINS HAVE BEEN TRANSFERRED TO THE NEW ONES, BY M-DWASD FORCES AT OWNER'S EXPENSE AS APPLICABLE.

- ALL WATER AND/OR SEWER FACILITIES LOCATED IN PRIVATE PROPERTY SHALL BE REMOVED AFTER ALL INSTALLED SERVICES FROM THEM HAVE BEEN TRANSFERRED TO THE ALREADY INSTALLED AND IN SERVICE NEW MAINS. ANY ASSOCIATED EXCLUSIVE EASEMENTS SHALL BE CLOSED AND RELEASED AFTER THE REMOVAL OF THE EXISTING WATER AND/OR SEWER FACILITIES.

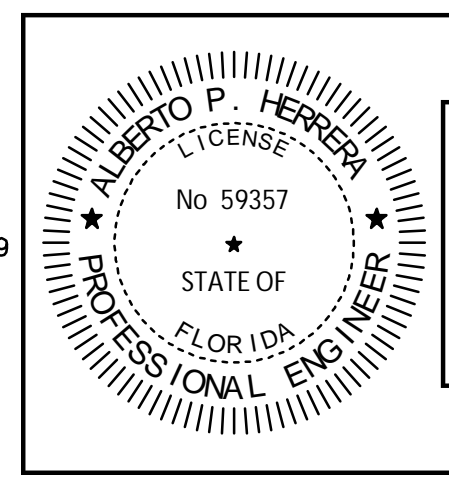
CONTAMINATION NOTES:

- NO PORTION OF THE PROPOSED WATER MAIN WILL TRAVERSE THROUGH AN AREA KNOWN TO BE CONTAMINATED.
- THE PROPOSED WATER MAIN WILL BE LOCATED SUCH THAT A MINIMUM OF 1-FOOT SEPARATION BETWEEN THE HIGH WATER TABLE AND THE BOTTOM OF THE PIPE WILL BE PROVIDED.
- IF CONTAMINATION OR SOLID WASTE IS ENCOUNTERED DURING THE INSTALLATION OF THE WATER MAIN, THE WORK WITHIN THESE AREAS SHALL CEASE AND THE RER DEPARTMENT SHALL BE NOTIFIED.
- IF CONTAMINATION IS ENCOUNTERED ADEQUATE MEASURE SHALL BE IMPLEMENTED, INCLUDING AS APPLICABLE BUT NOT LIMITED TO:
 - ALL D.I.P. PIPES. TO BE POLYWRAPPED AND ZINC COATED.
 - ALL JOINTS SHALL BE EQUIPPED WITH VITON "O" GASKETS.
 - LINE TRENCH WITH SEMI PERMEABLE MEMBRANE.
 - ONLY CLEAN UNCONTAMINATED SOIL SHALL BE USED FOR BACKFILL. ANY CONTAMINATED SOILS SHALL BE PROPERLY DISPOSED OF

- AT THE COMPLETION OF ANY WATER AND SEWER JOB EITHER DONATION OR CONTRACT, THE CONTRACTOR SHALL SUBMIT:
 - RECORD DRAWING PRINTS WHICH HAVE BEEN SIGNED AND SEALED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER (QTY. OF PRINTS AS REQUIRED BY THE DEPARTMENT).
- "RECORD DRAWING" FORMAT:
 - 24"x 36" PRINTS
 - PDF FILE
 - CADD FILE (DWG OR DXF) ROTATED AND TRANSLATED TO STATE PLANE COORDINATES NAD 83 FLORIDA EAST ZONE
 - THE WORDS "RECORD DRAWING" IN LARGE LETTERS
 - SEPARATE WATER AND SEWER PROFILE
 - PREFERRED SCALE TO BE 1"= 40' HORIZONTALLY AND 1"= 4' VERTICALLY*
 - STREET NOMENCLATURE
 - SEPARATE RECORD DRAWINGS FOR WATER AND SEWER
 - STATIONING STARTING WITH 0+00 AT PERMANENT REFERENCE POINT (I.E. Q, S, ETC.) OR AS SHOWN ON DESIGN PERMIT PLANS, AND TO RUN CONTINUOUSLY TO END OF MAIN
 - EASEMENTS, IF ANY, TIED TO PERMANENT REFERENCE POINT
 - IDENTIFY ALL CONTROL LINES (I.E. BLDG. LINE, PROPERTY LINE, R/W, ETC.)
 - ALL "PROPOSED" INFORMATION TO BE REMOVED FROM PRINTS, LEAVING ONLY RECORD DRAWING INFORMATION REFLECTED IN DRAWINGS
- WATER "RECORD DRAWINGS" MUST INCLUDE:
 - PLANS SHOWING PIPE SIZE, MATERIAL AND OFFSET OF MAIN, DEFLECTIONS (IF ANY), STATION OF SERVICES, HYDRANTS, VALVES, FITTINGS, IF ANY, ALL IN STATE PLANE COORDINATES. UTILITY CROSSINGS SHALL BE CLEARLY IDENTIFIED AND LOCATED.
 - PROFILE SHOWING TOP OF GROUND AND TOP OF PIPE ELEVATIONS AT EVERY 100' STATION AND AT ANY CHANGE IN GRADE (WITH CORRESPONDING STATION), PIPE SIZE AND PIPE MATERIALS REFERENCED TO PLAN.
- SEWER "RECORD DRAWINGS" MUST INCLUDE:
 - PLAN SHOWING MANHOLE NUMBER, PIPE SIZE AND PIPE MATERIAL OF PIPE, DEFLECTION, SLOPE OF GRAVITY SEWER, LOCATION OF LATERALS WITH REFERENCE TO MANHOLE AND CLEANOUTS.
 - THE NORTHERLY AND EASTERLY COORDINATES ON ALL FIELD OBTAINED MEASUREMENTS AND PROVIDED ON ALL RECORD DRAWING SUBMITTALS
 - PROFILE SHOWING MANHOLE NUMBER (AS PER PLAN), RIM AND INVERT ELEVATIONS (IF MORE THAN ONE INVERT, LABEL NORTH, SOUTH, ETC.), AND STATION STARTING AT 0+00 AT DOWNSTREAM MANHOLE.
- FORCE MAIN "RECORD DRAWING" SAME AS WATER MAIN.
- EACH RECORD DRAWING SHALL SHOW THE FLORIDA STATE PLANE COORDINATES (CURRENT READJUSTMENT) OF ALL THE MANHOLES AND VALVES AND OF AT LEAST TWO HORIZONTAL CONTROL POINTS PROPERLY IDENTIFIED AND LOCATED WITHIN THE PROJECT.

* OTHER SCALE MAY BE PERMITTED, BUT MUST BE APPROVED BY THE DEPARTMENT PRIOR TO PREPARATION OF DRAWINGS.

MIAMI-DADE COUNTY	ISSUE DATE	APPROVED BY	STANDARD DETAIL	CROSS REF.	SPEC. REF.
Water & Sewer Department	03/11/2009	V.F.C.	"RECORD DRAWING" REQUIREMENTS	GS	0.5
	07/20/2016	D.V.			

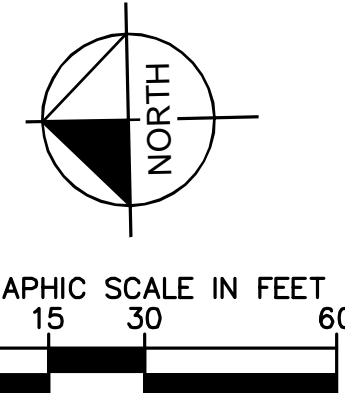


THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ALBERTO P. HERRERA, P.E., ON THE DATE ADJACENT O THE SEAL
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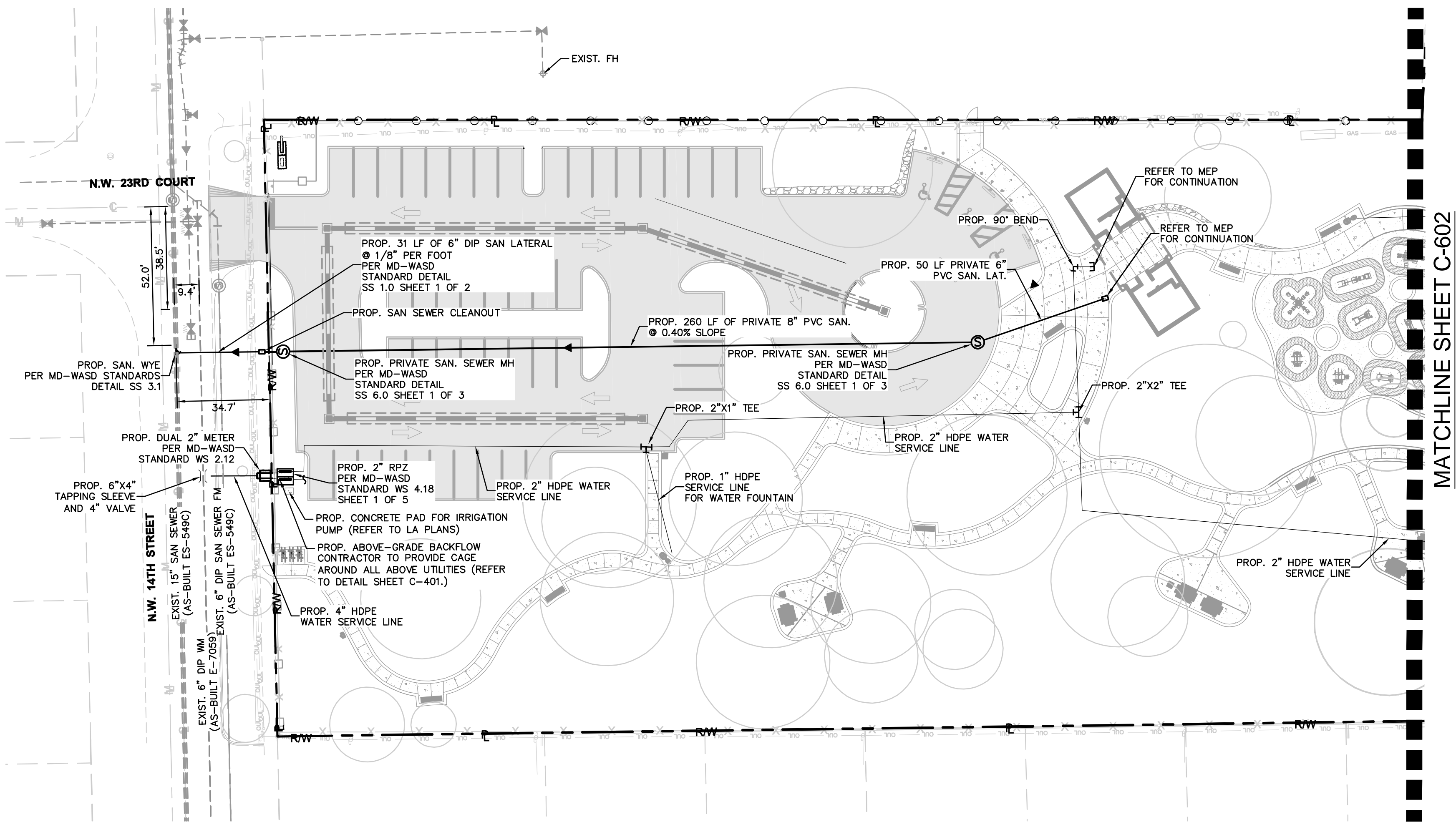
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Check positive response codes before you dig!

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LEGEND:

- EXIST. AND PROP. RIGHT-OF-WAY LINE OR PROPERTY LINE
- CENTER LINE OF ROADWAY
- MONUMENT LINE
- PROP. ASPHALT PAVEMENT (PROP. 28,165 SF)
- PROP. LANDSCAPING (SEE LANDSCAPE SET)
- PROP. SANITARY SEWER SERVICE LATERAL AND CLEANOUT
- PROP. WATER SERVICE LINE
- PROP. SANITARY SEWER LATERAL AND MANHOLE
- PROP. STORM DRAINAGE PIPE
- PROP. EXFILTRATION TRENCH
- EXIST. GAS LINE



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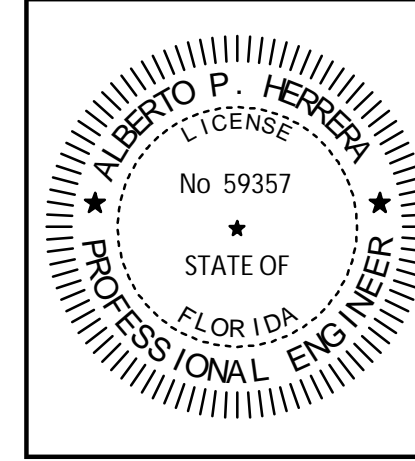
PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

WATER AND SEWER PLAN
 SHEET TITLE:

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No.	REVISIONS - SUBMITTALS	DATE

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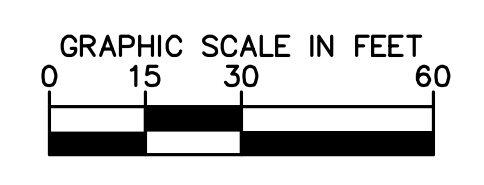
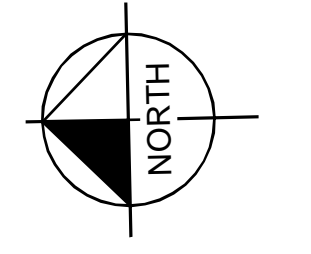
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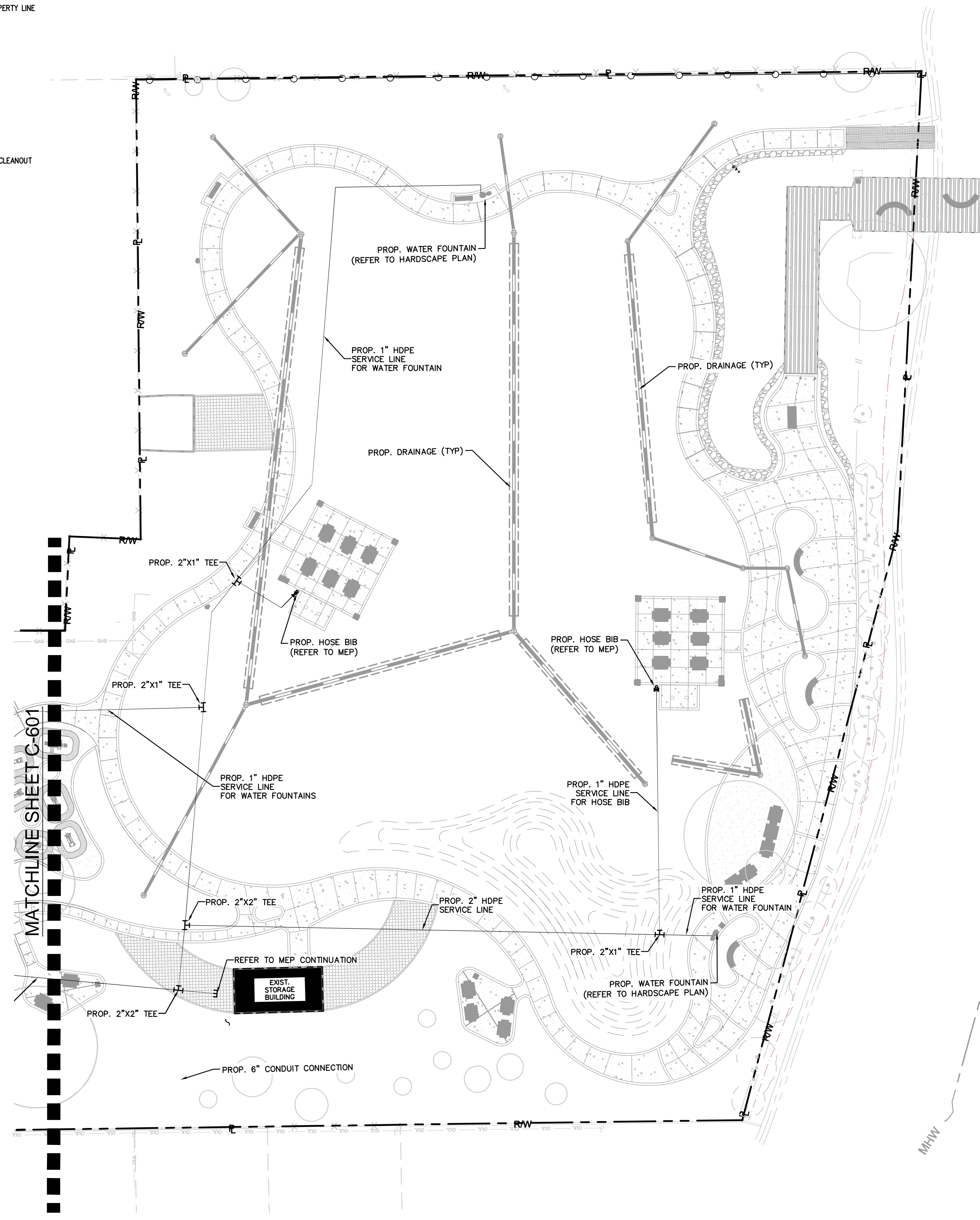
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- PROP. STORM DRAINAGE PIPE
- PROP. EXFILTRATION TRENCH
- EXIST. GAS LINE



MATCHLINE SHEET C-601

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WATER AND SEWER PLAN

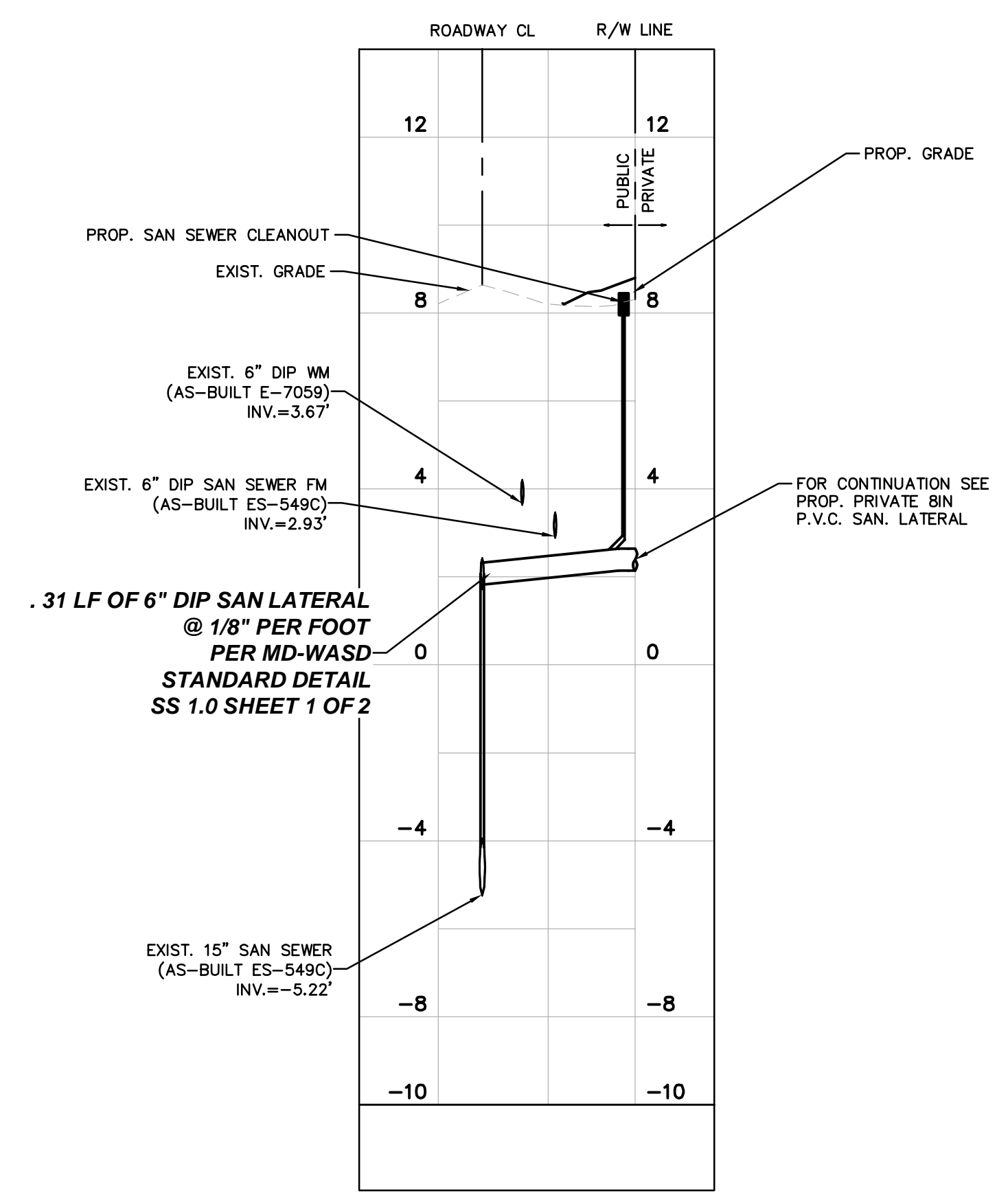
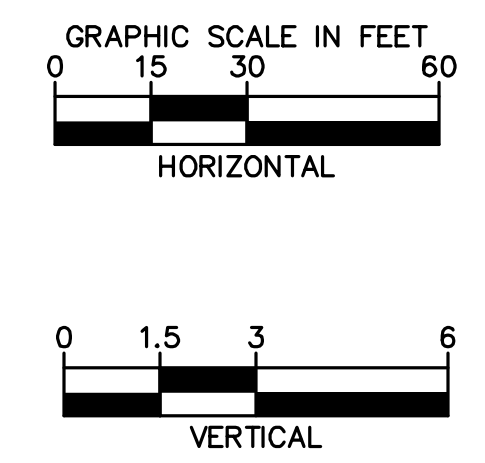
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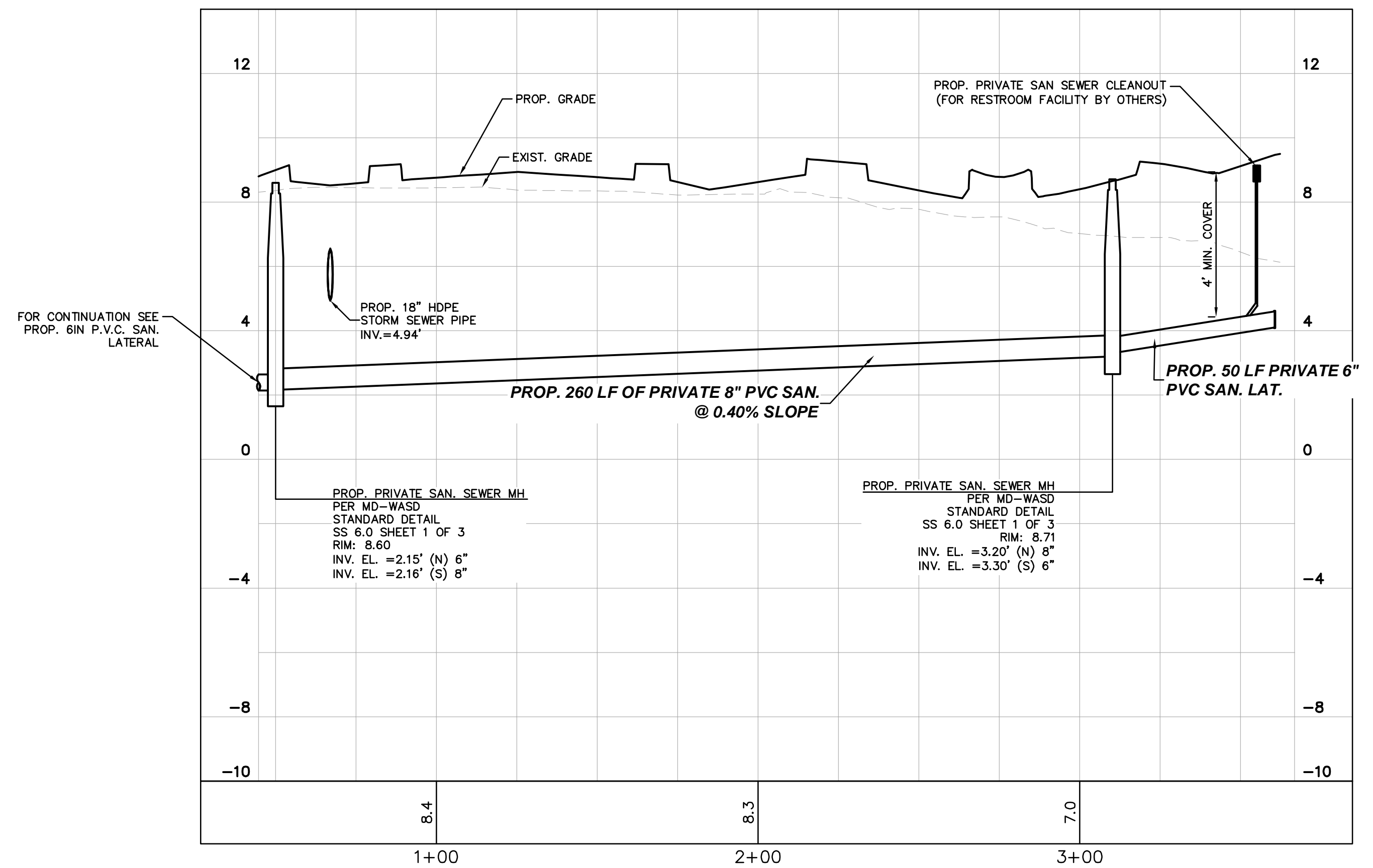
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P:\Head By:Rubino, Todd Sheet Sat:PBA Fern Isle Layout.C=603 WATER AND SEWER PROFILES April 24, 2019 12:50:03pm K:\CRG_LURC\0436430051.pba fern isla\CIVIL\CA00\plansheets\C-603 WATER AND SEWER PROFILES.dwg

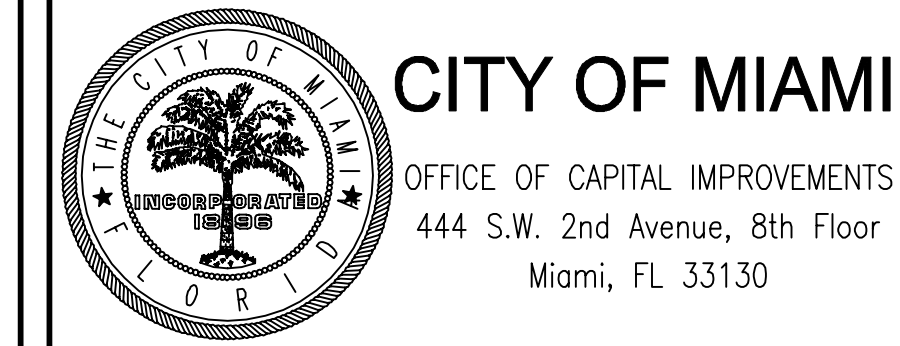


PROP. 6IN P.V.C. SAN. LATERAL



PROP. PRIVATE 8IN P.V.C. SAN. LATERAL

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PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

WATER AND SEWER PROFILES

SHEET TITLE:

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ALBERTO P. HERRERA, P.E.
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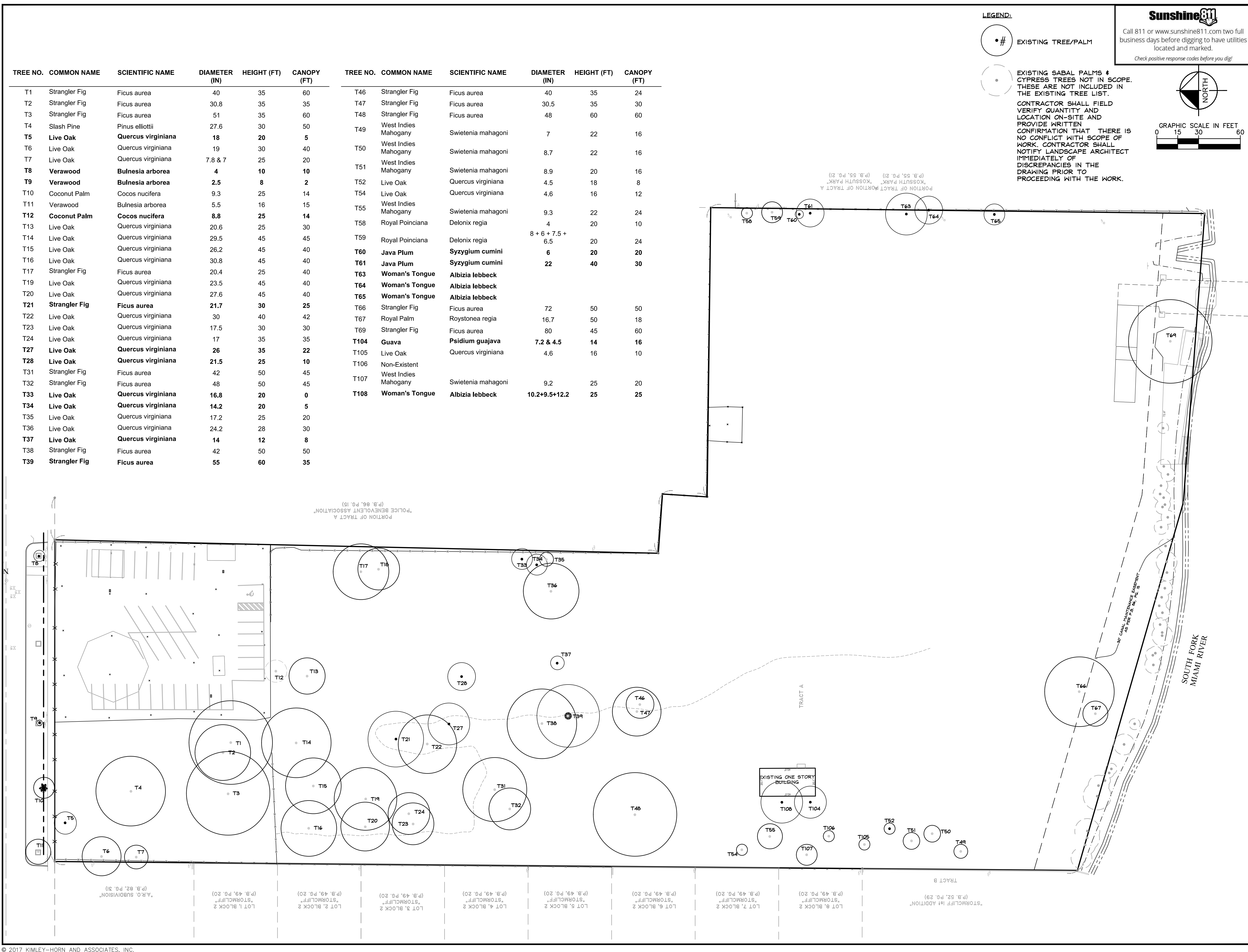
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TREE NO.	COMMON NAME	SCIENTIFIC NAME	DIAMETER (IN)	HEIGHT (FT)	CANOPY (FT)	TREE NO.	COMMON NAME	SCIENTIFIC NAME	DIAMETER (IN)	HEIGHT (FT)	CANOPY (FT)
T1	Strangler Fig	Ficus aurea	40	35	60	T46	Strangler Fig	Ficus aurea	40	35	24
T2	Strangler Fig	Ficus aurea	30.8	35	35	T47	Strangler Fig	Ficus aurea	30.5	35	30
T3	Strangler Fig	Ficus aurea	51	35	60	T48	Strangler Fig	Ficus aurea	48	60	60
T4	Slash Pine	Pinus elliottii	27.6	30	50	T49	West Indies Mahogany	Swietenia mahagoni	7	22	16
T5	Live Oak	Quercus virginiana	18	20	5	T50	West Indies Mahogany	Swietenia mahagoni	8.7	22	16
T6	Live Oak	Quercus virginiana	19	30	40	T51	West Indies Mahogany	Swietenia mahagoni	8.9	20	16
T7	Live Oak	Quercus virginiana	7.8 & 7	25	20	T52	Live Oak	Quercus virginiana	4.5	18	8
T8	Verawood	Bulnesia arborea	4	10	10	T54	Live Oak	Quercus virginiana	4.6	16	12
T9	Verawood	Bulnesia arborea	2.5	8	2	T55	West Indies Mahogany	Swietenia mahagoni	9.3	22	24
T10	Coconut Palm	Cocos nucifera	9.3	25	14	T58	Royal Poinciana	Delonix regia	4	20	10
T11	Verawood	Bulnesia arborea	5.5	16	15	T59	Royal Poinciana	Delonix regia	8 + 6 + 7.5 + 6.5	20	24
T12	Coconut Palm	Cocos nucifera	8.8	25	14	T60	Java Plum	Syzygium cumini	6	20	20
T13	Live Oak	Quercus virginiana	20.6	25	30	T61	Java Plum	Syzygium cumini	22	40	30
T14	Live Oak	Quercus virginiana	29.5	45	45	T63	Woman's Tongue	Albizia lebbek			
T15	Live Oak	Quercus virginiana	26.2	45	40	T64	Woman's Tongue	Albizia lebbek			
T16	Live Oak	Quercus virginiana	30.8	45	40	T65	Woman's Tongue	Albizia lebbek			
T17	Strangler Fig	Ficus aurea	20.4	25	40	T66	Strangler Fig	Ficus aurea	72	50	50
T19	Live Oak	Quercus virginiana	23.5	45	40	T67	Royal Palm	Roystonea regia	16.7	50	18
T20	Live Oak	Quercus virginiana	27.6	45	40	T69	Strangler Fig	Ficus aurea	80	45	60
T21	Strangler Fig	Ficus aurea	21.7	30	25	T104	Guava	Psidium guajava	7.2 & 4.5	14	16
T22	Live Oak	Quercus virginiana	30	40	42	T105	Live Oak	Quercus virginiana	4.6	16	10
T23	Live Oak	Quercus virginiana	17.5	30	30	T106	Non-Existent				
T24	Live Oak	Quercus virginiana	17	35	35	T107	West Indies Mahogany	Swietenia mahagoni	9.2	25	20
T27	Live Oak	Quercus virginiana	26	35	22	T108	Woman's Tongue	Albizia lebbek	10.2+9.5+12.2	25	25
T28	Live Oak	Quercus virginiana	21.5	25	10						
T31	Strangler Fig	Ficus aurea	42	50	45						
T32	Strangler Fig	Ficus aurea	48	50	45						
T33	Live Oak	Quercus virginiana	16.8	20	0						
T34	Live Oak	Quercus virginiana	14.2	20	5						
T35	Live Oak	Quercus virginiana	17.2	25	20						
T36	Live Oak	Quercus virginiana	24.2	28	30						
T37	Live Oak	Quercus virginiana	14	12	8						
T38	Strangler Fig	Ficus aurea	42	50	50						
T39	Strangler Fig	Ficus aurea	55	60	35						

LEGEND:

● # EXISTING TREE/PALM

○ EXISTING SABAL PALMS & CYPRESS TREES NOT IN SCOPE. THESE ARE NOT INCLUDED IN THE EXISTING TREE LIST.

CONTRACTOR SHALL FIELD VERIFY QUANTITY AND LOCATION ON-SITE AND PROVIDE WRITTEN CONFIRMATION THAT THERE IS NO CONFLICT WITH SCOPE OF WORK. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY OF DISCREPANCIES IN THE DRAWING PRIOR TO PROCEEDING WITH THE WORK.

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CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

SHEET TITLE:
EXISTING TREE PLAN

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No.	REVISIONS - SUBMITTALS	DATE
01	PERMIT SET REV 01	03/08/19
02	PERMIT SET REV 02	04/26/19

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TREE NO.	COMMON NAME	SCIENTIFIC NAME	DIAMETER (IN)	HEIGHT (FT)	CANOPY (FT)	DISPOSITION
T1	Strangler Fig	Ficus aurea	40	35	60	Remain
T2	Strangler Fig	Ficus aurea	30.8	35	35	Remain
T3	Strangler Fig	Ficus aurea	51	35	60	Remain
T4	Slash Pine	Pinus elliottii	27.6	30	50	Remain
T5	Live Oak	Quercus virginiana	18	20	5	Remove (Nearly Dead)
T6	Live Oak	Quercus virginiana	19	30	40	Remain
T7	Live Oak	Quercus virginiana	7.8 & 7	25	20	Remain
T8	Verawood	Bulnesia arborea	4	10	10	Remove (Conflict w/ Signage)
T9	Verawood	Bulnesia arborea	2.5	8	2	Remove (Nearly Dead)
T10	Coconut Palm	Cocos nucifera	9.3	25	14	Remain
T11	Verawood	Bulnesia arborea	5.5	16	15	Remain
T12	Coconut Palm	Cocos nucifera	8.8	25	14	Relocate (Design Conflict)
T13	Live Oak	Quercus virginiana	20.6	25	30	Remain
T14	Live Oak	Quercus virginiana	29.5	45	45	Remain
T15	Live Oak	Quercus virginiana	26.2	45	40	Remain
T16	Live Oak	Quercus virginiana	30.8	45	40	Remain
T17	Strangler Fig	Ficus aurea	20.4	25	40	Remain
T19	Live Oak	Quercus virginiana	23.5	45	40	Remain
T20	Live Oak	Quercus virginiana	27.6	45	40	Remain
T21	Strangler Fig	Ficus aurea	21.7	30	25	Remove (Poor Condition)
T22	Live Oak	Quercus virginiana	30	40	42	Remain
T23	Live Oak	Quercus virginiana	17.5	30	30	Remain
T24	Live Oak	Quercus virginiana	17	35	35	Remain
T27	Live Oak	Quercus virginiana	26	35	22	Remove (Poor Condition)
T28	Live Oak	Quercus virginiana	21.5	25	10	Remove (Dead/Poor Condition)
T31	Strangler Fig	Ficus aurea	42	50	45	Remain
T32	Strangler Fig	Ficus aurea	48	50	45	Remain
T33	Live Oak	Quercus virginiana	16.8	20	0	Remove (Dead)
T34	Live Oak	Quercus virginiana	14.2	20	5	Remove (Nearly Dead)
T35	Live Oak	Quercus virginiana	17.2	25	20	Remain
T36	Live Oak	Quercus virginiana	24.2	28	30	Remain
T37	Live Oak	Quercus virginiana	14	12	8	Remove (Nearly Dead)
T38	Strangler Fig	Ficus aurea	42	50	50	Remain
T39	Strangler Fig	Ficus aurea	55	60	35	Remove (Poor Condition)
T46	Strangler Fig	Ficus aurea	40	35	24	Remain
T47	Strangler Fig	Ficus aurea	30.5	35	30	Remain
T48	Strangler Fig	Ficus aurea	48	60	60	Remain
T49	West Indies Mahogany	Swietenia mahagoni	7	22	16	Remain
T50	West Indies Mahogany	Swietenia mahagoni	8.7	22	16	Remain

TREE NO.	COMMON NAME	SCIENTIFIC NAME	DIAMETER (IN)	HEIGHT (FT)	CANOPY (FT)	DISPOSITION
T51	West Indies Mahogany	Swietenia mahagoni	8.9	20	16	Remain
T52	Live Oak	Quercus virginiana	4.5	18	8	Remain
T54	Live Oak	Quercus virginiana	4.6	16	12	Remain
T55	West Indies Mahogany	Swietenia mahagoni	9.3	22	24	Remain
T58	Royal Poinciana	Delonix regia	4	20	10	Remain
T59	Royal Poinciana	Delonix regia	8 + 6 + 7.5 + 6.5	20	24	Remove
T60	Java Plum	Syzygium cumini	6	20	20	Remove
T61	Java Plum	Syzygium cumini	22	40	30	Remove
T63	Woman's Tongue	Albizia lebbek				Remove (Prohibited)
T64	Woman's Tongue	Albizia lebbek				Remove (Prohibited)
T65	Woman's Tongue	Albizia lebbek				Remove (Prohibited)
T66	Strangler Fig	Ficus aurea	72	50	50	Remain
T67	Royal Palm	Roystonea regia	16.7	50	18	Remain
T69	Strangler Fig	Ficus aurea	80	45	60	Remain
T104	Guava	Psidium guajava	7.2 & 4.5	14	16	Remove
T105	Live Oak	Quercus virginiana	4.6	16	10	Remain
T106	Non-Existent					
T107	West Indies Mahogany	Swietenia mahagoni	9.2	25	20	Remain
T108	Woman's Tongue	Albizia lebbek	10.2+9.5+12.2	25	25	Remove (Prohibited)

MITIGATION SUMMARY

REQUIRED MITIGATION

TOTAL DBH (IN) OF TREES TO BE REPLACED: 232.7"

40 REPLACEMENT TREES @ 16' HT, 4" DBH, 8' SPREAD

SCIENTIFIC NAME	COMMON NAME	QTY.	HT.	DBH.	SPREAD
REPLACEMENT TREES					
<i>Bulnesia arborea</i>	VERAWOOD	6	20'	4" MIN.	8' MIN.
<i>Chrysophyllum oliviforme</i>	SATINLEAF	17	16'	4" MIN.	8' MIN.
<i>Olea Capensis</i>	BLACK IRONWOOD	17	25' OAH	4" MIN.	8' MIN.
<i>Quercus virginiana</i>	SOUTHERN LIVE OAK	16	16'-0"	4" MIN.	8' MIN.

NOTE:

1. CONTRACTOR SHALL CLEAN UP AND PRUNE ALL EXISTING TREES AND PALMS UNDER THE DIRECTION OF AN ISA CERTIFIED ARBORIST.

LEGEND:

- # EXISTING TREE/PALM TO REMAIN
- ○ EXISTING SABAL PALMS & CYPRESS TREES NOT IN SCOPE
- ⊗ REMOVE
- ▨ TREE PROTECTION FENCE / BARRIER & ZONE SEE DETAIL ON SHEET L-250

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GRAPHIC SCALE IN FEET

0 15 30 60

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OFFICE OF CAPITAL IMPROVEMENTS

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Miami, FL 33130

PBA FERN ISLE PARK REDEVELOPMENT

CITY OF MIAMI, PROJECT NO. B-40543

2304 N.W. 14TH STREET, MIAMI, FL 33125

TREE DISPOSITION

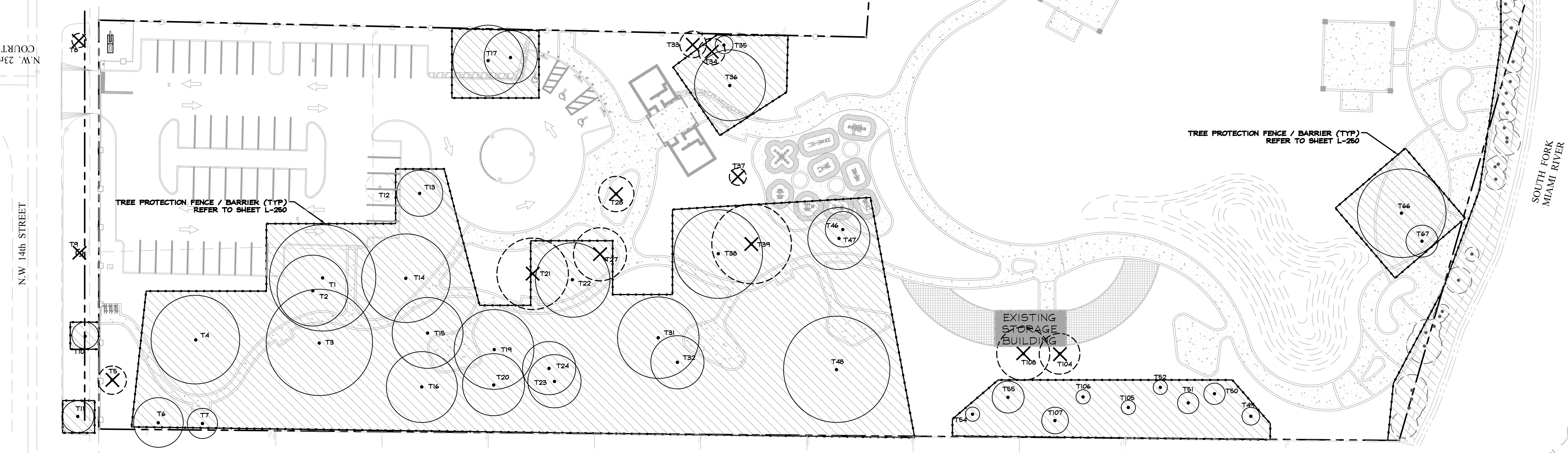
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GEORGE E. PUGL
Professional Engineer
No. LA0001706
STATE OF FLORIDA

No.	REVISIONS - SUBMITTALS	DATE
01	PERMIT SET REV 01	03/08/19
02	PERMIT SET REV 02	04/26/19



TREE REMOVAL/TRANSPLANT SPECIFICATIONS

PART 1 - EXPLANATION OF NATURAL RESOURCE PRESERVATION PROCEDURES

- The sequence of operation is critical to the protection of the trees.
- Tree canopy pruning is to compensate for root loss and damage.
 - Fertilization is to stimulate root systems to heal quickly and grow back in root-pruned areas. It also produces faster availability of food to a root system that is less efficient due to the damage incurred.
 - Root pruning is to remove the roots with a trenching procedure that is less damaging to the roots than regular construction.
 - Mulching is to increase moisture-holding capacity and keep the temperature of the soil more constant.

PART 2 - DEFINITIONS

- Combo Fence - Combination silt and natural resource protection fence (see detail).
- Critical Root Zone - The mass of roots surrounding a tree that is required by the tree to live. The critical root zone is often much larger than the canopy. Shown on the plans as dashed circles.
- DBH - Diameter Breast High - indicates the location on the trunk, approximately 4.5' above ground, to measure the diameter of a tree.
- Grade - Refers specifically to grade on the Significant Tree or Transplant Schedule. The grade of a tree refers to the overall health and appearance of the tree. The grades range from 'A' being excellent to 'D' being hazardous.
- Preserve Trees - Trees that are to be saved in place.
- Project Urban Forester - A representative, hired and paid for by the owner, that supervises the construction of the procedures shown on the natural resource plans.
- Protection Zones/Areas - Any area enclosed partially or completely by a fence shown on the natural resource plans.
- Spade Transplant - A tree transplanted using a tree spade machine.
- Transplanted Trees - Trees that are to be moved by hand, spade, crane or gantry to another location.

PART 3 - PRODUCTS FOR TREE TREATMENT

Every effort shall be made to utilize chemicals of an organic or biodegradable nature in order to offer the least impact to the natural environment. Contractor is responsible for mixing, applying, and disposal of all chemicals in accordance with strict adherence to manufacturer's directions, unless otherwise directed in these drawings.

- Chemical Treatments.
 - Recommended Fertilizer:
 - "XL Injecto Feed", product of Doggett Corp., Lebanon, New Jersey (908) 236-6335. Apply a 12/24/24 ratio with a dilution rate 1/3 more water than specified on bag.
 - Recommended Wetting Agent:
 - "APSA-80", product of Amway Corp. (800) 253-7088.
 - Mycorrhizal Treatment:
 - Plant Health Care, Inc. (800) 421-1051.
 - Insecticide Treatments.
 - "Astro", a product of FMC Corporation. (800) 321-1362.
- Fencing Materials.
 - Woven wire fence (Minimum 14.5 gauge maximum 6' mesh spacing).
 - Artic Vinyl Flagging, Color: International Orange. Forestry Suppliers Catalog (800) 647-5368. Artic Vinyl Flagging is required due to strength and longevity. No substitution without approval of Project Urban Forester.
 - 6' T-Bar Post.
 - T-Bar Post Caps.
 - Rebar Caps, Brilliant Orange mushroom type as manufactured by Mutual Industries North (800) 523-0888 or equal.
 - R-4 T-Bar Post Caps as manufactured by RammFence (800) 434-8455 or equal.

PART 4 - EXECUTION

- Tree Canopy Pruning Operation
 - Trees to be pruned shall include only trees affected by construction or as designated on Significant Tree or Transplant Schedule. This item is to be coordinated by the Project Urban Forester.
 - All pruning shall be done in accordance with ANSI A300 (Part 1) Pruning.
 - Certified Arborist shall perform all pruning.
 - Pruning shall consist of the following methods:
 - Cleaning, see Sect. 5.6.4.
 - Interfering branch removal.
 - Raising, see Sect. 5.6.4. Height to be 6' (min.) in parking lot areas only.
- Fertilization Operation
 - Only trees affected by construction or as shown on the Tree Removal Plan shall be treated.
 - Trees specified to receive fertilizer shall be treated in the fall of 2008. Preserve Tree Injectable Fertilizer Treatment. See detail sheet.
 - Mix fertilizer with a dilution rate 1/3 more water than label instructions into a tank with agitation capability (15lbs. = 133 Gallons).
 - Mix Wetting Agent at a rate of 5 oz. Per 100 gallons of fertilizer solution into same tank with fertilizer. Agitate mix.
 - Inject the mixture with a hydraulic injection system set at 100 to 150 p.s.i. for sandy soils, 200 p.s.i. for silty/clay soils, into the upper 6-12 inches of soil with a soil probe. Inject at the rate of one third (1/3) gallon at each injection site.
 - Critical Root Zone areas shall be injected, where possible, in the Critical Root Zone area plus 2' beyond Critical Root Zone, but not beyond Root Prunes. See detail.
 - Fertilizer shall be installed prior to installation of any aeration systems.

AT THE REQUEST OF THE SPECIFIER, EMPTY PRODUCT BAGS TO BE RETURNED TO THE SPECIFIER FOR PROOF OF USE.
 - Transplant Injectable Fertilizer Treatment.
 - Mix fertilizer with dilution rate 1/3 more water than label instructions into a tank with agitation capability (15lbs. = 133 Gallons).
 - Mix Wetting Agent at a rate of 5 oz. Per 100 gallons of fertilizer solution into same tank with fertilizer. Agitate mix.
 - Inject the mixture with a hydraulic injection system set at 100 to 150 p.s.i. for sandy soils, 200 p.s.i. for silty/clay soils, into the upper 6-12 inches of soil with a soil probe. Inject at the rate of one third (1/3) gallon at each injection site.
 - See transplant details on this sheet for injection locations.

EMPTY PRODUCT BAGS TO BE STOCKPILED FOR INSPECTION BY PROJECT LANDSCAPE ARCHITECT PRIOR TO DISPOSAL.
- Transplant Inoculant & Biostimulant. See Detail Sheet.
 - Use one 3 oz. Packet of MycorTree Tree Saver Transplant Mycorrhizal Transplant Inoculant for every 1-foot diameter of root ball. Mix inoculant in 10' wide topsoil ring around the root ball.
 - Mix one 4 oz. Bag of MycorTree Tree Saver Injectable Mycorrhizal Inoculant and 4 packs (to equal 1 pound) PHC BioPack per 100 gallons of water.
 - Agitate for 10 minutes.
 - Inject the mixture with a hydraulic injection system set at 100 to 150 p.s.i. for sandy soils, 200 p.s.i. for silty/clay soils, into the upper 6-12 inches of soil with a soil probe. Inject at the rate of one third (1/3) gallon at each injection site. See transplant details on this sheet for injection locations.

EMPTY PRODUCT BAGS TO BE STOCKPILED FOR INSPECTION BY PROJECT LANDSCAPE ARCHITECT PRIOR TO DISPOSAL.
- Transplant Maintenance
 - Approximately one year after planting, the Tree Relocation Contractor shall refertilize all transplants utilizing the same procedure.
- Insecticide Operation
 - Apply "Astro" as a topical solution if recommended by Project Landscape Architect or by these plans. Notify Project Landscape Architect if an infestation is noticed. Apply around base of trunk to soil line, trunk and any limb 1/3 the size of the trunk to 25'-30' high. Insure complete coverage. Reapply "Astro" 2-3 months after initial application utilizing same procedure.
 - Follow all manufacturers' recommendations concerning application when applying "Astro". Read all warning labels. Any pets, as well as, the pets food and water bowls should be removed from the area and any swimming pools should be covered. Coordinate with Project Urban Forester for further instruction.
- Root Pruning/Trenching Operation
 - Trenching locations shall be approved in the field by the Project Landscape Architect.
 - Trenching equipment that will turn at high RPM's is preferred. Trenching equipment is to be used to perform all root pruning operations. A minimum depth of three feet is required. Clean cut roots in trench on tree side with loppers or chain saw after trenching is complete.
 - The trench shall be backfilled and compacted immediately.
- Natural Resource Protection (or Tree Protection) Fencing
 - See details for types and locations.
 - Fencing is to be located accurately per plan by General Contractors Surveyor.
- Tree Removals
 - Natural Resource Contractor shall remove and discard all trees shown on the tree removal plan to be removed, see Existing Tree Schedule. All trees shown to be removed shall be felled with a chain saw and stump ground 6" below surface. Any tree shown to be removed and is in an area where compaction is critical the tree shall be felled with a chain saw and stump removed by Clearing Contractor. Care must be taken not to damage trees marked for

- Clearing Contractor is to clear all remaining trees after the Natural Resource Fencing is installed. If fence is damaged, repair is to be performed immediately. See Fence Penalties. Care must be taken not to damage trees marked for preservation.
- All wood from removal shall be hauled from the site the same day, except for tops. All tops are to be mulched and stockpiled or hauled directly to mulched areas, if scheduling permits. (See landscape plans for mulching). All excess wood chips should be hauled off site after landscaping is complete.
- Clearing Contractor is to haul off all stumps.
- All burn pits if applicable must be approved by the Project Urban Forester and owner.

G. Topsoil:

- All clean backfill/clean topsoil necessary for transplant operations shall fall within the limits of the planting specifications, located elsewhere in the contract documents.

H. Machine Dug Transplant Operation

- Dig transplant-receiving hole.
- Set spade dug root ball into receiving hole 4"-6" above existing grade.
- Wash sand or topsoil into air pockets between root ball and receiving hole.
- Install topsoil ring, 4" high, 10' wide, around perimeter of root ball. Mix MycorTree Tree Saver Mycorrhizal Transplant inoculant into topsoil ring. See Part 4 Section B for procedure. Install 4"-6" mulch from perimeter of root ball to within 6' of tree trunk.
- Cover topsoil ring with 1" of mulch and extend mulch 4"-6" deep, 6' away from perimeter of root ball.
- Water transplant.

PART 5 - PENALTIES

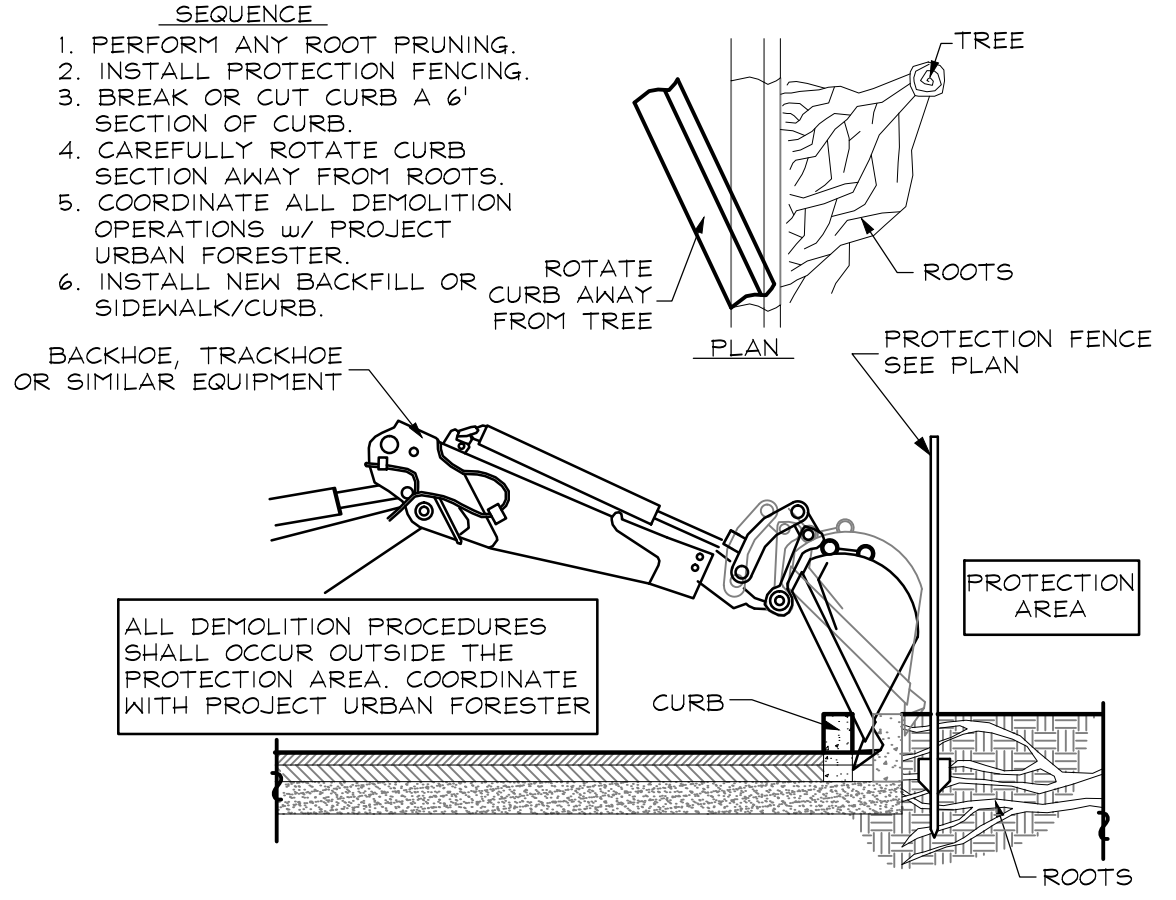
- Repair of Damaged Trees
 - If any damage to trees or other natural resources should occur by accident or negligence during the construction period, the Project Urban Forester shall appraise the damage and make recommendations to the owner for repair by the General Contractor.
 - If any tree that is designated to be saved is deemed substantially damaged or dead due to construction damage, at the sole discretion of Project Landscape Architect, the following penalties will apply:
 - Trees 1" - 12" of trunk diameter, measured at 1' from the ground will be valued at \$500.00 per diameter inch.
 - Trees 13" and above of trunk diameter measured at 4.5' from the ground will be valued at \$400.00 per diameter inch.
 - If any tree designated to be saved is removed from the site without permission of the owner's representative, the penalty will be \$600.00 per inch.
- Repair of Damaged Natural Resource Fences
 - If any damage to Natural Resource Fences should occur by accident or negligence, the General Contractor will be responsible for immediate repairs of the initial damage. Fines will be imposed as follows:
 - First time offense, a fine of \$200.00 will be imposed.
 - In the event the fence is not repaired within 24 hours to the Owner's Representative's satisfaction, an additional fine of \$100.00 per day will be imposed, until the fence is satisfactorily repaired.
 - In the event a natural resource is damaged due to fence being down, a fine of \$200.00 plus the cost of repair or replacement of the natural resource as appraised by the Project Landscape Architect will be imposed.

PART 6 - NATURAL RESOURCE PROTECTION SEQUENCE

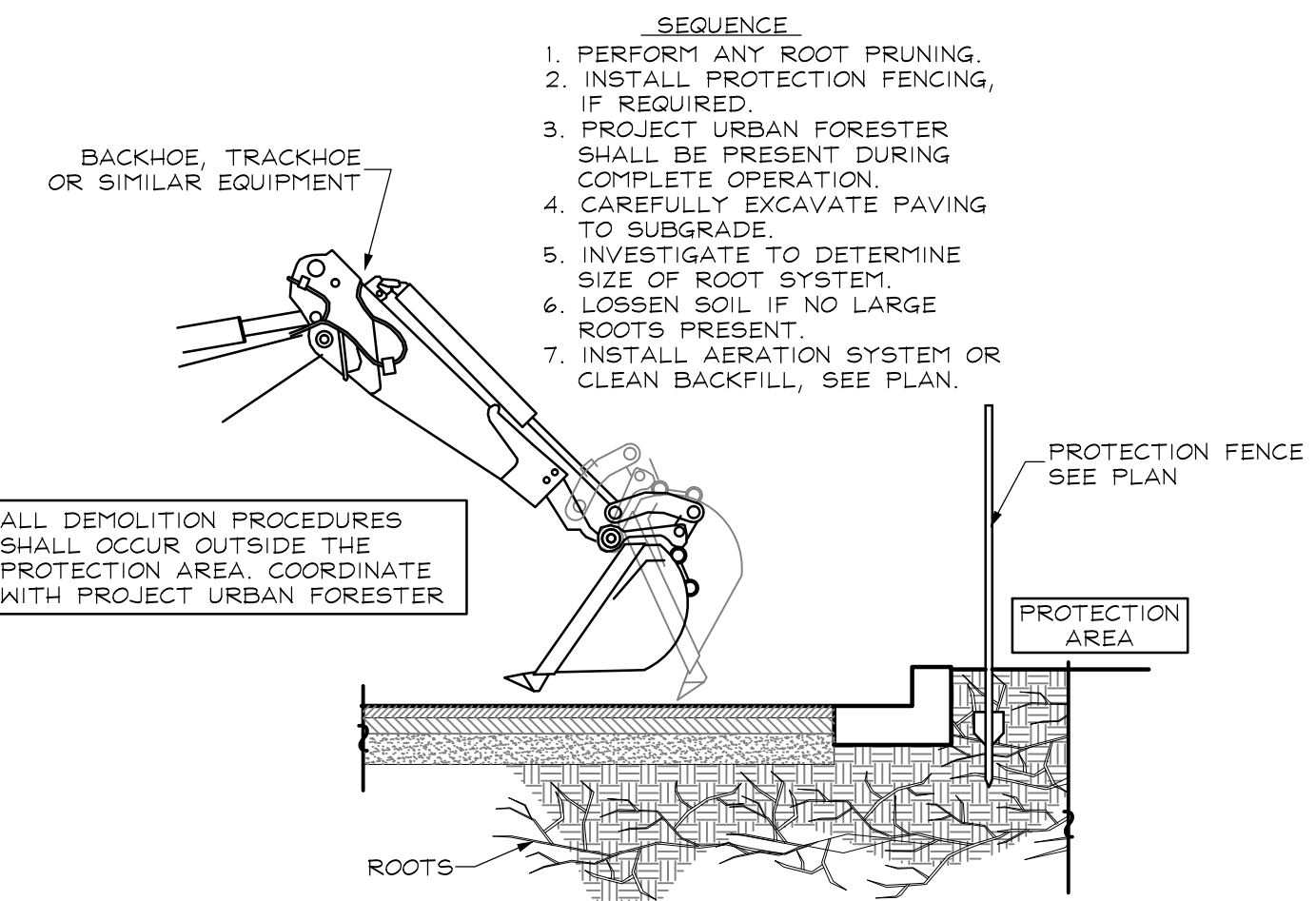
- The sequence of tree treatment and preservation measures shall be:
 - Root Pruning and Root Barriers.
 - Natural Resource Fencing.
 - Clearing and Grading.
 - Tree Pruning.
 - Fertilization.
 - Insecticide
- General Contractor's Surveyor shall stake all site improvements in order to facilitate accurate location of trenching and fencing operations.
- Maintain and repair Natural Resource Fencing during site construction operations.
- General Contractor's access to Fenced protection areas will be permitted only with approval of owner's representative.
- Perform any excavation or grading required within the fenced root zone areas by hand. This operation is to be supervised by the Project Landscape Architect or Owner's Representative.
- Limit required grading to 3" cut or fill within the fenced tree root zone areas. All grading to be supervised by the Owner's Representative.
- Clear by hand designated trees, shrubs, vines and groundcover from protected root zone areas. Do not install conduit, sprinklers, or any utility line in any critical root zone area without the approval of the Project Landscape Architect.

PART 7 - IRRIGATION

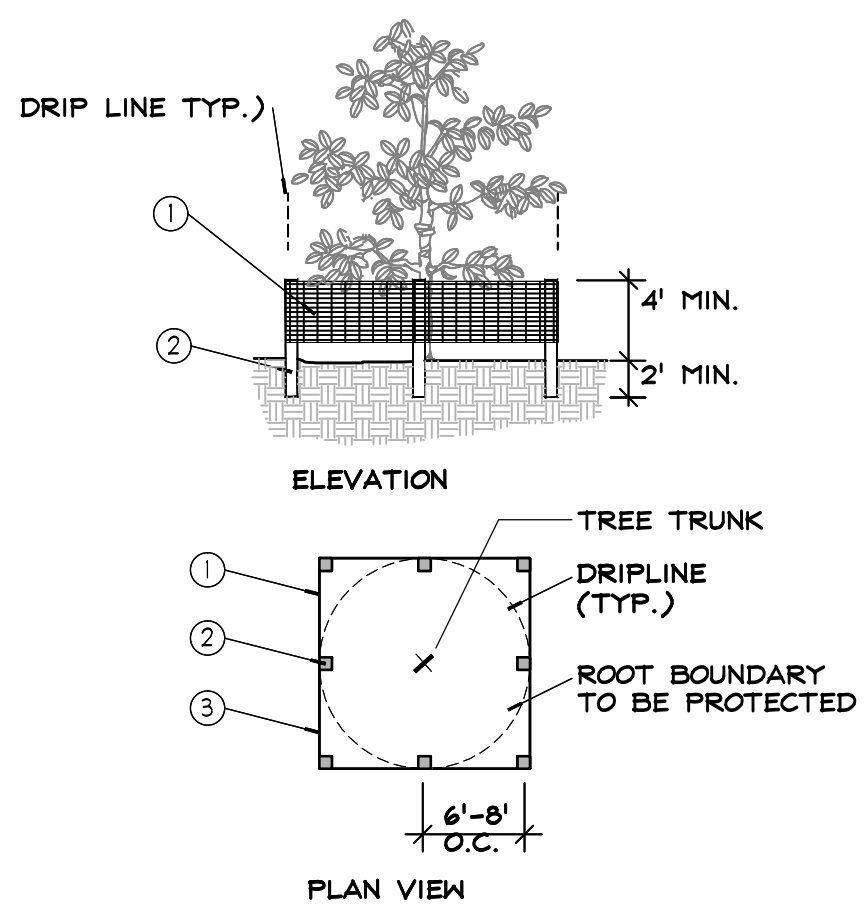
- Every effort shall be made to water the transplants as shown below. The Landscape Architect and/or Owner's Representative shall inspect all irrigation zones during the initial irrigation months and adjust settings accordingly to insure proper watering. Water in all transplants immediately after planting. Tree Relocation Contractor shall water by hand or by temporary irrigation, all transplants after planting as required by Landscape Architect or Owner's Representative until permanent irrigation is installed and operating. Irrigation Contractor shall install systems and set controllers as shown below.
- Transplant Irrigation Zones & Holding Area Zones
 - Use the following watering schedule for all transplants:
 - Set the controller to water for the following limits:
 - First 90 days = 15 minutes, 4 times a week. (0.5' per application = 2" per week)
 - 90 days - 270 days = 2 times a week (1" per application = 2" per week)
 - 270 days on = 2 times a week (0.5' per application = 1" per week)
 - Irrigation within current watering restrictions, as applicable.



A DEMOLITION PROCEDURE - CURB NTS



B DEMOLITION PROCEDURE - PAVEMENT NTS



C TREE/SHRUB PROTECTION FENCE/BARRIER DETAIL NTS

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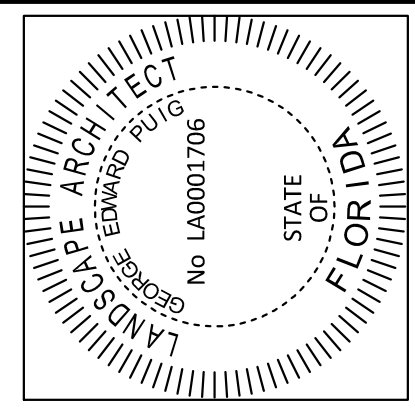
CITY OF MIAMI
 OFFICE OF CAPITAL IMPROVEMENTS
 444 S.W. 2nd Avenue, 8th Floor
 Miami, FL 33130

PBA FERNISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

TREE DISPOSITION NOTES & DETAILS

SHEET TITLE:

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY GEORGE E. PUGI, ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

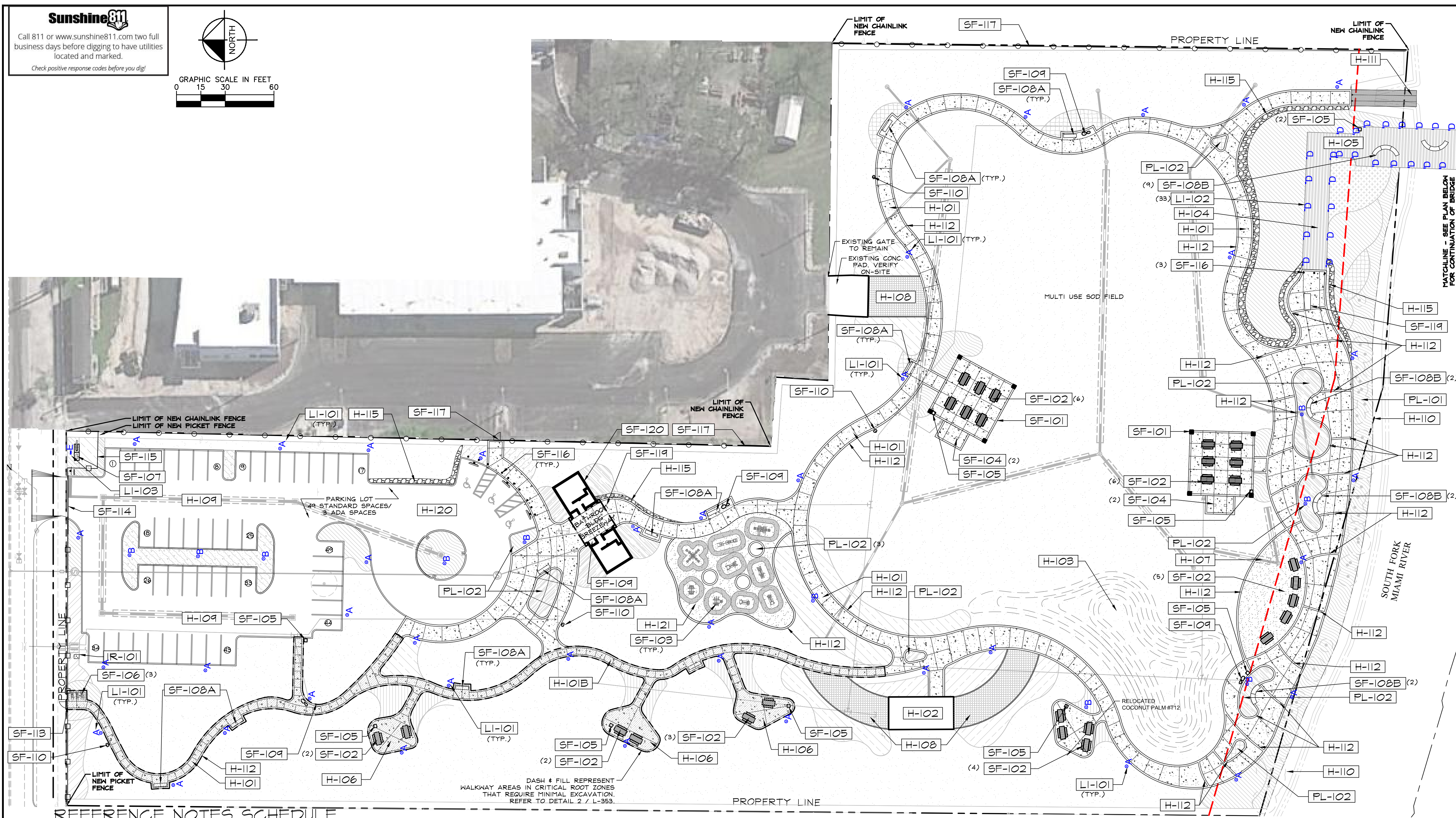
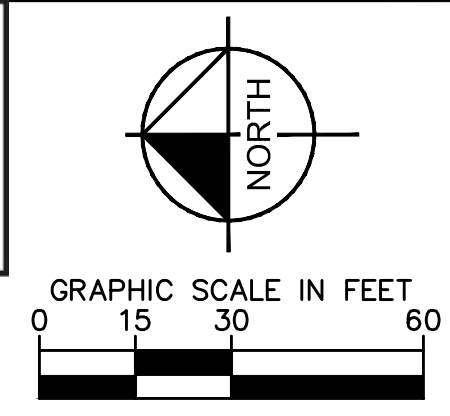


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02	PERMIT SET REV 02	04/26/19

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DASH & FILL REPRESENT WALKWAY AREAS IN CRITICAL ROOT ZONES THAT REQUIRE MINIMAL EXCAVATION. REFER TO DETAIL 2 / L-353.

REFERENCE NOTES SCHEDULE

SYMBOL	HARDSCAPE DESCRIPTION	DETAIL	SYMBOL	SITE FURNISHING DESCRIPTION	DETAIL	SYMBOL	LIGHTING DESCRIPTION	DETAIL
H-101	CONCRETE WALKWAY	1 / L-350	SF-101	40'X40' SHELTER	2,3,4 / EX-5	LI-101	LIGHT POLE	L-500 / SEE MEP
H-102B	CONCRETE WALKWAY IN CRITICAL ROOT ZONE	3 / L-353	SF-102	PICNIC TABLE	1 / EX-4	LI-102	LIGHTED BOLLARD	L-500 / SEE MEP
H-102	EXISTING STORAGE BUILDING		SF-103	OUTDOOR EXERCISE EQUIPMENT (4-STATION)	SHEETS EX-1, EX-2, EX-3	LI-103	MONUMENT FLOOD LIGHT	L-500 / SEE MEP
H-103	SODDED MOUNDS	REFER TO CIVIL PLANS	SF-104	CHARCOAL GRILL	1 / EX-1			
H-104	EXISTING WOOD RAMP		SF-105	TRASH RECEPTACLE	3 / EX-4			
H-105	EXISTING BRIDGE		SF-106	BIKE RACK	2 / EX-4			
H-106	CONCRETE PAD FOR PICNIC TABLES	1 / L-350	SF-107	MONUMENT SIGN	1 / L-353			
H-107	GRAVEL AREA	2 / L-350	SF-108A	STANDARD BENCH	1 / EX-6			
H-108	STABILIZED TURF - DRIVEABLE GRASS SYSTEM	3 / L-350	SF-108B	SPECIAL BENCH	2 / EX-6			
H-109	ASPHALT PARKING LOT	REFER TO CIVIL PLANS	SF-109	DRINKING FOUNTAIN	4 / EX-4			
H-110	EXISTING RIP-RAP		SF-110	PET STATION	2 / EX-1			
H-111	EXISTING KAYAK LAUNCH	TO BE COORDINATED	SF-111	NEW PEDESTRIAN GATE	3 / L-352			
H-112	12" WIDE CONCRETE BAND	1 / L-350	SF-114	VEHICULAR SLIDING GATE	1 / L-352			
H-115	OOLITE STONE BOULDER DRY STACK	4 / L-352	SF-115	6' HT. PICKET FENCE	3 / L-352			
H-120	DROP OFF AREA	REFER TO CIVIL PLANS	SF-116	VEHICULAR BOLLARD	3 / EX-6			
H-121	STABILIZED GRAVEL AT FITNESS EQUIPMENT AREA	4 / EX-6	SF-117	NEW 6' HT. CHAIN LINK FENCE & GATE	4 / L-353			
PL-101	LANDSCAPE BUFFER	REFER TO LANDSCAPE PLANS	SF-119	NEW PUBLIC ART PIECE	TO BE PROVIDED BY CITY			
PL-102	LANDSCAPE OUT-OUT	REFER TO LANDSCAPE PLANS	SF-120	RESTROOM BUILDING	REFER TO ARCHITECT'S DRAWINGS			

- GENERAL SITE NOTES:**
- LIMITS OF SCOPE DEFINED BY PROPERTY LINE.
 - REFER TO CIVIL ENGINEER'S DRAWINGS FOR GRADING, SURFACE DRAINAGE, UTILITY LOCATIONS, AND R.O.W.
 - REFER TO CIVIL ENGINEER'S DRAWINGS FOR SPOT ELEVATIONS AND FINISH FLOOR ELEVATIONS.
 - GENERAL CONTRACTOR, SUBCONTRACTORS, AND INSTALLERS SHALL CROSS REFERENCE ARCHITECTURE, ENGINEERING, AND LANDSCAPE DRAWINGS THROUGHOUT IMPLEMENTATION TO ENSURE THE DESIGN INTENT IS MET. ANY DISCREPANCIES SHALL BE NOTED AND BROUGHT TO THE GENERAL CONTRACTOR'S ATTENTION FOR CLARIFICATION WITH THE LANDSCAPE ARCHITECT.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING SITE PRIOR TO BIDDING IN ORDER TO FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS AFFECTING THE WORK, INCLUDING BUT NOT LIMITED TO, PRIVATE AND PUBLIC UTILITIES ON AND OFF SITE, ACCESS ROADS, AND OTHER SUPPORT FACILITIES.
 - CONTRACTOR MUST NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY OF ANY EXPECTED OR UNKNOWN CONDITIONS OR DISCREPANCIES IN THE DRAWINGS AND CONTRACT DOCUMENTS, AS WELL AS ANY ERRORS OR OMISSIONS ON THE DRAWINGS PRIOR TO PROCEEDING WITH THE WORK OR SHOP FABRICATION.

ARCHAEOLOGICAL REQUIREMENT NOTE
 THE SITE IS CONSIDERED AN ARCHAEOLOGICAL SITE. A CERTIFICATE TO DIG (CTD) IS REQUIRED PRIOR TO CONSTRUCTION. ARCHAEOLOGICAL MONITORING BY A PROFESSIONAL ARCHAEOLOGIST MEETING THE SECRETARY OF THE INTERIOR'S PROFESSIONAL QUALIFICATIONS STANDARDS AND APPROVED BY THE CITY OF MIAMI IS REQUIRED FOR SUBSURFACE EXCAVATION. THE CONTRACTOR IS TO RETAIN AND PAY FOR THE ARCHAEOLOGICAL CONSULTANT TO PREPARE THE CTD TO MONITOR EXCAVATIONS DURING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH BY THE CITY OF MIAMI HISTORIC PRESERVATION OFFICE. SHOULD THE CONTRACTOR RETAIN A DIFFERENT APPROVED ARCHAEOLOGICAL CONSULTANT, THEY WILL BE REQUIRED TO OBTAIN A NEW LETTER OF AGREEMENT (LOA) AND A CTD AT THEIR OWN EXPENSE. LETTER OF AGREEMENT WAS PREPARED BY JOSEPH F. MANKOWSKI, M.A. RPA, FROM ADVANCED ARCHAEOLOGY, INC. 1126 S. FEDERAL HIGHWAY #263, FT. LAUDERDALE, FLORIDA 33316. 954-270-6624

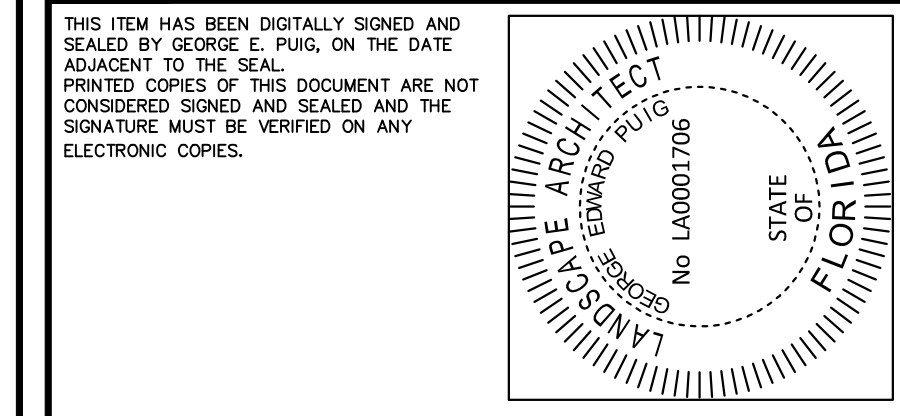
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 CITY OF MIAMI, PROJECT NO. B-40543
 2304 N.W. 14TH STREET, MIAMI, FL 33125

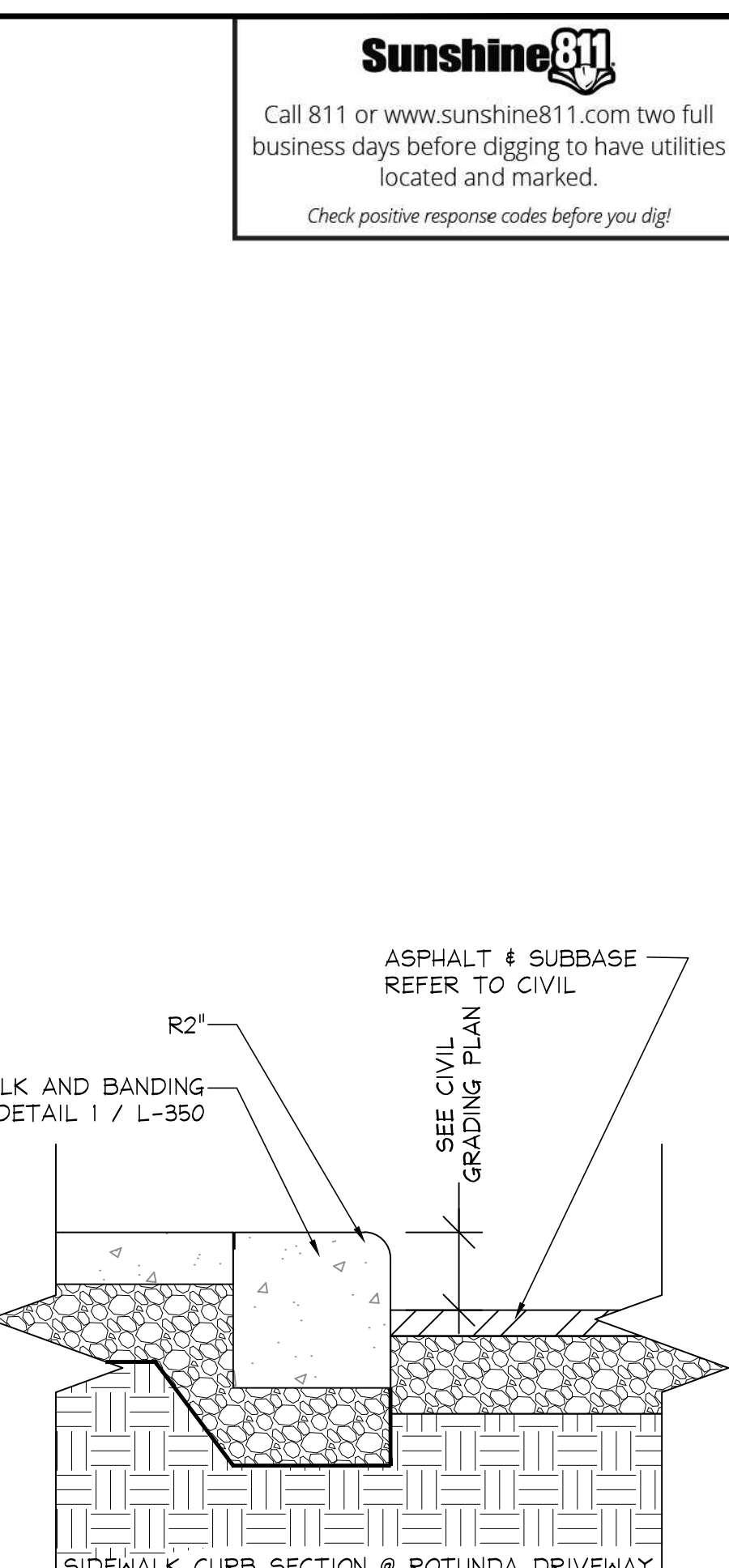
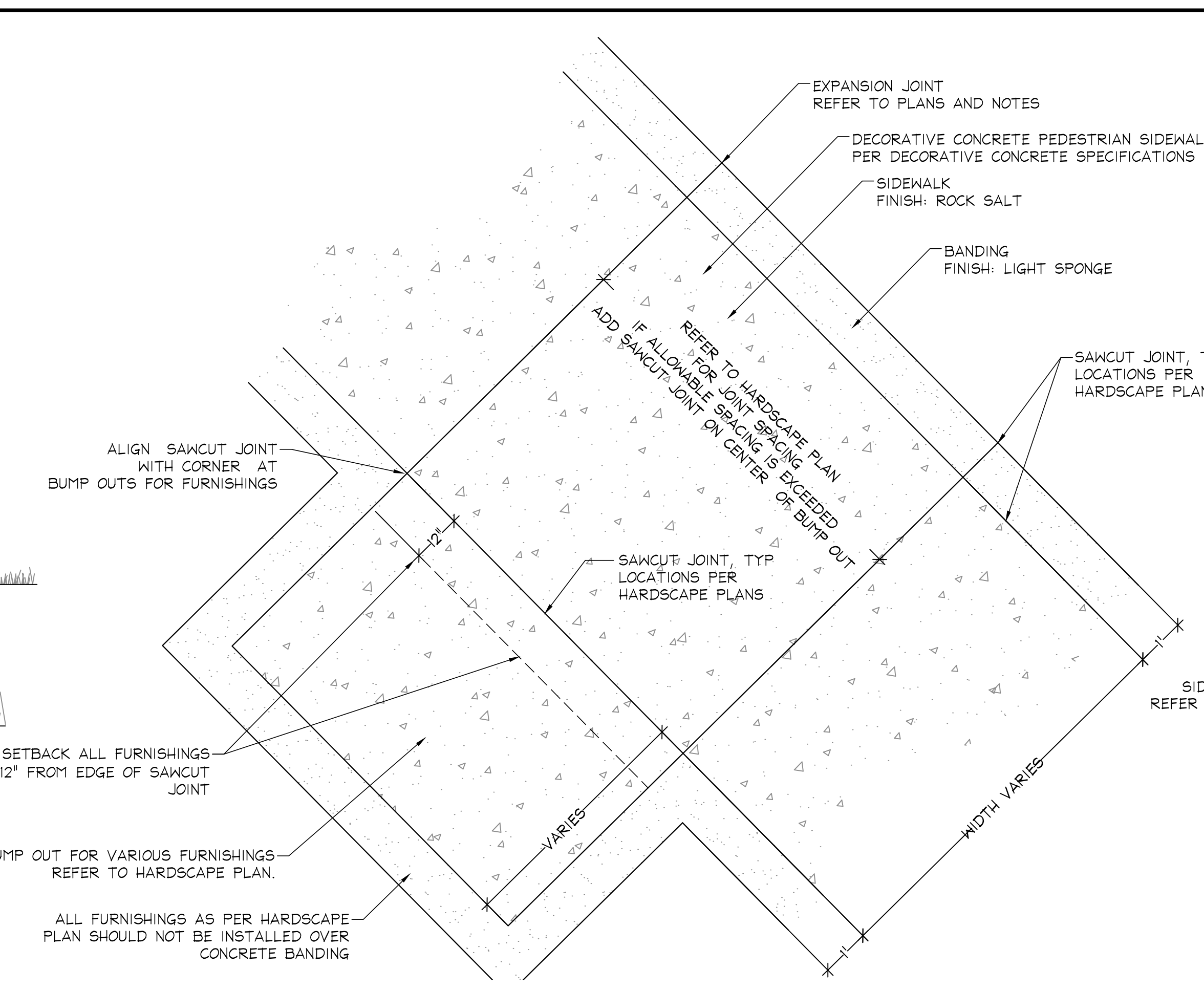
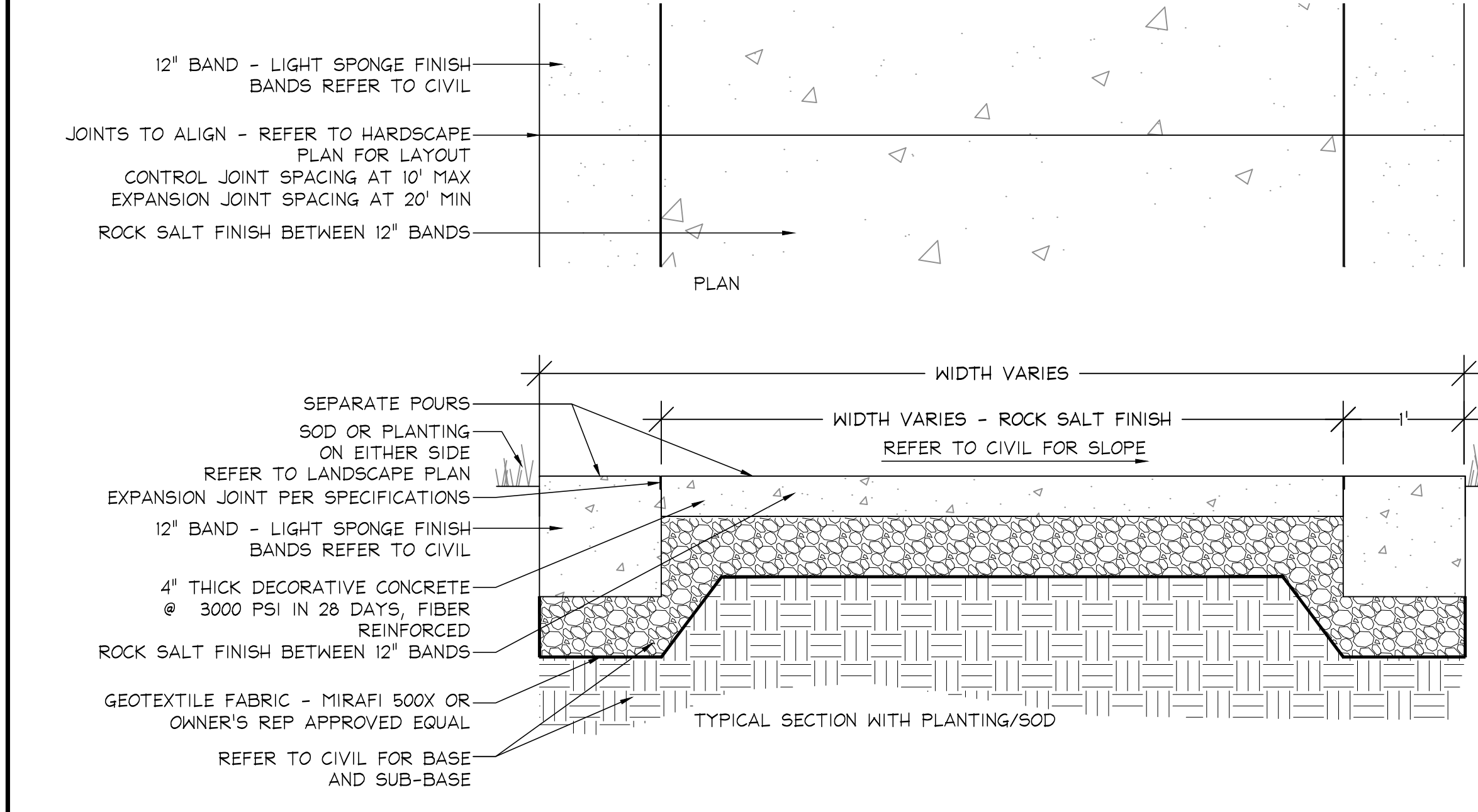
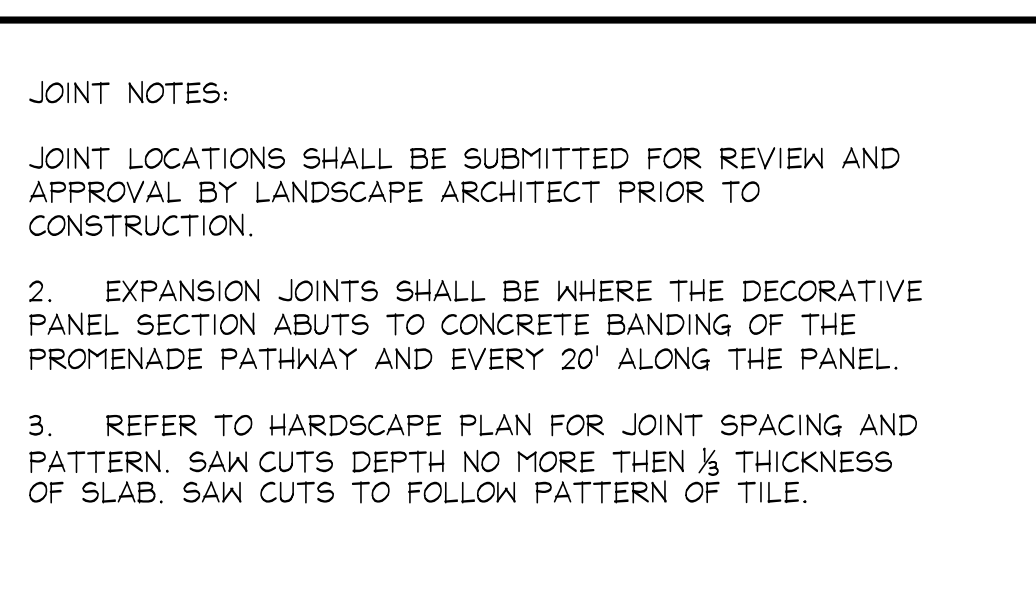
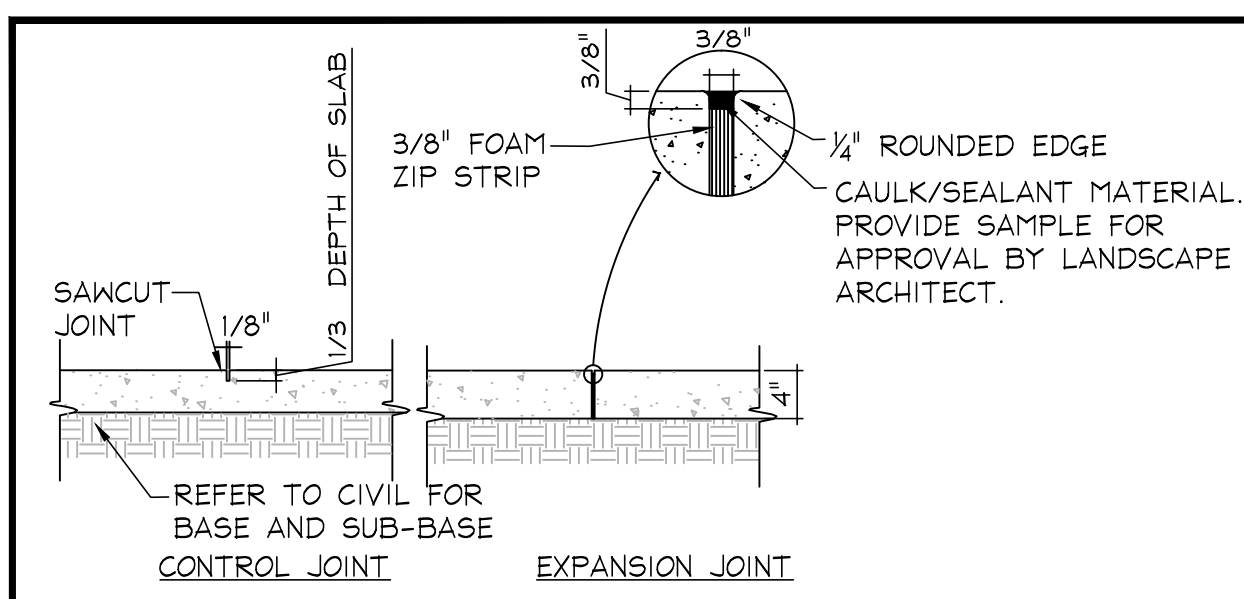
HARDSCAPE PLAN

SHEET TITLE:



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PBA FERN ISLE PARK REDEVELOPMENT

CITY OF MIAMI, PROJECT NO. B-40543

2304 N.W. 14TH STREET, MIAMI, FL 33125

HARDSCAPE DETAILS

SHEET TITLE:

1 DECORATIVE CONCRETE SIDEWALK & CONCRETE PICNIC PADS

SCALE: 1" = 1'

STONE MIX NOTES:

- ALL COMPACTION SPECIFICATIONS TO BE REDUCED WITHIN EXISTING AND PROPOSED TREE DRIP LINES. COMPACTION OF THESE AREA SHALL BE SUBJECT TO THE REVIEW AND WRITTEN APPROVAL OF AN ISA CERTIFIED ARBORIST.
- CONTRACTOR TO PROVIDE TWO 10' X 10' MOCK-UPS FOR THE OWNER AND LANDSCAPE ARCHITECTS REVIEW OF STONE MIX INCLUDING EDGE RESTRAINTS, PRIOR TO PROCUREMENT AND INSTALLATION. ALL STONE MIXES SHALL BE PRE-MIXED. NO SITE MIXING WILL BE ALLOWED. MIXTURE SHALL BE KEPT DRY/MOISTURE FREE AND FREE OF ROCKS, LIMBS, ROOTS OR ANY OTHER DELETERIOUS MATERIAL. CONTRACTOR TO PROVIDE BIDS FOR EACH STONE MIX DESIGNS. THE REQUIREMENTS FOR THE TWO MOCKUPS WILL BE THE FOLLOWING:
 - THE FIRST MOCKUP SHALL CONSIST OF A #89 STONE MATERIAL AND A FINES MATERIAL SELECTED BY THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL PROVIDE 3 SAMPLES FOR THIS SELECTION. THE SELECTED MATERIAL WILL BE INSTALLED IN THE MOCKUP.
 - THE SECOND MOCKUP SHALL CONSIST OF THE FOLLOWING MIXTURE DESIGN:

PRODUCT -FINES
DOT MATERIAL CODE 33
DESCRIPTION: SCREENING (CONCR.) 81

PRODUCT -COARSE
DOT MATERIAL CODE 17
DESCRIPTION: ASTM OF FLA GRADE 89

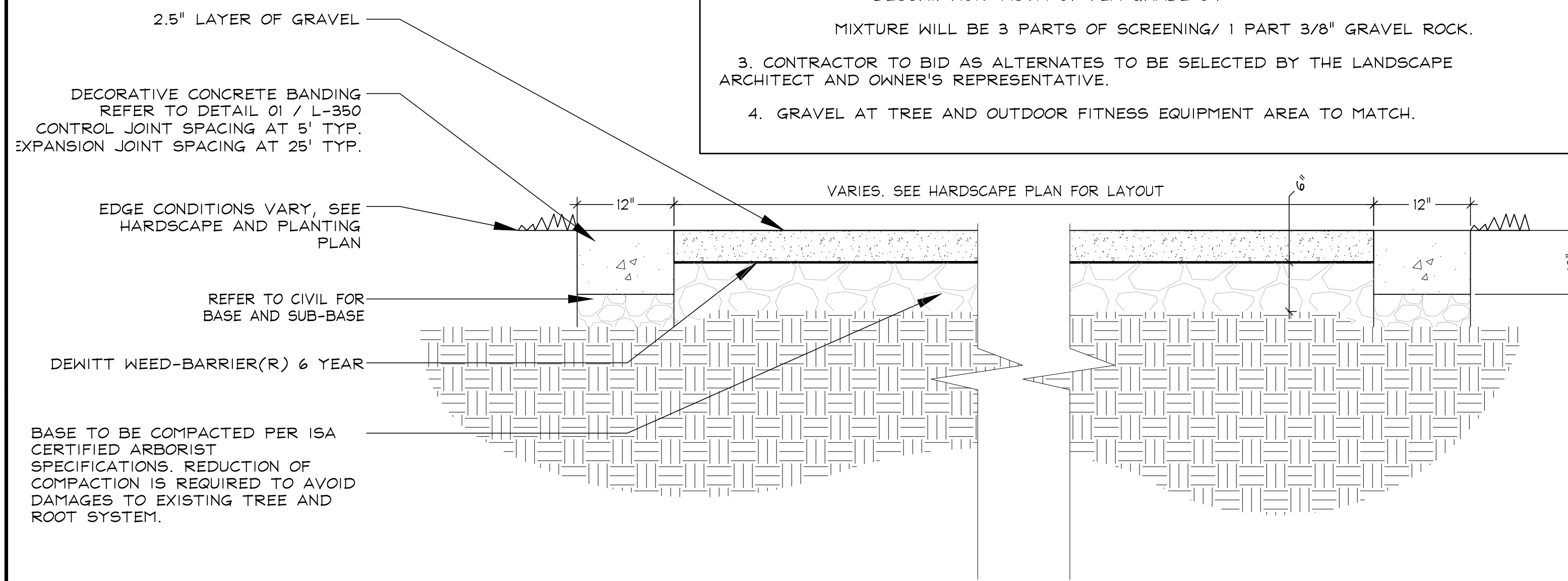
MIXTURE WILL BE 3 PARTS OF SCREENING/ 1 PART 3/8" GRAVEL ROCK.
- CONTRACTOR TO BID AS ALTERNATES TO BE SELECTED BY THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE.
- GRAVEL AT TREE AND OUTDOOR FITNESS EQUIPMENT AREA TO MATCH.

DECORATIVE CONCRETE SPECIFICATIONS:

- SUMMARY OF WORK
 - PEDESTRIAN CONCRETE PAVEMENT
 - CONCRETE BANDING
 - DECORATIVE CONCRETE BASES AND PADS
- FIELD CONSTRUCTED MOCK UP
 - CONTRACTOR TO PROVIDE A 10'X10' MOCK UP THAT INCLUDES THE 12" BAND IN SPONGE FINISH AND THE PATHWAY IN ROCK SALT FINISH FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO PROCUREMENT AND INSTALLATION. MOCK-UP SHALL BE ITERATIVE AND REWORKED UP TO (3) TIMES BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER UNTIL APPROVED BY LANDSCAPE ARCHITECT. MOCK UP SHALL BE LOCATED ON SITE AND BE MAINTAINED IN A UNDISTURBED CONDITION DURING CONSTRUCTION.

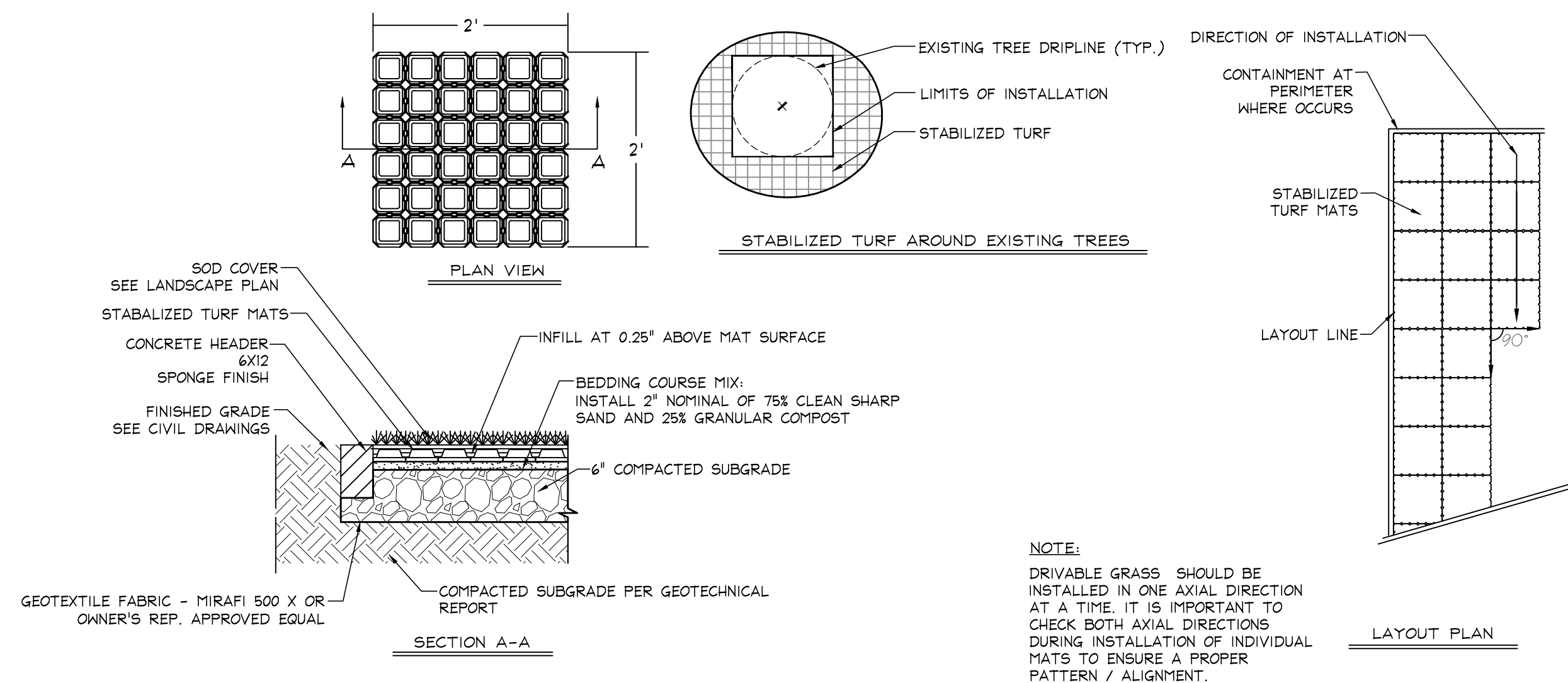
ADDITIONAL NOTES:

- CONTRACTOR TO LAYOUT PATTERN FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO ROCK SALT FINISH OPERATIONS.
- ALL CONCRETE MUST BE BATCHED FROM THE SAME LOCATION.
- REFER TO CIVIL DRAWINGS FOR GRADING AND BASE/ SUBBASE SPECIFICATIONS



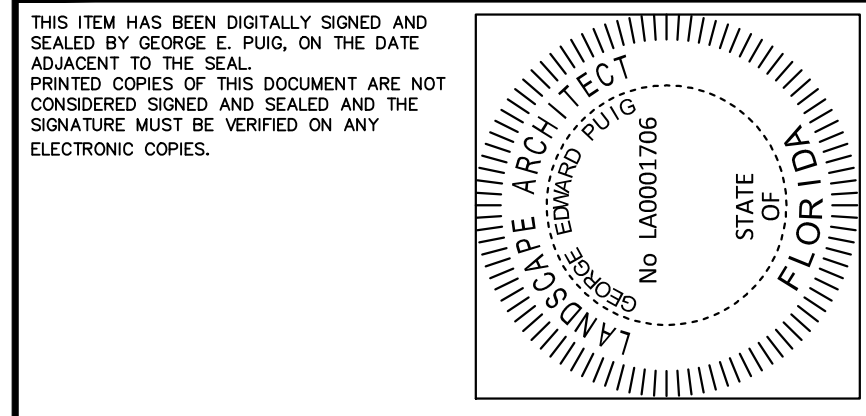
2 GRAVEL AREA BY TREE

SCALE: 1" = 1'



3 STABILIZED TURF

SCALE: 1" = 1'

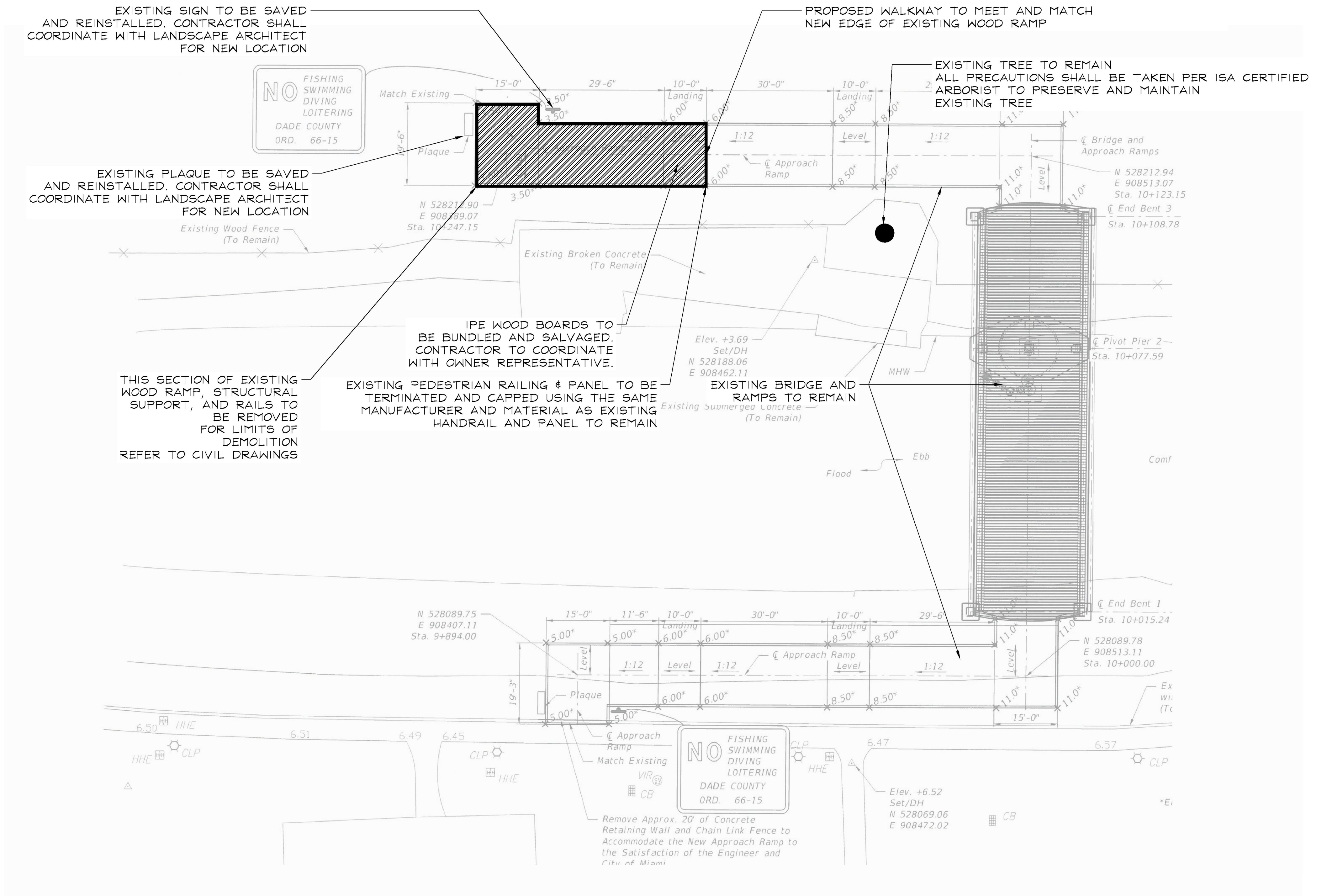
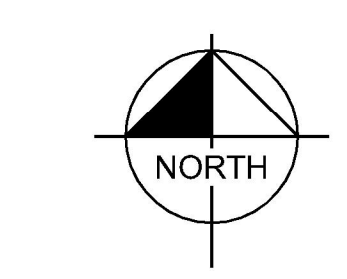


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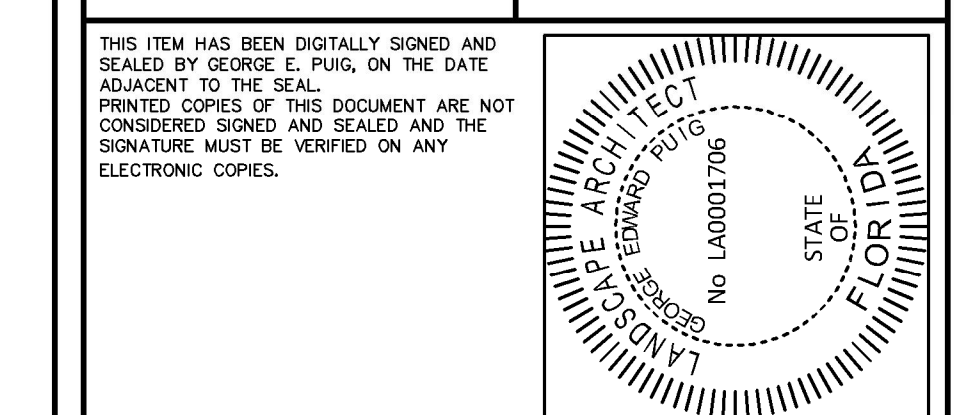
PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

HARDSCAPE DETAILS

SHEET TITLE:

1 EXISTING RAMP AND BRIDGE NOTES
 SCALE: NTS

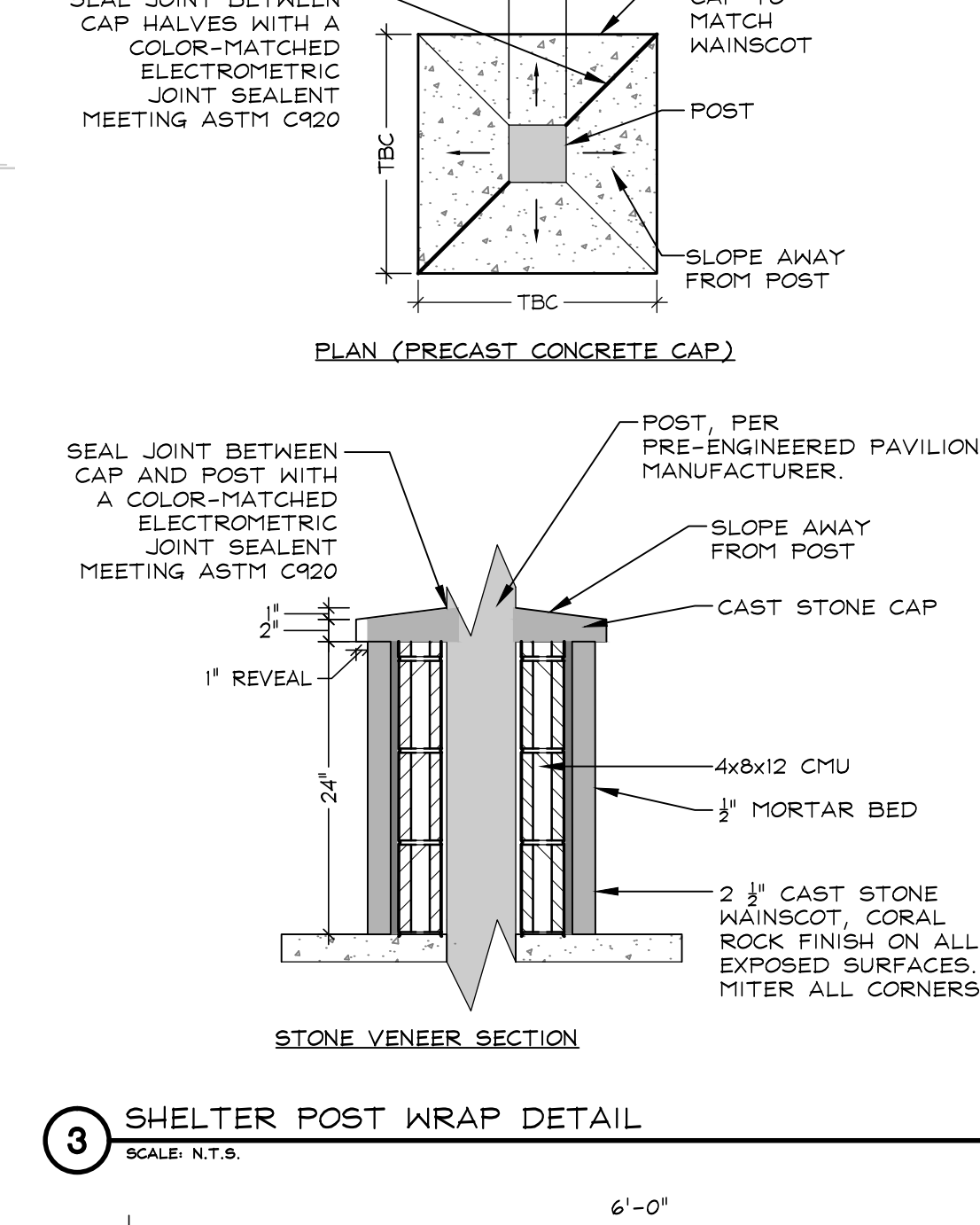
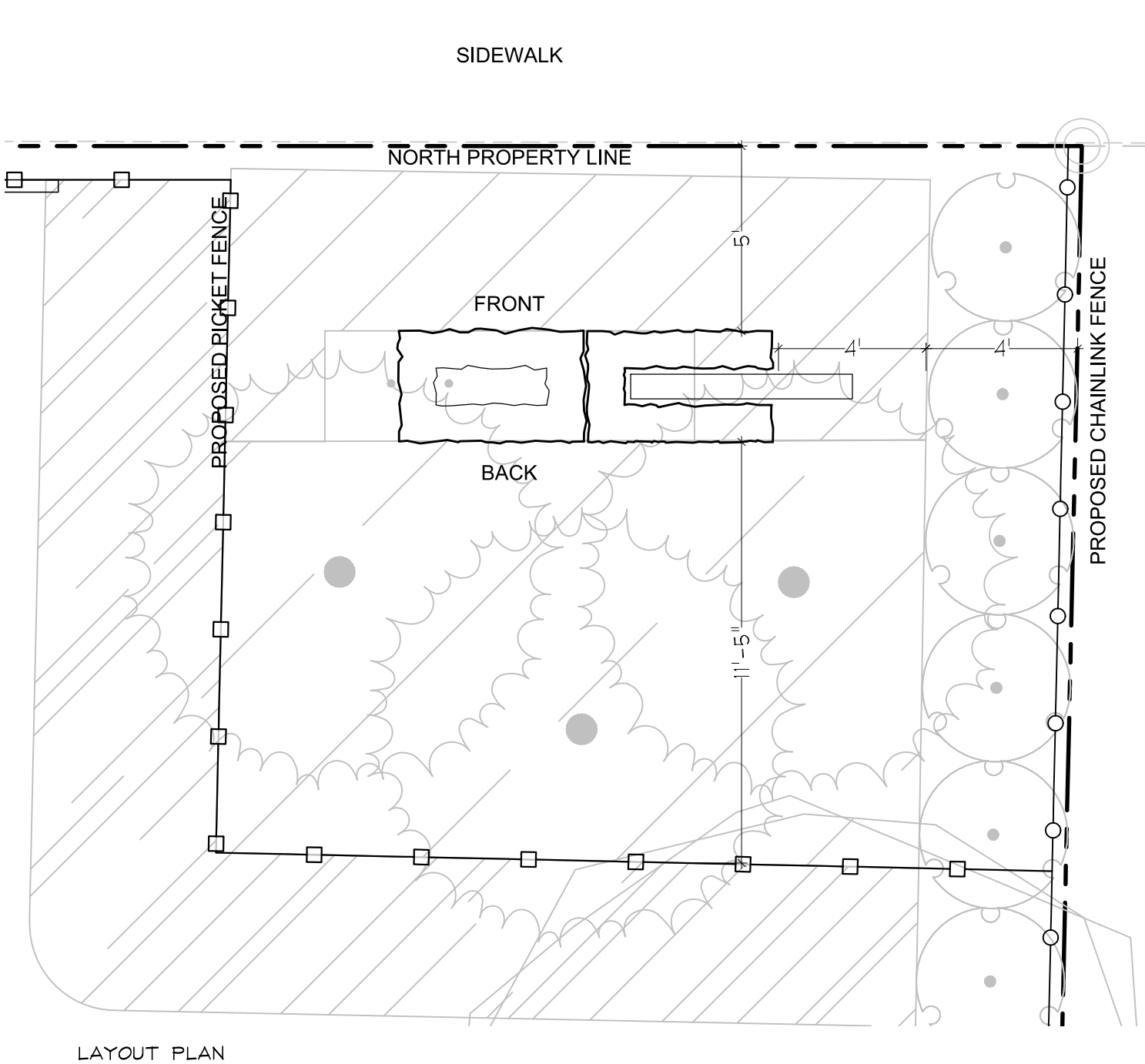
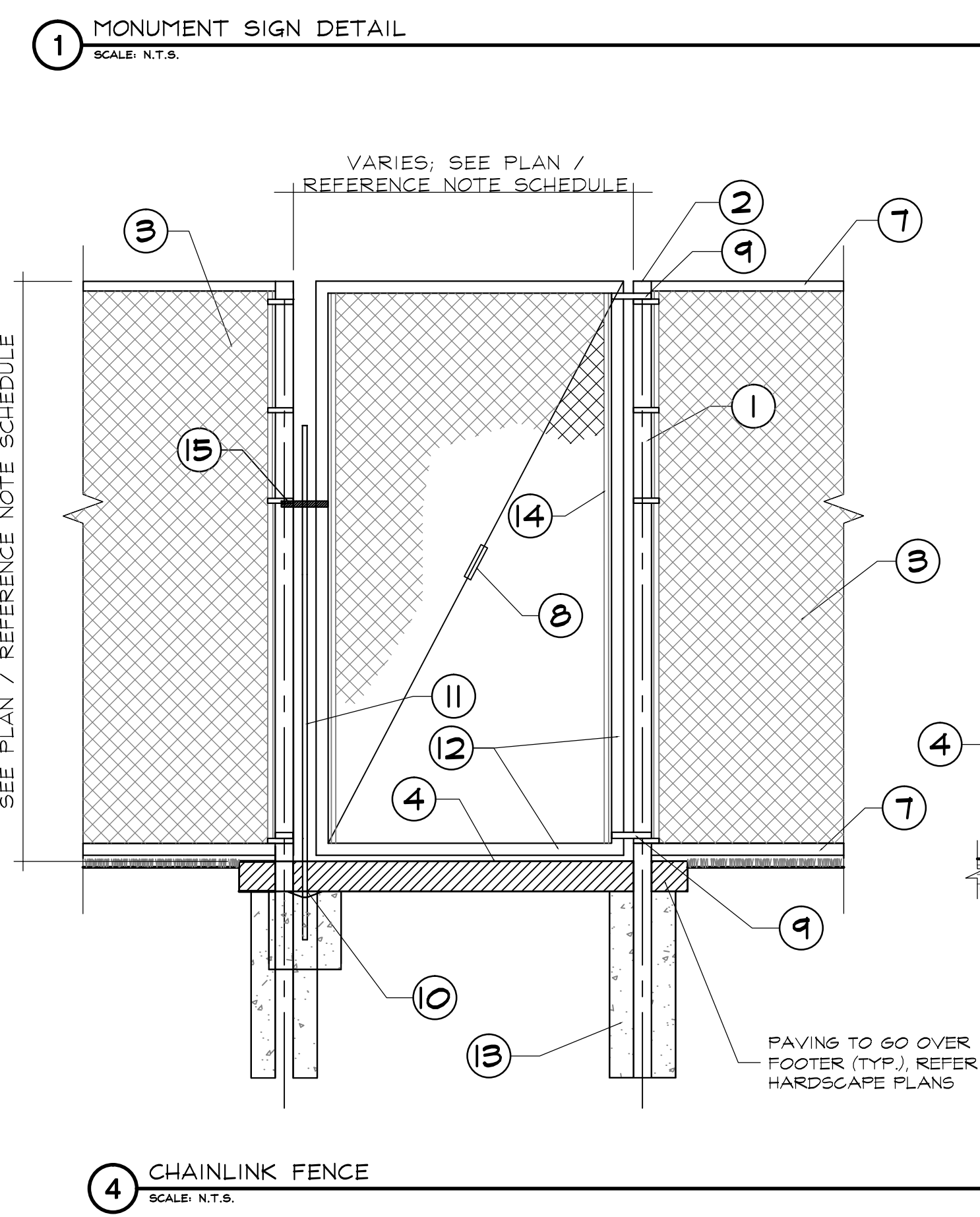
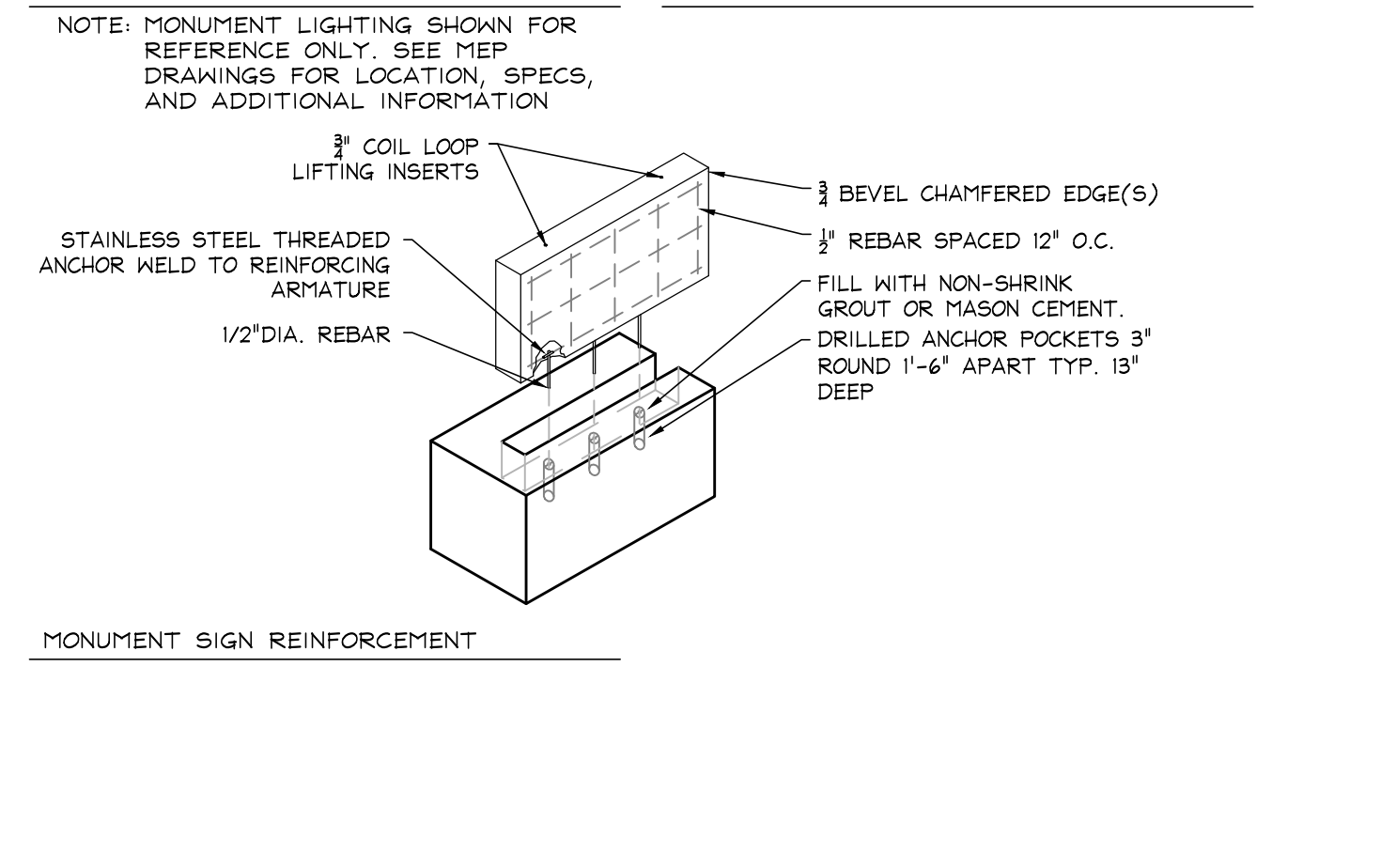
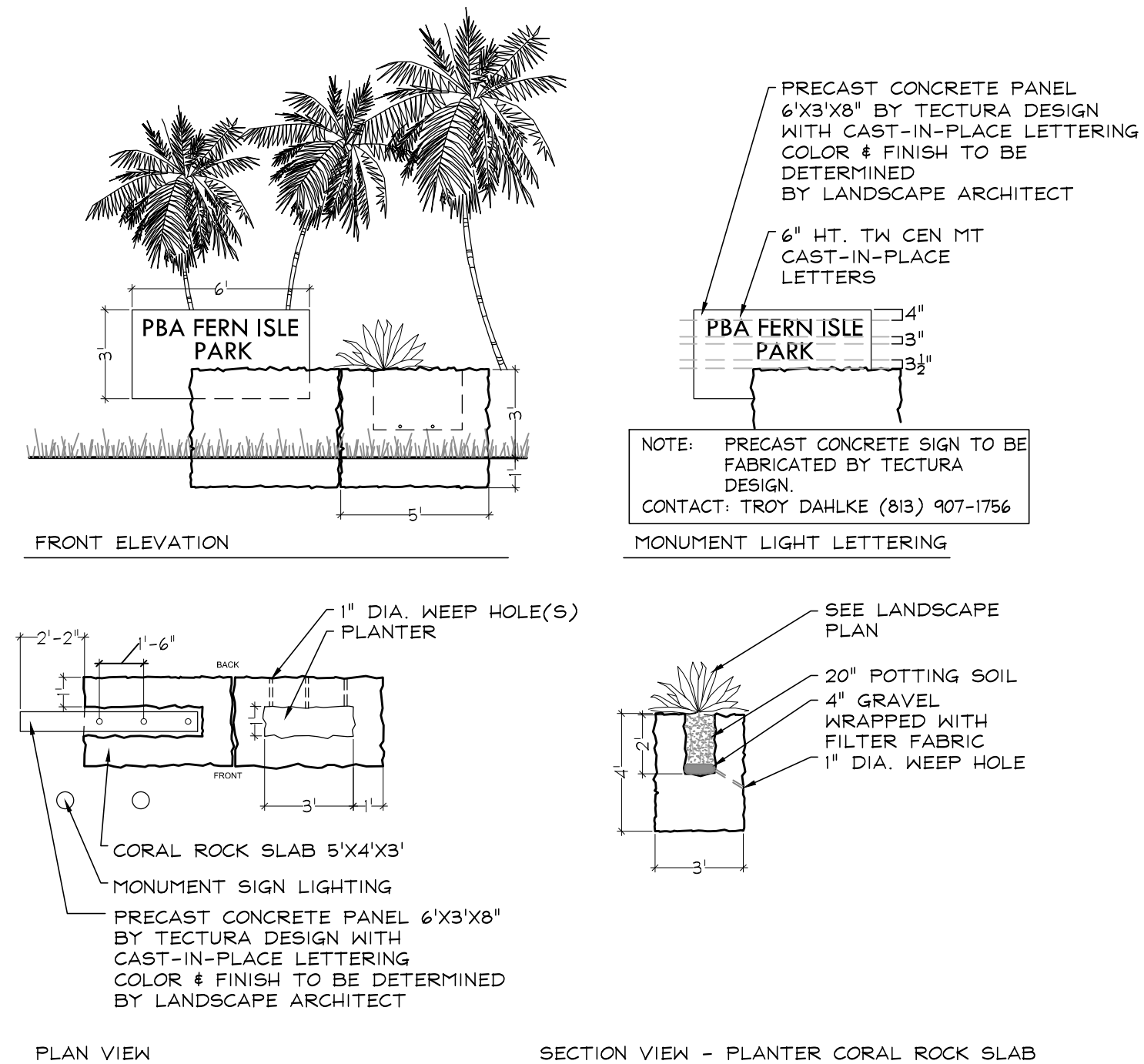
- NOTES:
- CONTRACTOR SHALL SUBMIT DETAILED, SIGNED & SEALED ENGINEERED DRAWINGS FOR THE TRANSITION BETWEEN THE PROPOSED CONCRETE WALKWAY AND THE EXISTING WOOD RAMP WITH THE LOADING AND ANCHORING PROVISIONS SPECIFIED, AND THE REINFORCEMENT OF RAMP REQUIRED DUE TO THE DEMOLITION OF THE SECTION FOR APPROVAL BY OWNER PRIOR TO PROCUREMENT, FABRICATION, AND INSTALLATION.
 - CONTRACTOR SHALL PROVIDE A DETAILED SHOP DRAWING FOR THE HANDRAIL TERMINATION TO SATISFY ADA REQUIREMENTS FOR RAMP. THIS INCLUDES THE HANDRAIL EXTENDING 1'-0" FROM BOTTOM OF RAMP.
 - CONTRACTOR SHALL REMOVE PIERS AND SUBSTRUCTURE THAT ARE IN CONFLICT WITH PROPOSED DESIGN AND DISCARD OFF-SITE.
 - THE PROVIDED DRAWING IS FOR REFERENCE ONLY AND SHOULD NOT BE USED FOR CONSTRUCTION.
 - CONTRACTOR SHALL FIELD VERIFY EXISTING AS-BUILT CONDITIONS PRIOR TO BID AND COMMENCEMENT OF CONSTRUCTION.



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VENEER STONE PRODUCT SPECIFICATION
 MANUFACTURER: ARTISTIC STONE, INC. OR APPROVED EQUAL
 2 3/4" CAST STONE WAINSCOT SET IN 1/2" MORTAR BED, CORAL ROCK FINISH ON ALL EXPOSED SURFACES. MITER ALL CORNERS.
 INSTALLATION: INSTALL ON CLEAN CMU PER MANUFACTURERS SPECIFICATION.
 SUBMITTALS: CONTRACTOR TO SUBMIT PRODUCT DATA/SAMPLES FOR LANDSCAPE ARCHITECT APPROVAL:
 1. STONE VENEER DATA/SAMPLE
 2. GROUT COLOR
 3. JOINT SEALANT COLOR
 4. PRECAST CONCRETE SAMPLE
 NOTES:
 1. ALL CAST STONE CORNERS TO HAVE MITERED EDGE.
 2. TO MATCH CAST STONE WAINSCOT IN AT RESTROOM BUILDING BY ARCHITECT.

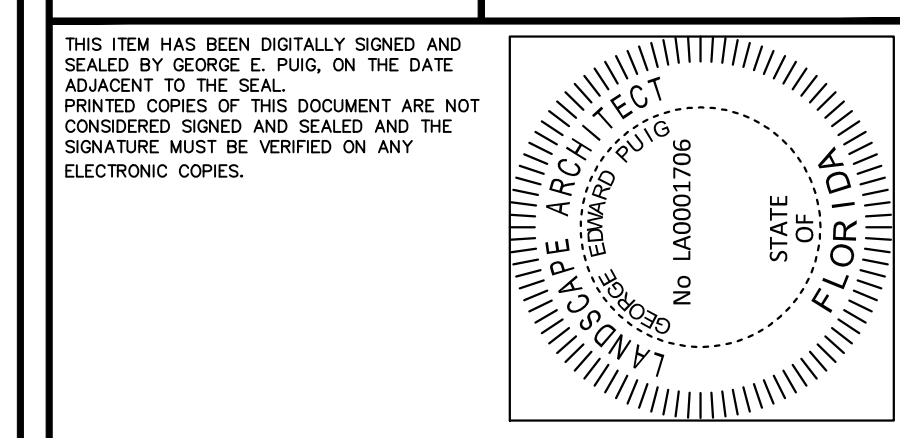
SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

HARDSCAPE DETAILS

SHEET TITLE:



No.	REVISIONS - SUBMITTALS	DATE
01	PERMIT SET REV 01	03/08/19
02	PERMIT SET REV 02	04/26/19

Plotted By: Gonzalez, Gregory, Sheet Set: PBA Firm, lde Layout: EX-1 MANUFACTURER'S DETAILS EXHIBIT 1, May 01, 2019 11:08:03am K:\CRG_LRG\04-36430051.pba firm lde\landscape\CADD\plansheets\1-350_Hardscape_Details.dwg

COMPONENTS

Attach the Grill Box to the 3-1/2" Post using specified hardware.

ITEM NO.	PartNo	DESCRIPTION	QTY
1	630-3	630-3 Grill Box	1
2	33-02-0002	3/8" Zinc Plated Washer	2
3	33-05-0018	3/8" x 4 1/2" Machine Bolt (Zinc)	1
4	33-01-0002	3/8" Hex Nut (Zinc)	1
5	01-62-0099	3-1/2" IG Grill Post	1

Ultra site 800-45-ULTRA www.ultra-site.com

1/29/2014 Page 7 of 9

COMPONENTS

Estimated Required Concrete:
4 - 50lb Bags of Concrete Mix

Ultra site 800-45-ULTRA www.ultra-site.com

1/29/2014 Page 8 of 9

OVERALL DIMENSIONS

Ultra site 800-45-ULTRA www.ultra-site.com

1/29/2014 Page 9 of 9

630-3 Grill Pedestal Mounted Cooking Grill

Firebox shall have a length of 20", a width of 15", and a height of 10". Sides shall be fabricated of 10 gauge steel and the floor of 3/16" steel plate for added strength. For safety, corners of firebox shall be rounded. For drainage, holes shall be provided in the rear corners of side plates. The theft resistant cooking grate shall be fabricated from 1/2" steel bars with a cooking surface of 300 sq. inches. Support bars for grate will be of heavier 5/8" round steel, with cool coil spring grip handles on each side. Grate will adjust to four convenient levels. Finish will be non-toxic rust resistant, black paint or hot dipped galvanized. Support post will be 3-1/2" O.D. galvanized steel pipe, 40" in length, for setting in concrete.

NOTES:

- CONTRACTOR TO PROVIDE PRODUCT DATA, SHOP DRAWINGS, AND FINISH SAMPLES FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO PROCUREMENT, FABRICATION, AND INSTALLATION.
- CONTRACTOR TO VERIFY AND COMPLY TO HIGHEST CITY, STATE, AND FEDERAL REGULATIONS AND REQUIREMENTS FOR PUBLIC CHARCOAL GRILLS.
- INSTALL AS PER MANUFACTURER'S SPECIFICATIONS.
- PRIOR TO PROCUREMENT AND INSTALLATION CONTRACTOR SHALL FURNISH ALL NECESSARY ANCHORING DEVICES FOR COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS FOR ANCHORING.
- PEDESTAL MOUNTED (3.5" POST)

SPECIFICATIONS:

MANUFACTURER: ULTRA SITE
MODEL: 630-3

1 ROTATING FLIP GRILL
SCALE: N.T.S.



NOTES:

- INSTALL AS PER MANUFACTURER'S SPECIFICATIONS.
- CONTRACTOR TO PROVIDE PRODUCT DATA, SHOP DRAWINGS, AND FINISH SAMPLES FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO PROCUREMENT, FABRICATION, AND INSTALLATION.
- PRIOR TO PROCUREMENT, FABRICATION, AND INSTALLATION CONTRACTOR SHALL FURNISH ALL NECESSARY ANCHORING DEVICES FOR COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS FOR ANCHORING.
- ANCHOR WITH CONCRETE FOOTER MIN. 2' FROM EDGE OF SIDEWALK.

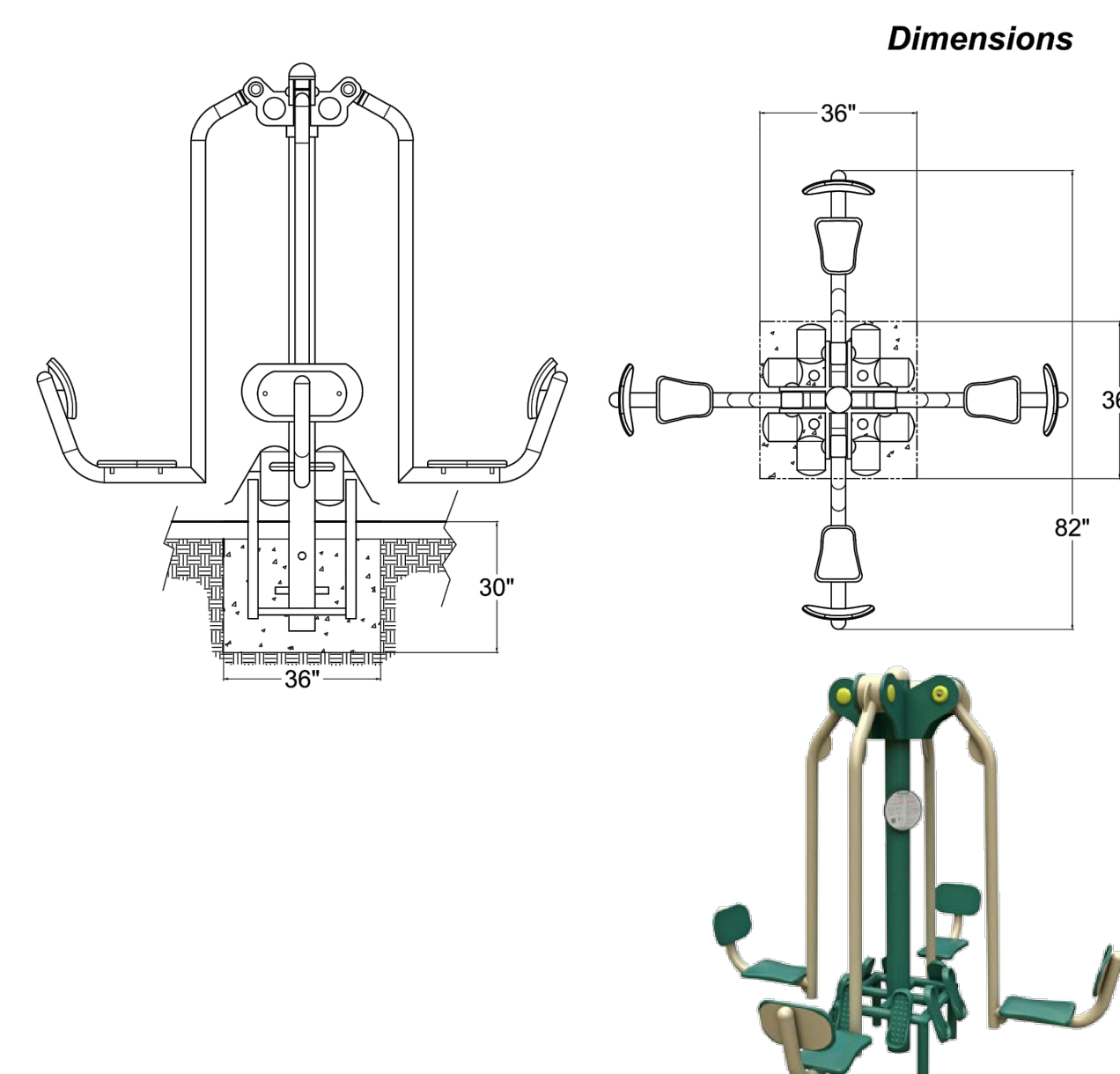
COMPLETE STATION WITH 400, 2-PLY MUTT MITTS
ITEM#: 1004/1006

2 PET STATION
SCALE: N.T.S.

INSTALLATION INSTRUCTIONS

Model: GR2005-1-104N
Name: 4-Person Leg Press

This unit ships in 3 separately wrapped components.



During installation, please be sure to also refer to guidelines in Greenfields' Preliminary Instructions document.
In order to honor our commitment to quality and safety, Greenfields Outdoor Fitness reserves the right to make changes and revise the design specifications without notice.

NOTE:

- INSTALL AS PER MANUFACTURER'S SPECIFICATIONS.
- REFER TO DETAIL 4 / EX-06 FOR SURFACE FINISH GRADE.

4 OUTDOOR EXERCISE EQUIPMENT
SCALE: N.T.S.



Greenfields installation instructions:

- All units **MUST** be fully assembled, leveled, and braced in place in the footing hole before any concrete is poured.
- A monolithic pour **MUST** be used for concrete. (All concrete must be poured at one time)
- Concrete requirement: 3250 psi or better.
- The top of the blue tape attached to the posts on the equipment is final top surface level.
- All screws must be attached using Loctite.
- It is recommended to wait a minimum of one week after concrete is poured before equipment is used.
- The use of Decomposed Granite Surfacing (DG) is known to accelerate normal wear & tear of footrests.



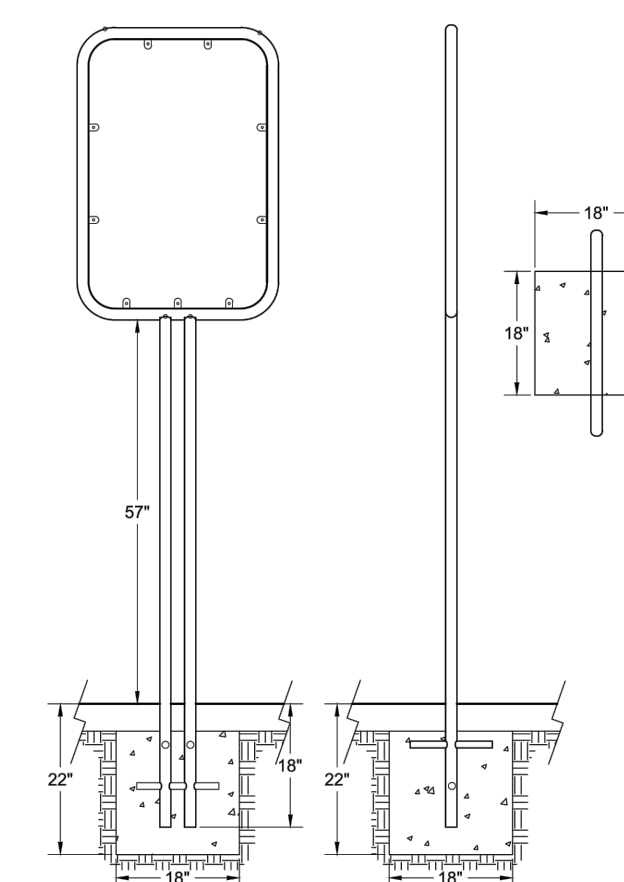
Questions? Please call
888-315-9037 x105

© 2015 Greenfields Outdoor Fitness, Inc.

INSTALLATION INSTRUCTIONS

Model: GR2005-1-105
Name: Custom Announcement Sign

This unit ships in 1 separately wrapped component.



During installation, please be sure to also refer to guidelines in Greenfields' Preliminary Instructions document.
In order to honor our commitment to quality and safety, Greenfields Outdoor Fitness reserves the right to make changes and revise the design specifications without notice.

NOTE:

- INSTALL AS PER MANUFACTURER'S SPECIFICATIONS.
- REFER TO DETAIL 4 / EX-06 FOR SURFACE FINISH GRADE.

5 OUTDOOR EXERCISE EQUIPMENT
SCALE: N.T.S.



Greenfields installation instructions:

- All units **MUST** be fully assembled, leveled, and braced in place in the footing hole before any concrete is poured.
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- Concrete requirement: 3250 psi or better.
- The top of the blue tape attached to the posts on the equipment is final top surface level.
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- The use of Decomposed Granite Surfacing (DG) is known to accelerate normal wear & tear of footrests.



Questions? Please call
888-315-9037 x105

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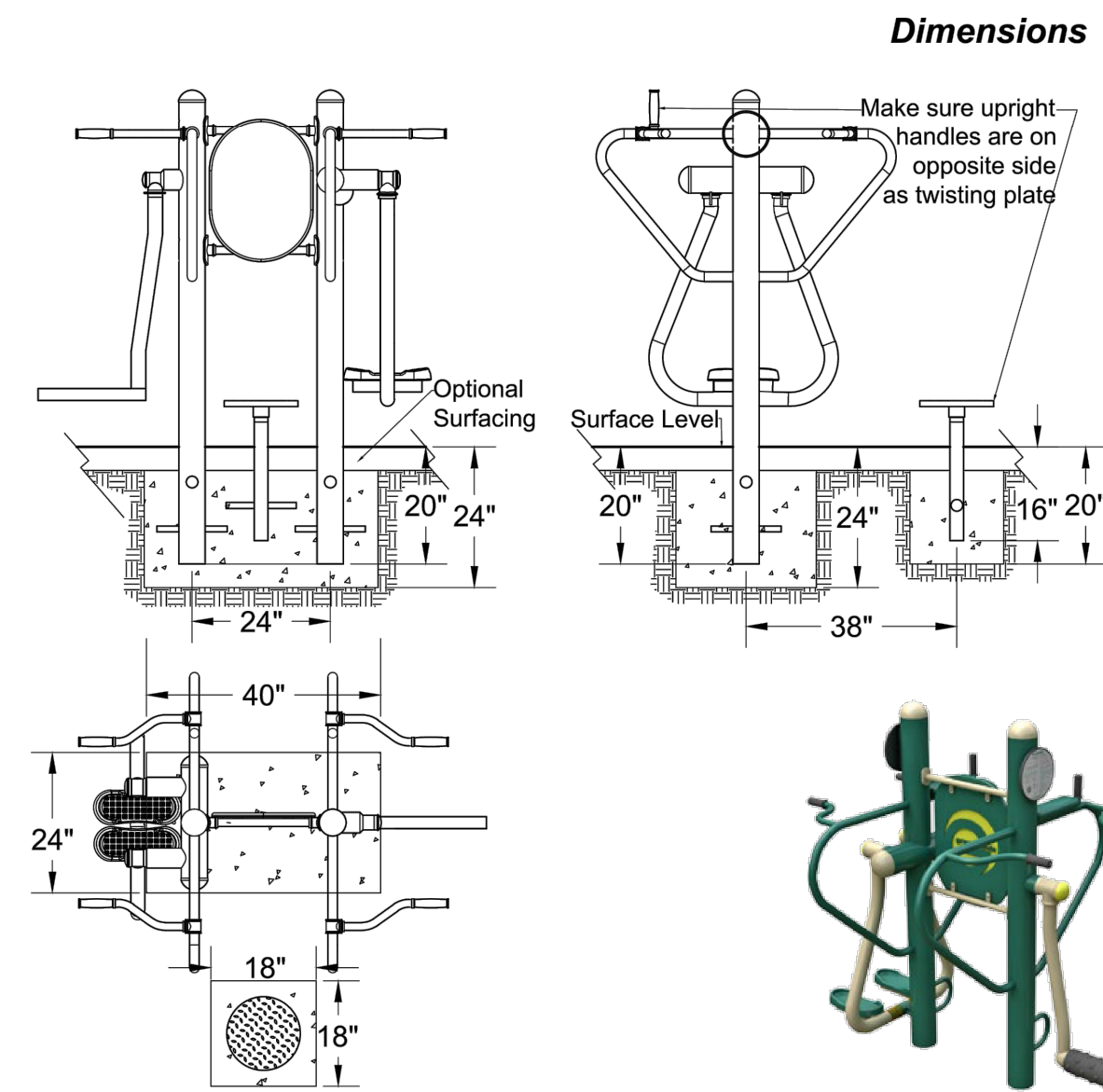
MANUFACTURER'S DETAILS EXHIBIT 1

INSTALLATION INSTRUCTIONS

Model: GR2005-1-21
 Name: 4-Person Lower Body Combo
 This unit ships in 2 separately wrapped components.



Greenfields installation instructions:
 1. All units **MUST** be fully assembled, leveled, and braced in place in the footing hole before any concrete is poured.
 2. A monolithic pour **MUST** be used for concrete. (All concrete must be poured at one time)
 3. Concrete requirement: 3250 psi or better.
 4. The top of the blue tape attached to the posts on the equipment is final top surface level.
 5. All screws must be attached using LocTite.
 6. It is recommended to wait a minimum of one week after concrete is poured before equipment is used.
 7. The use of Decomposed Granite Surfacing (DG) is known to accelerate normal wear & tear of footrests.



Finished product
 Questions? Please call 888-315-9037 x105

During installation, please be sure to also refer to guidelines in Greenfields' Preliminary Instructions document.

- NOTE:
 1. INSTALL AS PER MANUFACTURER'S SPECIFICATIONS.
 2. REFER TO DETAIL 4 / EX-06 FOR SURFACE FINISH GRADE.

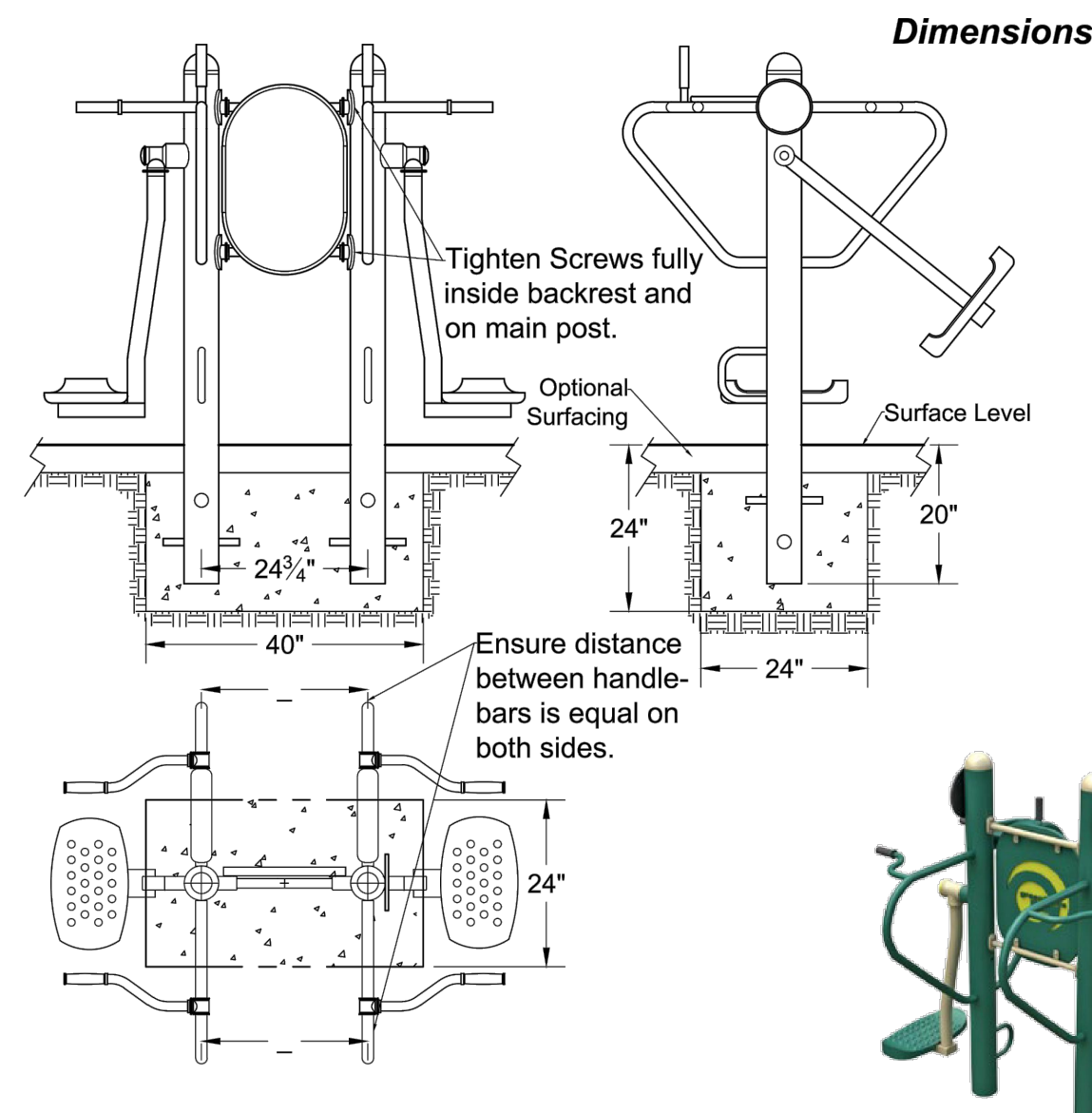
1 OUTDOOR EXERCISE EQUIPMENT
 SCALE: N.T.S.

INSTALLATION INSTRUCTIONS

Model: GR2005-1-22
 Name: Pendulum, Abs, & Dip station
 This unit ships in 2 separately wrapped components.



Greenfields installation instructions:
 1. All units **MUST** be fully assembled, leveled, and braced in place in the footing hole before any concrete is poured.
 2. A monolithic pour **MUST** be used for concrete. (All concrete must be poured at one time)
 3. Concrete requirement: 3250 psi or better.
 4. The top of the blue tape attached to the posts on the equipment is final top surface level.
 5. All screws must be attached using LocTite.
 6. It is recommended to wait a minimum of one week after concrete is poured before equipment is used.
 7. The use of Decomposed Granite Surfacing (DG) is known to accelerate normal wear & tear of footrests.



Finished product
 Questions? Please call 888-315-9037 x105

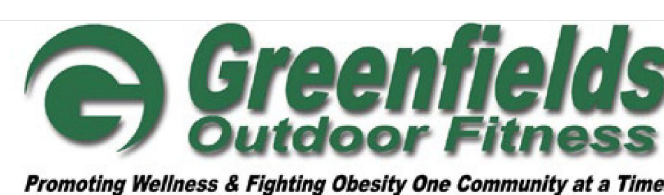
During installation, please be sure to also refer to guidelines in Greenfields' Preliminary Instructions document.

- NOTE:
 1. INSTALL AS PER MANUFACTURER'S SPECIFICATIONS.
 2. REFER TO DETAIL 4 / EX-06 FOR SURFACE FINISH GRADE.

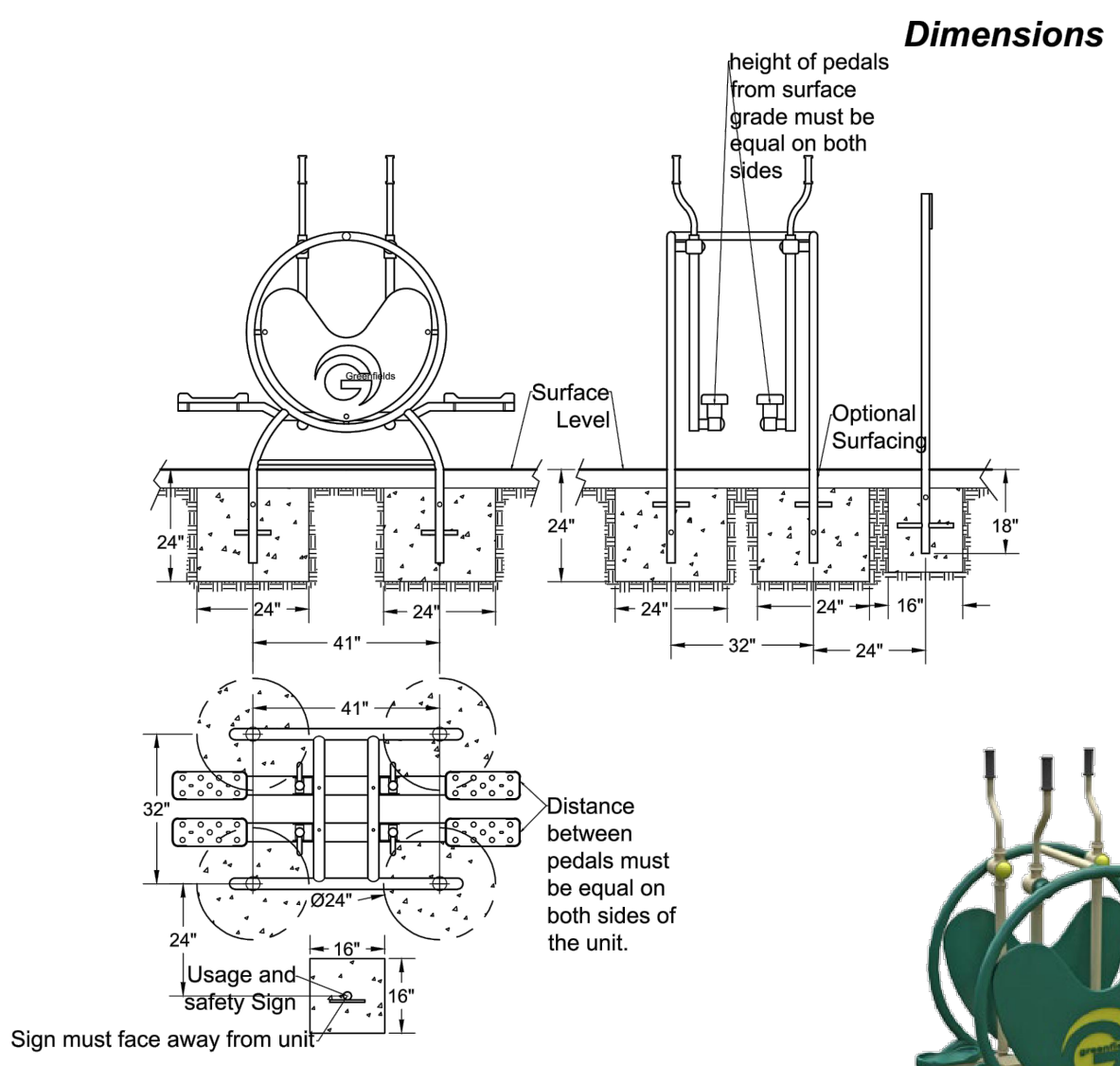
2 OUTDOOR EXERCISE EQUIPMENT
 SCALE: N.T.S.

INSTALLATION INSTRUCTIONS

Model: GR2005-1-26
 Name: 2-Person Cross Country Ski
 This unit ships in 2 separately wrapped components.



Greenfields installation instructions:
 1. All units **MUST** be fully assembled, leveled, and braced in place in the footing hole before any concrete is poured.
 2. A monolithic pour **MUST** be used for concrete. (All concrete must be poured at one time)
 3. Concrete requirement: 3250 psi or better.
 4. The top of the blue tape attached to the posts on the equipment is final top surface level.
 5. All screws must be attached using LocTite.
 6. It is recommended to wait a minimum of one week after concrete is poured before equipment is used.
 7. The use of Decomposed Granite Surfacing (DG) is known to accelerate normal wear & tear of footrests.



Finished product
 Questions? Please call 888-315-9037 x105

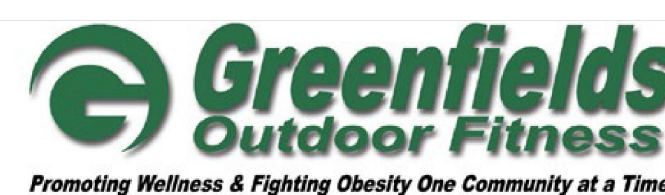
During installation, please be sure to also refer to guidelines in Greenfields' Preliminary Instructions document.

- NOTE:
 1. INSTALL AS PER MANUFACTURER'S SPECIFICATIONS.
 2. REFER TO DETAIL 4 / EX-06 FOR SURFACE FINISH GRADE.

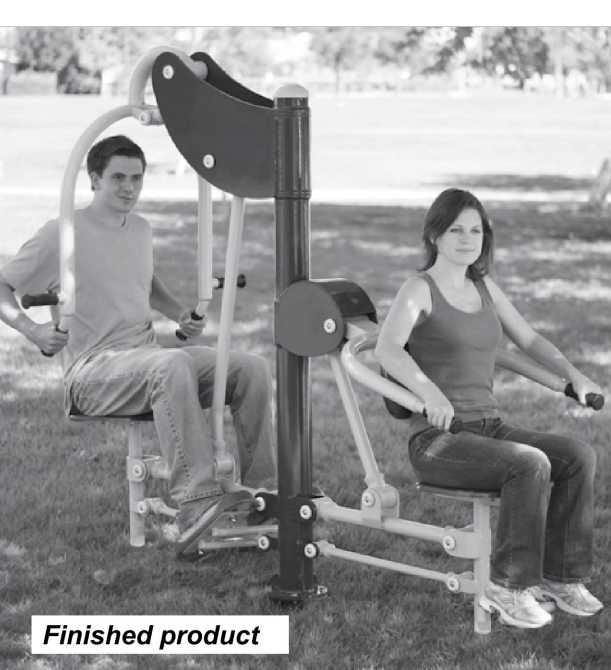
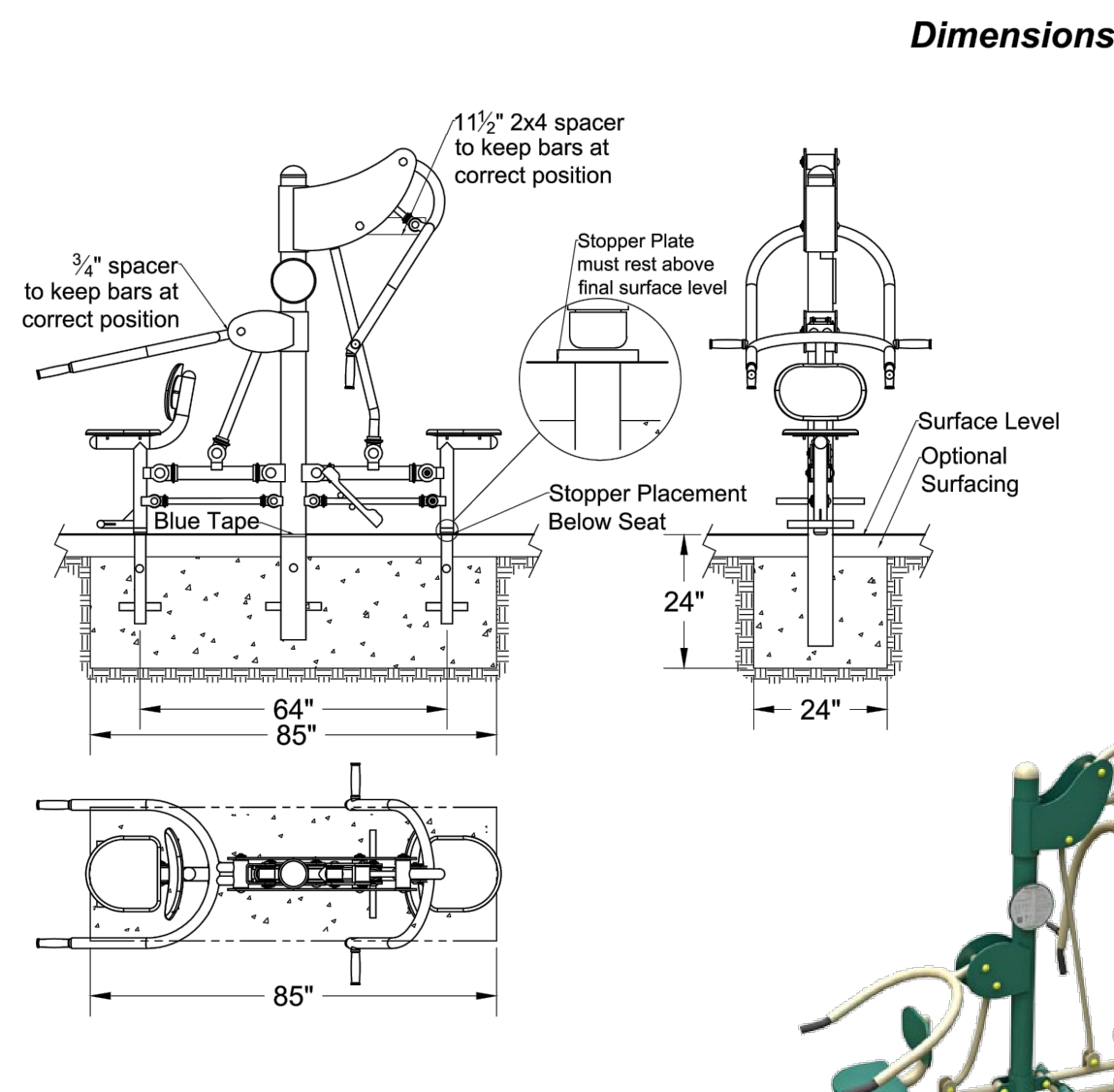
3 OUTDOOR EXERCISE EQUIPMENT
 SCALE: N.T.S.

INSTALLATION INSTRUCTIONS

Model: GR2005-1-42
 Name: 2-Person Back & Arms Combo
 This unit ships in 1 separately wrapped component.



Greenfields installation instructions:
 1. All units **MUST** be fully assembled, leveled, and braced in place in the footing hole before any concrete is poured.
 2. A monolithic pour **MUST** be used for concrete. (All concrete must be poured at one time)
 3. Concrete requirement: 3250 psi or better.
 4. The top of the blue tape attached to the posts on the equipment is final top surface level.
 5. All screws must be attached using LocTite.
 6. It is recommended to wait a minimum of one week after concrete is poured before equipment is used.
 7. The use of Decomposed Granite Surfacing (DG) is known to accelerate normal wear & tear of footrests.



Finished product
 Questions? Please call 888-315-9037 x105

During installation, please be sure to also refer to guidelines in Greenfields' Preliminary Instructions document.

- NOTE:
 1. INSTALL AS PER MANUFACTURER'S SPECIFICATIONS.
 2. REFER TO DETAIL 4 / EX-06 FOR SURFACE FINISH GRADE.

4 OUTDOOR EXERCISE EQUIPMENT
 SCALE: N.T.S.

Plotted By: Gonzalez, Gregory. Sheet Set: PBA - Fern Isle. Layout: EX-2 MANUFACTURER'S DETAILS EXHIBIT 2. May 01, 2019 11:08:10am K:\CRO_URLC\04\36430051_pba_fern_isle\landscape\CADD\plantings\1-350_Hardscape_Details.dwg

INSTALLATION INSTRUCTIONS

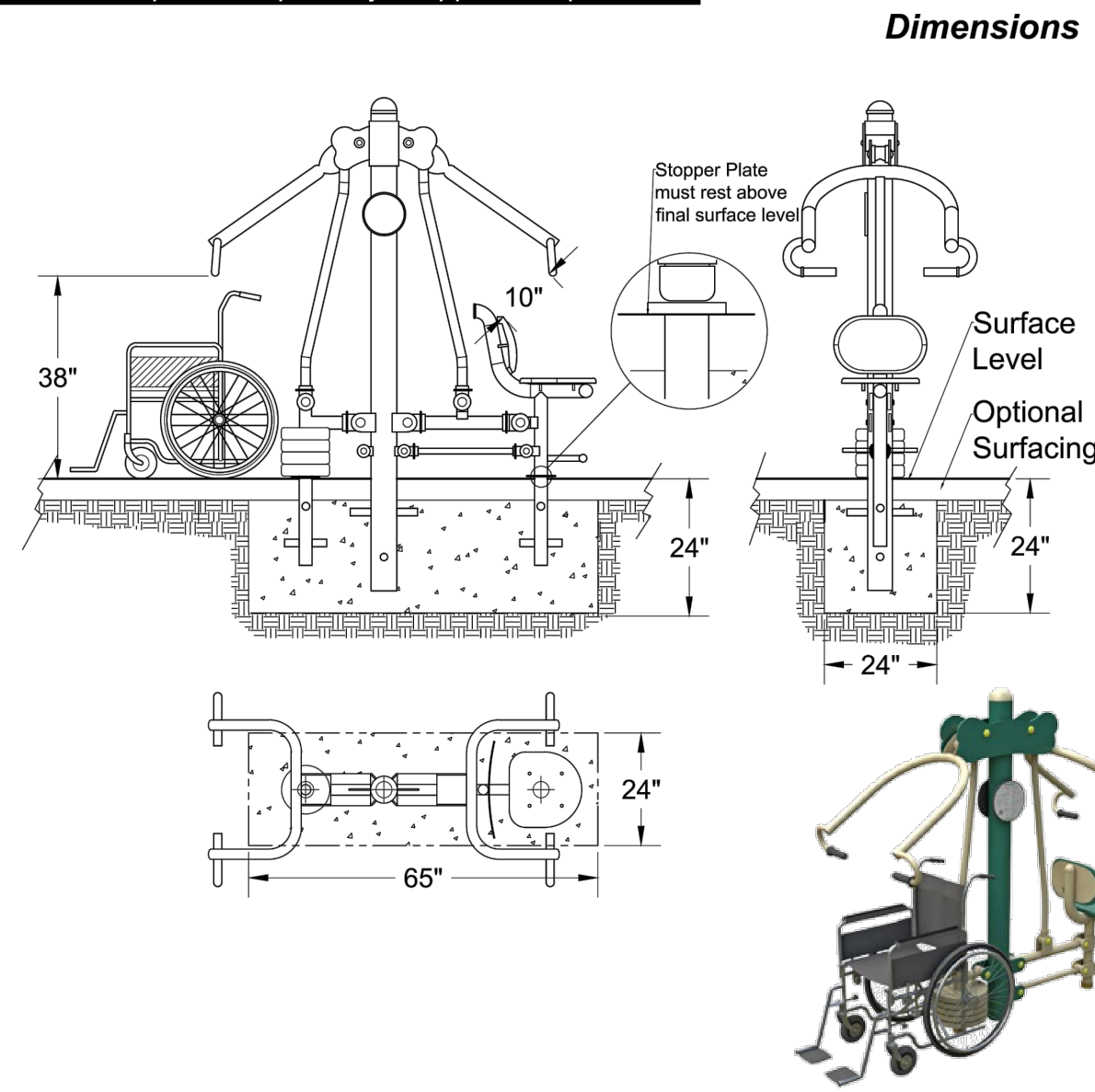
Model:GR2005-1-47-W
 Name:2-Person Accessible Vertical Press
 U.S. Pat. No. 9,079,069 B1

This unit ships in 1 separately wrapped component.



Promoting Wellness & Fighting Obesity One Community at a Time.

- Greenfields installation instructions:**
1. All units **MUST** be fully assembled, leveled, and braced in place in the footing hole before any concrete is poured.
 2. A monolithic pour **MUST** be used for concrete. (All concrete must be poured at one time)
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Finished product
 Questions? Please call 888-315-9037 x105

During installation, please be sure to also refer to guidelines in Greenfields' Preliminary Instructions document.

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- NOTE:
1. INSTALL AS PER MANUFACTURER'S SPECIFICATIONS.
 2. REFER TO DETAIL 4 / EX-06 FOR SURFACE FINISH GRADE.

1 OUTDOOR EXERCISE EQUIPMENT
 SCALE: N.T.S.

INSTALLATION INSTRUCTIONS

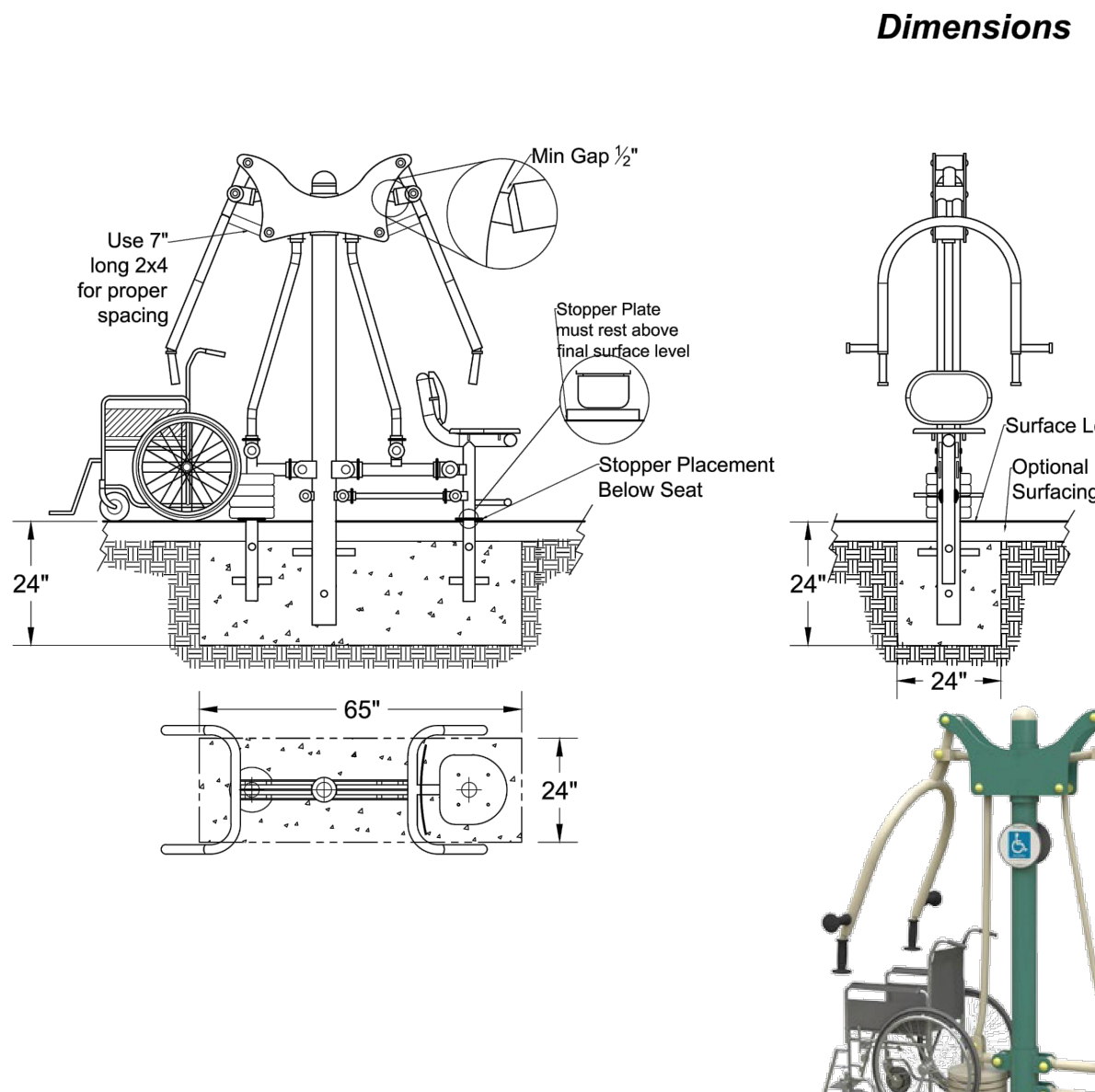
Model:GR2005-1-48A-W
 Name:2-Person Accessible Chest Press
 U.S. Pat. No. 9,079,069 B1

This unit ships in 1 separately wrapped component.



Promoting Wellness & Fighting Obesity One Community at a Time.

- Greenfields installation instructions:**
1. All units **MUST** be fully assembled, leveled, and braced in place in the footing hole before any concrete is poured.
 2. A monolithic pour **MUST** be used for concrete. (All concrete must be poured at one time)
 3. Concrete requirement: 3250 psi or better.
 4. The top of the blue tape attached to the posts on the equipment is final top surface level.
 5. All screws must be attached using LocTite.
 6. It is recommended to wait a minimum of one week after concrete is poured before equipment is used.
 7. The use of Decomposed Granite Surfacing (DG) is known to accelerate normal wear & tear of footrests.



Finished product
 Questions? Please call 888-315-9037 x105

During installation, please be sure to also refer to guidelines in Greenfields' Preliminary Instructions document.

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- NOTE:
1. INSTALL AS PER MANUFACTURER'S SPECIFICATIONS.
 2. REFER TO DETAIL 4 / EX-06 FOR SURFACE FINISH GRADE.

2 OUTDOOR EXERCISE EQUIPMENT
 SCALE: N.T.S.

INSTALLATION INSTRUCTIONS

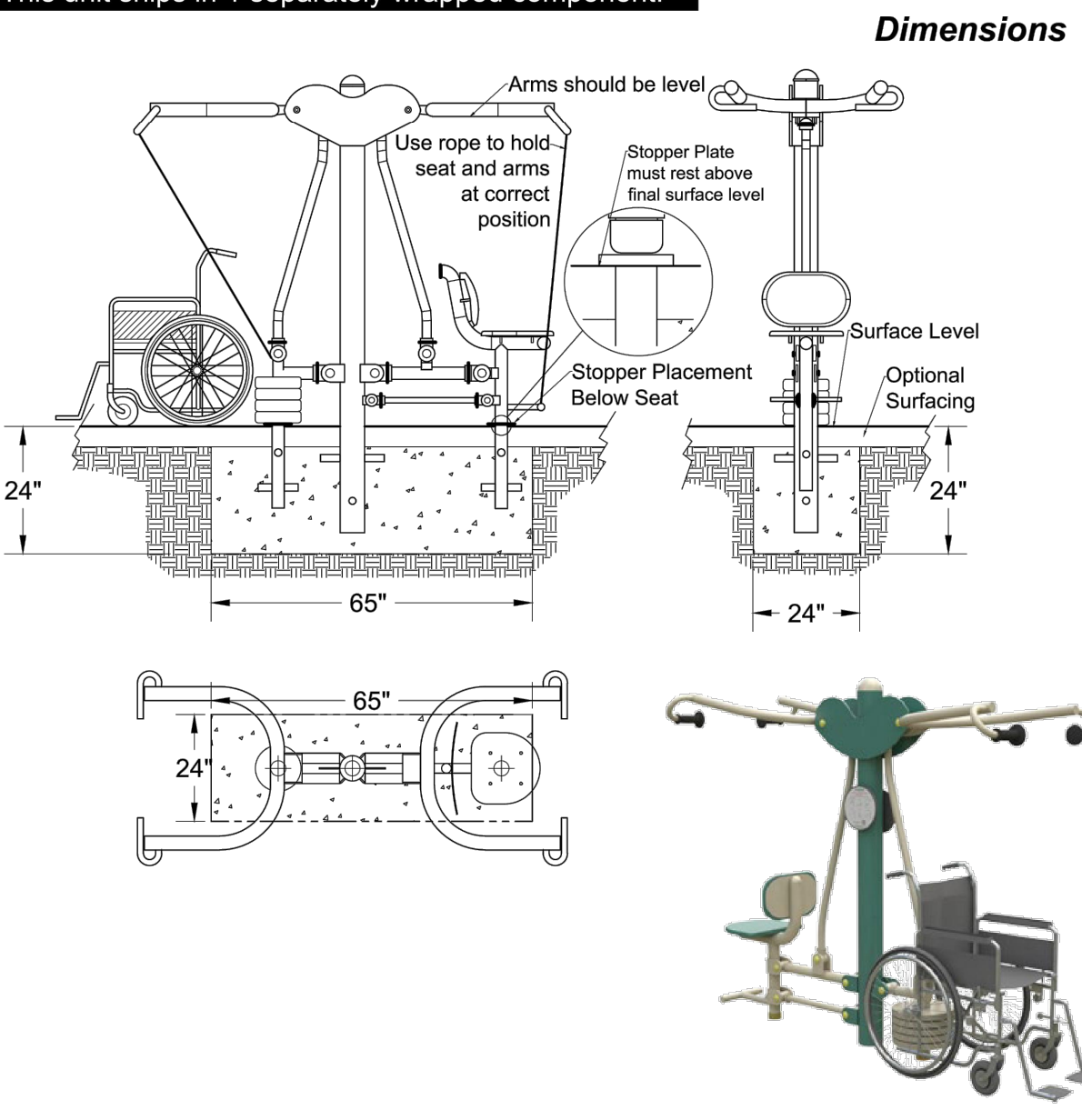
Model:GR2005-1-48-W
 Name:2-Person Accessible Lat Pull
 U.S. Pat. No. 9,079,069 B1

This unit ships in 1 separately wrapped component.



Promoting Wellness & Fighting Obesity One Community at a Time.

- Greenfields installation instructions:**
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 2. A monolithic pour **MUST** be used for concrete. (All concrete must be poured at one time)
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 7. The use of Decomposed Granite Surfacing (DG) is known to accelerate normal wear & tear of footrests.



Finished product
 Questions? Please call 888-315-9037 x105

During installation, please be sure to also refer to guidelines in Greenfields' Preliminary Instructions document.

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- NOTE:
1. INSTALL AS PER MANUFACTURER'S SPECIFICATIONS.
 2. REFER TO DETAIL 4 / EX-06 FOR SURFACE FINISH GRADE.

3 OUTDOOR EXERCISE EQUIPMENT
 SCALE: N.T.S.

INSTALLATION INSTRUCTIONS

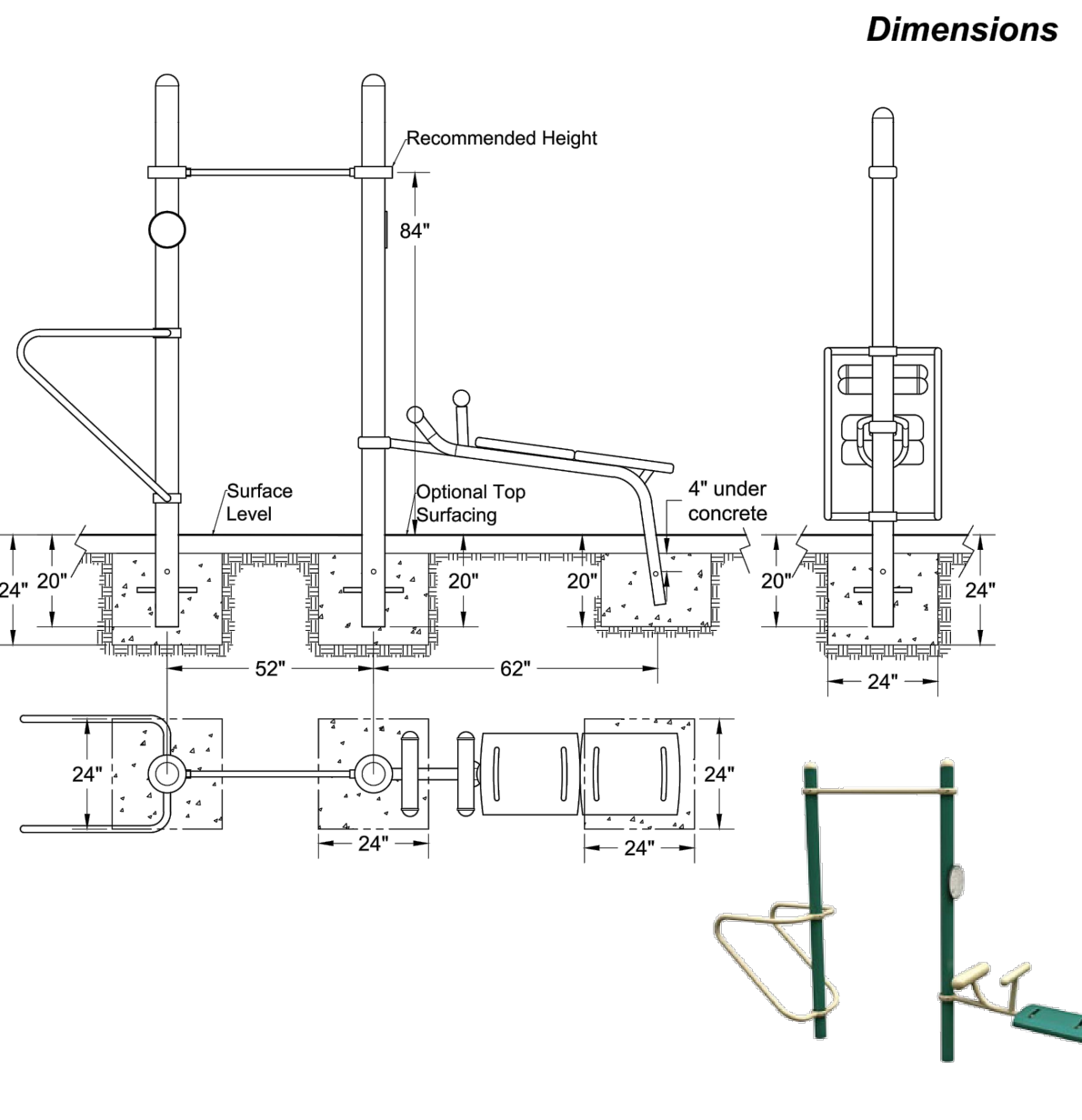
Model:GR2005-1-71
 Name:3-Person Static Combo

This unit ships in 4 separately wrapped components.



Promoting Wellness & Fighting Obesity One Community at a Time.

- Greenfields installation instructions:**
1. All units **MUST** be fully assembled, leveled, and braced in place in the footing hole before any concrete is poured.
 2. A monolithic pour **MUST** be used for concrete. (All concrete must be poured at one time)
 3. Concrete requirement: 3250 psi or better.
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 7. The use of Decomposed Granite Surfacing (DG) is known to accelerate normal wear & tear of footrests.



Finished product
 Questions? Please call 888-315-9037 x105

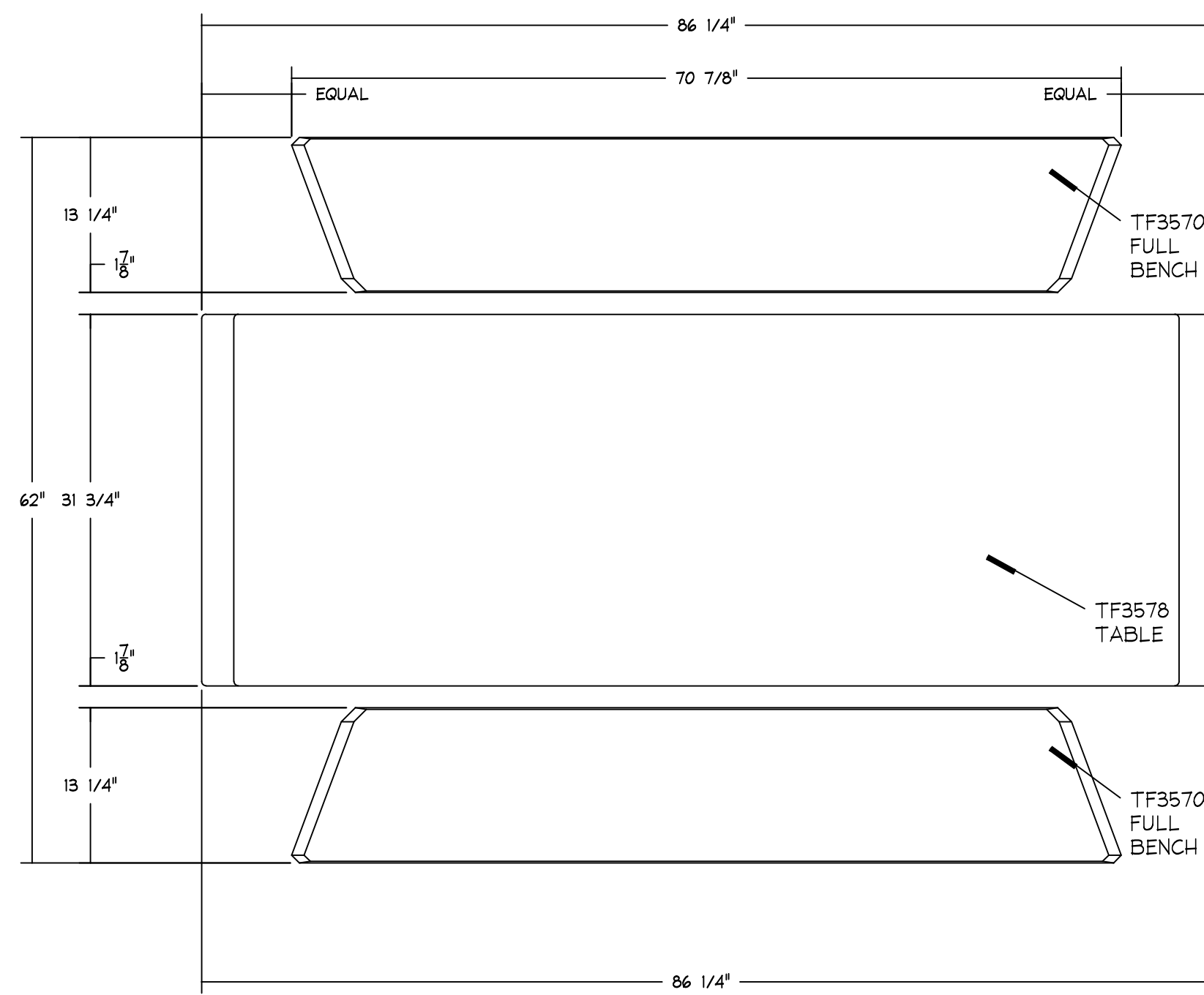
During installation, please be sure to also refer to guidelines in Greenfields' Preliminary Instructions document.

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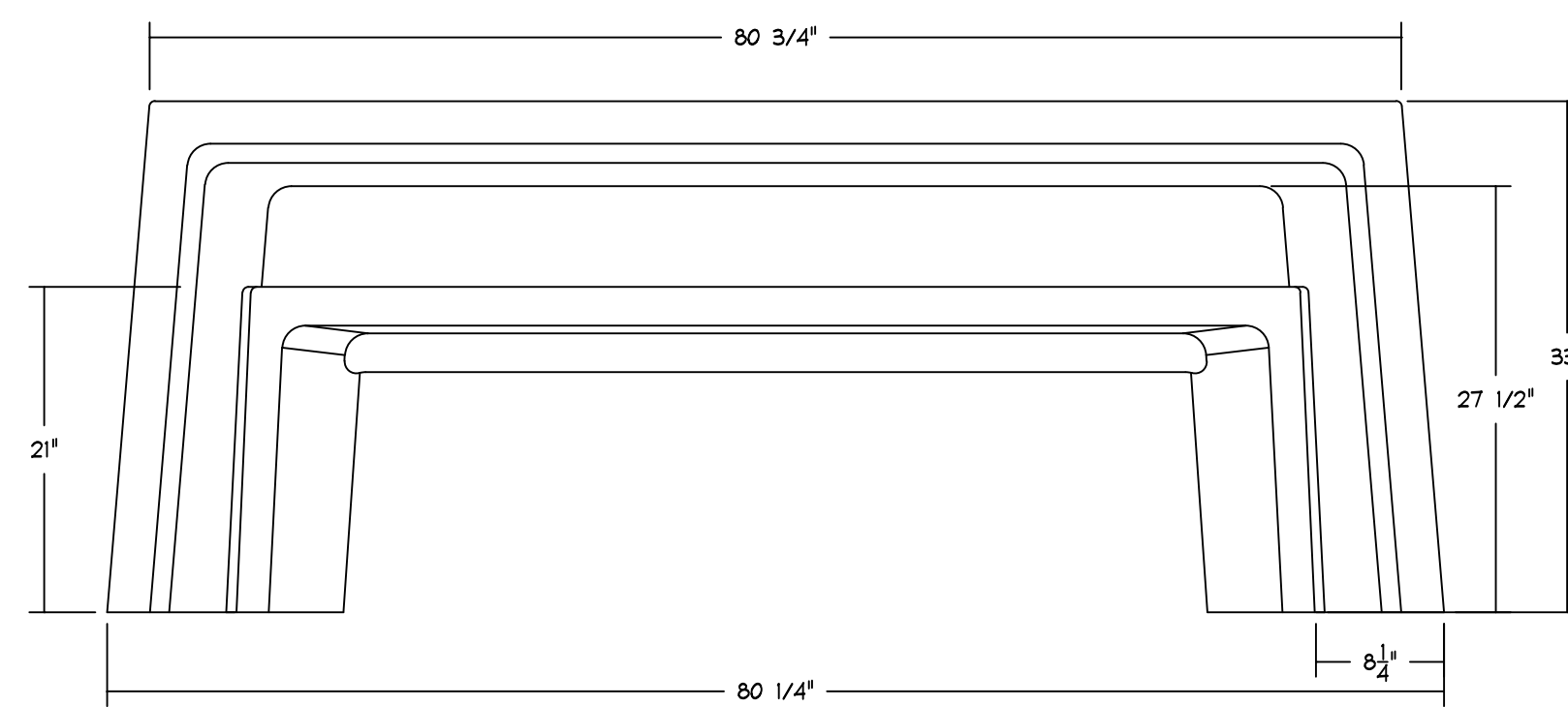
- NOTE:
1. INSTALL AS PER MANUFACTURER'S SPECIFICATIONS.
 2. REFER TO DETAIL 4 / EX-06 FOR SURFACE FINISH GRADE.

4 OUTDOOR EXERCISE EQUIPMENT
 SCALE: N.T.S.

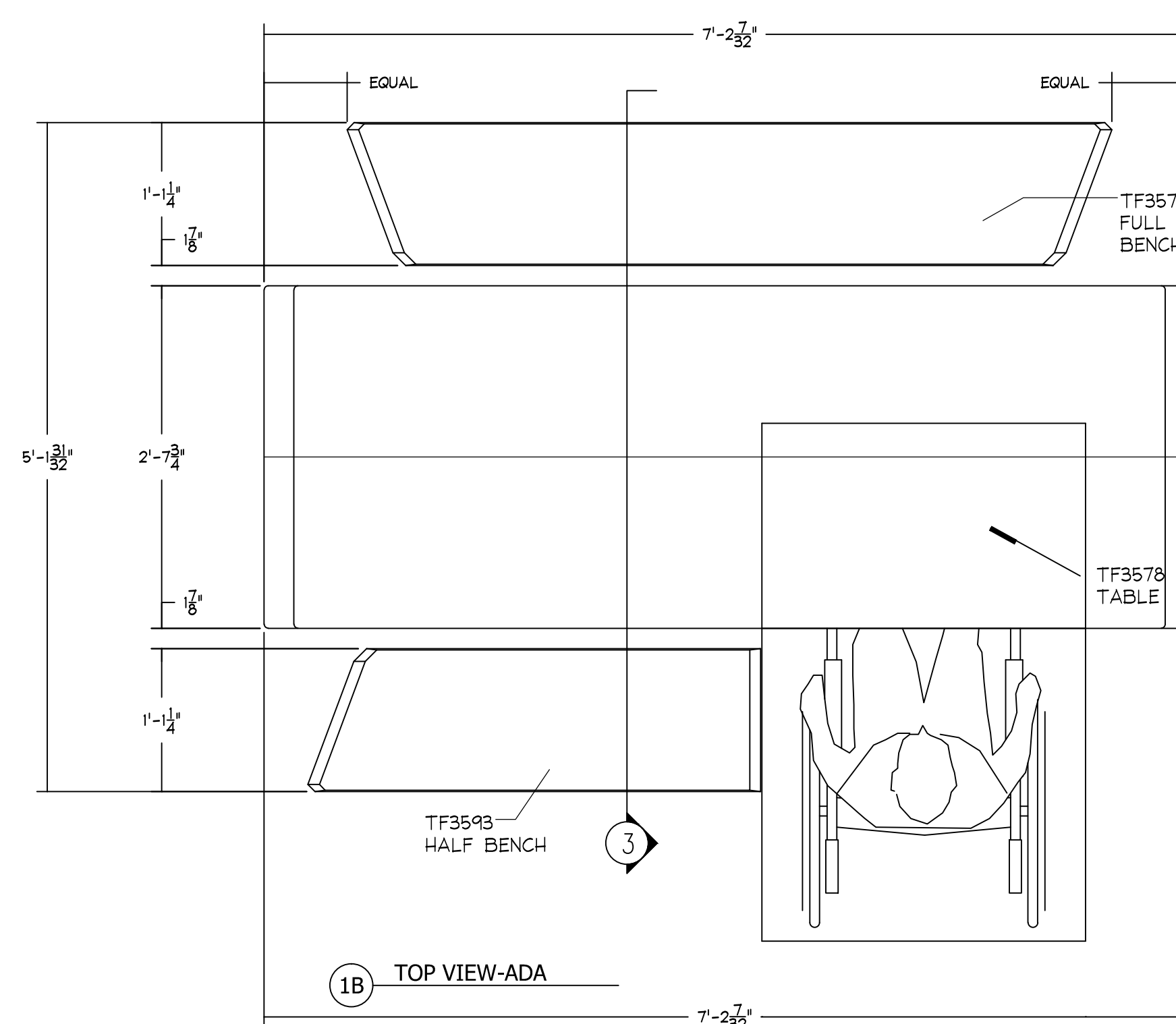
Plotted By: Gonzalez, Gregory. Sheet Set: PBA - Fern Isle. Layout: EX-3 - MANUFACTURER'S DETAILS EXHIBIT 3. May 01, 2019 11:08:13am K:\CRO_URLC\0436430051_pba_fern_isle\landscape\CADD\plantings\1-350_Hardscape_Details.dwg



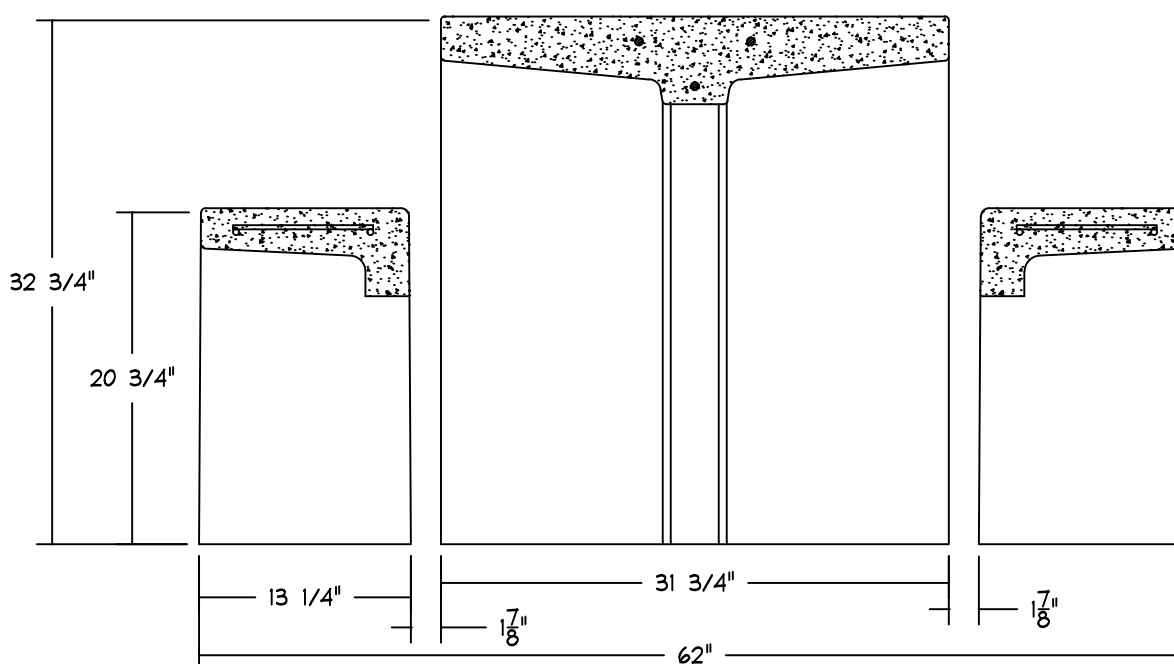
1A TOP VIEW-STANDARD



2 ELEVATION VIEW



1B TOP VIEW-ADA



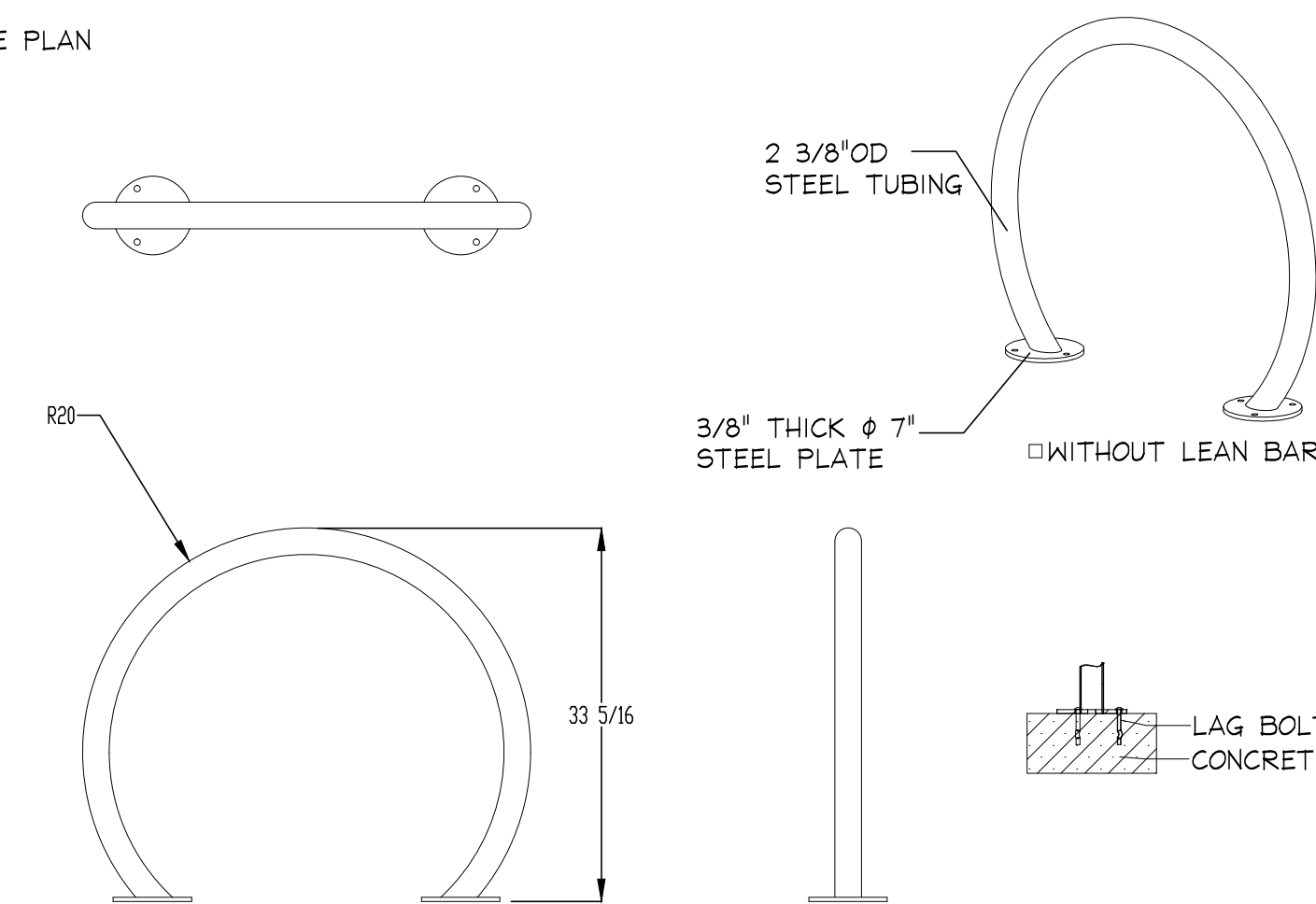
3 SECTION VIEW

MANUFACTURER: WAUSAU TILE
(800)388-8728
WWW.WAUSAUTILE.COM
OR APPROVED EQUAL

CONTACT: TROY DAHLKE (FL SALES REP)
813-334-0016 (MOBILE)
813-907-1756 (OFFICE)
TROYD27@VERIZON.NET (EMAIL)

MODEL: TF3200
REINFORCED CONCRETE

SIZE: 85\"/>



MANUFACTURER: MADRAX
OR APPROVED EQUAL

MODEL: ORION, ORN-2

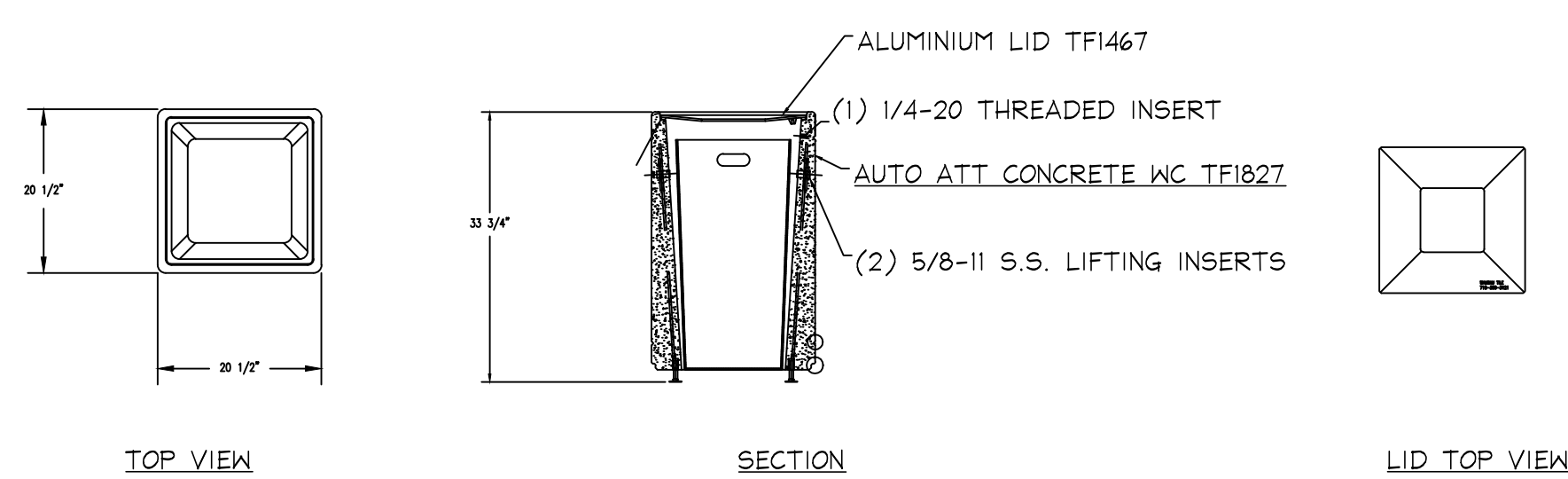
MOUNTING: SURFACE MOUNT

FINISH: PLATINUM

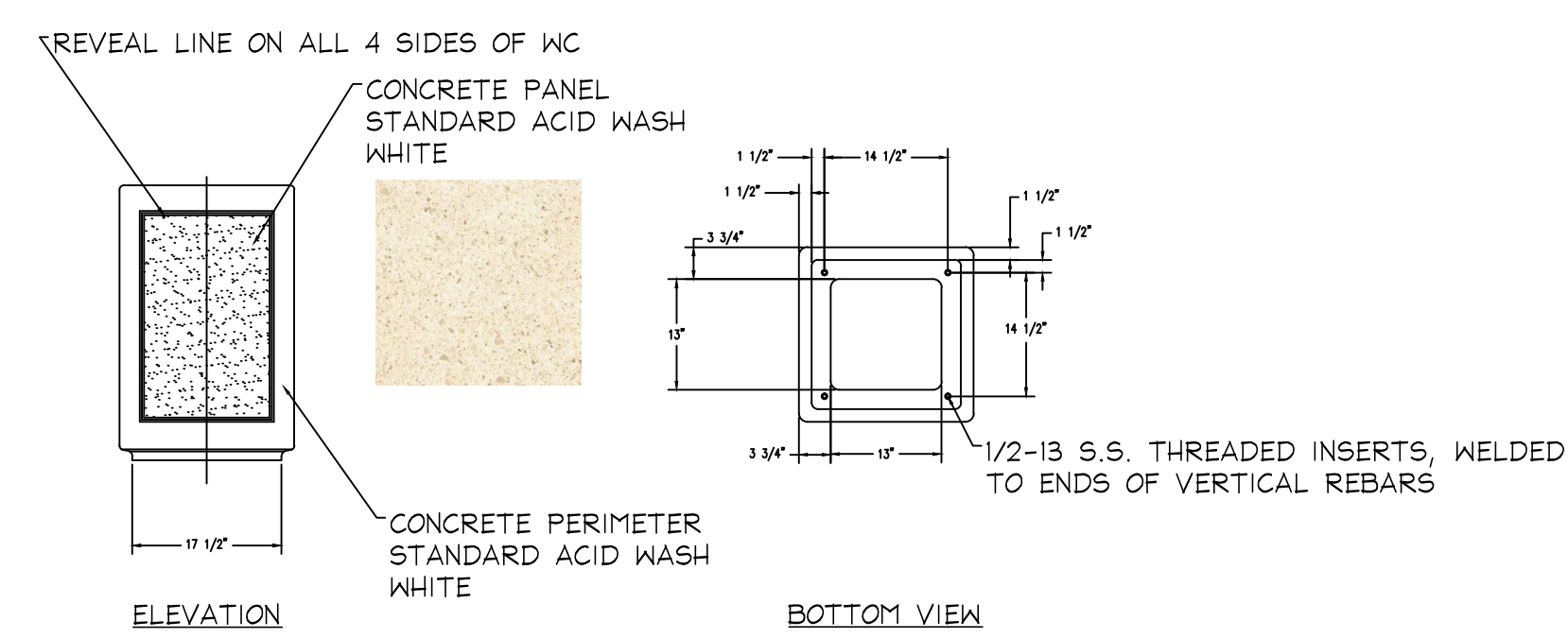
NOTES: SURFACE MOUNT INSTALL PER
MANUFACTURER'S SPECIFICATIONS WITH
APPROVED HARDWARE

2 BIKE RACK
SCALE: 1\"/>

1 WAUSAU TILE PRECAST CONCRETE PICNIC TABLE
SCALE: 1\"/>



PHOTO



MANUFACTURER: WAUSAU TILE
(800)388-8728
WWW.WAUSAUTILE.COM
OR APPROVED EQUAL

CONTACT: TROY DAHLKE (FL SALES REP)
813-334-0016 (MOBILE)
813-907-1756 (OFFICE)
TROYD27@VERIZON.NET (EMAIL)

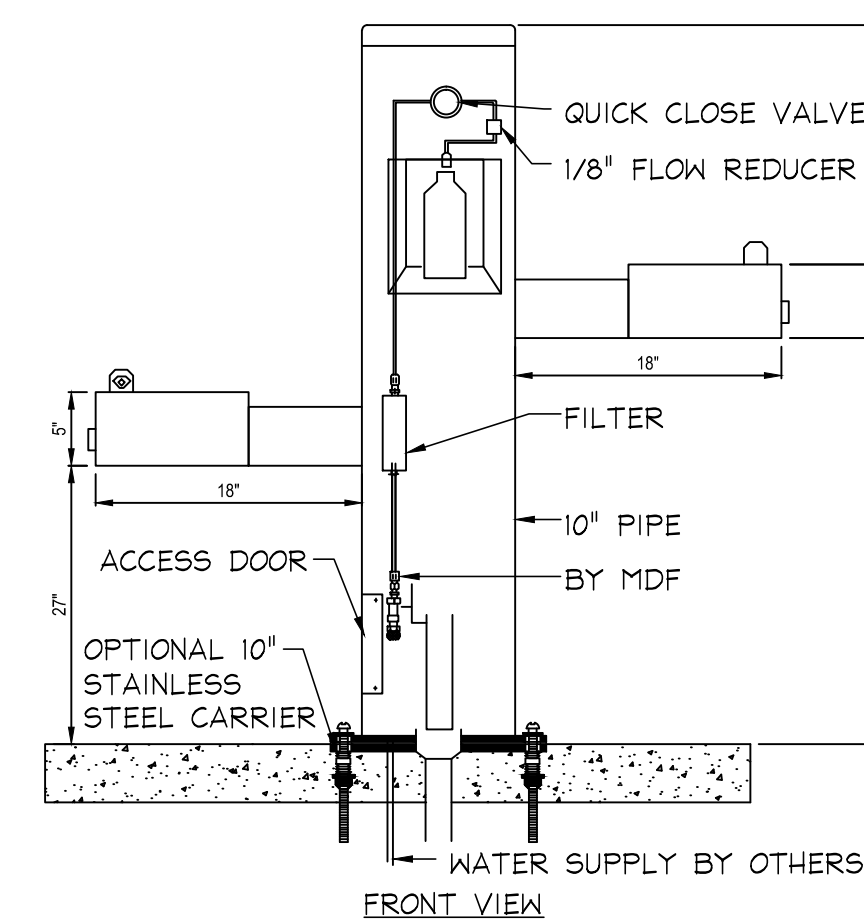
MODEL: TF1240
43 GALLON ADA ACCESSIBLE
SQUARE WASTE CONTAINER WITH ALUMINUM LID

PARTS: (1) ALUMINUM LID - ALUMINUM POWDER COATED
(1) CONCRETE BASE
(1) SECURITY CABLE ASSEMBLY
(1) POLYETHYLENE LINER

FINISH: SEE ELEVATION DRAWING.

SURFACE MOUNT INSTALL PER MANUFACTURER'S SPECIFICATION.

3 PRECAST CONCRETE WASTE RECEPTACLE
SCALE: 1\"/>



MANUFACTURER: MOST DEPENDABLE FOUNTAINS, INC
(800)552-6331
WWW.MOSTDEPENDABLE.COM
OR APPROVED EQUAL

MODEL: 10145 SM65
OUTDOOR BOTTLE FILLER STATION

FINISH: ZINC POWDER COAT CHROME

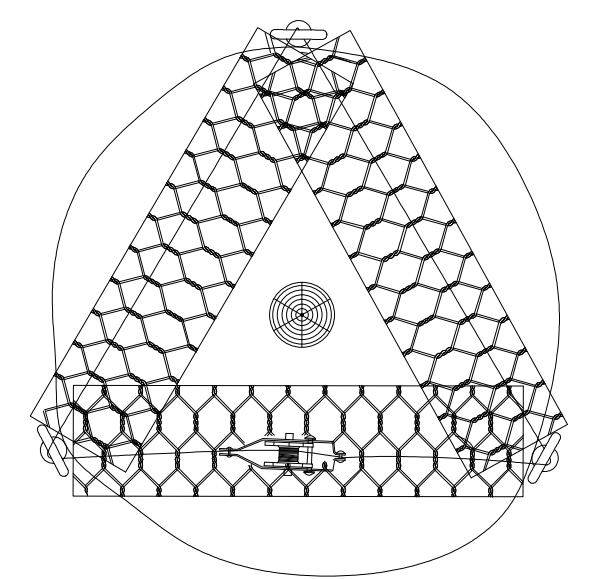
NOTES: 1. OPTIONAL STAINLESS STEEL SURFACE CARRIER
RECOMMENDED BY MANUFACTURER
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE
WITH MANUFACTURER'S SPECIFICATIONS
3. THIS DRAWING IS INTENDED TO BE USED FOR
PLANNING PURPOSES ONLY AND IS NOT TO BE USED
FOR CONSTRUCTION

4 DRINKING FOUNTAIN
SCALE: 1\"/>

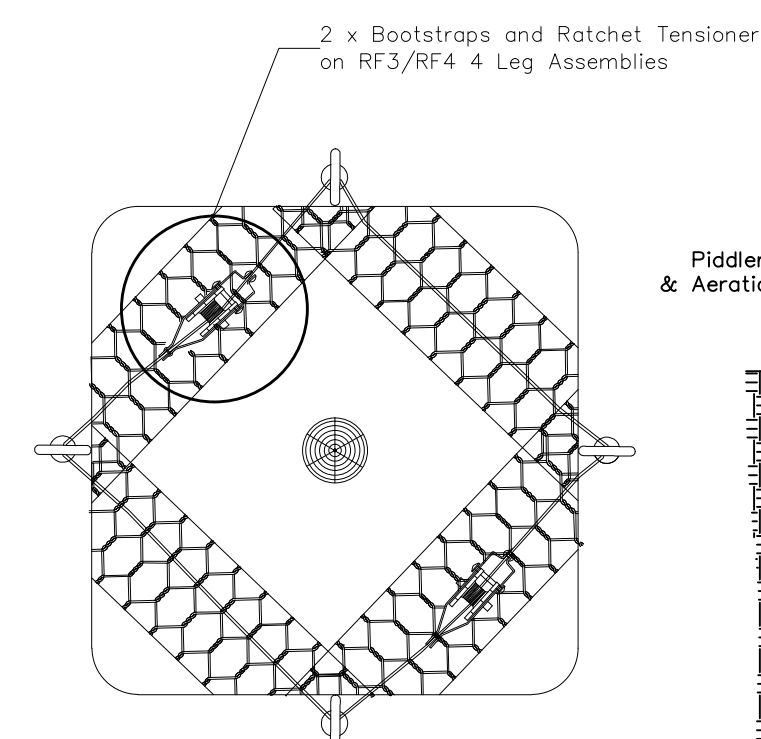
MANUFACTURER'S DETAILS
EXHIBIT 4

Plotted By: Gonzalez, Gregory Sheet Set: PBA Fern File Layout: EX-4 MANUFACTURER'S DETAILS EXHIBIT 4 May 01, 2019 11:08:16am K:\CRG_LRG\CAD\35430051 pba fern file\landscape\CADD\plansheets\1-350 Hardscape Details.dwg

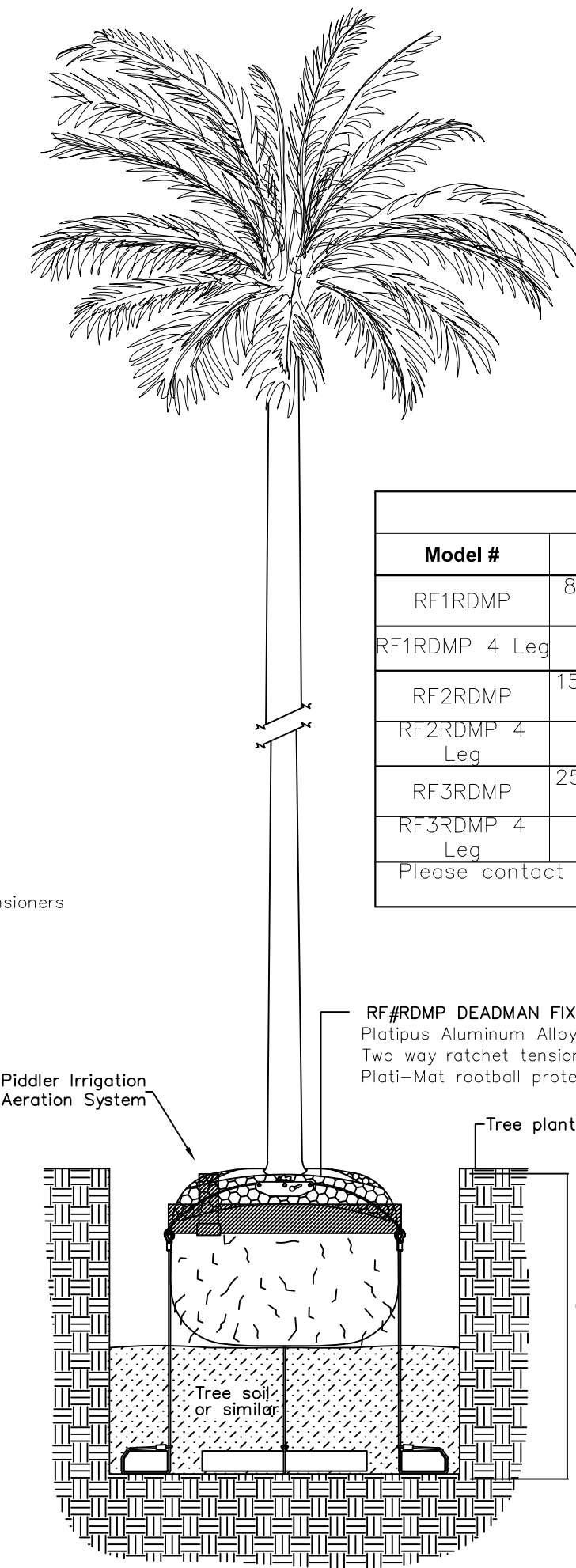
- NOTES**
- DO NOT SCALE FROM THIS DRAWING
 - THIS DRAWING IS CONSTRUCTED USING LAYERS WHICH CAN BE TURNED ON OR OFF AS REQUIRED
 - DUE TO SETTLEMENT ALL TREES SHOULD BE RE-TENSIONED AFTER PLANTING
 - SOIL MUST BE COMPACTED PROPERLY FOR DEADMAN SYSTEM TO WORK EFFECTIVELY



RF#RDMP 3 Leg



RF#RDMP 4 Leg



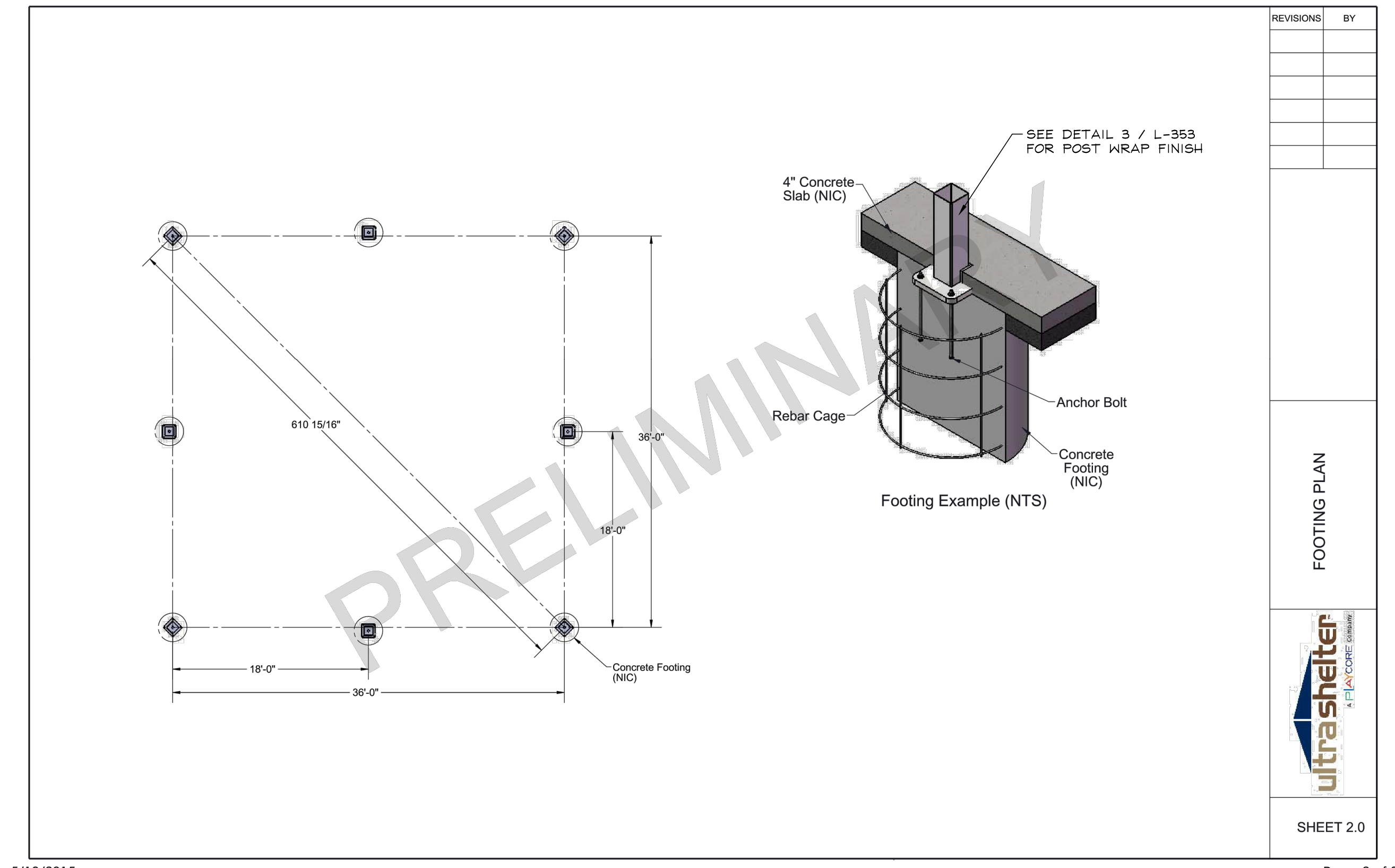
Model List		
Model #	Height - ft (m)	Caliper - in (mm)
RF1RDMP	8'-15" (2.5m - 4.5m)	1.5" - 3" (40mm - 75mm)
RF1RDMP 4 Leg	12" - 24" Box	
RF2RDMP	15'-25' (4.5m - 7.5m)	3" - 5.75" (75mm - 150mm)
RF2RDMP 4 Leg	24" - 48" Box	
RF3RDMP	25'-40' (7.5m - 12m)	5.75" - 9.5" (150mm - 230mm)
RF3RDMP 4 Leg	48" - 60" Box	

Please contact Platipus representative for boxes over 60"

NOTE:
DETAIL SHOWN FOR REFERENCE ONLY.
CONTRACTOR TO SUBMIT DETAILED
ENGINEERING DRAWINGS FOR APPROVAL
PRIOR TO CONSTRUCTION.

© 2015, PLATIPUS ANCHORS

1 PLATIPUS TREE ANCHOR
SCALE: NTS



REVISIONS	BY

FOOTING PLAN

SHEET 2.0

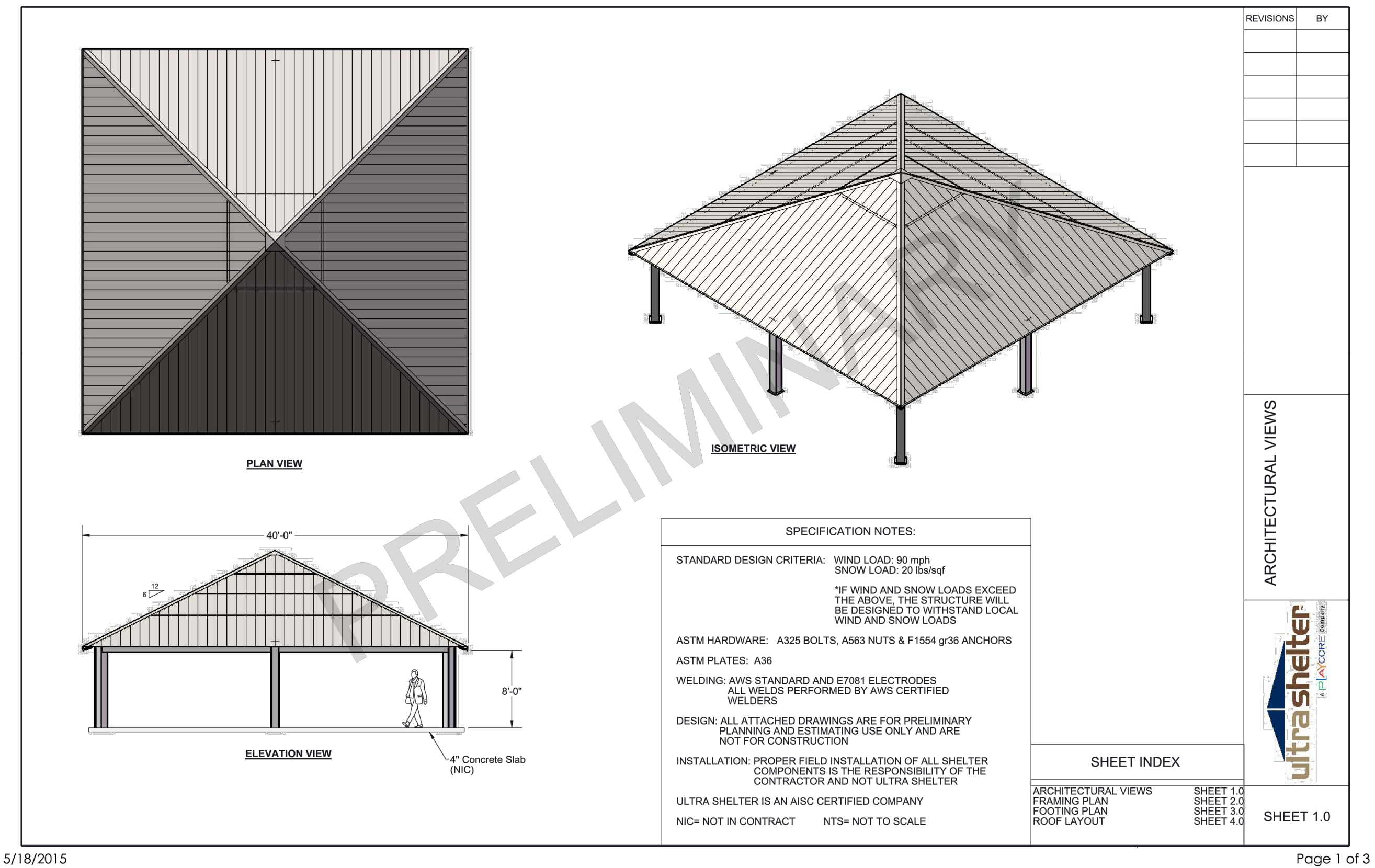
3 40'X40' PREFABRICATED SHELTER
SCALE: NTS



REVISIONS	BY

FOOTING PLAN

SHEET 3.0



SPECIFICATION NOTES:

STANDARD DESIGN CRITERIA: WIND LOAD: 80 mph
SNOW LOAD: 20 lbs/ft²

*IF WIND AND SNOW LOADS EXCEED THE ABOVE, THE STRUCTURE WILL BE DESIGNED TO WITHSTAND LOCAL WIND AND SNOW LOADS

ASTM HARDWARE: A325 BOLTS, A563 NUTS & F1554 gr36 ANCHORS

ASTM PLATES: A36

WELDING: AWS STANDARD AND E7018 ELECTRODES
ALL WELDS PERFORMED BY AWS CERTIFIED WELDERS

DESIGN: ALL ATTACHED DRAWINGS ARE FOR PRELIMINARY PLANNING AND ESTIMATING USE ONLY AND ARE NOT FOR CONSTRUCTION

INSTALLATION: PROPER FIELD INSTALLATION OF ALL SHELTER COMPONENTS IS THE RESPONSIBILITY OF THE CONTRACTOR AND NOT ULTRA SHELTER

ULTRA SHELTER IS AN AISC CERTIFIED COMPANY

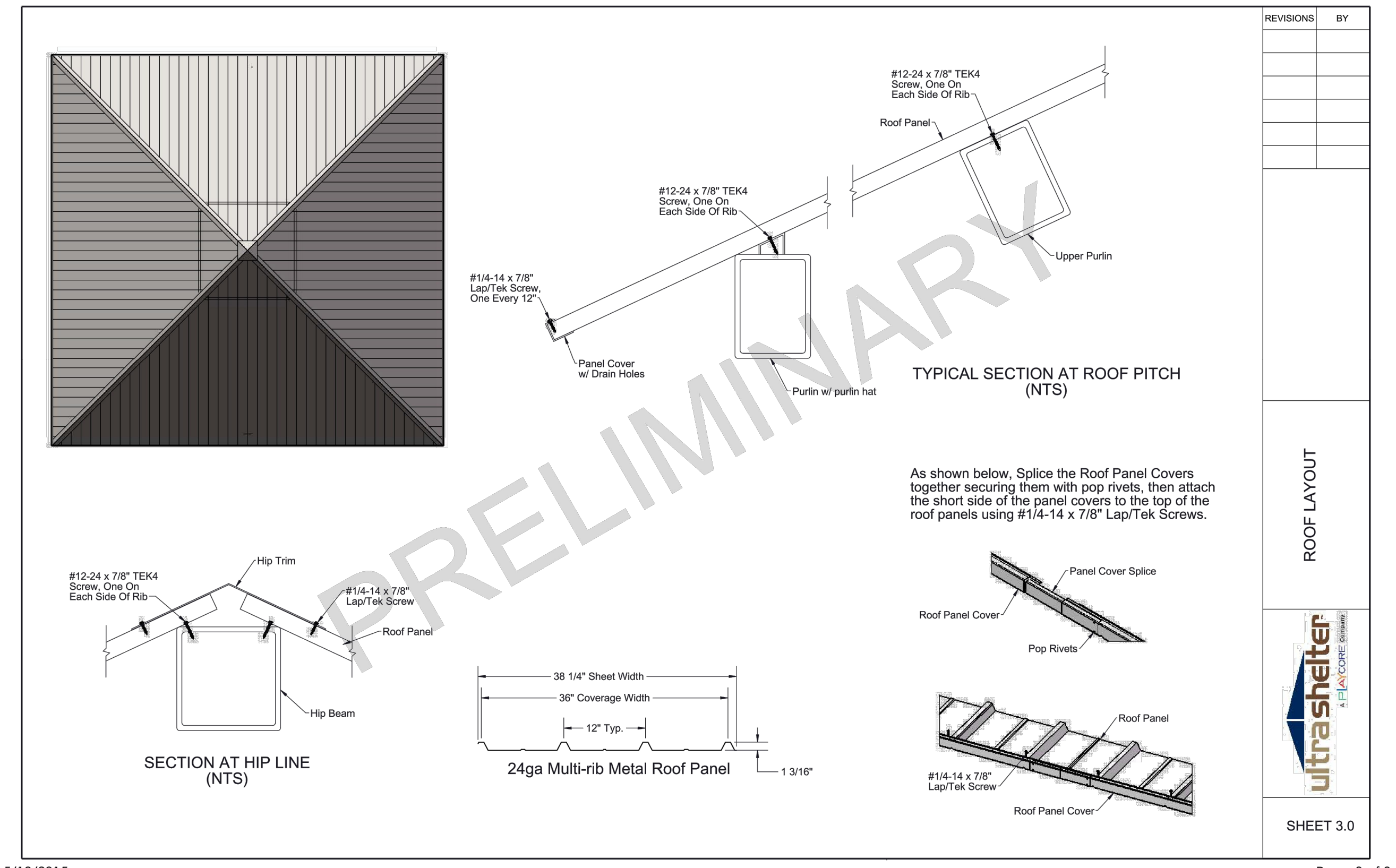
NIC= NOT IN CONTRACT NTS= NOT TO SCALE

SHEET INDEX	
ARCHITECTURAL VIEWS	SHEET 1.0
FRAMING PLAN	SHEET 2.0
FOOTING PLAN	SHEET 3.0
ROOF LAYOUT	SHEET 4.0

5/18/2015

Page 1 of 3

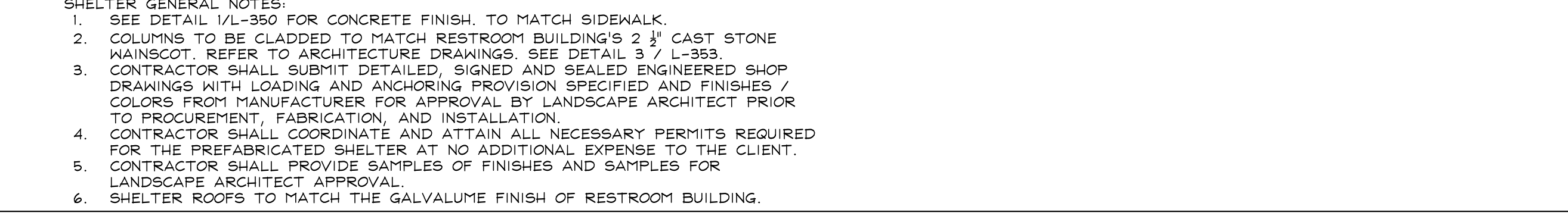
2 40'X40' PREFABRICATED SHELTER
SCALE: NTS



5/18/2015

Page 3 of 3

4 40'X40' PREFABRICATED SHELTER
SCALE: NTS



SHELTER GENERAL NOTES:

- SEE DETAIL 1/L-350 FOR CONCRETE FINISH, TO MATCH SIDEWALK.
- COLUMNS TO BE GLAZED TO MATCH RESTROOM BUILDING'S 2" CAST STONE MAINSCOTT. REFER TO ARCHITECTURE DRAWINGS. SEE DETAIL 3 / L-353.
- CONTRACTOR SHALL SUBMIT DETAILED, SIGNED AND SEALED ENGINEERED SHOP DRAWINGS WITH LOADING AND ANCHORING PROVISION SPECIFIED AND FINISHES / COLORS FROM MANUFACTURER FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO PROCUREMENT, FABRICATION, AND INSTALLATION.
- CONTRACTOR SHALL COORDINATE AND ATTAIN ALL NECESSARY PERMITS REQUIRED FOR THE PREFABRICATED SHELTER AT NO ADDITIONAL EXPENSE TO THE CLIENT.
- CONTRACTOR SHALL PROVIDE SAMPLES OF FINISHES AND SAMPLES FOR LANDSCAPE ARCHITECT APPROVAL.
- SHELTER ROOFS TO MATCH THE GALVALUME FINISH OF RESTROOM BUILDING.

Plotted By: Gonzalez, Gregory Sheet Set: PBA Fern Isle Layout: EX-5 MANUFACTURER'S DETAILS EXHIBIT 5 May 01, 2019 11:08:18am K:\DRC_LURC\04-364-30051_pba_fern_isle\landscape\CADD\plansheets\1-350_Hardscape_Details.dwg

MANUFACTURER'S DETAILS EXHIBIT 5

EX-5

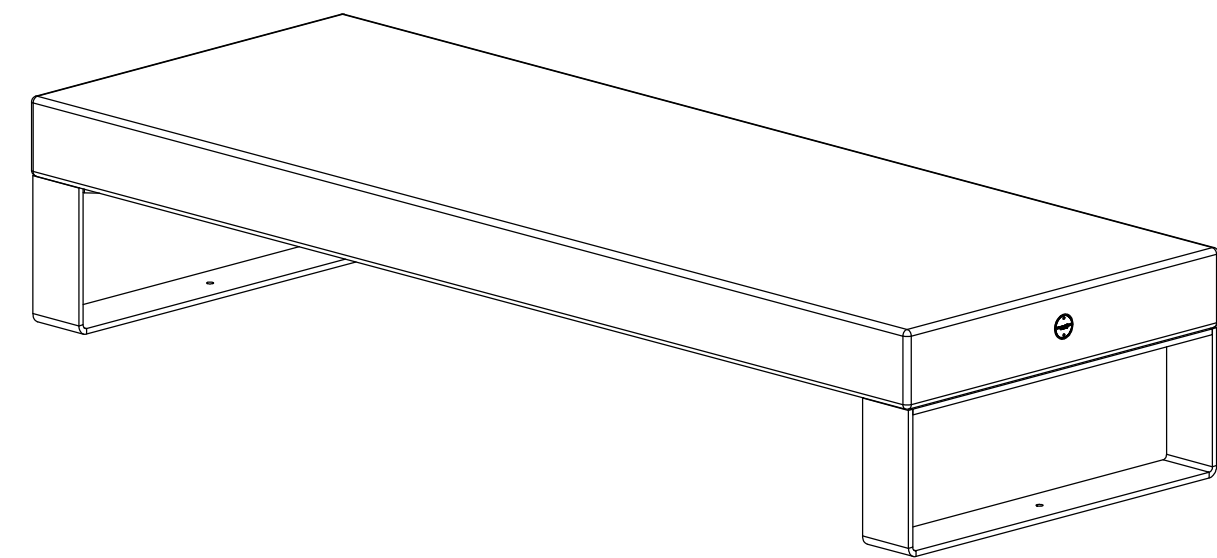
Plotted By: Gonzalez, Gregory Sheet Set: PBA Firm Title: Layout: EX-6 MANUFACTURER'S DETAILS EXHIBIT 6 May 01, 2019 11:08:23am K:\CRS_URS\0436430051_pba_firm_title\landscape\CADD\pba\firm\details.dwg

STANDARD BENCH NOTES:

- SEE HARDSCAPE PLAN FOR LOCATIONS AND QUANTITY.
- REFER TO MANUFACTURER DETAILS AND SPECIFICATIONS FOR INSTALLATION AND MAINTENANCE.
- CONTRACTOR SHALL FURNISH ALL NECESSARY ANCHORING DEVICES FOR COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS FOR ANCHORING.
- ANTI-GRAFFITI TREATMENT, SURFACE MOUNTED.
- CONTRACTOR SHALL PROVIDE PRODUCT DATA FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO PROCUREMENT, FABRICATION, AND INSTALLATION.

SPECIFICATIONS:
MANUFACTURER: ID CREATED
PRODUCT: SS DIAMANTE P STRAIGHT (BACKLESS)
FINISH:
1. PLANE: HIGH PERFORMANCE CONCRETE IN VELLUTO GRANITE (WHITE) COLOR WITHOUT WOOD SEAT OR BACKREST.
2. SUPPORTS: STAINLESS STEEL

metalco DIAMANTE - COLLEZIONE PIETRE DI MARMO DESIGN MICHELE SLAVIERO, SEDUTE METALLICHE RAFFAELE LAZZARI, SCHIENALE TUBOLARE ALESSANDRO LENARDA
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Edition 01
Data 25/11/10



SPECIALTY BENCH NOTES:

- SEE HARDSCAPE PLAN FOR LOCATIONS AND QUANTITY.
- REFER TO MANUFACTURER DETAILS AND SPECIFICATIONS FOR INSTALLATION AND MAINTENANCE.
- CONTRACTOR SHALL FURNISH ALL NECESSARY ANCHORING DEVICES FOR COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS FOR ANCHORING.
- ANTI-GRAFFITI TREATMENT, SURFACE MOUNTED.
- CONTRACTOR SHALL PROVIDE PRODUCT DATA FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO PROCUREMENT, FABRICATION, AND INSTALLATION.

SPECIFICATIONS:
MANUFACTURER: ID CREATED
PRODUCT: SS DIAMANTE SINGLE SEAT WITH SSI 45 BACKREST
FINISH:
1. PLANE: HIGH PERFORMANCE CONCRETE IN VELLUTO GRANITE COLOR
2. SUPPORTS: STAINLESS STEEL
3. BACKREST: UNTREATED IPE WOOD

metalco DIAMANTE - COLLEZIONE PIETRE DI MARMO DESIGN MICHELE SLAVIERO, SEDUTE METALLICHE RAFFAELE LAZZARI, SCHIENALE TUBOLARE ALESSANDRO LENARDA
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Edition 01
Data 25/11/10



1 id METALCO DIAMANTE P STRAIGHT (WITHOUT SEAT OR BACKREST)
SCALE: N.T.S.

2 id METALCO SS DIAMANTE SINGLE SEAT - CURVED WITH WOOD BACKREST
SCALE: N.T.S.

NOTES:

- CONCRETE PER ASTM C-94, 3000 PSI MINIMUM @ 28 DAYS.
- REINFORCING STEEL TO BE ASTM A-615, DEFORMED BILLET.
- COMPACTED BACKFILL SHALL ATTAIN A DRY DENSITY EQUIVALENT TO 95% OF THE MAXIMUM OBTAINED IN ASTM D-698. SELECT SOIL OR BACKFILL SHALL BE PLACED IN LAYERS NOT EXCEEDING 6" IN THICKNESS.
- MINIMUM SOIL BEARING PRESSURE SHALL BE 2000 PSF FOR IHS DESIGN. SPECIFIC SITE CONDITIONS MAY REQUIRE ENGINEERING.

SPECIFICATION:
Bollard Material 8" SCH.80 A53 Pipe
Bollard Finish:
 Powdercoat Finish RAL #:
 H.D.G.
 Other:

CONTRACTOR SHALL PROVIDE PRODUCT DATA AND COLOR SAMPLE FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO PROCUREMENT, FABRICATION, AND INSTALLATION.

DESIGN FOR M30 / K4 LOADING

Company: _____
Project Name: _____
Signee's Name Written Clearly: _____ Date: _____
Authorized Signature: _____

CALPIPE INDUSTRIES 19440 S. DOMINGUEZ HILLS DR. www.CalPipeBollards.com
INCORPORATED RANCHO DOMINGUEZ, CA. 90220, USA 562.803.4388 Direct
310.885.1899 Fax

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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES: TOLERANCES: FRACTIONAL 1/4 ANGULAR MATCH 1/8 BEND 1/2 TWO PLACE DECIMAL THREE 1,010 PLACE DECIMAL 1,000

SIZE B DRAWN BY: SPL DRAWN DATE: 9/23/2015 REV: SHEET: 1 OF 1 PDT8080F- 8" BOLLARD FIXED

NOT TO SCALE
invisible Structures, Inc. GVDET18.DWG

3 VEHICULAR BOLLARD
SCALE: N.T.S.

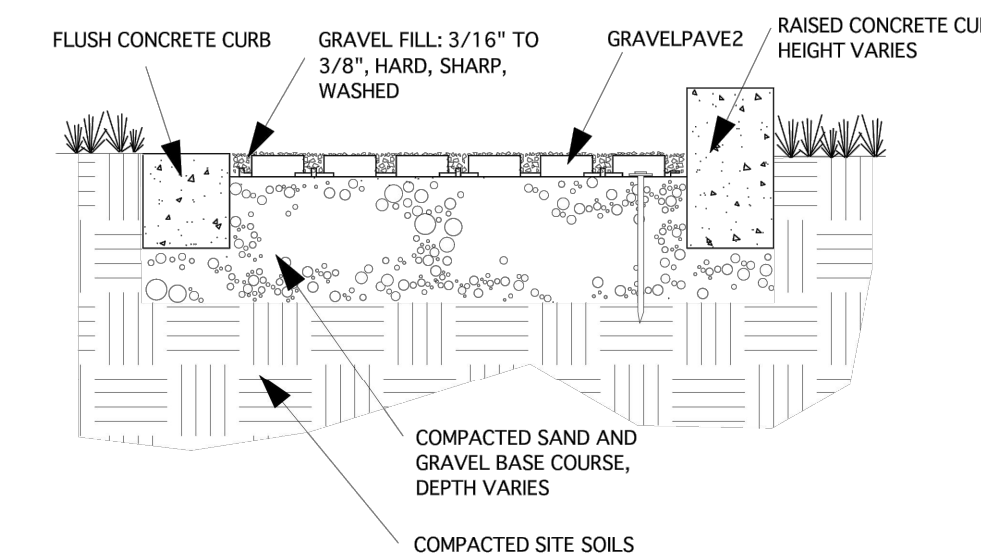
SPECIFICATIONS

UNITS
UNIT SIZE - 50 CM X 50 CM X 2.5 CM OR 1 M X 1 M X 2.5 CM (20" X 20" X 1" OR 40" X 40" X 1")
AVAILABLE IN 9 STANDARD ROLL SIZES

UNIT WEIGHT - 538 GRAMS (19 OZ.) OR 2.2 KG (4.8 POUNDS)
STRENGTH - 11 21 KG/CM² (15,940 PSI)
COLOR - BLACK (STANDARD)
RESIN - 100% POST-CONSUMER RECYCLED HDPE
FABRIC WEIGHT - 1.4 TO 1.7 OZ/SY (47-58 GM/M²)
TENSILE - 120 LB/FT² (595 KG/M²)
FLOW - 275 GAL/MIN/SF (11,200 L/MIN/M²)

GRAVELPAVE2
ADJACENT GRAVELPAVE2
SEE ENLARGEMENT BELOW
FILTER FABRIC ATTACHED TO BOTTOM OF GRAVELPAVE2
GRAVELPAVE2 FILLED WITH 3/16" TO 3/8" ANGULAR GRAVEL, UNIFORM SIZE, WASHED
COMPACTED SANDY GRAVEL ROAD BASE - 95% MODIFIED PROCTOR DENSITY - SEE FULL TECHNICAL SPECIFICATIONS FOR COMPOSITION
AS PER LOADING REQUIREMENTS
COMPACTED SUBGRADE

TOP OF GRAVEL
GRAVELPAVE2 ATTACH WITH SNAP FIT FASTENERS
FILTER FABRIC - OVERLAPPING JOINTS
FILL RING SECTION WITH 3/16" TO 3/8" ANGULAR GRAVEL, UNIFORM SIZE, WASHED
COMPACTED SANDY GRAVEL BASE COURSE



CONCRETE CURB EDGING

TYPICAL GRAVELPAVE2 DETAIL

4 STABILIZED GRAVEL AT OUTDOOR FITNESS EQUIPMENT AREA
SCALE: N.T.S.

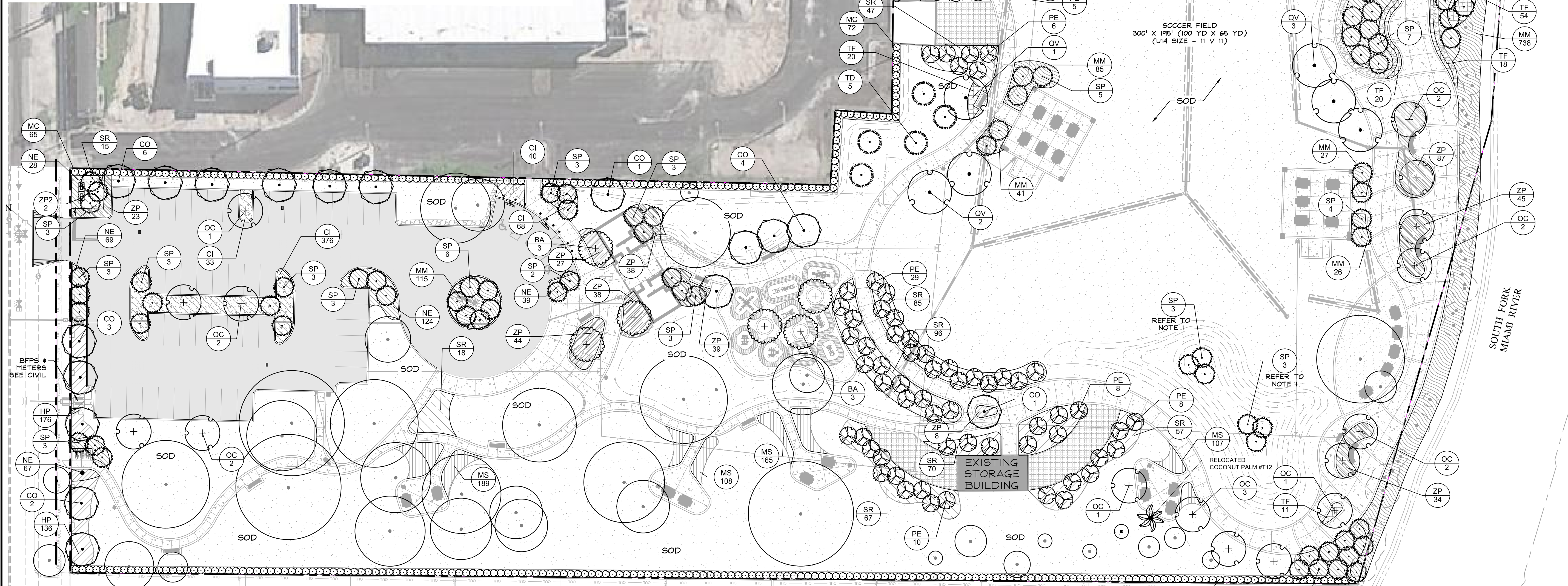
NOTE:
1. CONTRACTOR SHALL PROVIDE SAMPLE OF 3/8" ANGULAR GRAVEL TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO PROCUREMENT AND INSTALLATION.
2. CONTRACTOR SHALL PROVIDE 4'X4' MOCK UP OF GRAVEL AND GRAVELPAVE2 FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO PROCUREMENT, FABRICATION AND INSTALLATION.
3. REFER TO DETAIL 2 / L-350 FOR ADDITIONAL INFORMATION ABOUT GRAVEL.

MANUFACTURER'S DETAILS EXHIBIT 6



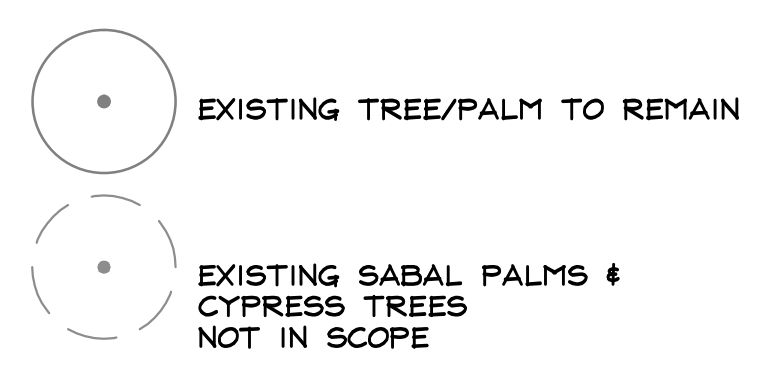
Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!



PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	FIELD1	FIELD2	FIELD3	SHRUB AREAS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	SPACING
	BA	6	BULNESIA ARBOREA	VERAWOOD	FG	4" CAL MIN	20' HT.		CI	517	CHRYSOBALANUS ICACO 'HORIZONTAL'	HORIZONTAL COCOPLUM	CONT.	24" O.C.	20' HT.
	CO	17	CHRYSOPHYLLUM OLIVIFORME	SATINLEAF	FG	4" CAL MIN	16' HT.		HP	294	HAMELIA PATENS 'COMPACTA'	DWARF FIRE BUSH	CONT.	24" O.C.	24" X 24"
	OC	17	OLEA CAPENSIS	BLACK IRONWOOD	FG	4" CAL MIN	16' HT.		MM	1,068	MUHLENBERGIA CAPILLARIS	PINK MUHLY	CONT.	30" O.C.	20' HT.
	QV	15	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	B&B	8"-10" CAL.	25' OAH		MS	727	MICROSORUM SCOLOPENDRUM	WART FERN	CONT.	18" O.C.	15'X15'
	TD	15	TAXODIUM DISTICHUM	BALD CYPRESS	FG	2" CAL.	12' HT.		NE	1,945	NEPHROLEPSIS EXALTATA	SWORD FERN	CONT.	18" OC	12' HT.
	SP	115	SABAL PALMETTO	CURVED TRUNK SABAL PALM	FG	2" CAL.	16'-22' CT.		PN	258	PSYCHOTRIA NERVOSA	WILD COFFEE	CONT.	24" O.C.	24" X 24"
	PE	66	PINUS ELLIOTTI	SLASH PINE	FG	2" CAL.	16' HT.		SR	506	SERENOA REPENS 'SILVER FORM'	SILVER SAW PALMETTO	CONT.	30" O.C.	24' HT.
	MC	444	MYRCIANTHES FRAGRANS	SIMPSON'S STOPPER	CONT.	48" OC	36" HT.		TF	249	TRIPSACUM FLORIDANUM	FLORIDA GAMAGRASS	CONT.	30" O.C.	24" X 24"
	ZP2	2	ZAMIA PUMILA	COONTIE	CONT.	AS SHOWN	24" X 24"		ZP	383	ZAMIA PUMILA	COONTIE	CONT.	30" OC	24' HT.
									SOD	133,377 SF	STENOTAPHRUM SECUNDATUM	ST. AUGUSTINE 'PALMETTO'	SOD		



NOTE:
 1. (6) SABALS PALMS ON SODDED MOUND TO BE ANCHORED WITH PLATIPUS TREE ANCHOR. REFER TO DETAIL 1 / EX-6
 2. REFER TO SHEET L-200 - TREE DISPOSITION FOR PLANT SIGN REQUIREMENT

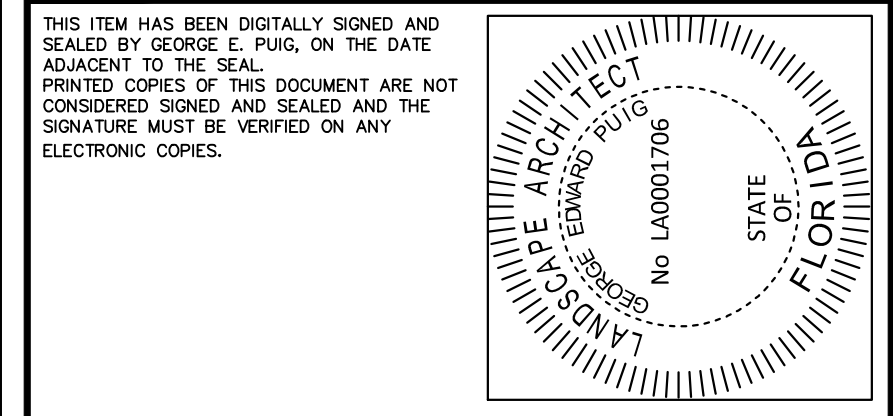
SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

LANDSCAPE PLAN

SHEET TITLE:



No.	REVISIONS - SUBMITTALS	DATE
01	PERMIT SET REV 01	03/08/19
02	PERMIT SET REV 02	04/26/19

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GENERAL LANDSCAPE SPECIFICATIONS AND NOTES

A. SCOPE OF WORK

- 1. THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS HEREIN SPECIFIED.
- 2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER.

B. PROTECTION OF EXISTING STRUCTURES

ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, OTHER SITE CONSTRUCTION ITEMS, AND PLANTING ALREADY COMPLETED OR ESTABLISHED SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.

C. PROTECTION OF EXISTING PLANT MATERIALS OUTSIDE LIMIT OF WORK

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS EXISTING OR OTHERWISE, CAUSED BY CARELESS EQUIPMENT OPERATION, MATERIAL STOCKPILING, ETC. THIS SHALL INCLUDE COMPRESSION BY DRIVING OR PARKING WITHIN THE DRIP-LINE AND SPILLING OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP-LINE. NO MATERIALS SHALL BE BURNED WHERE HEAT WILL DAMAGE ANY PLANT. EXISTING TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF ONE HUNDRED DOLLARS (\$100) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY (20) PERCENT PER INCH OVER FOUR (4) INCHES CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES. CALIPER SHALL BE MEASURED SIX (6) INCHES ABOVE GROUND LEVEL FOR TREES UP TO AND INCLUDING FOUR (4) INCHES IN CALIPER AND TWELVE (12) INCHES ABOVE GROUND LEVEL FOR TREES OVER FOUR (4) INCHES IN CALIPER.

D. MATERIALS

1. GENERAL

MATERIALS LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL. UPON SUBMITTALS' APPROVAL, DELIVERY OF MATERIALS MAY COMMENCE.

MATERIAL	SUBMITTAL
MULCH	PRODUCT DATA
TOPSOIL MIX	AMENDMENT MIX/ PRODUCT DATA/ TEST RESULTS
PLANTS	PHOTOGRAPHS OF ONE (1) OF EACH SPECIES (OR TAGGED IN NURSERY) INDICATE SIZES (HEIGHT/WIDTH) AND QUALITY PER SPEC. CLIENT-REQUESTED TAGGING MAY SUBSTITUTE PHOTOS.
FERTILIZER	PRODUCT DATA
INNOCULANT	PRODUCT DATA
HERBICIDE	PRODUCT DATA

2. PLANT MATERIALS
- A. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. NOMENCLATURE SHALL CONFORM TO STANDARDIZED PLANT NAMES, 1942 EDITION. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS, LATEST EDITION, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL PLANTS SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY. ALL PLANTS SHALL BE HEALTHY, VIGOROUS, SOUND, WELL-BRANCHED, AND FREE OF DISEASE AND INSECTS, INSIDE EGGS AND LARVAE AND SHALL HAVE ADEQUATE ROOT SYSTEMS. TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SHAPE. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY WITH APPROVAL FROM OWNER OR OWNER'S REPRESENTATIVE. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVE

- B. MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE GROUND OR ACROSS THE NORMAL SPREAD OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH. PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER. IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.

- C. INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER, FOR QUALITY, SIZE, AND VARIETY; SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF ROOT BALLS OR ROOTS, LATENT DEFECTS OR INJURIES. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.

E. SOIL MIXTURE (PLANTING MEDIUM, PLANTING MIX, TOPSOIL MIX)

- 1. SOIL MIXTURE (PLANTING MEDIUM FOR PLANT PITS) SHALL CONSIST OF 60% SAND, 40% NORTH FLORIDA PEAT, AS DESCRIBED BELOW:
- 2. SOIL MIXTURE FOR BACKFILLING PLANT PITS SHALL BE FERTILE AND FRIABLE, REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH WEEDS AND OTHER LITTER; FREE OF ROOTS, STUMPS, STONES LARGER THAN 2" IN ANY DIRECTION, AND OTHER EXTRANEIOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. SHALL HAVE A PH BETWEEN 5.5 AND 7.0 - SUBMIT SAMPLE AND PH TESTING RESULTS FOR APPROVAL.
- 3. SAND SHALL BE COARSE, CLEAN, WELL-DRAINING, NATIVE SAND. CONTRACTOR SHALL SUBMIT RESULTS OF SOIL TESTS FOR TOPSOIL AND SAND PROPOSED FOR USE UNDER THIS CONTRACT FOR APPROVAL BY THE OWNER.
- 4. CONTRACTOR TO SUBMIT SAMPLES OF SOIL MIXTURE FOR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.

F. WATER

WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN AN ADEQUATE PLANT GROWTH AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC. IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER. *WATERING/IRRIGATION RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

G. FERTILIZER

CONTRACTOR SHALL PROVIDE FERTILIZER APPLICATION SCHEDULE TO OWNER, AS APPLICABLE TO SOIL TYPE, PLANT INSTALLATION TYPE, AND SITE'S PROPOSED USE. SUGGESTED FERTILIZER TYPES SHALL BE ORGANIC OR OTHERWISE NATURALLY-DERIVED.

*FERTILIZER RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

H. MULCH

MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A MINIMUM DEPTH OF 3 INCHES. CLEAR MULCH FROM EACH PLANT'S CROWN (BASE). TYPE OF MATERIAL: *FLORIMULCH® OR SHREDDED, STERILE EUCALYPTUS MULCH

I. DIGGING AND HANDLING

- 1. PROTECT ROOTS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN, DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT DAMAGE DURING TRANSIT. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO SITE SHALL BE SPRAYED WITH AN ANTITRANSPIRANT PRODUCT (*MILTPRUF® OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.
- 2. BALLED AND BURLAPPED PLANTS (B&B) SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS OF THE PLANTS. NO PLANTS MOVED WITH A ROOT BALL SHALL BE PLANTED IF THE BALL IS CRACKED OR BROKEN. PLANTS BALLED AND BURLAPPED OR CONTAINER GROWN SHALL NOT BE HANDLED BY STEMS.
- 3. PLANTS MARKED 'BRI' IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS. COMPLYING WITH FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS, CURRENT EDITION. CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT DURING TRANSPORTATION AND PRIOR TO PLANTING.
- 4. PROTECTION OF PALMS (IF APPLICABLE): ONLY A MINIMUM OF FRONDS SHALL BE REMOVED FROM THE CROWN OF THE PALM TREES TO FACILITATE MOVING AND HANDLING. CLEAR TRUNK (CT) SHALL BE AS SPECIFIED AFTER THE MINIMUM OF FRONDS HAVE BEEN REMOVED. ALL PALMS SHALL BE BRACED PER PALM PLANTING DETAIL.
- 5. EXCAVATION OF TREE PITS SHALL BE PERFORMED USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS AND PREPARED SUB- BASES.

J. CONTAINER GROWN STOCK

- 1. ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION, FLORIDA #1 OR BETTER.
- 2. AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER. CONTAINER GROWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.
- 3. PLANT ROOTS BOUND IN CONTAINERS ARE NOT ACCEPTABLE.
- 4. SUBSTITUTION OF NON-CONTAINER GROWN MATERIAL FOR MATERIAL EXPLICITLY SPECIFIED TO BE CONTAINER GROWN WILL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL IS OBTAINED FROM THE OWNER OR OWNER'S REPRESENTATIVE.

K. COLLECTED STOCK

WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED BY THE OWNER OR OWNER'S REPRESENTATIVE, THE MINIMUM SIZES OF ROOTBALLS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY.

L. NATIVE STOCK

PLANTS COLLECTED FROM WILD OR NATIVE STANDS SHALL BE CONSIDERED NURSERY GROWN WHEN THEY HAVE BEEN SUCCESSFULLY RE-ESTABLISHED IN A NURSERY ROW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACTICES FOR A MINIMUM OF TWO (2) GROWING SEASONS AND HAVE ATTAINED ADEQUATE ROOT AND TOP GROWTH TO INDICATE FULL RECOVERY FROM TRANSPLANTING INTO THE NURSERY ROW.

M. MATERIALS LIST

QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN THE PLANS AND THE PLANT LIST QUANTITY, THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO BIDDING OR INSTALLATION. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE

N. FINE GRADING

- 1. FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. BERMING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED.
- 2. THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOD AND/OR MULCH DEPTH. THIS CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL EQUIPMENT NECESSARY INCLUDING A GRADING TRACTOR WITH FRONT-END LOADER FOR TRANSPORTING SOIL WITHIN THE SITE.
- 3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED FOR POSITIVE DRAINAGE TO SURFACE/SUBSURFACE STORM DRAIN SYSTEMS. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS. REFER TO CIVIL ENGINEER'S PLANS FOR FINAL GRADES.

O. PLANTING PROCEDURES

- 1. CLEANING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SURFACE OF ALL PLANT BEDS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, HE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.
- 2. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORMWATER SYSTEMS, CABLE, AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES. CALL NATIONAL ONE CALL - 811 - TO LOCATE UTILITIES.

- 3. SUBGRADE EXCAVATION: CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO A MINIMUM DEPTH OF 36". CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ON-SITE SOURCE OR AN IMPORTED SOURCE. IF LIMEROCK OR OTHER ADVERSE CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY THE CONTRACTOR, AND ADEQUATE PERCOLATION CAN NOT BE ACHIEVED, CONTRACTOR SHALL UTILIZE PLANTING DETAIL THAT ADDRESSES POOR DRAINAGE.

- 4. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS HEREIN SPECIFIED AND REQUIRED. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING SITE.

- 5. GENERAL: COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK. CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE. UPON ARRIVAL AT THE SITE, PLANTS SHALL BE THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS STORED ON-SITE SHALL NOT REMAIN UNPLANTED FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS. AT ALL TIMES, METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE EXERCISED.

- 6. THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE PLANTING WITH IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION APPURTENANCES AND PLANTS.

- 7. ALL PLANTING PITS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD FOR NURSERY STOCK 260.1, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACKFILLED WITH THE PREPARED PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E. TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER PERCOLATION. IF POOR PERCOLATION EXISTS, UTILIZE "POOR DRAINAGE CONDITION" PLANTING DETAIL. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURES AND UNDER THE SUPERVISION OF A QUALIFIED LANDSCAPE FOREMAN. PROPER "JETTING IN" SHALL BE ASSURED TO ELIMINATE AIR POCKETS AROUND THE ROOTS. "JET STICK" OR EQUAL IS RECOMMENDED.

- 8. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING TREES.

- 9. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION E OF THESE SPECIFICATIONS.

- 10. TREES AND SHRUBS SHALL BE SET STRAIGHT AT AN ELEVATION THAT, AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. PLANTING SOIL MIXTURE SHALL BE BACKFILLED, THOROUGHLY TAMPED AROUND THE BALL, AND SETTLED BY WATER (AFTER TAMPING).

- 11. AMEND PINE AND OAK PLANT PITS WITH ECTOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. ALL OTHER PLANT PITS SHALL BE AMENDED WITH ENDOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. PROVIDE PRODUCT INFORMATION SUBMITTAL PRIOR TO INOCULATION.

- 12. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES, STIRRING IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET. ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE, ONLY WITH MULCH. ALL BURLAP, ROPE, WIRES, BASKETS, ETC., SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BUT NO BURLAP SHALL BE PULLED FROM UNDERNEATH.

- 13. PRUNING: TREES SHALL BE PRUNED, AT THE DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE, TO PRESERVE THE NATURAL CHARACTER OF THE PLANT. ALL SOFT WOOD OR SUCKER GROWTH AND ALL BROKEN OR BADLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT. ALL PRUNING TO BE PERFORMED BY LICENSED ARBORIST, IN ACCORDANCE WITH ANSI A-300.

- 14. SHRUBS AND GROUND COVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED ON THE PLANT LIST. CULTIVATE ALL PLANTING AREAS TO A MINIMUM DEPTH OF 6", REMOVE AND DISPOSE ALL DEBRIS. MIX TOP 4" TO ACHIEVE SOIL MIXTURE AS SPECIFIED IN SECTION E. THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.

- 15. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. IF THE CONTRACTOR AND OWNER DECIDE TO WAIVE THE TREE GUYING AND BRACING, THE OWNER SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING AND AGREE TO INDEMNIFY AND HOLD HARMLESS THE LANDSCAPE ARCHITECT IN THE EVENT UNSUPPORTED TREES PLANTED UNDER THIS CONTRACT FALL AND DAMAGE PERSON OR PROPERTY.
- 16. MULCHING: PROVIDE A THREE INCH (MINIMUM) LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUND COVER, VINE BED, AND TREE PIT PLANTED UNDER THIS CONTRACT.

- 17. HERBICIDE WEED CONTROL: ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE OWNER, "ROUND-UP" SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANUFACTURER'S PRECAUTIONS AND SPECIFICATIONS. PRIOR TO FINAL INSPECTION, TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERGENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER. (AS ALLOWED BY JURISDICTIONAL AUTHORITY)

P. LAWN SODDING

- 1. THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING COMPLETE, IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAININGS TO PRODUCE A TURF GRASS LAWN ACCEPTABLE TO THE OWNER.
- 2. LAWN BED PREPARATION: ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS, AND THE GROUND BROUGHT TO AN EVEN GRADE. THE ENTIRE SURFACE SHALL BE ROLLED WITH A ROLLER WEIGHING NOT MORE THAN ONE HUNDRED (100) POUNDS PER FOOT OF WIDTH. DURING THE ROLLING, ALL DEPRESSIONS CAUSED BY SETTLEMENT SHALL BE FILLED WITH ADDITIONAL SOIL, AND THE SURFACE SHALL BE REGRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH TO THE REQUIRED GRADE.
- 3. SOIL PREPARATION: PREPARE LOOSE BED FOUR (4) INCHES DEEP. HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. NET PREPARED AREA THOROUGHLY.
- 4. SODDING
 - A. THE CONTRACTOR SHALL SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS, UNLESS SPECIFICALLY NOTED OTHERWISE.
 - B. THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND.

- C. SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAWN AREA. SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS. ADJACENT TO BUILDINGS, A 24 INCH STONE MULCH STRIP SHALL BE PROVIDED - REFER TO DETAILS. IMMEDIATELY FOLLOWING SOD LAYING, THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY IRRIGATED. IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND, AS APPROVED BY THE OWNER'S REPRESENTATIVE, SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN. FERTILIZE INSTALLED SOD AS ALLOWED BY PROPERTY'S JURISDICTIONAL AUTHORITY.

- 5. DURING DELIVERY, PRIOR TO, AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY SNEAKING OR EXCESSIVE HEAT AND MOISTURE.

6. LAWN MAINTENANCE:

- A. WITHIN THE CONTRACT LIMITS, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS (LARGER THAN 12"x12") UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING REGRADING IF NECESSARY).

- B. CONTRACTOR RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SOD/LAWN UNTIL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. PRIOR TO AND UPON ACCEPTANCE, CONTRACTOR TO PROVIDE WATERING/IRRIGATION SCHEDULE TO OWNER. OBSERVE ALL APPLICABLE WATERING RESTRICTIONS AS SET FORTH BY THE PROPERTY'S JURISDICTIONAL AUTHORITY.

Q. CLEANUP

UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM-CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

R. PLANT MATERIAL MAINTENANCE

ALL PLANTS AND PLANTING INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY PLANT CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE. MAINTENANCE AFTER THE CERTIFICATION OF ACCEPTABILITY SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THIS SECTION. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE TO COVER LANDSCAPE AND IRRIGATION MAINTENANCE FOR A PERIOD OF 90 CALENDAR DAYS COMMENCING AFTER ACCEPTANCE.

- S. MAINTENANCE (ALTERNATE BID ITEM)
- CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE FOR MAINTENANCE FOLLOWING THE INITIAL 90-DAY MAINTENANCE PERIOD ON A COST-PER-MONTH BASIS.

T. FINAL INSPECTION AND ACCEPTANCE OF WORK

FINAL INSPECTION AT THE END OF THE WARRANTY PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY REPLACEMENT AT THIS TIME SHALL BE SUBJECT TO THE SAME ONE (1) YEAR WARRANTY (OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

U. WARRANTY

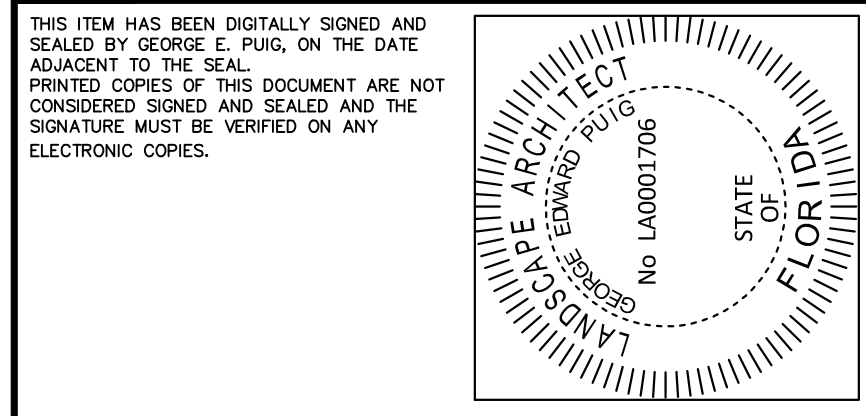
- 1. THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE.
- 2. REPLACEMENT: ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE WARRANTY PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED PLANTED AND MULCHED AS SPECIFIED UNDER "PLANTING", AT NO ADDITIONAL COST TO THE OWNER.
- 3. IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE (AND IRRIGATION) MAINTENANCE, THE CONTRACTOR IS ENCOURAGED TO VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER, AND SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH. IT IS SUGGESTED SUCH SITE VISITS SHALL BE CONDUCTED A MINIMUM OF ONCE PER MONTH FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE.

SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

LANDSCAPE SPECS
SHEET TITLE:

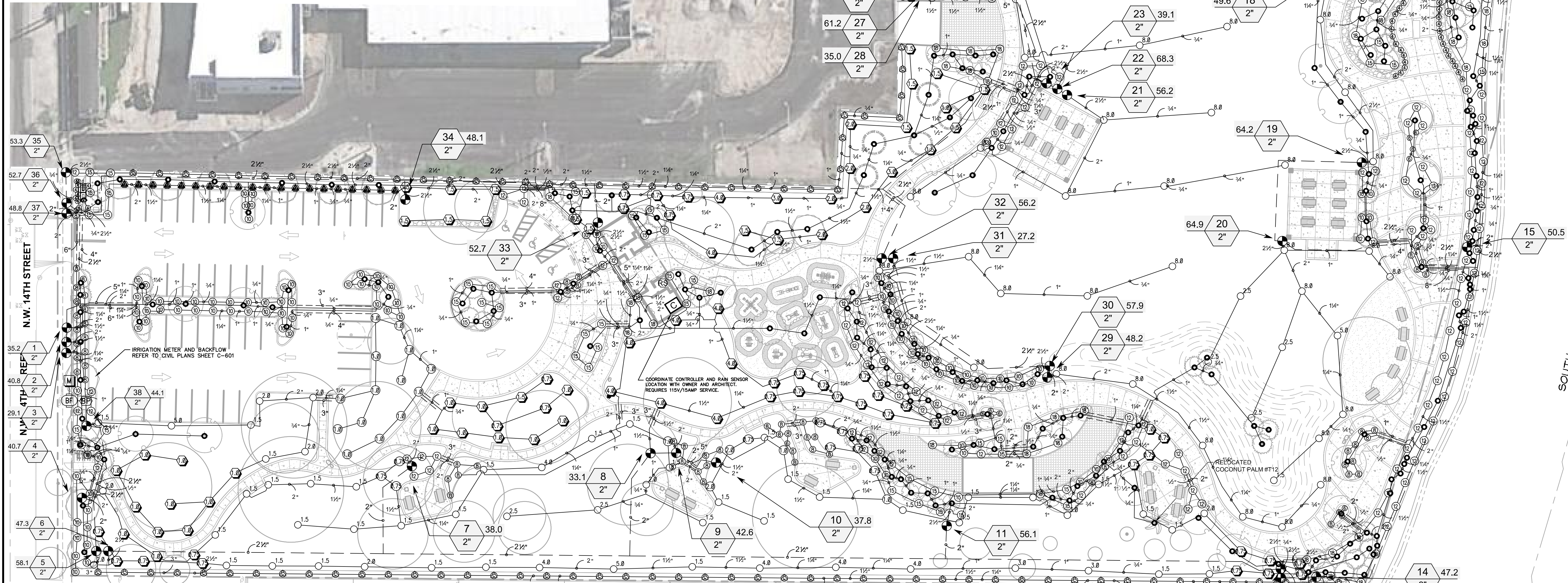


No.	REVISIONS - SUBMITTALS	DATE
01	PERMIT SET REV 01	03/08/19
02	PERMIT SET REV 02	04/26/19



Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	GPM
●	RAIN BIRD 1804-SAM-PRS IS STRIP SERIES	0.61
○	RAIN BIRD 1812-PRS 50 SERIES	0.12
○	RAIN BIRD 1812-PRS IS STRIP SERIES	1.28
○	RAIN BIRD 1812-PRS ADJ	1.64
○	RAIN BIRD 1812-PRS ADJ	2.60
○	RAIN BIRD 1800AF FLOOD	0.58
○	RAIN BIRD 1800AF FLOOD	1.54
○	RAIN BIRD 3006-PC, PC-R	2.07
○	RAIN BIRD 3006-PC, PC-R	2.51
○	RAIN BIRD 3006-PC, PC-R	5.04
○	RAIN BIRD 3006-PC, PC-R	4.01
○	RAIN BIRD 3006-PC, PC-R	5.04
○	RAIN BIRD 3006-PC, PC-R	8.28

VALVE SCHEDULE

SYMBOL	MANUFACTURER/MODEL	SIZE
○	RAIN BIRD PEB	2"
○	FEBCO 829YA 2"	2"
○	RAIN BIRD ESP12X-HEF	2"
○	RAIN BIRD 1812-PRS ADJ	2"
○	RAIN BIRD LIGHT COMMERCIAL PUMP STATION	2"
○	WATER METER 2"	2"
○	IRRIGATION LATERAL LINE, PVC CLASS 200 SDR 21	2"
○	IRRIGATION MAINLINE, PVC CLASS 200 SDR 21	2"
○	PIPE SLEEVE, PVC SCHEDULE 40	2"
○	Valve Cabinet	2"
○	Valve Number	2"
○	Valve Flow	2"
○	Valve Size	2"

NUMBER	MODEL	SIZE	TYPE	GPM
1	RAIN BIRD PEB	2"	SHRUB SPRAY	35.24
2	RAIN BIRD PEB	2"	BUBBLER	40.80
3	RAIN BIRD PEB	2"	SHRUB SPRAY	21.04
4	RAIN BIRD PEB	2"	TURF ROTOR	40.14
5	RAIN BIRD PEB	2"	SHRUB SPRAY	59.08
6	RAIN BIRD PEB	2"	TURF ROTOR	41.92
7	RAIN BIRD PEB	2"	SHRUB SPRAY	39.02
8	RAIN BIRD PEB	2"	TURF ROTOR	39.10
9	RAIN BIRD PEB	2"	SHRUB SPRAY	42.62
10	RAIN BIRD PEB	2"	TURF ROTOR	37.82
11	RAIN BIRD PEB	2"	BUBBLER	54.40
12	RAIN BIRD PEB	2"	BUBBLER	51.80
13	RAIN BIRD PEB	2"	SHRUB SPRAY	47.84
14	RAIN BIRD PEB	2"	SHRUB SPRAY	41.24
15	RAIN BIRD PEB	2"	SHRUB SPRAY	50.54
16	RAIN BIRD PEB	2"	SHRUB SPRAY	36.74
17	RAIN BIRD PEB	2"	BUBBLER	66.30
18	RAIN BIRD PEB	2"	SHRUB SPRAY	44.62
19	RAIN BIRD PEB	2"	TURF ROTOR	64.24
20	RAIN BIRD PEB	2"	TURF ROTOR	64.88
21	RAIN BIRD PEB	2"	TURF ROTOR	56.21
22	RAIN BIRD PEB	2"	TURF ROTOR	69.25
23	RAIN BIRD PEB	2"	BUBBLER	39.10
24	RAIN BIRD PEB	2"	SHRUB SPRAY	40.14
25	RAIN BIRD PEB	2"	TURF ROTOR	37.95
26	RAIN BIRD PEB	2"	TURF ROTOR	37.20
27	RAIN BIRD PEB	2"	BUBBLER	61.20
28	RAIN BIRD PEB	2"	SHRUB SPRAY	35.04
29	RAIN BIRD PEB	2"	TURF ROTOR	49.15

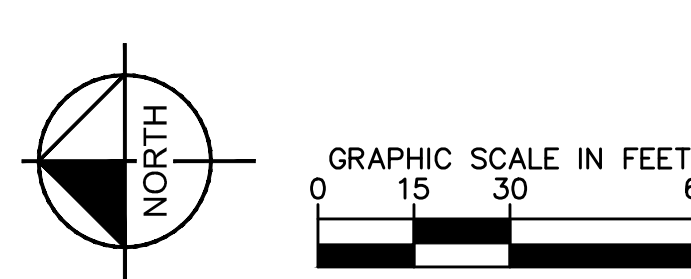
NUMBER	MODEL	SIZE	TYPE	GPM
30	RAIN BIRD PEB	2"	SHRUB SPRAY	57.88
31	RAIN BIRD PEB	2"	BUBBLER	27.20
32	RAIN BIRD PEB	2"	TURF ROTOR	56.21
33	RAIN BIRD PEB	2"	BUBBLER	52.70
34	RAIN BIRD PEB	2"	TURF ROTOR	49.12
35	RAIN BIRD PEB	2"	SHRUB SPRAY	59.54
36	RAIN BIRD PEB	2"	BUBBLER	51.00
37	RAIN BIRD PEB	2"	SHRUB SPRAY	49.80
38	RAIN BIRD PEB	2"	TURF ROTOR	44.01
39	RAIN BIRD PEB	2"	BUBBLER	27.20
40	RAIN BIRD PEB	2"	Common Wire	

NUMBER	MODEL	SIZE	TYPE	GPM
41	RAIN BIRD PEB	2"	SHRUB SPRAY	35.24
42	RAIN BIRD PEB	2"	BUBBLER	40.80
43	RAIN BIRD PEB	2"	SHRUB SPRAY	21.04
44	RAIN BIRD PEB	2"	TURF ROTOR	40.14
45	RAIN BIRD PEB	2"	SHRUB SPRAY	59.08
46	RAIN BIRD PEB	2"	TURF ROTOR	41.92
47	RAIN BIRD PEB	2"	SHRUB SPRAY	39.02
48	RAIN BIRD PEB	2"	TURF ROTOR	39.10
49	RAIN BIRD PEB	2"	SHRUB SPRAY	42.62
50	RAIN BIRD PEB	2"	TURF ROTOR	37.82
51	RAIN BIRD PEB	2"	BUBBLER	54.40
52	RAIN BIRD PEB	2"	BUBBLER	51.80
53	RAIN BIRD PEB	2"	SHRUB SPRAY	47.84
54	RAIN BIRD PEB	2"	SHRUB SPRAY	41.24
55	RAIN BIRD PEB	2"	SHRUB SPRAY	50.54
56	RAIN BIRD PEB	2"	SHRUB SPRAY	36.74
57	RAIN BIRD PEB	2"	BUBBLER	66.30
58	RAIN BIRD PEB	2"	SHRUB SPRAY	44.62
59	RAIN BIRD PEB	2"	TURF ROTOR	64.24
60	RAIN BIRD PEB	2"	TURF ROTOR	64.88
61	RAIN BIRD PEB	2"	TURF ROTOR	56.21
62	RAIN BIRD PEB	2"	TURF ROTOR	69.25
63	RAIN BIRD PEB	2"	BUBBLER	39.10
64	RAIN BIRD PEB	2"	SHRUB SPRAY	40.14
65	RAIN BIRD PEB	2"	TURF ROTOR	37.95
66	RAIN BIRD PEB	2"	TURF ROTOR	37.20
67	RAIN BIRD PEB	2"	BUBBLER	61.20
68	RAIN BIRD PEB	2"	SHRUB SPRAY	35.04
69	RAIN BIRD PEB	2"	TURF ROTOR	49.15

NUMBER	MODEL	SIZE	TYPE	GPM
70	RAIN BIRD PEB	2"	SHRUB SPRAY	35.24
71	RAIN BIRD PEB	2"	BUBBLER	40.80
72	RAIN BIRD PEB	2"	SHRUB SPRAY	21.04
73	RAIN BIRD PEB	2"	TURF ROTOR	40.14
74	RAIN BIRD PEB	2"	SHRUB SPRAY	59.08
75	RAIN BIRD PEB	2"	TURF ROTOR	41.92
76	RAIN BIRD PEB	2"	SHRUB SPRAY	39.02
77	RAIN BIRD PEB	2"	TURF ROTOR	39.10
78	RAIN BIRD PEB	2"	SHRUB SPRAY	42.62
79	RAIN BIRD PEB	2"	TURF ROTOR	37.82
80	RAIN BIRD PEB	2"	BUBBLER	54.40
81	RAIN BIRD PEB	2"	BUBBLER	51.80
82	RAIN BIRD PEB	2"	SHRUB SPRAY	47.84
83	RAIN BIRD PEB	2"	SHRUB SPRAY	41.24
84	RAIN BIRD PEB	2"	SHRUB SPRAY	50.54
85	RAIN BIRD PEB	2"	SHRUB SPRAY	36.74
86	RAIN BIRD PEB	2"	BUBBLER	66.30
87	RAIN BIRD PEB	2"	SHRUB SPRAY	44.62
88	RAIN BIRD PEB	2"	TURF ROTOR	64.24
89	RAIN BIRD PEB	2"	TURF ROTOR	64.88
90	RAIN BIRD PEB	2"	TURF ROTOR	56.21
91	RAIN BIRD PEB	2"	TURF ROTOR	69.25
92	RAIN BIRD PEB	2"	BUBBLER	39.10
93	RAIN BIRD PEB	2"	SHRUB SPRAY	40.14
94	RAIN BIRD PEB	2"	TURF ROTOR	37.95
95	RAIN BIRD PEB	2"	TURF ROTOR	37.20
96	RAIN BIRD PEB	2"	BUBBLER	61.20
97	RAIN BIRD PEB	2"	SHRUB SPRAY	35.04
98	RAIN BIRD PEB	2"	TURF ROTOR	49.15

IRRIGATION SYSTEM NOTES

- CONTRACTOR SHALL REFER TO THE IRRIGATION DETAILS, IRRIGATION SCHEDULE, SPECIFICATIONS AND ALL CONTRACT DOCUMENTS FOR FURTHER AND COMPLETE INSTRUCTIONS.
- IRRIGATION QUANTITIES ARE PROVIDED FOR CONVENIENCE. IN THE EVENT OF QUANTITY DISCREPANCIES THE DRAWING SHALL TAKE PRECEDENCE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BIDDING.
- ANY SUBSTITUTIONS FOR SPECIFIED IRRIGATION EQUIPMENT MUST BE APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE IN WRITING PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL FIELD ADJUST LOCATION OF IRRIGATION EQUIPMENT AS NECESSARY TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES AND/OR INTERFERE WITH EXISTING ABOVE GROUND ELEMENTS. ALL FIELD ADJUSTMENTS SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL FAMILIARIZE HIM/HERSELF WITH THE LIMITS OF WORK AND EXISTING CONDITIONS AND VERIFY ALL INFORMATION. IF DISCREPANCIES EXIST, CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IN WRITING WITHIN SEVEN CALENDAR DAYS OF NOTICE TO PROCEED.
- IRRIGATION PLAN IS DIAGRAMMATIC. EQUIPMENT SHOWN ON IMPERVIOUS SURFACES IS FOR GRAPHIC CLARITY UNLESS OTHERWISE NOTED. CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITHIN LANDSCAPE AREAS IN PROPERTY LIMITS.
- LATERAL, MAINLINE, BUBBLER AND VALVE LOCATIONS SHOWN ARE FOR DIAGRAMMATICAL PURPOSES ONLY.
- RUN ALL PIPES THROUGH PLANTER AREAS AND ALONGSIDE OTHER SLEEVING TO MAXIMUM EXTENT POSSIBLE.
- TRENCH ALONG SIDENWALKS, CURBS AND FENCES AS MUCH AS POSSIBLE.
- CONTRACTOR SHALL NOT DAMAGE THE ROOTS OF EXISTING TREES. AVOID TRENCHING UNDER DRIP LINES OF EXISTING TREES TO MAXIMUM EXTENT POSSIBLE. IF IT IS NOT POSSIBLE TO AVOID TRENCHING UNDER DRIP LINES, CONTRACTOR IS TO NOTIFY LANDSCAPE ARCHITECT PRIOR TO TRENCH EXCAVATION FOR APPROVAL.
- GROUP AND LOCATE VALVES INSIDE PLANTER AREAS (TYP.).
- THE IRRIGATION SYSTEM SHALL PROVIDE 100% COVERAGE FOR ALL PROPOSED LANDSCAPE AREAS.
- ZONES SHALL BE SEPARATED BY WATER NEED AND EQUIPMENT. BUBBLERS SHALL BE SEPARATE FROM SPRAYS, SPRAYS SEPARATE FROM BUBBLERS.
- CONTRACTOR SHALL PROVIDE A BLACK POWDER COATED ALUMINUM LOCKABLE CAGE AROUND BACKFLOW PREVENTER, IRRIGATION CONTROLLER, PUMP, ETC.



SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

IRRIGATION PLAN

SHEET TITLE:

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY GEORGE E. PUGL, ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

No.	REVISIONS - SUBMITTALS	DATE
01	PERMIT SET REV 01	03/08/19
02	PERMIT SET REV 02	04/26/19

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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
SST	RAIN BIRD 1804-SAM-PRS 15 STRIP SERIES TURF SPRAY 4.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, 1/2" NPT FEMALE THREADED INLET, WITH SEAL-A-MATIC CHECK VALVE, PRESSURE REGULATING.	20	30
20 2H 2F 40 4H 4F	RAIN BIRD 1812-PRS 50 SERIES SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, SIDE AND BOTTOM INLET, 1/2" NPT FEMALE THREADED INLET, WITH PRESSURE REGULATING DEVICE.	1	30
EST LCS RCS CST SST	RAIN BIRD 1812-PRS 15 STRIP SERIES SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, SIDE AND BOTTOM INLET, 1/2" NPT FEMALE THREADED INLET, WITH PRESSURE REGULATING DEVICE.	119	30
4V 6V 18V	RAIN BIRD 1812-PRS ADJ SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, SIDE AND BOTTOM INLET, 1/2" NPT FEMALE THREADED INLET, WITH PRESSURE REGULATING DEVICE.	111	30
08HE-VAN 12HE-VAN 10HE-VAN 15HE-VAN	RAIN BIRD 1812-PRS ADJ SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, SIDE AND BOTTOM INLET, 1/2" NPT FEMALE THREADED INLET, WITH PRESSURE REGULATING DEVICE.	364	30
O	RAIN BIRD 1800AF FLOOD FLOOD BUBBLER ON IPS FLEX HOSE PER DETAIL.	286	30

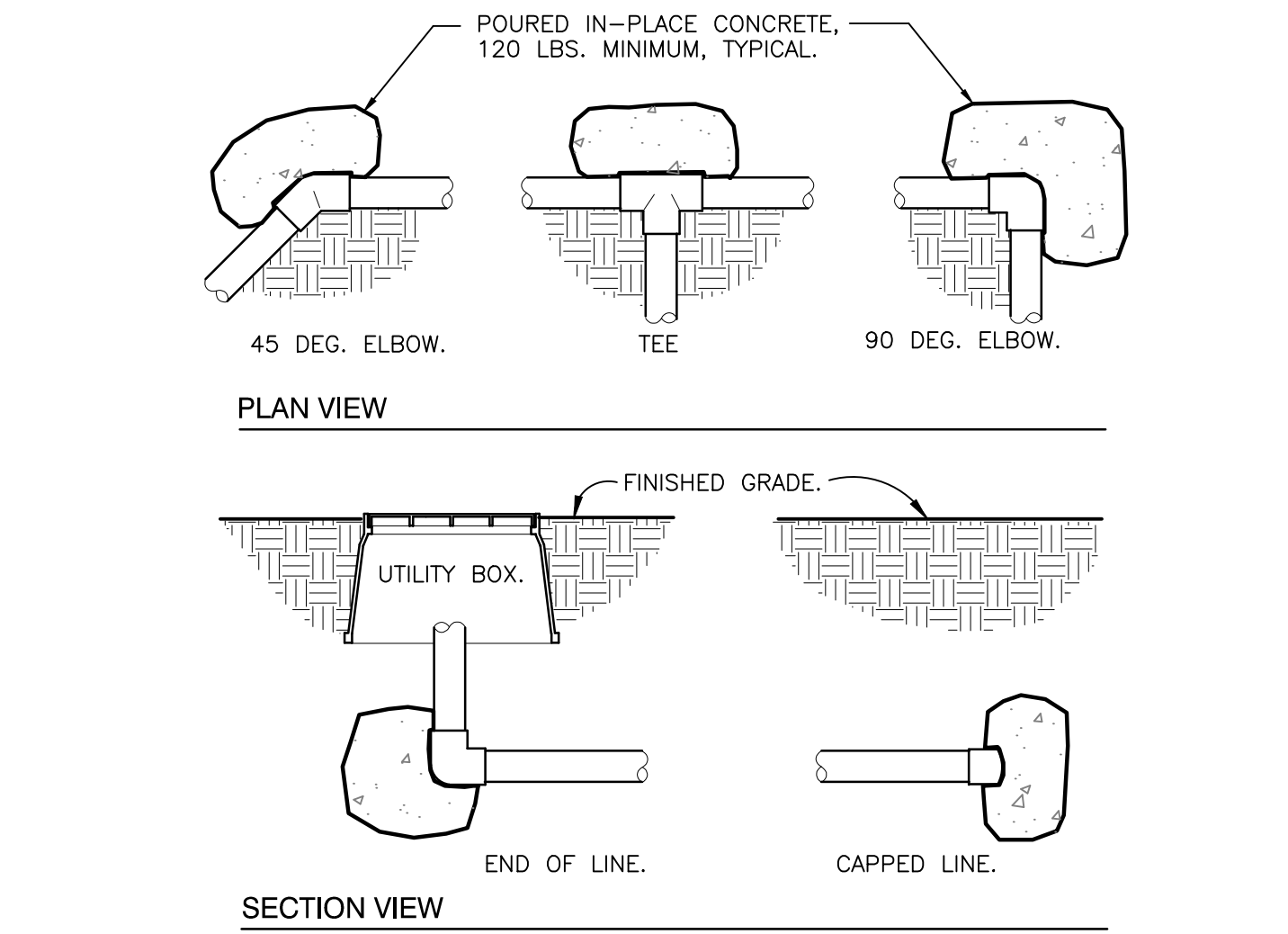
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	RADIUS
17	RAIN BIRD 3504-PC TURF ROTOR, 4.0" POP-UP, ADJUSTABLE AND FULL CIRCLE.	32	35	0.67	17'
18	RAIN BIRD 3504-PC TURF ROTOR, 4.0" POP-UP, ADJUSTABLE AND FULL CIRCLE.	16	35	0.42	21'
19	RAIN BIRD 3504-PC TURF ROTOR, 4.0" POP-UP, ADJUSTABLE AND FULL CIRCLE.	23	35	1.20	23'
20	RAIN BIRD 3504-PC TURF ROTOR, 4.0" POP-UP, ADJUSTABLE AND FULL CIRCLE.	13	35	1.64	21'
21	RAIN BIRD 3504-PC TURF ROTOR, 4.0" POP-UP, ADJUSTABLE AND FULL CIRCLE.	2	35	2.60	31'
22	RAIN BIRD 3504-PC TURF ROTOR, 4.0" POP-UP, ADJUSTABLE AND FULL CIRCLE.	22	35	3.56	33'
23	RAIN BIRD 5006-PC, FC-R TURF ROTOR, 6.0" POP-UP, PLASTIC RISER, ADJUSTABLE AND FULL CIRCLE, STANDARD ANGLE NOZZLE, PRESSURE REGULATING.	44	45	1.54	35'
24	RAIN BIRD 5006-PC, FC-R TURF ROTOR, 6.0" POP-UP, PLASTIC RISER, ADJUSTABLE AND FULL CIRCLE, STANDARD ANGLE NOZZLE, PRESSURE REGULATING.	8	45	2.07	37'
25	RAIN BIRD 5006-PC, FC-R TURF ROTOR, 6.0" POP-UP, PLASTIC RISER, ADJUSTABLE AND FULL CIRCLE, STANDARD ANGLE NOZZLE, PRESSURE REGULATING.	6	45	2.51	37'
26	RAIN BIRD 5006-PC, FC-R TURF ROTOR, 6.0" POP-UP, PLASTIC RISER, ADJUSTABLE AND FULL CIRCLE, STANDARD ANGLE NOZZLE, PRESSURE REGULATING.	3	45	3.04	40'
27	RAIN BIRD 5006-PC, FC-R TURF ROTOR, 6.0" POP-UP, PLASTIC RISER, ADJUSTABLE AND FULL CIRCLE, STANDARD ANGLE NOZZLE, PRESSURE REGULATING.	6	45	4.01	42'
28	RAIN BIRD 5006-PC, FC-R TURF ROTOR, 6.0" POP-UP, PLASTIC RISER, ADJUSTABLE AND FULL CIRCLE, STANDARD ANGLE NOZZLE, PRESSURE REGULATING.	3	45	5.04	45'
29	RAIN BIRD 5006-PC, FC-R TURF ROTOR, 6.0" POP-UP, PLASTIC RISER, ADJUSTABLE AND FULL CIRCLE, STANDARD ANGLE NOZZLE, PRESSURE REGULATING.	42	45	8.03	47'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
BF	RAIN BIRD FEB 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES, LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	34
C	FEBCO 825YA 2" REDUCED PRESSURE BACKFLOW PREVENTER. REFER TO CIVIL SHEET C-601.	1
RS	RAIN BIRD ESP12LX-MEF 48 STATION COMMERCIAL CONTROLLER, MOUNT IN RAISED LAMPS pedestal, FLOW SENSING AND WATER MANAGEMENT CAPABILITIES.	1
BP	RAIN BIRD RSD-BEX RAIN SENSOR, WITH METAL LATCHING BRACKET, EXTENSION WIRE.	1
BP	RAIN BIRD LIGHT COMMERCIAL PUMP STATION 3/4HP, 1HP, 1-1/2HP, 2HP, AND 3HP, RESIDENTIAL, LIGHT COMMERCIAL, PARKS AND REG USE. COMPLETE PUMP STATION, WITH QUICK DISCONNECTION, POWDER COATED STEEL ENCLOSURE, START RELAY AND COOLING LOUVRES.	1
M	WATER METER 2" REFER TO CIVIL SHEET C-601	1
	IRRIGATION LATERAL LINE, PVC CLASS 200 SDR 21 PVC CLASS 200 IRRIGATION PIPE, ONLY LATERAL TRANSITION PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4" IN SIZE.	+/ - 19,824 L.F.
	IRRIGATION MAINLINE, PVC CLASS 200 SDR 21 PVC CLASS 200 IRRIGATION PIPE.	+/ - 2,883 L.F.
	PIPE SLEEVE, PVC SCHEDULE 40 TYPICAL PIPE SLEEVE FOR IRRIGATION PIPE, PIPE SLEEVE SIZE SHALL ALLOW FOR IRRIGATION PIPING AND THEIR RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL. EXTEND SLEEVES 18 INCHES BEYOND EDGES OF PAVING FOR CONSTRUCTION.	AS NEEDED

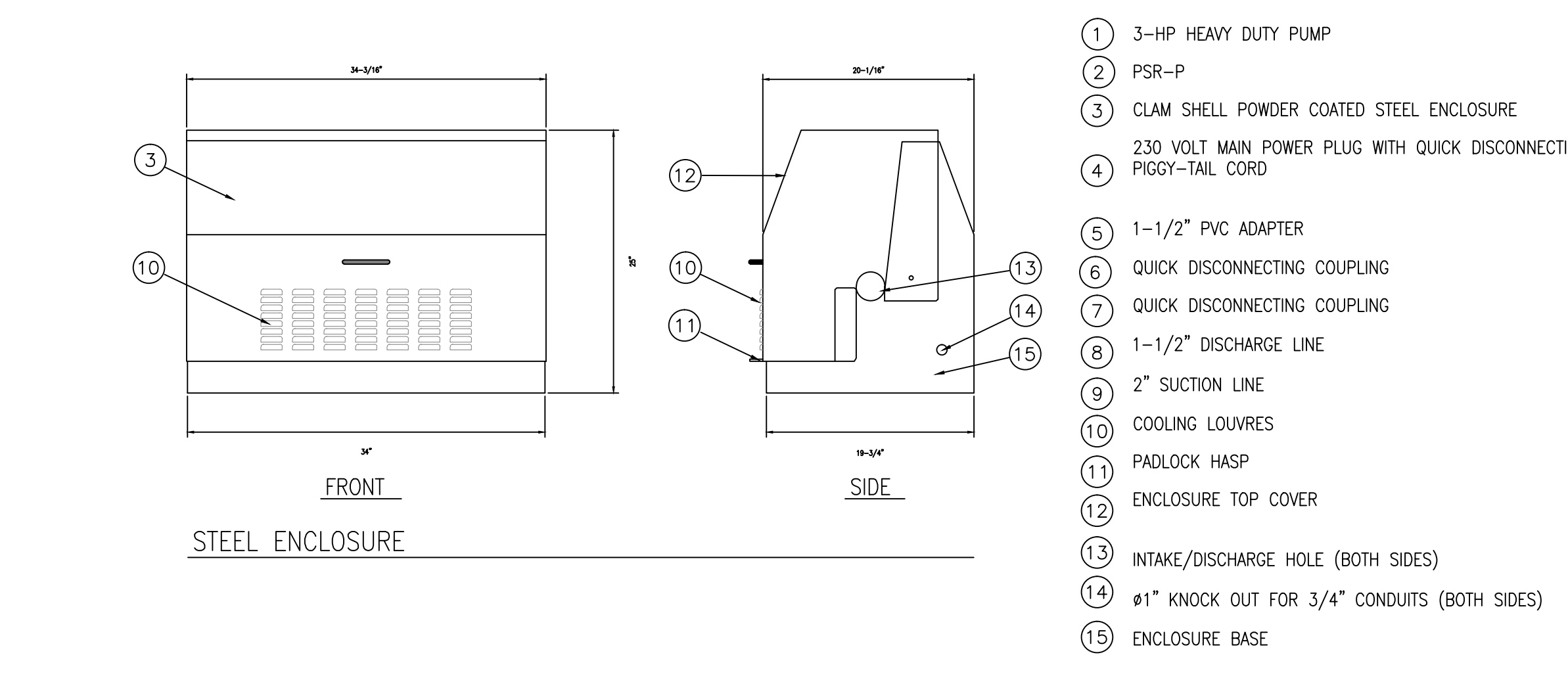
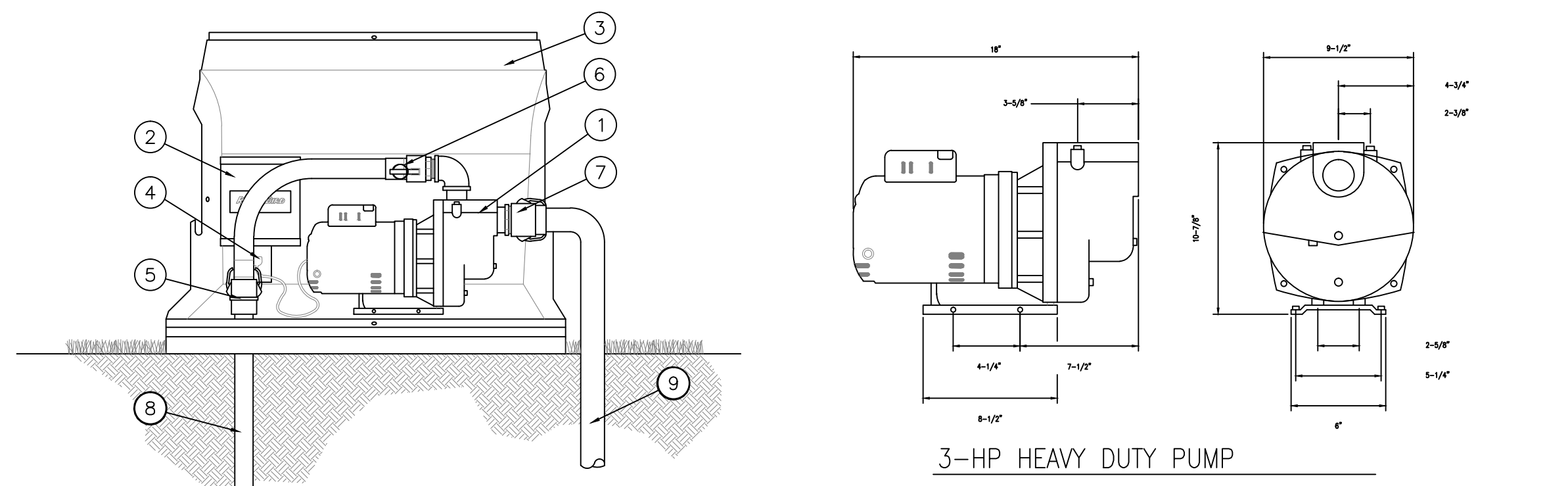


VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	RAIN BIRD FEB	2"	SHRUB SPRAY	35.24	22.7	40.74	55.91	1.74 in/h
2	RAIN BIRD FEB	2"	BUBBLER	40.80	30.8	39.84	52.34	52.08 in/h
3	RAIN BIRD FEB	2"	SHRUB SPRAY	24.04	31.0	34.52	52.52	1.57 in/h
4	RAIN BIRD FEB	2"	TURF ROTOR	40.74	145.6	57.14	71.20	0.54 in/h
5	RAIN BIRD FEB	2"	SHRUB SPRAY	38.05	167.5	40.62	57.04	1.84 in/h
6	RAIN BIRD FEB	2"	TURF ROTOR	41.32	174.2	57.85	72.94	0.52 in/h
7	RAIN BIRD FEB	2"	SHRUB SPRAY	38.02	388.5	40.48	55.52	1.42 in/h
8	RAIN BIRD FEB	2"	TURF ROTOR	33.10	532.4	46.77	61.67	1.07 in/h
9	RAIN BIRD FEB	2"	SHRUB SPRAY	42.62	547.0	40.33	57.03	1.37 in/h
10	RAIN BIRD FEB	2"	TURF ROTOR	37.82	575.9	58.61	74.63	0.66 in/h
11	RAIN BIRD FEB	2"	BUBBLER	54.40	668.6	40.51	60.41	64.10 in/h
12	RAIN BIRD FEB	2"	BUBBLER	37.80	846.4	40.25	62.41	104.17 in/h
13	RAIN BIRD FEB	2"	SHRUB SPRAY	41.24	841.8	40.51	54.44	1.01 in/h
14	RAIN BIRD FEB	2"	SHRUB SPRAY	47.24	867.0	40.64	54.65	0.77 in/h
15	RAIN BIRD FEB	2"	SHRUB SPRAY	50.54	1105	40.68	62.27	1.09 in/h
16	RAIN BIRD FEB	2"	SHRUB SPRAY	36.74	1353	37.67	55.32	0.91 in/h
17	RAIN BIRD FEB	2"	BUBBLER	66.30	1343	39.64	64.42	2.03 in/h
18	RAIN BIRD FEB	2"	SHRUB SPRAY	44.62	1336	37.37	60.03	1.18 in/h
19	RAIN BIRD FEB	2"	TURF ROTOR	64.24	1307	55.19	84.45	0.83 in/h
20	RAIN BIRD FEB	2"	TURF ROTOR	64.25	1210	52.44	81	1.46 in/h
21	RAIN BIRD FEB	2"	TURF ROTOR	56.21	701.0	55.03	75.38	0.56 in/h
22	RAIN BIRD FEB	2"	TURF ROTOR	68.25	644.4	55.86	80	0.76 in/h
23	RAIN BIRD FEB	2"	BUBBLER	34.10	687.5	40.27	56.26	52.08 in/h
24	RAIN BIRD FEB	2"	SHRUB SPRAY	40.14	808.2	40.75	57.54	1.83 in/h
25	RAIN BIRD FEB	2"	TURF ROTOR	37.95	802.0	46.57	62.77	0.66 in/h
26	RAIN BIRD FEB	2"	TURF ROTOR	37.20	745.8	45.65	61.76	0.55 in/h
27	RAIN BIRD FEB	2"	BUBBLER	61.20	746.1	40.33	65.04	312.50 in/h
28	RAIN BIRD FEB	2"	SHRUB SPRAY	35.04	784.7	40.47	56.12	1.40 in/h
29	RAIN BIRD FEB	2"	TURF ROTOR	48.18	743.5	54.77	75.23	1.04 in/h
30	RAIN BIRD FEB	2"	SHRUB SPRAY	37.88	736.8	40.62	61.76	1.44 in/h
31	RAIN BIRD FEB	2"	BUBBLER	21.20	614.1	39.16	52.24	52.08 in/h
32	RAIN BIRD FEB	2"	TURF ROTOR	56.21	607.7	55.19	74.74	0.62 in/h
33	RAIN BIRD FEB	2"	BUBBLER	52.70	417.1	40.65	58.20	52.08 in/h
34	RAIN BIRD FEB	2"	TURF ROTOR	48.12	248.1	46.24	62.09	0.67 in/h
35	RAIN BIRD FEB	2"	SHRUB SPRAY	53.34	113.4	40.75	56.32	1.50 in/h
36	RAIN BIRD FEB	2"	BUBBLER	51.00	46.1	40.65	55.56	78.25 in/h
37	RAIN BIRD FEB	2"	SHRUB SPRAY	48.80	40.0	34.15	53.70	2.24 in/h
38	RAIN BIRD FEB	2"	TURF ROTOR	44.07	87.5	46.38	60.43	0.60 in/h
39	RAIN BIRD FEB	2"	BUBBLER	21.20	1264	39.78	54.52	52.08 in/h



2 THRUST BLOCKING
3/4" = 1'-0" 32 8409.76-01



1 LC3000 3 HP PUMP STATION
N.T.S.

3 TRENCHING DETAIL
NOT TO SCALE 32 8409.76-03

4 ELECTRIC REMOTE CONTROL VALVE
1 1/2" = 1'-0" 32 8406.13-01

5 WIRE BUNDLE JUNCTION BOX
1 1/2" = 1'-0" 32 8409.79-01

SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

IRRIGATION SCHEDULE AND DETAILS

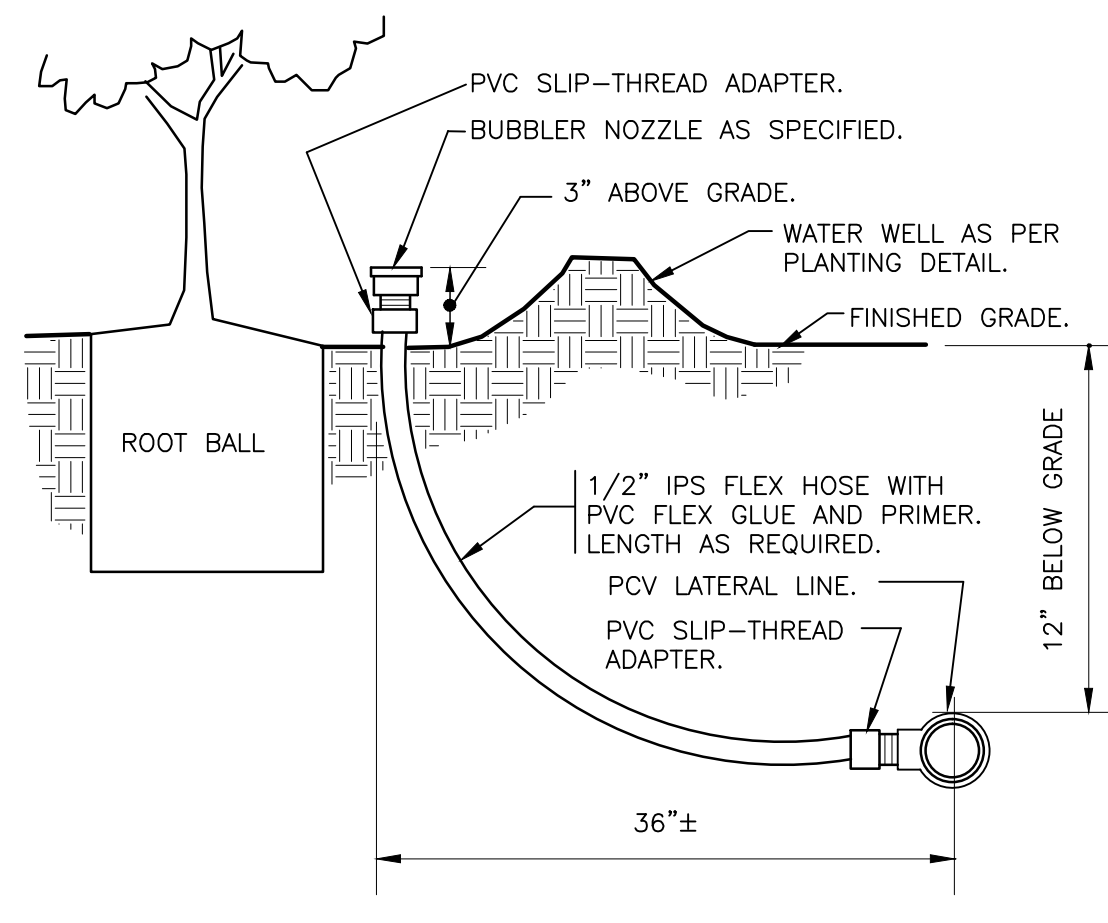
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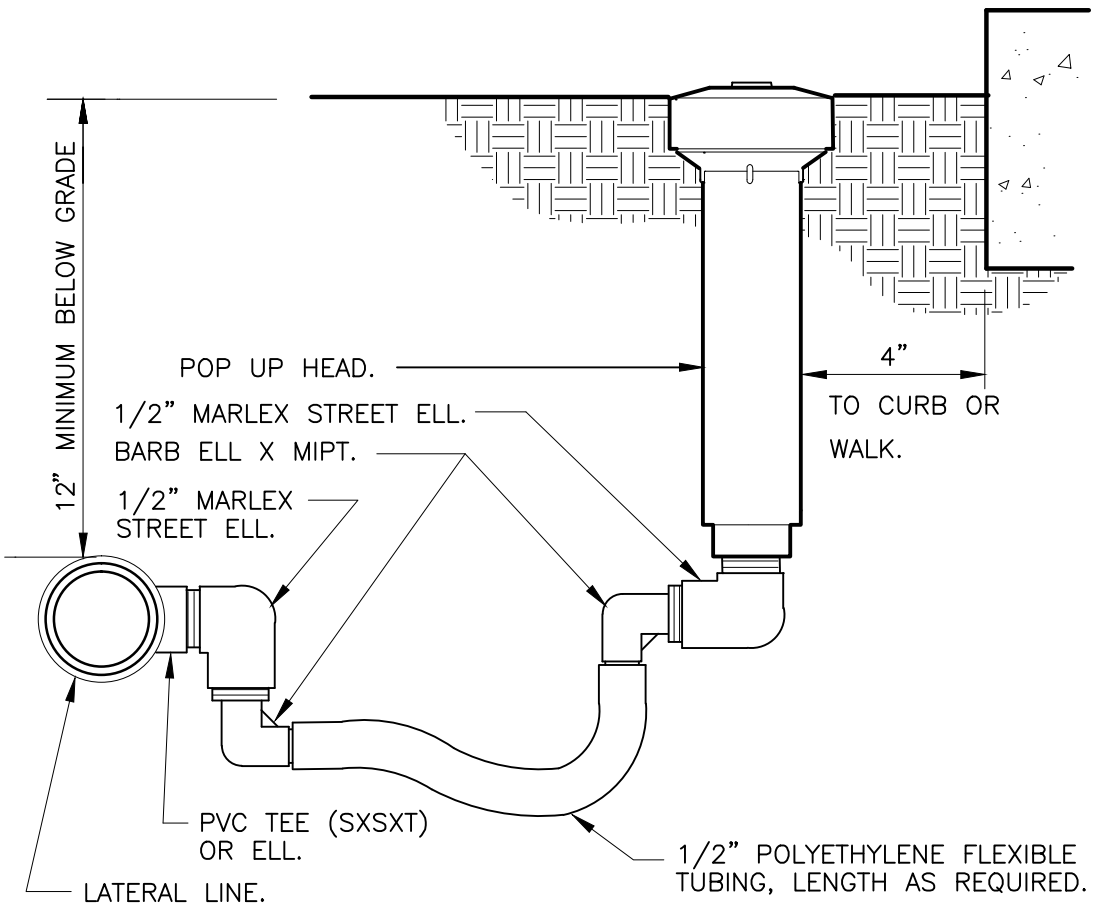
No.	REVISIONS - SUBMITTALS	DATE
01	PERMIT SET REV 01	03/08/19
02	PERMIT SET REV 02	04/26/19

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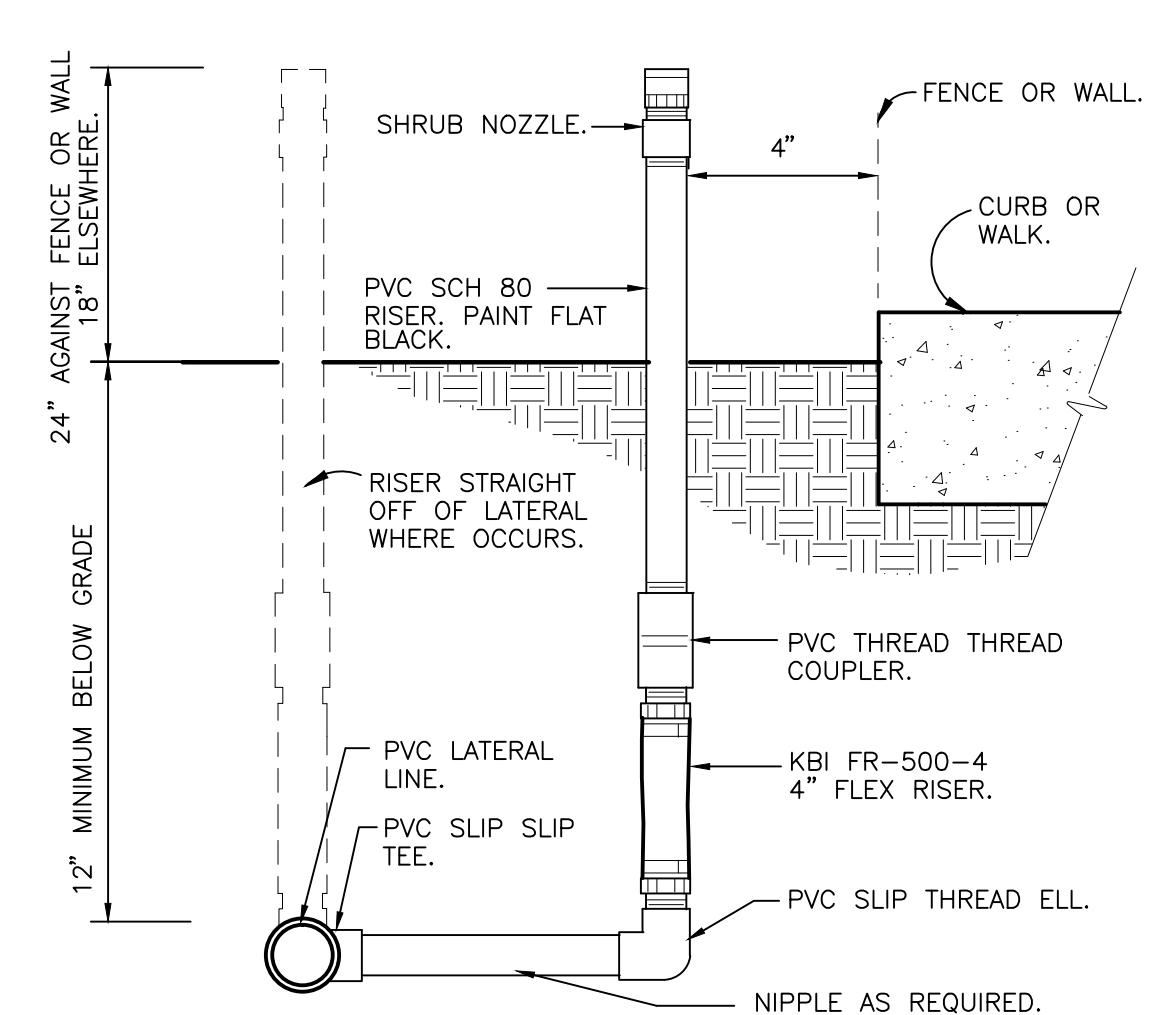
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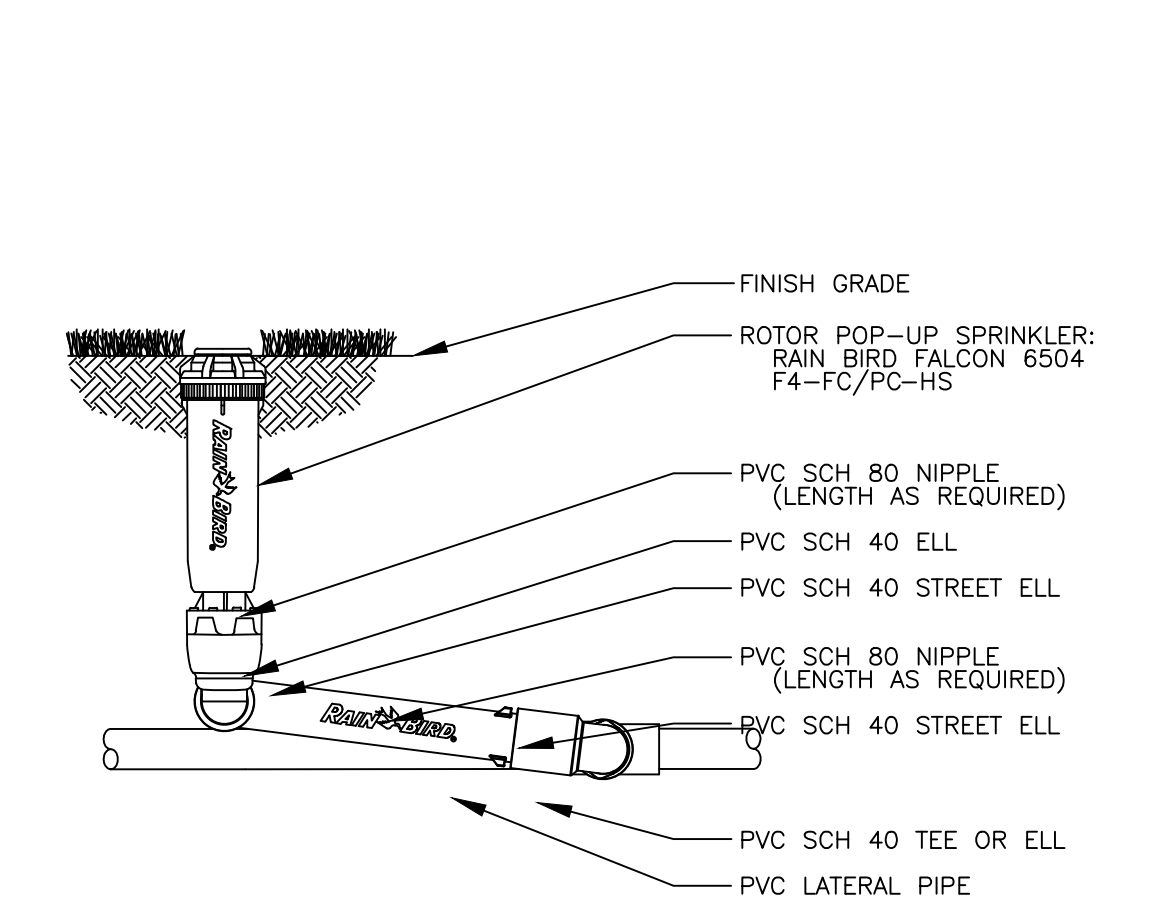
6 BUBBLER ON FLEX HOSE RISER
 3" = 1'-0" DETAIL-FILE



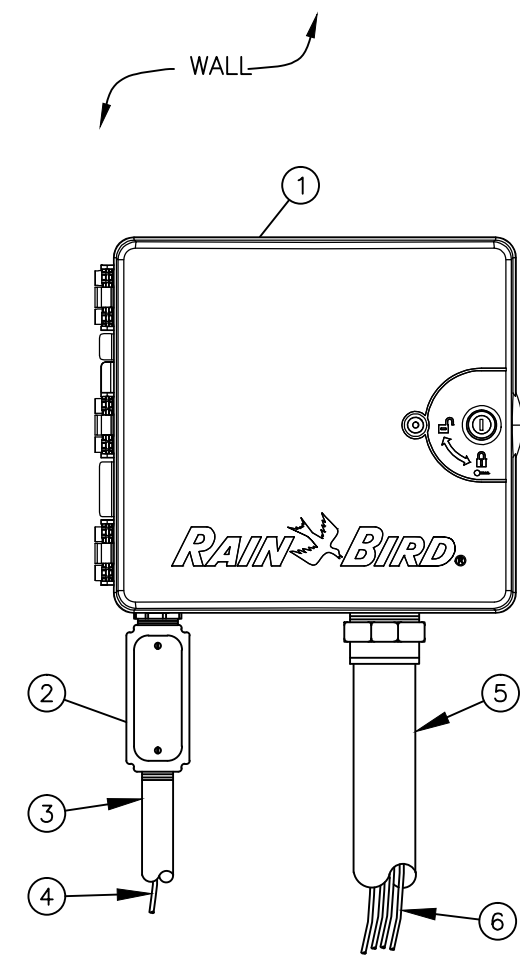
7 POP-UP SPRAY FLEX ASSEMBLY
 3" = 1'-0" 32 8403.13-02



8 SHRUB SPRAY FIXED RISER
 3" = 1'-0" 32 8403.23-01

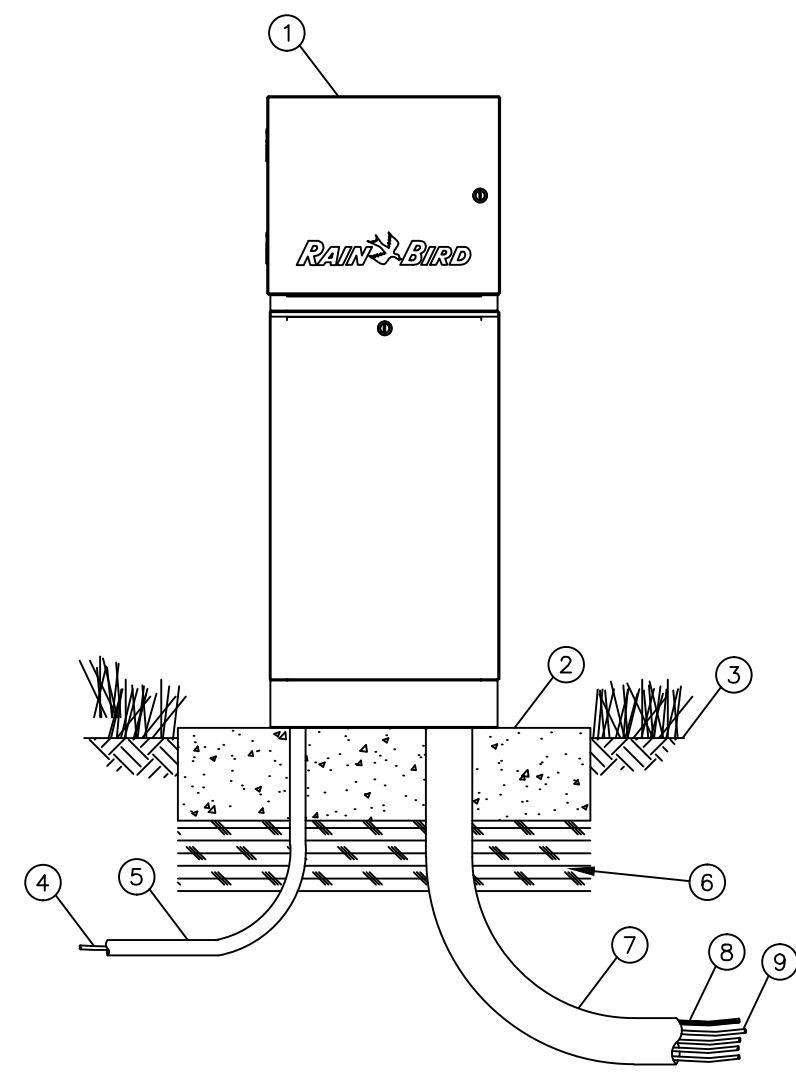


9 ROTOR POP UP SPRINKLER
 NOT TO SCALE 32 8403.23-01



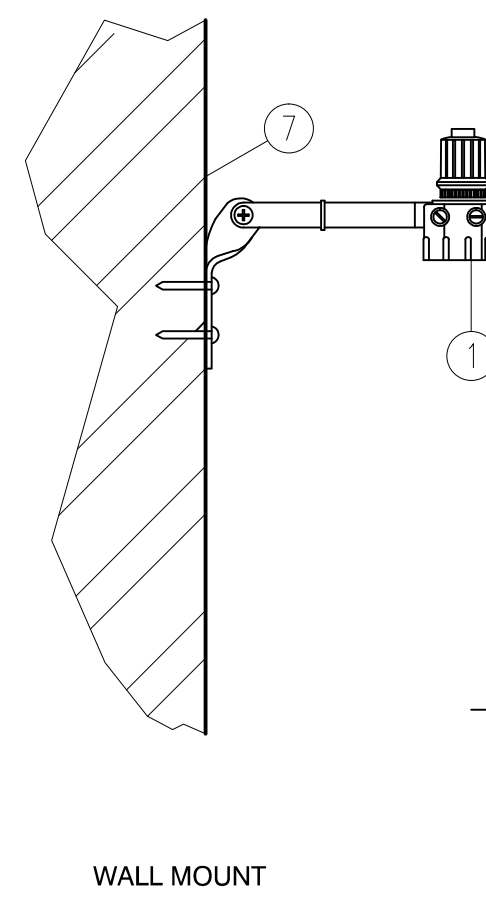
10 ESP-LXMEF CONTROLLER IN PLASTIC CABINET
 NOT TO SCALE

- 1 IRRIGATION CONTROLLER: RAIN BIRD ESP-LXME CONTROLLER IN PLASTIC CABINET WITH WALL MOUNT. INSTALL CONTROLLER AND CABINET ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
 - 2 JUNCTION BOX
 - 3 1-INCH CONDUIT AND FITTINGS TO POWER SUPPLY
 - 4 POWER SUPPLY WIRE
 - 5 2-INCH CONDUIT AND FITTINGS FOR STATION WIRES
 - 6 WIRES TO REMOTE CONTROL VALVES
- NOTES:
1. ESP-LXMEF CONTROLLER IS AVAILABLE IN 8- OR 12-STATION BASE MODELS. ADDITIONAL MODULES IN 4-, 8- AND 12-STATION VERSIONS MAY BE ADDED TO BRING THE CONTROLLER UP TO 48 STATIONS MAXIMUM.
 2. FOR EASE OF INSTALLATION INTO A CONTROLLER WITH MORE THAN 24 STATIONS, INSTALL A JUNCTION BOX AT THE BASE OF CONTROLLER AND TRANSITION LARGER VALVE AND COMMON WIRES FROM FIELD TO 18 AWG MULTI CONDUCTOR WIRE TO BE USED IN CONTROLLER.
 3. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS.
 3. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.

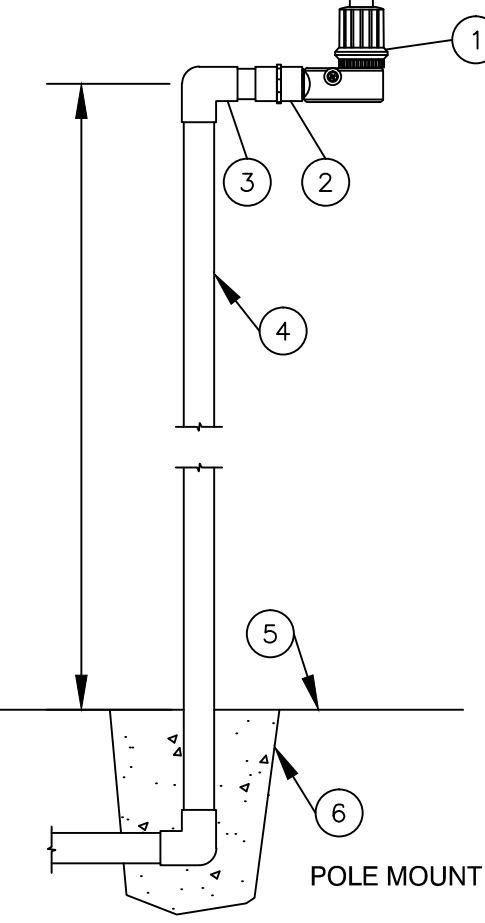


11 ESP-LXMEF CONTROLLER IN STAINLESS STEEL PEDESTAL - LXMS SPED
 NOT TO SCALE

- 1 IRRIGATION CONTROLLER: RAIN BIRD ESP-LXMEF CONTROLLER WITH FLOW SMART MODULE IN LXMM METAL CABINET AND LXMPED METAL PEDESTAL. INSTALL CONTROLLER, CABINET AND PEDESTAL PER MANUFACTURER'S RECOMMENDATIONS.
 - 2 CONCRETE PAD: 6-INCH MINIMUM THICKNESS
 - 3 FINISH GRADE
 - 4 POWER SUPPLY WIRE
 - 5 1-INCH SCH 40 PVC CONDUIT, FITTINGS AND SWEEP ELL FOR POWER SUPPLY
 - 6 COMPACTED SUBGRADE
 - 7 3-INCH SCH 40 PVC CONDUIT, FITTINGS AND SWEEP ELL FOR STATION WIRES
 - 8 FLOW SENSOR WIRE (PE 39, 89 OR 54) TO FLOW SENSOR
 - 9 MASTER VALVE AND REMOTE CONTROL VALVE WIRES
- NOTES:
1. ESP-LXMEF CONTROLLER IS AVAILABLE IN 8- OR 12-STATION BASE MODELS. ADDITIONAL MODULES IN 4-, 8- AND 12-STATION VERSIONS MAY BE ADDED TO BRING THE CONTROLLER UP TO 48 STATIONS MAXIMUM.
 2. FOR EASE OF INSTALLATION INTO A CONTROLLER WITH MORE THAN 24 STATIONS, INSTALL A JUNCTION BOX AT THE BASE OF CONTROLLER AND TRANSITION LARGER VALVE AND COMMON WIRES FROM FIELD TO 18 AWG MULTI CONDUCTOR WIRE TO BE USED IN CONTROLLER.
 3. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.



12 RAIN SENSOR
 NOT TO SCALE



- 1 RAIN SENSOR: RAIN BIRD WR2 WIRELESS
 - 2 FEMALE ADAPTER (SLIP X FIPT)
 - 3 GALVANIZED 90° EL (1 OF 2)
 - 4 3/4-INCH GALVANIZED PIPE
 - 5 FINISHED GRADE
 - 6 CONCRETE BASE
 - 7 EXTERIOR WALL (SEE NOTES BELOW)
- NOTES:
- MOUNT SENSOR ON SURFACE WHERE IT WILL BE EXPOSED TO UNOBSTRUCTED RAINFALL, BUT NOT IN PATH OF SPRINKLER SPRAY. COORDINATE MOUNTING WITH OWNER AND ARCHITECT.
- PAINT PIPE SEMI GLOSS BLACK AND SISTER THE PIPE TO A LIFT STATION FENCE POST WITH SS PIPE CLAMPS

SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP

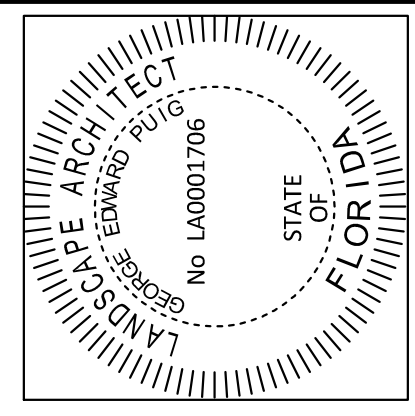


PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

IRRIGATION DETAILS
IRRIGATION DETAILS

SHEET TITLE:

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY GEORGE E. PLUG, ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



No.	REVISIONS - SUBMITTALS	DATE
01	PERMIT SET REV 01	03/08/19
02	PERMIT SET REV 02	04/26/19

UNDERGROUND IRRIGATION SYSTEM

PART I: GENERAL
1.01 SCOPE

- A. The work covered by this specification shall include the furnishing of all labor, materials, tools and equipment necessary to perform and complete the installation of an automatic irrigation system as specified herein and as shown on the drawings and any incidental work not shown or specified which can reasonably be determined to be part of the work and necessary to provide a complete and functional system.
- B. The work covered by this specification also includes all permits, federal, state and local taxes and all other costs, both foreseeable and unforeseeable at the time of construction.
- C. No deviation from these specifications, the accompanying drawings, or agreement is authorized or shall be made without prior written authorization signed by the Owner or his duly appointed representative.

1.02 QUALITY ASSURANCE

- D. Installer Qualifications: A firm specializing in irrigation work with not less than five (5) years of experience in installing irrigation systems similar to those required for this project.
- E. Coordination: Coordinate and cooperate with other contractors to enable the work to proceed as rapidly and efficiently as possible.
- F. Inspection of Site: The Contractor shall acquaint himself with all site conditions, including underground utilities before construction is to begin. Contractor shall coordinate placement of underground materials with contractors previously working underground in the vicinity or those scheduled to do underground work in the vicinity. Contractor is responsible for minor adjustments in the layout of the work to accommodate existing facilities.
- G. Protection of Existing Plants and Site Conditions: The Contractor shall take necessary precautions to protect site conditions to remain. Should damages be incurred, this Contractor shall repair the damage to its original condition at his own expense. Any disruption, destruction, or disturbance of any existing plant, tree, shrub, or turf, or any structure shall be completely restored to the satisfaction of the Owner and his representatives, solely at the Contractor's expense.
- H. Protection of Work and Property: The Contractor shall be liable for and shall take the following actions as required with regard to damage to any of the Owner's property.

- 1. Any existing building, equipment, piping, pipe coverings, electrical systems, sewers, sidewalks, roads, grounds, landscaping or structure of any kind (including without limitation, damage from leaks in the piping system being installed or having been installed by Contractor) damaged by the Contractor, or by his agents, employees, or subcontractors, during the course of his work, whether through negligence or otherwise, shall be replaced or repaired by Contractor at his own expense in a manner satisfactory to Owner, which repair or replacement shall be a condition precedent to Owner's obligation to make final payment under the Contract.

- 2. Contractor shall also be responsible for damage to any work covered by these specifications before final acceptance of the work. He shall securely cover all openings into the systems and cover all apparatus, equipment and appliances, both before and after being set in place to prevent obstructions on the pipes and the breakage, misuse or disfigurement of the apparatus, equipment or appliance.

- 3. All trenching or other work under the leaf canopy of any and all trees shall be done by hand or by other methods so that no branches are damaged in any way.

Buildings, walks, walls, and other property shall be protected from damage. Open ditches left exposed shall be flagged and barricaded by the Contractor by approved means. The Contractor shall restore disturbed areas to their original condition.

- 4. The Contractor shall be responsible for requesting the proper utility company to stake the exact location of any underground lines including but not limited to electric, gas, telephone service, water, and cable.

- The Contractor shall take whatever precautions are necessary to protect these underground lines from damage. In the event damage does occur, all damage shall be completely repaired to its original condition, at no additional cost to the Owner.

- 5. The Contractor shall request the Owner, in writing, to locate any private utilities (i.e., electrical service to outside lighting) before proceeding with any excavation. If, after such requests and necessary staking, private utilities which were not staked are encountered and damaged by the Contractor, they shall be repaired by the Owner at no cost to the Contractor. If the Contractor damages staked or located utilities, they shall be repaired at the Contractor's expense.

- J. Codes and Inspections: The entire installation shall comply fully with all local and state laws and ordinances and with all established codes arrange for all necessary inspections and shall pay all fees and expenses in connection with same, as part of the work under this Contract. Upon completion of the work, he shall furnish to the "Owner" all inspection certificates customarily issued in connection with the class of work involved.

- K. The Contractor shall keep on his work, during its progress, a competent superintendent and any necessary assistants, all satisfactory to the Owner, or Owner's representative.

- L. The superintendent shall represent the Contractor in his absence and all directions given to him shall be as binding as if given to the Contractor.

- M. The Owner's Landscape Architect or designated individual shall have full authority to approve or reject work performed by the Contractor. The Owner's Authorized Representative shall also have full authority to make field changes that are deemed necessary.

- N. Final Acceptance: Final acceptance of the work may be obtained from the Owner upon the satisfactory completion of all work. Acceptance by the Landscape Architect and/or Owner in no way removes the Contractor of his responsibility to make further repairs, corrections and adjustments to eliminate any deficiencies which may later be discovered.

- O. Guarantee: All work shall be guaranteed for one year from date of final acceptance against all defects in material, equipment and workmanship to the satisfaction of the Owner. Repairs, if required, shall be done promptly at no cost to the Owner.

- 1. The guarantee shall also cover repair of damage to any part of the premises resulting from leaks or workmanship, to the satisfaction of the Owner. The Contractor shall not be responsible for work damaged by others. Repairs, if required, shall be done promptly. The guarantee shall state the name of the Owner, provide full guarantee terms, effective and termination date, name and license number of Contractor providing guarantee, address, and telephone number. It shall be signed by the chief executive of the Contractor of his liability under the guarantee. Such warranties shall only supplement the guarantee.

- 2. If, within ten (10) days after mailing of written notice by the Owner to the Contractor requesting repairs or replacement resulting from a breach of warranty, the Contractor shall neglect to make or undertake with due diligence to make the same, the Owner may make such repairs at the Contractor's expense; provided, however, that in the case of emergency where, in the judgment of the Owner, delay would cause serious loss or damage, repairs or replacement may be made without notice being sent to the Contractor, and Contractor shall pay the cost thereof.

- P. The Contractor shall provide full, 100% irrigation coverage in all areas designed with proposed plantings, in accordance with the site's governing permitting requirements and as designed.

- Q. On-site Observation: At any time during the installation of the irrigation system by the Contractor, the Owner or Landscape Architect may visit the site to observe work underway. Upon request, the Contractor shall be required to uncover specified work as directed by the Owner or material, workmanship or method of installation not meet the standards specified herein, the Contractor shall replace the work at his own expense.

- R. Workmanship: All work shall be installed by qualified, skilled personnel, proficient in the trades required, in a neat, orderly, and responsible manner with recognized standards of workmanship. The Contractor shall have had considerable experience and demonstrated ability in the installation of sprinkler irrigation systems of this type.

1.04 SUBMITTALS

All materials shall be those specified and/or approved by the Landscape Architect.

- A. Product Data: After the award of the Contract and prior to beginning work, the Contractor shall submit for approval by the Owner and Landscape Architect, two copies of the complete list of materials, manufacturer's technical data, and installation instructions which he proposes to install.

- B. Commence no work before approval of material list and descriptive material by the Landscape Architect.

- C. Record Drawings: The Contractor shall record on reproducible, all changes that may be made during actual installation of the system. Provide controller sequencing and control valve locations.

- 1. Immediately upon installation of any piping, valves, wiring, sprinklers, etc., in locations other than shown on the original drawings or of sizes other than indicated, the Contractor shall clearly indicate such changes on a set of blue-line prints. Records shall be made on a daily basis. All records shall be neat and subject to the approval of the Owner.

- 2. The Contractor shall also indicate on the record prints the location of all wire splices, original or due to repair, that are installed underground in a location other than the controller pedestal, remote control valve box, power source or connection to a valve-in-head sprinkler.

- 3. These drawings shall also serve as work progress sheets. The Contractor shall make neat and legible notations thereon daily as the work proceeds, showing the work as actually installed. These drawings shall be available at all times for review and shall be kept in a location designated by the Owner's Representative.

- 4. Progress payment request and record drawing information must be approved by Landscape Architect before payment is made.

- 5. If in the opinion of the Owner or his representative, the record drawing information is not being properly or promptly recorded, construction payment may be stopped until the proper information has been recorded and submitted.

- 6. Before the date of the final site observation and approval, the Contractor shall deliver one set (copies) of reproducible record drawing plans and notes to the Landscape Architect. Record drawing information shall be approved by the Landscape Architect prior to submittal to Owner for final payments, including retentions.

- W. Operations and Maintenance Manuals: The Contractor shall prepare and deliver to the Owner, or his designated representative within ten (10) calendar days prior to completion of construction, a hard cover binder with three rings containing the following information:

- 1. Index sheet stating the Contractor's address and business telephone number, list of equipment with name(2) and address(es) of local manufacturer's representative(s).

- 2. Catalog and parts sheets on every material and equipment installed under this Contract.

- 3. Complete operating and maintenance instruction on all major equipment. Include initial controller schedule and recommended schedule after establishment period.

- 4. Demonstrate to and provide the Owner's maintenance personnel with instructions for major equipment and show evidence in writing to the Owner, or his designated representative at the conclusion of the project that this service has been rendered.

1.05 EXPLANATION OF DRAWINGS

- A. Due to the scale of the drawings, it is not possible to indicate all offsets, fittings and sleeves which may be required. The Contractor shall carefully investigate the structural and finished conditions affecting all of the work and plan his work accordingly, furnishing such offsets, fittings and sleeves as may be required to meet such conditions.

- B. The drawings are generally diagrammatic and indicative of the work to be installed. The work shall be installed in such a manner as to avoid conflicts between irrigation systems, planting and architectural features. Deviations shall be brought to the Landscape Architects attention.

- C. All work called for on the drawings by notes or details shall be furnished and installed whether or not specifically mentioned in the specifications.

- D. The Contractor shall not willfully install the irrigation system as shown on the drawings when it is obvious in the field that obstructions, grade differences or discrepancies in area dimensions exist that might not have been known in engineering. Such obstructions or differences should be brought to the attention of the Landscape Architect. In the event that notification is not performed, the Contractor shall assume full responsibility for any revision necessary.

- E. If, in the opinion of the Landscape Architect, the labor furnished by the Contractor is incompetent, unskilled, or unreliable, his equipment inadequate, improper or unsafe, or if the Contractor shall fail to continuously and diligently execute the construction, the Landscape Architect or Owner shall, in writing, instruct the Contractor to remove all such causes of noncompliance and the Contractor shall promptly comply.

- F. The Contractor shall be responsible for full and complete coverage of all irrigation areas. The Landscape Architect shall be notified of any necessary adjustments at no additional cost to the Owner. Any revisions to the irrigation system must be submitted and answered in written form, along with any change in Contract price. Layout may be modified, if necessary to obtain coverage. Spacing not to exceed 60% of the diameter.

PART II: PRODUCTS

2.01 MATERIALS

Material and equipment shall be supplied by the Contractor. No substitutions shall be allowed without the prior written approval of the Owner/Landscape Architect. The Contractor shall inspect all materials and equipment prior to installation, and defective materials shall be replaced with the proper materials and equipment. Those items used in the installation found to be defective, improperly installed or not as specified, shall be removed and the proper materials and equipment installed in the proper manner, as interpreted by the Owner/Landscape Architect. The Contractor shall remove all damaged and defective pipe and equipment from the site.

2.02 PIPING

- A. General Provisions: All materials throughout the system shall be new and in perfect condition unless otherwise directed by the Landscape Architect.

- B. Polyvinyl Chloride Pipe (PVC): (Where indicated on plan, use non-potable purple piping.)

- 1. Laterals: PVC shall conform to the requirements of ASTM Designation D 2241, Class 1120 or 1220. All lateral piping less than 3" in diameter shall be Class 200 SDR-21.

- 2. Main Line Under Pressure: PVC shall conform to the requirements of ASTM Designation D 2241, Class 1120 or 1220, Schedule 40 with belled end for solvent weld connection.

- 3. Pipe Markings: All PVC pipe shall bear the following markings:
 - o Manufacturer's Name
 - o Nominal Pipe Size
 - o Schedule or Class
 - o Pressure Rating of PSI
 - o NSF (National Sanitation Foundation) Approval
 - o Date of Extrusion

2.04 PVC JOINTS

Joints in PVC pipe smaller than 3" shall be solvent welded in accordance with the recommendations of the pipe manufacturer; the solvent cleaner and welding compound furnished with the pipe.

2.05 THREADED CONNECTIONS

- A. Threaded PVC connections shall be made up using Teflon tape only.

- B. Connection between mainline pipe fittings and automatic or manual control valves shall be made using Schedule 80 threaded fittings and nipples.

2.06 SOLVENT CEMENT

- A. General: Provide solvent cement and primer for PVC solvent weld pipe and fittings recommended by the manufacturer. Pipe joints for solvent weld pipe to be belled end. Pipe joints for gasketed pipe to be intrical ring type. Insert gaskets will not be accepted.

- B. Thrust Blocks: Main line piping 3" or greater in diameter shall have thrust blocks sized and placed in accordance with the pipe manufacturer's recommendations or, in the absence of specified recommendations by the pipe manufacturer. 3000 PSI concrete thrusts shall be properly installed at tees, elbows, 45's, crosses, reducers, plugs, caps and valves.

2.07 PIPE AND WIRE SLEEVES

- A. Sleeves to be installed:

- 1. The Contractor shall install irrigation system pipe and wire sleeves conforming to the following:
 - a. All pipe sleeves shall extend a minimum of 36" beyond the edges of pavement.
 - b. All pipe sleeves to be installed beneath future/existing road surfaces shall be PVC pipe Schedule 40 or jack and bore steel pipe as per FDOT specifications, and as shown on plans.
 - c. All irrigation system wires shall be sleeved separately from main or lateral lines.
 - d. All pipe sleeves shall be installed at the minimum depth specified for main lines, lateral lines, and electric wire.
 - e. Contractor shall coordinate all pipe sleeve locations and depths prior to initiating installation of the irrigation system.

2.08 SPRINKLER HEADS

- A. Spray Sprinklers: The sprinkler shall be a fixed spray type designed for in-ground installation. The nozzle shall elevate 6' (or as designated on plan) when in operation. The body of the sprinkler shall be constructed of non-corrosive heavy duty Cyclocac. A filter screen shall be in the nozzle piston. All sprinkler parts shall be removable through the tip of the unit by removal of a threaded cap.

Riser mounted spray shall be as indicated on the plans. The sprinkler shall consist of a nozzle and body. The body of the riser-mount sprinkler shall be constructed of non-corrosive materials. A cone strainer shall be a separate part with the nozzle assembly to allow for easy flushing of the sprinkler. Maximum working pressure at the base of the sprinkler shall be 40 PSI.

(continued...)

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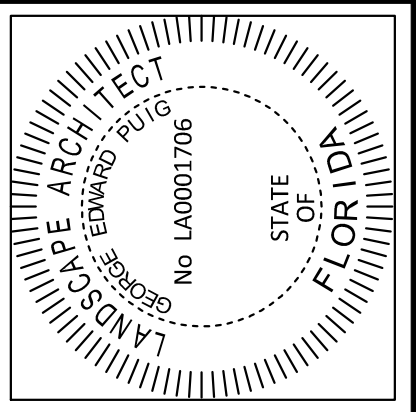


PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

IRRIGATION NOTES

SHEET TITLE:

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No.	REVISIONS - SUBMITTALS	DATE
01	PERMIT SET REV 01	03/08/19
02	PERMIT SET REV 02	04/26/19

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2.09 AUTOMATIC CONTROL VALVE

The automatic remote control valves shall be as specified on the plans, or approved equal.

2.10 GATE VALVES

- A. Gate valves for 3/4" through 2-1/2" shall be of brass or bronze construction, solid wedge, IPS threads, non-rising stem with wheel operating handle, for a continuous working pressure of 150 PSI.
B. Gate valves for 3" and larger: Iron body, brass or bronze mounted ANWA gate valves, with a clear waterway equal to the full nominal diameter of the valve, rubber gasket for a continuous working pressure of 150p PSI. Valve shall be equipped with a square operating nut.

2.11 VALVE BOXES

- A. For gate valves, use AMETEK #10-181-014 box with #10-181-015 locking lid, or as per the drawings.
B. For control valves 3/4" through 2", the drip valve assemblies, use AMETEK #10-181-014 box with #10-181-015 locking lid, or sized as necessary to effectively house the equipment.
C. For control wiring splices, use AMETEK #10-181-014 box with #10-181-015 locking lid, or as per the drawings.

2.12 IRRIGATION WIRING

- A. Wiring used for connecting the electric control valves to the controllers shall be Type UF, 600 volt, single strand, solid copper with PVC insulation 4/64" thick. Size shall be 14 gauge, red for "hot" or lead wires, and common wire to be 14 gauge, white in color.
B. Contractor shall perform an ohm test on ground to assure adequate protection against surges and indirect lightning strikes.

2.13 MISCELLANEOUS MATERIALS

- A. Drainage Backfill: Cleaned gravel or crushed stone, graded from 1" maximum to 3/4" minimum.
B. Metalized Underground Tape: The detectable, underground utility marking tape shall consist of a minimum: 5 mil (0.005") overall thickness; five-ply composition; ultra-high molecular weight, 100% virgin polyethylene; acid, alkaline and corrosion resistant; with no less than 150 pounds of tensile break strength per 6" width; color-code impregnated with color stable, lead-free, organic pigments suitable for direct burial. Tapes utilizing reprocessed plastics or resins shall not be acceptable. The detectable, underground utility marking tape shall have a 35 gauge (0.0035") solid aluminum foil, core encapsulated within a 2.55 mil (0.00255") polyethylene backing and a 0.6 mil (0.006") PET cover coating. The laminate on each side shall consist of a 0.75 mil (0.00075") layer of hot LPDE, poly-fusing the "sandwich" without use of adhesives.

2.14 AUTOMATIC CONTROL SYSTEM

An Independent Station Controller: Furnish a solid state controller, as specified on the plans. Each station shall be capable of timing from zero (0) minute to 99 minutes per station in one (1) minute increments.

Each station shall be capable of operating two (2) TVA electric valve-in-head solenoids.

The stand-alone controller shall have two (2) possible programs.

The stand-alone controller shall provide global percentage increase/decrease (water budget) for all stations simultaneously, from ten (10) to two hundred (200) percent, in ten (10) percent increments.

All stations shall be able to be turned on/off manually buy operating timing mechanism or by manual switch at station output.

The stand-alone controller shall incorporate an integral MOV surge protection into the terminal block for each of its 24 VAC field wire outputs. Controller power input wires will also incorporate surge protection.

The control panel shall provide continuous display time. It shall have alphanumeric displays of descriptive English menus and legend identifiers with cursor selection of function and precision value adjustment by rotary dial input.

The stand-alone controller shall be UL listed and FCC approved.

The stand-alone controller shall have 117 VAC, 60 Hz input, 26.5 VAC, 60 Hz output for operating 24 VAC solenoids.

The stand-alone controller cabinet shall be a lockable and weather-resistant outdoor cabinet. Mount as noted on plans.

The controller shall be equipped with lightening protection, by the Contractor, on both the primary (120v) and each secondary (24v) circuit. The controller circuits shall be grounded to a copper clad grounding rod located at each controller.

The controller shall be equipped for a water conservation device, as specified.

PART III: EXECUTION

3.01 INSPECTION

The Contractor shall examine the areas and conditions under which landscape irrigation system is to be installed and notify the Landscape Architect in writing of conditions detrimental to the proper and timely completion of the work. The Contractor shall proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the Landscape Architect.

3.02 PREPARATION

The Contractor shall provide sleeves to accommodate piping under walks or paving. The Contractor shall coordinate with other trades and install to accurate levels prior to paving work. Cutting and patching of paving and concrete will not be permitted. The Contractor shall maintain all warning signs, shoring, barricades, flares and red lanterns, as required by any local codes, ordinances or permits.

3.03 TRENCHING AND BACKFILLING

A. Excavation: The Contractor shall stake out the location of each run of pipe, sprinkler heads, sprinkler valves and isolation valves prior to trenching. Excavation shall be open vertical construction sufficiently wide to provide free working space around the work installed and to provide ample space or backfilling and tamping. Trenches for pipe shall be cut to required grade lines, and compacted to provide accurate grade and uniform bearing for the full length of the line. The bottom of the trenches shall be free of rock or other sharp edged objects. Minimum cover shall be as follows:

Table with 2 columns: Pipe and Wire Depth, and corresponding depth requirements for Pressure Mainline, Lateral Piping (rotor), Lateral Piping (pop-up), and Control Wiring.

B. Minimum Clearances: All pipelines shall have a minimum clearance of six inches from each other and from lines of other crafts. Parallel lines shall not be installed directly over one another. No lateral line shall be installed in the main-line trench.

3.04 INSTALLATION OF PIPING

A. PVC Pipe and Joints: The Contractor shall not install solvent wuld pipe when air temperature is below 40ø F. Installation shall be in accordance with the manufacturer's instructions.

- 1. Only the solvent recommended by the pipe manufacturer shall be used. All PVC pipe and fittings shall be installed as outlined and instructed by the pipe manufacturer, and it shall be the Contractor's full responsibility to make arrangements with the pipe manufacturer for any field assistance that may be necessary. The Contractor shall assume full responsibility for the correct installation.

3.05 BACKFILLING PROCEDURES

Initial backfill on PVC lines shall be pulverized native soil, free of foreign matter. Within radius of 4" of the pipe shall be clean soil or sand. Plant locations shall take precedence over sprinkler and pipe locations. The Contractor shall coordinate the location of trees and shrubs with the routing of lines and final head locations.

A. Backfill and Compaction: The Contractor shall leave trenches slightly mounded to allow for settlement after the backfilling is completed. The Contractor shall clean the site of the work continuously of excess waste materials as the backfilling progresses, and leave in a neat condition. No trenches shall be left open for a period of more than 48 hours. Protect open trenches as required.

The Contractor shall carefully backfill excavated materials approved for backfilling, consisting of earth, loam, sand, and other approved materials, free of rock and debris over 1" in size. Backfill shall be compacted to original density of surrounding soil without dips, sunken areas, or irregularities.

The Contractor shall conform to DOT requirements for methods and required compaction percentages, for roads and paving.

The Contractor shall hand place the first 6" of backfill (or to top of pipe) and have it walked on so as to secure the position of the pipe and wire.

No wheel rolling will be allowed. The Contractor shall remove rock or debris extracted from backfill materials and dispose of offsite. The Contractor shall fill any voids left in backfill with approved backfill materials.

B. Existing Lawns: Where trenching is required across existing lawns, uniformly cut strips of sod 6" wider than trench. The Contractor shall remove sod in rolls of suitable size for handling and keep moistened until replanted. The Contractor shall replant sod within 48 hours after removal, roll and water generously. The Contractor shall resod any areas not in healthy condition equal to adjoining lawns 10 days after replanting.

C. Seeded Area: Trenching will be required across existing seeded areas, primarily roadway edging. The Contractor shall conform to the requirements of seeding, Section 02930 for the reseeding of the disturbed trench area.

D. Pavements: Jack and bore or directional bore piping under paving materials as per local regulatory codes. No cutting and patching of pavement will be permitted.

3.06 VALVES

A. Isolation Valves: Shall be sized corresponding to adjacent pipe size. Specified valve boxes shall be installed flush with finish grade in such a manner that surface forces applied to their exposed area will not be transmitted to the piping in which the valve is installed nor any other piping, wiring or other lines in the vicinity of said valves.

B. Gate Valves: Install where shown, in valve boxes.

C. Electric Control Valves: Shall be installed in specified valve boxes. The valve shall have 6" of 3/4" pea gravel installed below the bottom of the valve. If the valve box does not extend to the base of the valve, a valve box extension shall be installed. Electric control valves shall be installed where shown and grouped together where practical. The Contractor shall place no closer than 24" to walk edges, bikeway edges, buildings and walls. The Contractor shall adjust the valve to provide flow rate or rated operating pressure required for each sprinkler circuit.

3.07 CONDUIT AND SLEEVES

A. Conduit and Sleeves for Control Wiring and Main/Lateral Pipe: The Contractor shall provide and install where necessary. Contractor shall coordinate locations of previously installed sleeving with the General Site Contractor.

The Contractor shall coordinate installation of sleeves with work of other disciplines.

3.08 CONTROLS

A. The Contractor shall connect electric control valves to controllers in a clockwise sequence to correspond with station settings beginning with Stations 1, 2, 3, etc. Automatic controllers shall be provided and installed by the Contractor as noted on the drawings. All zones will be labeled on the controller.

B. Controllers shall be equipped with lightning protection and grounded to a standard 5/8" copper clad steel ground rod driven a minimum of 8' into the ground and clamped.

C. The electrical service to the controllers shall be performed by an electrical subcontractor in compliance with NEC requirements.

3.09 CONTROL WIRE

A. Control wiring between the controller and electric valves shall be buried in main line trenches or in separate trenches. Electrical connection at valve will allow for pigtail so solenoid can be removed from valve with sufficient slack to allow ends to be pulled 12" above ground for examination and cleaning.

B. An expansion loop shall be provided at every valve at 100' o.c. Expansion loop shall be formed by wrapping wire at least eight times around a 3/4" pipe and withdrawing pipe.

C. The wire shall be bundled and taped every ten feet. The wire shall be laid in the trench prior to installing the pipe being careful to install wire beneath and 6" to the side of the main pipe line.

D. Electrical connections to electric control valves shall be made with Rainbird Pen-Tite or Techdel GT-3-GEL - Tite connectors or equal.

Power Connections: Electrical connections to power and signal wires shall be made using 3M 82-A2 power cable splice kits.

3.10 SPRINKLER HEADS

A. General Provisions:

1. Sprinkler heads shall be installed as designated on the shop drawings. Heads shall be installed on flexible PVC. Top to be flush with finish grade or top of curb.

2. Spacing of heads shall not exceed the maximum indicated on the shop drawings (unless directed by the Landscape Architect). In no case shall the spacing exceed the maximum recommended by the manufacturer.

B. Head Types:

1. Pop-up- Rotary Sprinkler Heads: Shall be installed on flex joint and be set with top of head flush with finish grade. Heads installed at curb shall have 6" to 10" between perimeter of head and concrete. Heads placed at edge of pavement having no curb shall be installed 24" from edge of pavement.

2. Spray Pop-up Sprinkler Heads: Shall be installed on flexible PVC and be set with top of head flush with finished grade. Sprinkler heads placed adjacent to curbs will be installed 9" from concrete. Sprinkler heads placed adjacent to pavement having no curb shall be installed 24" from the edge of pavement.

3.11 COMPLETION

A. Flushing: Before sprinkler heads are set, the Contractor shall flush the lines thoroughly to make sure there is no foreign matter in the lines.

The Contractor shall flush the main lines from dead end fittings for a minimum of five minutes under a full head of pressure.

B. Testing: The Contractor shall notify Landscape Architect and Ouner forty-eight (48) hours in advance of testing.

Prior to backfilling of main line fittings, Contractor shall fill the main line piping with water, in the presence of the Owner/Landscape Architect, taking care to purge the air from it by operating all the sprinkler control valves one or more times and/or such other means as may be necessary. A small, high pressure pump or other means of maintaining a continuous water supply shall be connected to the main line and set so as to maintain 100 PSI in the main line system for two (2) hours without interruption. When this has been accomplished and while the pressure in the system is still 100 PSI, leakage testing shall be performed in accordance with ANWA Standard C-600. Pressure readings shall be noted and make up water usage shall be recorded. Should the rate of make up water usage indicate significant leakage, the source of such leakage shall be found and corrected and the system then retested until the Owner/Landscape Architect is satisfied that the system is reasonably sound. Lateral line testing shall be conducted during the operating testing of the system by checking visually the ground surface until no leaks in this portion of the system are evident. Leaks shall be repaired or paid for by the Contractor at any time they appear during the warranty period.

C. Adjustment and Coverage of System: Coordinate pressure testing with adjustments and coverage test of system so both may occur at the same time. The Contractor shall balance and adjust the various components of the system so that the overall operation of the system is most efficient. This includes a synchronization of the controllers, adjustments to pressure regulators, pressure relief valves, part circle sprinkler heads, and individual station adjustments on the controllers.

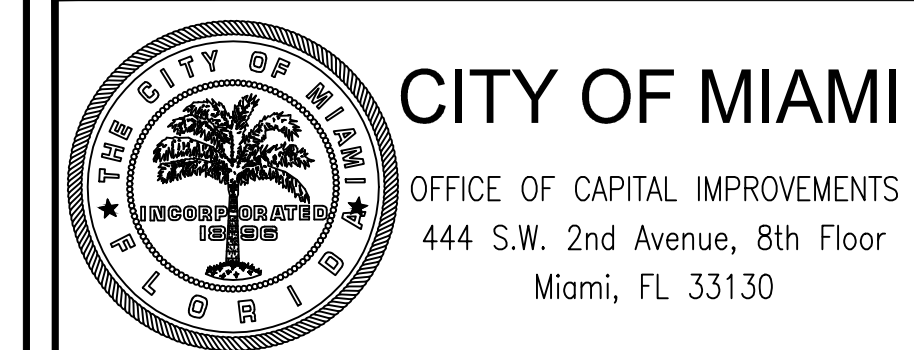
3.12 WARRANTY

A. The Contractor shall fully warrant the landscape irrigation system for a period of one (1) year after the written final acceptance and will receive a written confirmation from the Landscape Architect that the warranty period is in effect.

B. During the warranty period, the Contractor will enforce all manufacturer's and supplier's warranties as if made by the Contractor himself. Any malfunctions, deficiencies, breaks, damages, disrepair, or other disorder due to materials, workmanship, or installation by the Contractor and his suppliers shall be immediately and properly corrected to the proper order as directed by the Owner and/or Landscape Architect.

C. Any damages caused by system malfunction shall be the responsibility of the Contractor who shall make full and immediate restoration for said damages.

SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
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IRRIGATION NOTES

SHEET TITLE:

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY GEORGE E. PLUG, ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

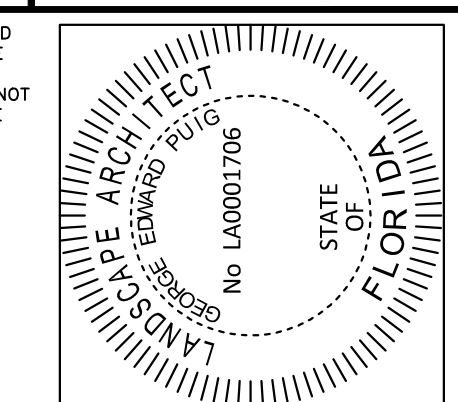


Table with 3 columns: No., REVISIONS - SUBMITTALS, DATE. Rows include 01 PERMIT SET REV 01 03/08/19 and 02 PERMIT SET REV 02 04/26/19.



1 LOOKING NORTH TO SITE ENTRY



2 SITE ENTRY, LOOKING SOUTH



3 SITE ENTRY, LOOKING S.W.



4 LOOKING N.E.



5 LOOKING EASTWARD



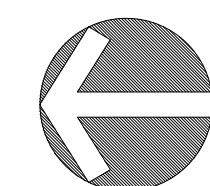
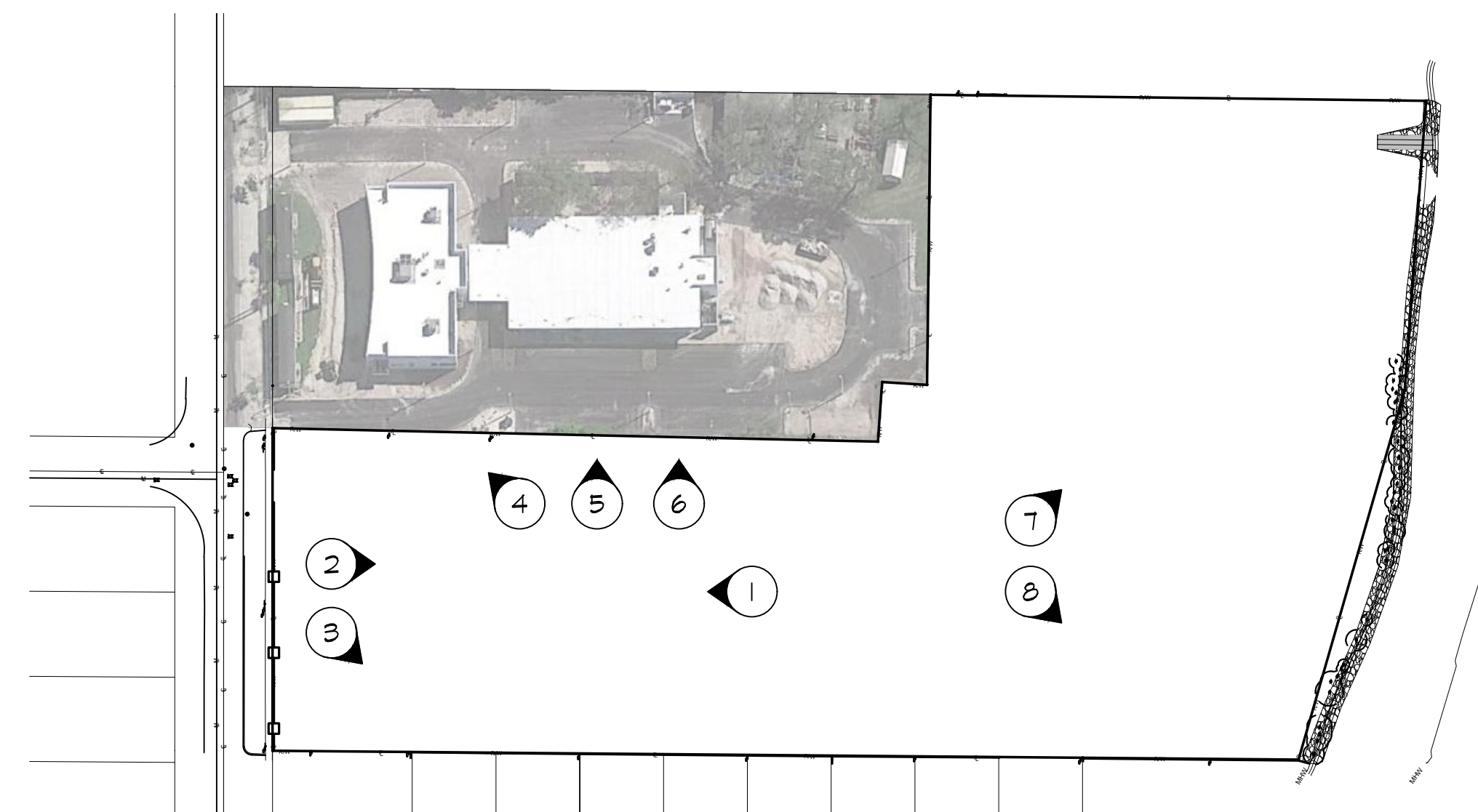
6 LOOKING EASTWARD



7 LOOKING S.E.



8 LOOKING S.W. TO EXIST'G STG. BLDG.



SITE PHOTOGRAPHS OF EXISTING CONDITIONS
N.T.S.

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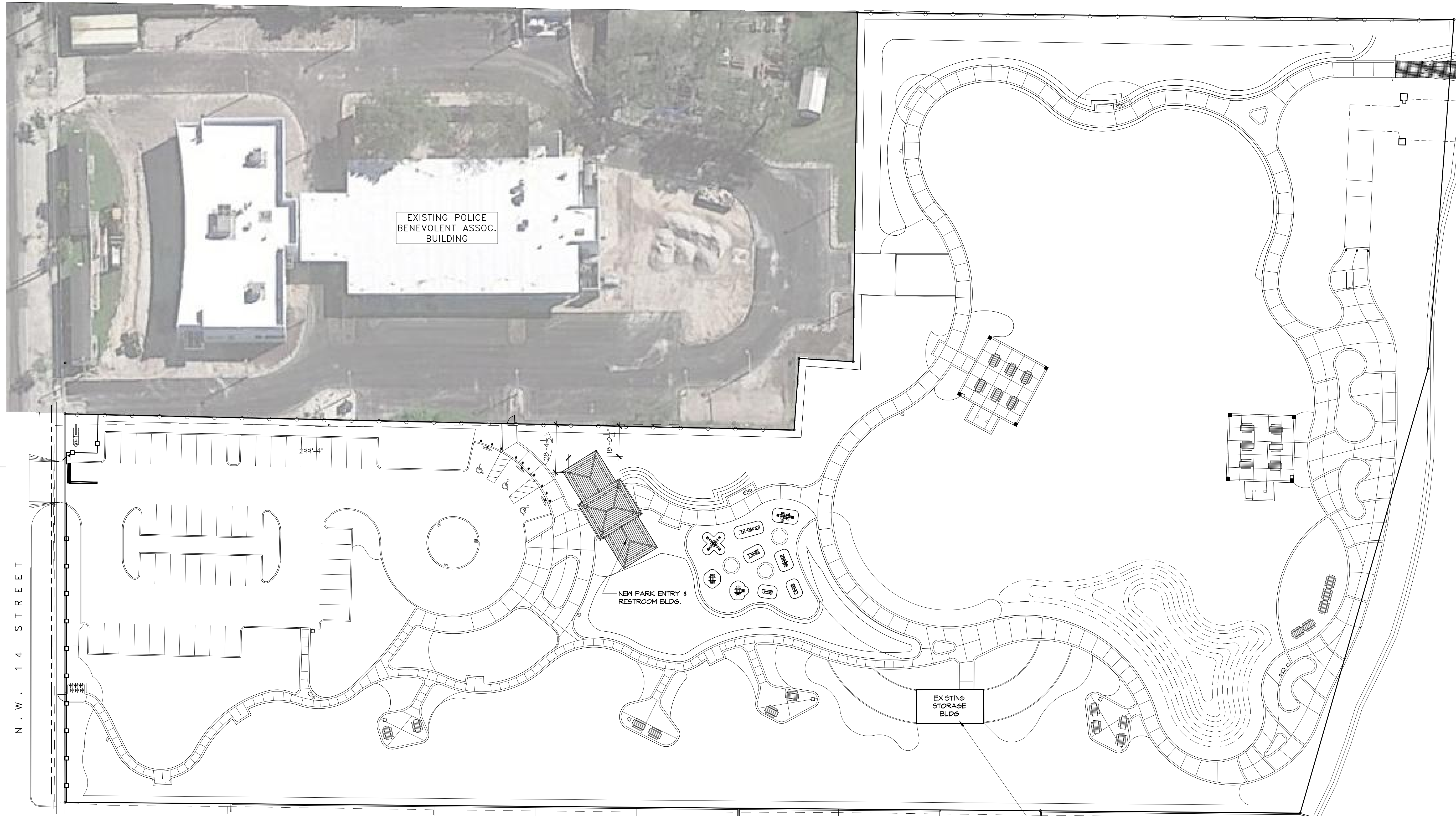
SHEET TITLE:
SITE PHOTOS



LICENSED PROFESSIONAL
J. GARY MCGRAW
ARCHITECT
FL LICENSE NUMBER
AR 008072
DATE: 03.07.2019

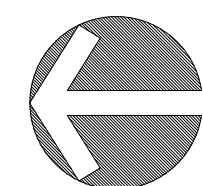
No.	REVISIONS - SUBMITTALS	DATE

SHEET No.
A-2.0



N . W . 1 4 S T R E E T

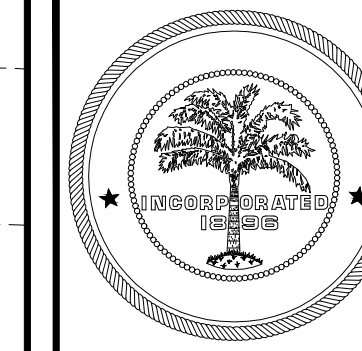
PARK ENTRY & RESTROOM BLDG. SITE PLAN
SCALE: 1" = 30'-0"



EXISTING STORAGE BLDG. (SEE SHT. A-3.1)

- PREPARE STUCCO SURFACE AND REPAINT EXTERIOR WALLS WITH 3 COATS BENJAMIN-MOORE ACRYLIC LATEX SEMI-GLOSS OR APPROVED EQUAL. COLOR AS SELECTED BY ARCHITECT.
- REMOVE EXISTING 5'-6" X 7'-0" ROLL-UP DOOR AND REPLACE WITH NEW PAIR 3'-0" X 7'-0" H.M. DOOR AND FRAME. SEE DOOR AND HARDWARE SCHEDULE, SHT. A-6.0. PAINT DOOR AND FRAME WITH ONE COAT GALVANIZED METAL PRIMER AND TWO COATS BENJAMIN MOORE ACRYLIC LATEX ENAMEL OR APPROVED EQUAL. COLOR AS SELECTED BY ARCHITECT.

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SHEET TITLE:
ARCHITECTURAL SITE PLAN



LICENSED PROFESSIONAL
J. GARY MCGRAW
ARCHITECT
FL LICENSE NUMBER
AR 008072
DATE: 03.07.2019

No.	REVISIONS - SUBMITTALS	DATE
1	04.26.19	

SHEET No.
A-2.1



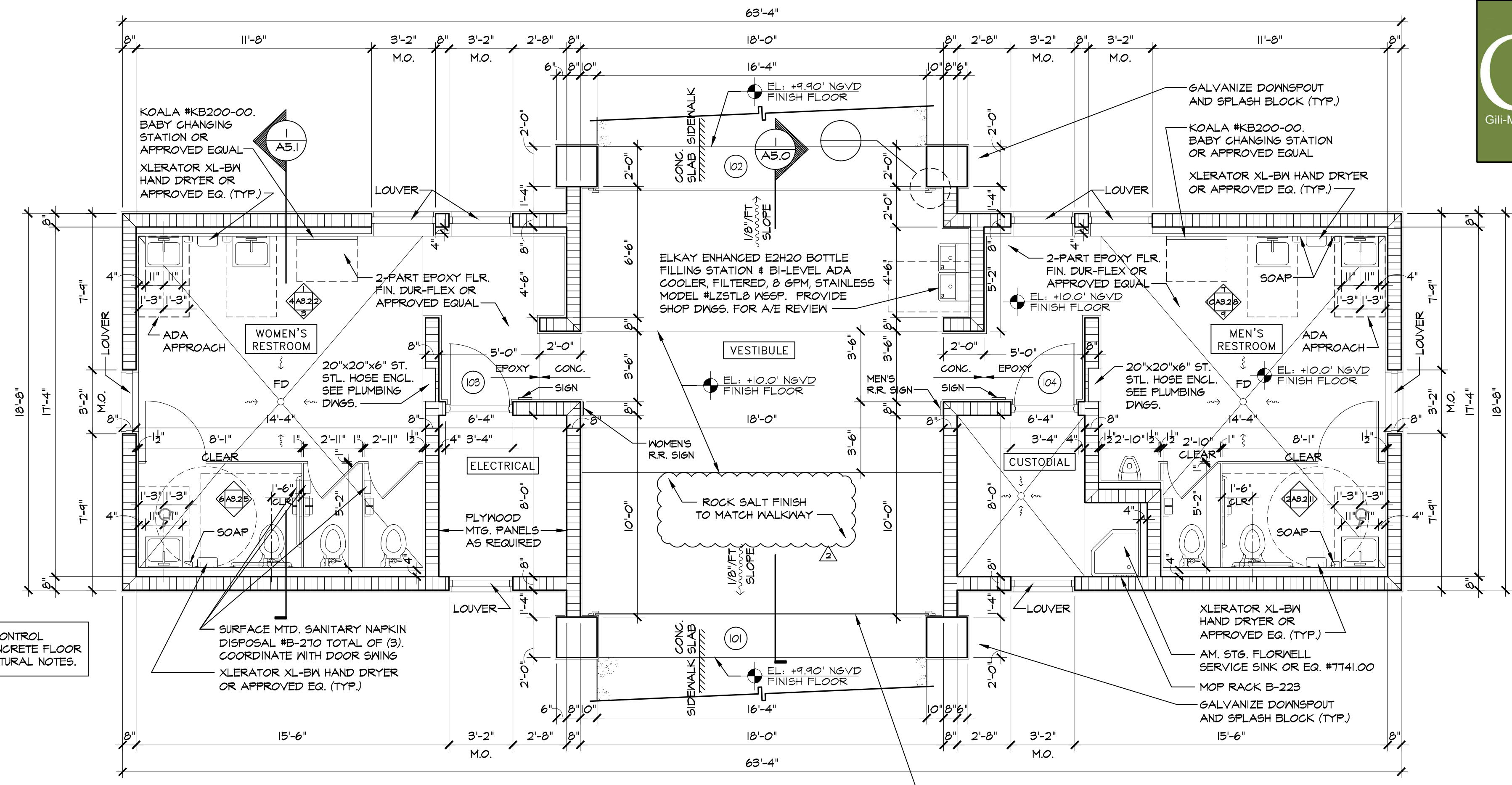
TERMITICIDE NOTES:

APPLY FLORIDA REGISTERED SOIL TERMITICIDE MIXTURE TO:

- SOIL AND EARTH THAT WILL BE COVERED BY, OR LIE NEXT TO NEW BUILDINGS
- MASONRY FOUNDATIONS
- AREAS AROUND PIPES AND CONDUITS PENETRATING SLABS ON FILL.

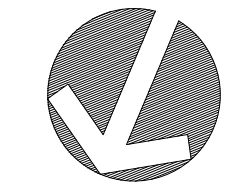
APPROVED TERMITICIDES INCLUDE: BIFENTHRIN, CYPERMETHRIN, FIPRONIL, IMIDCLOPRID, AND PERMETHRINS.

PROVIDE 5 YEAR REPAIR AND REPLACEMENT BOND.

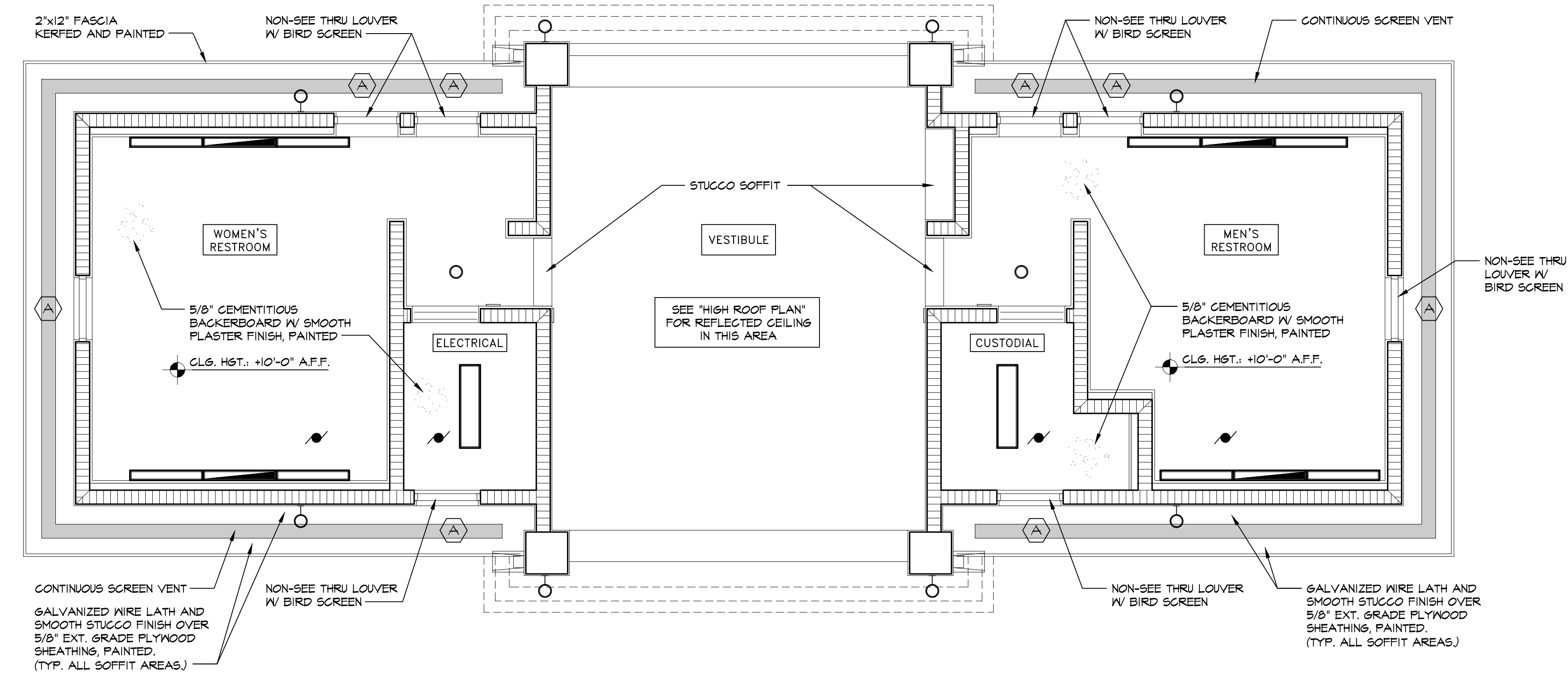
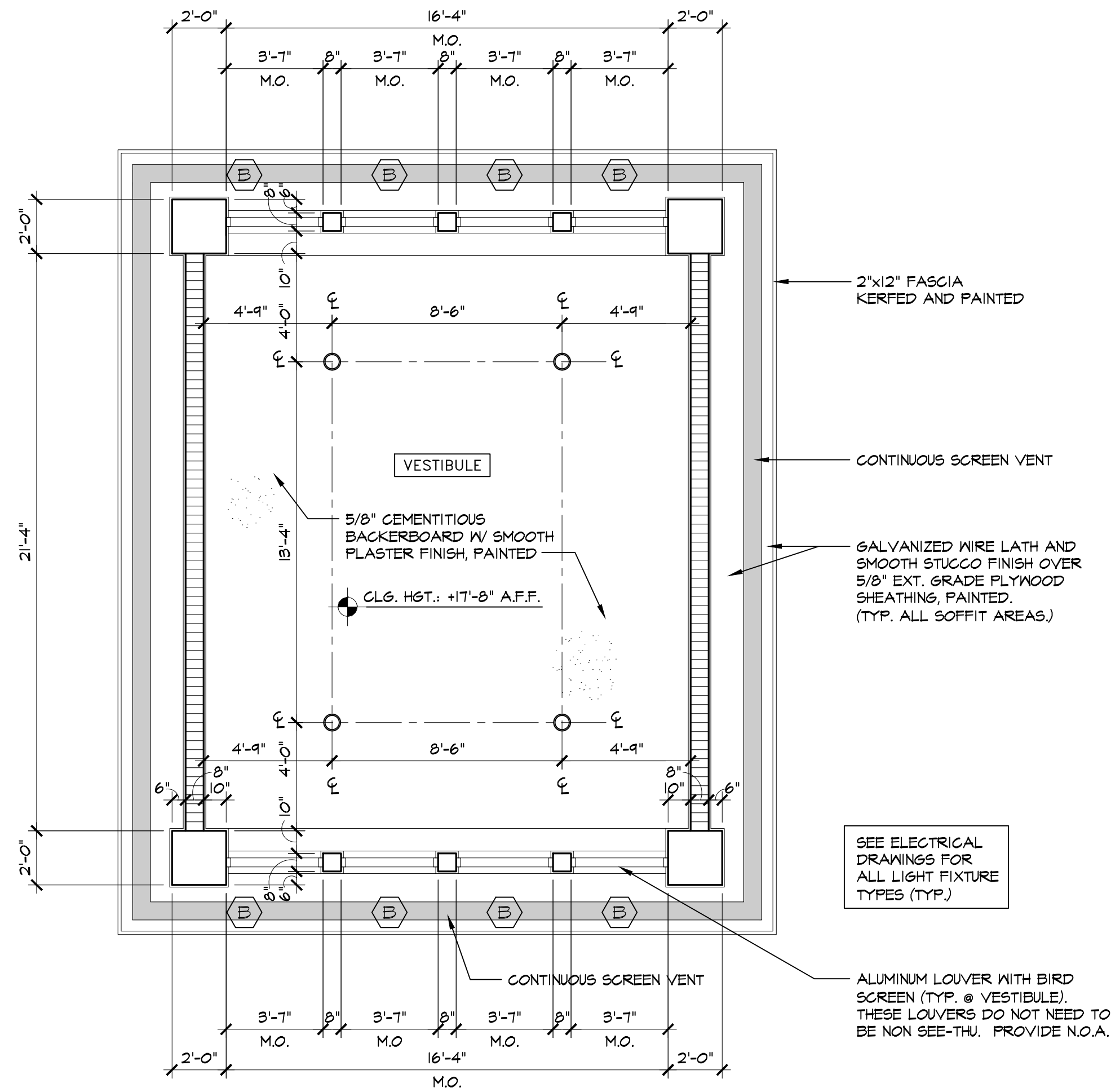


IMPORTANT: CUT CONTROL JOINTS IN ALL CONCRETE FLOOR SLABS PER STRUCTURAL NOTES.

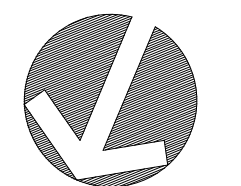
PARK ENTRY & RESTROOM BLDG. FLOOR PLAN
SCALE: 1/4" = 1'-0"



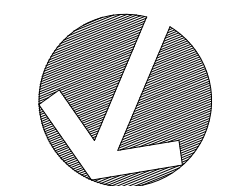
MODEL 671 LOCKABLE OVERHEAD COILING SECURITY GRILLE BY OVERHEAD DOOR CORP. OR APPROVED EQUAL. (TYP.) 2) GALVANIZED STEEL W/ POWDERGUARD WEATHER FINISH COATING. STRAIGHT LATTICE CONFIGURATION GRILLE PATTERN. MANUAL OPERATION W/ AUTO UNLOCK MANUAL RELEASE. PROVIDE SHOP DWGS. FOR A/E REVIEW



PARK ENTRY & RESTROOM BLDG. HIGH ROOF REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



PARK ENTRY & RESTROOM BLDG. REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



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CITY OF MIAMI, PROJECT NO. B-40543
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FLOOR PLANS AND REFLECTED CEILING PLAN

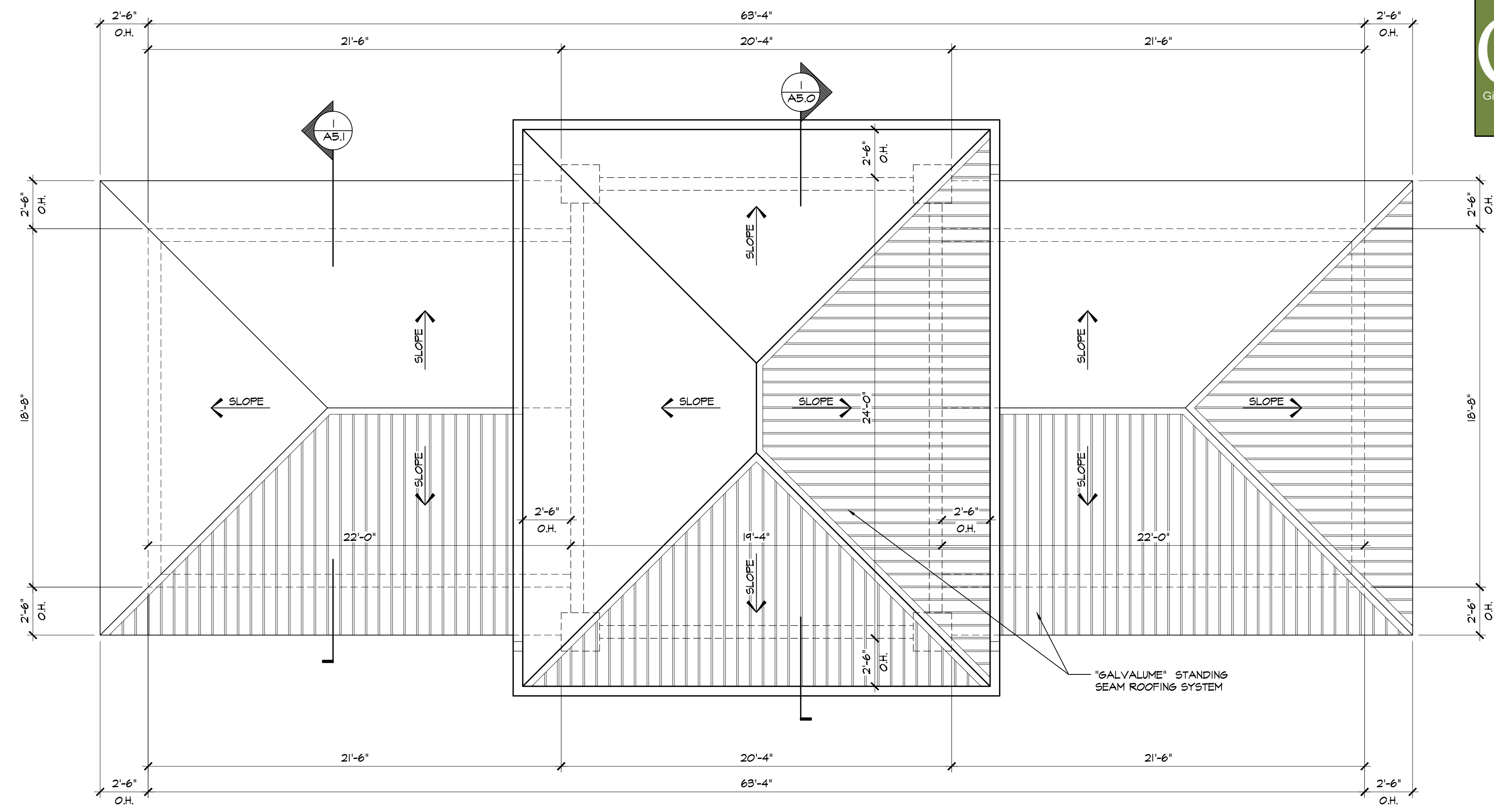
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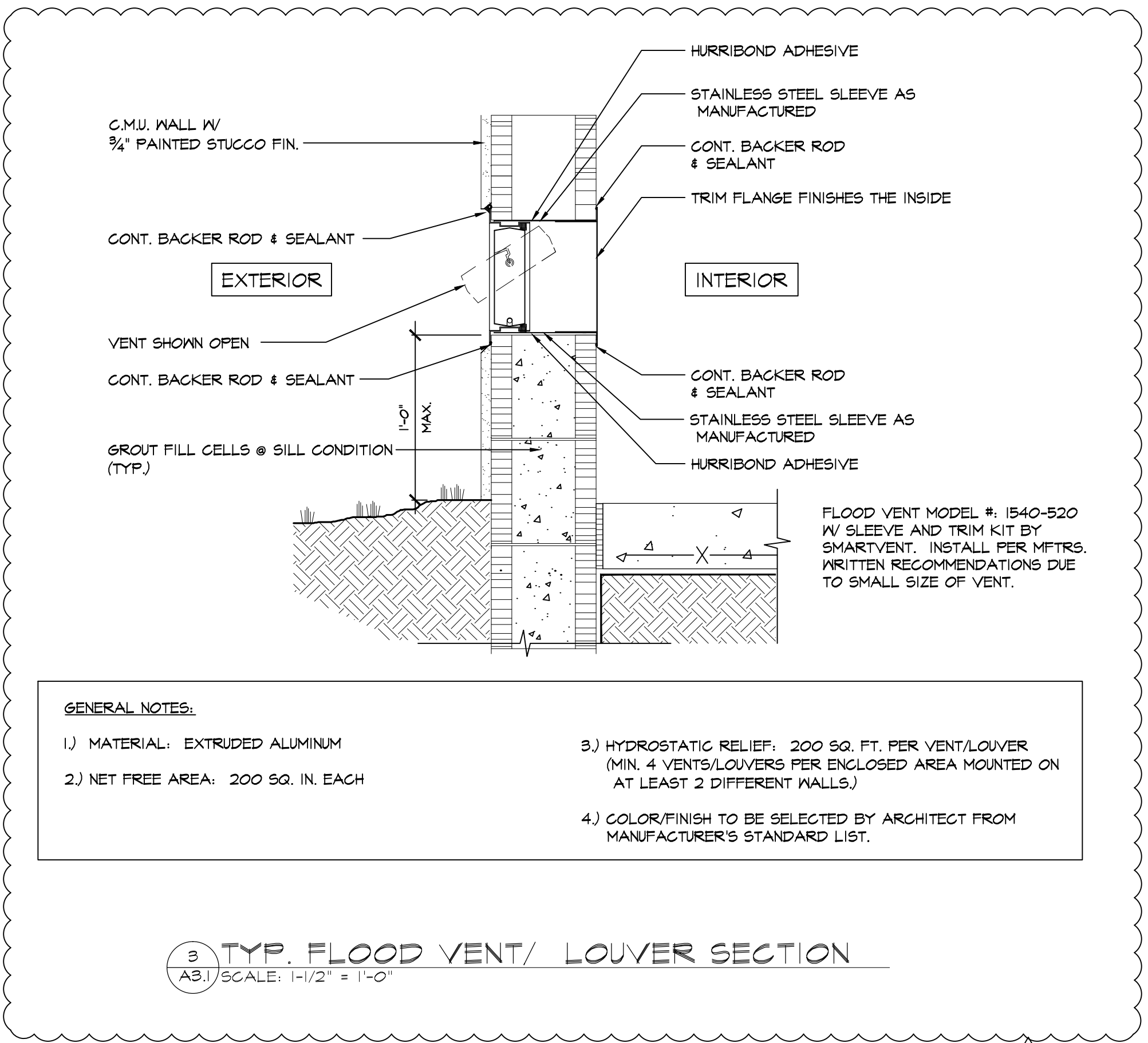
LICENSED PROFESSIONAL ARCHITECT
J. GARY MCGRAW
FL LICENSE NUMBER AR 008072
DATE: 03.07.2019

No.	REVISIONS - SUBMITTALS	DATE
1	04.26.19	

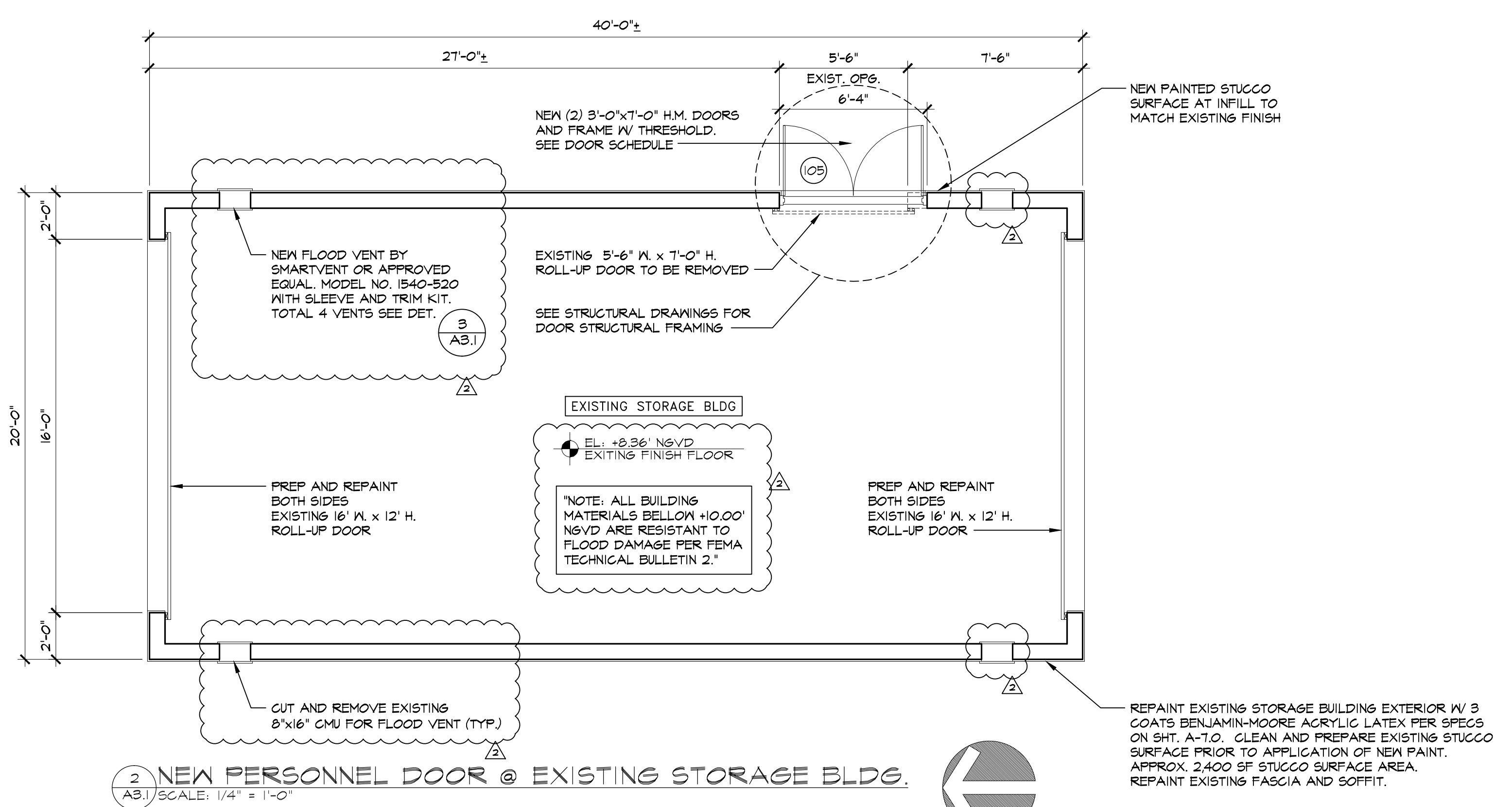
SHEET No. **A-3.0**



1 ROOF PLAN
A3.1 SCALE: 1/4" = 1'-0"



3 TYP. FLOOD VENT/ LOUVER SECTION
A3.1 SCALE: 1-1/2" = 1'-0"



2 NEW PERSONNEL DOOR @ EXISTING STORAGE BLDG.
A3.1 SCALE: 1/4" = 1'-0"

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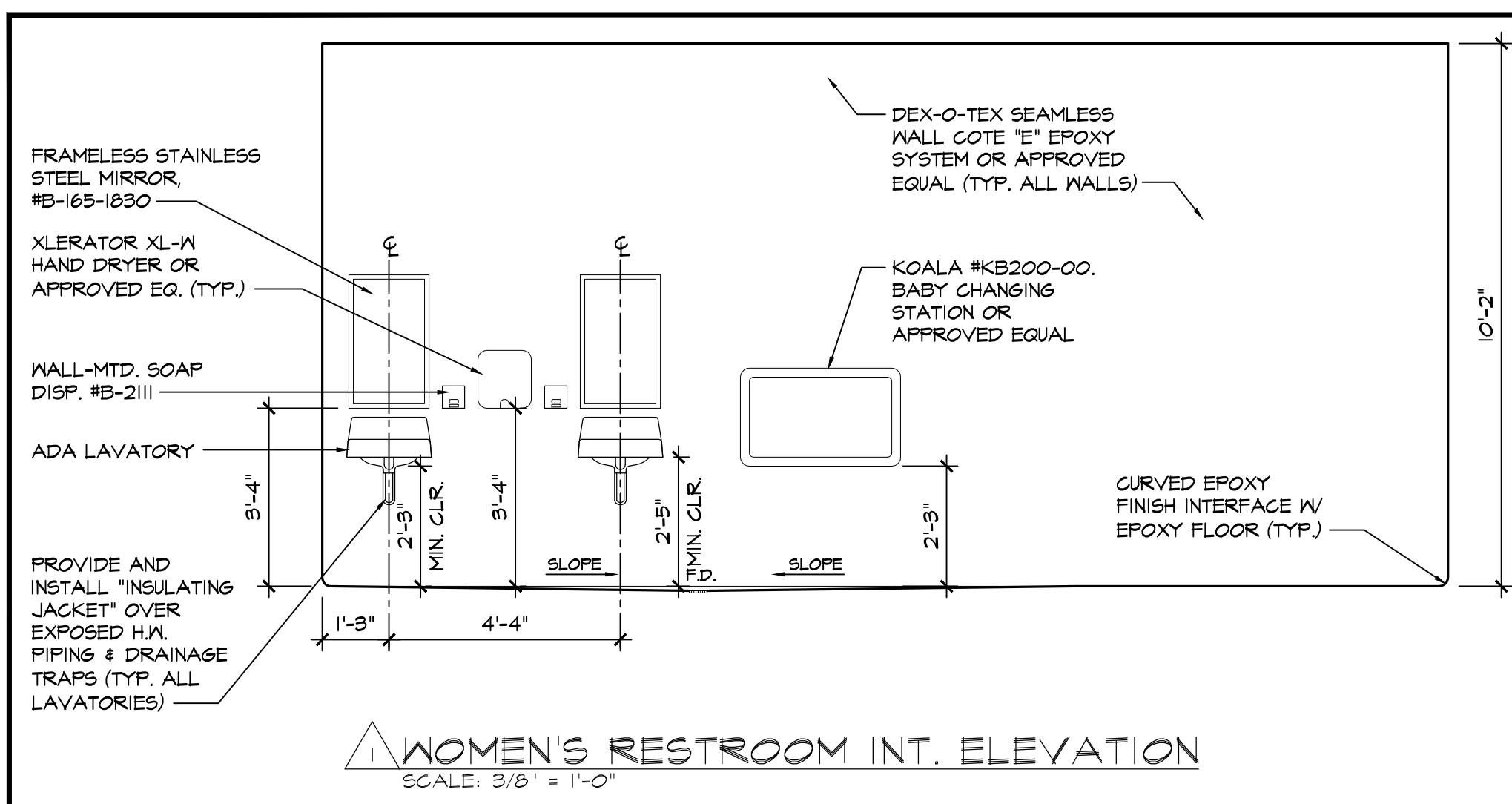
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ROOF PLAN
AND
EXISTING STORAGE BLDG. PLAN

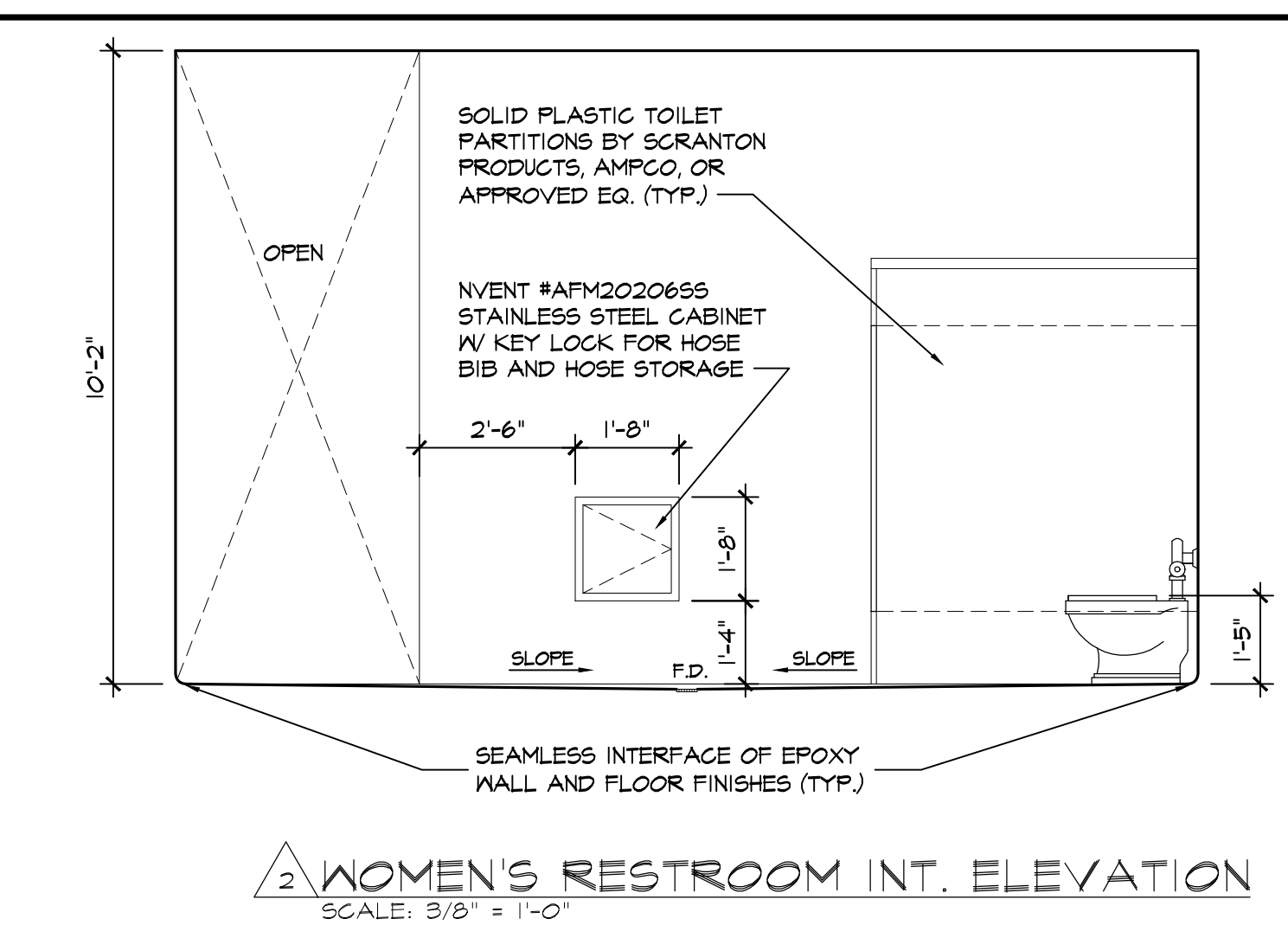
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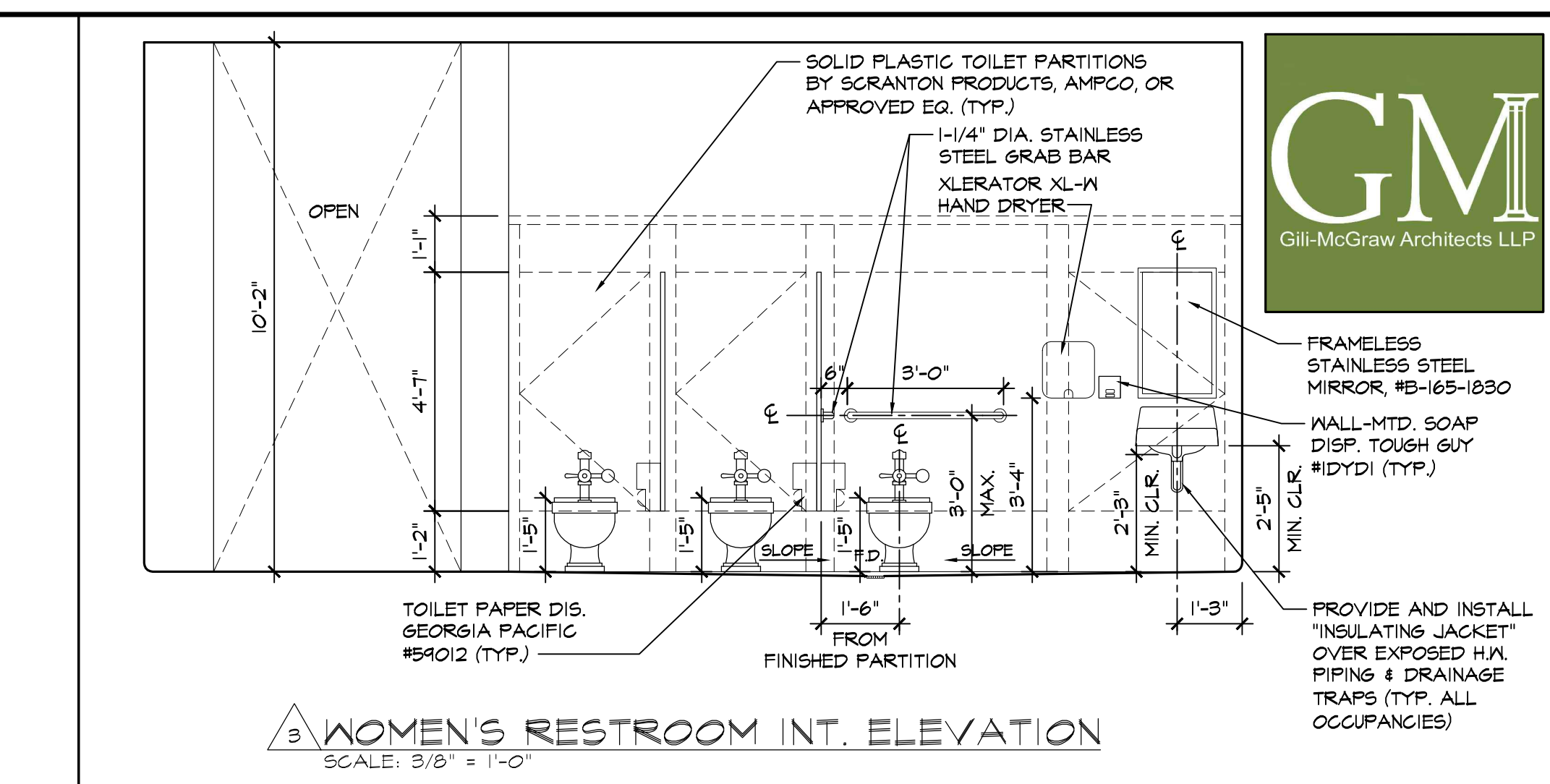
No.	REVISIONS - SUBMITTALS	DATE
1	04.26.19	



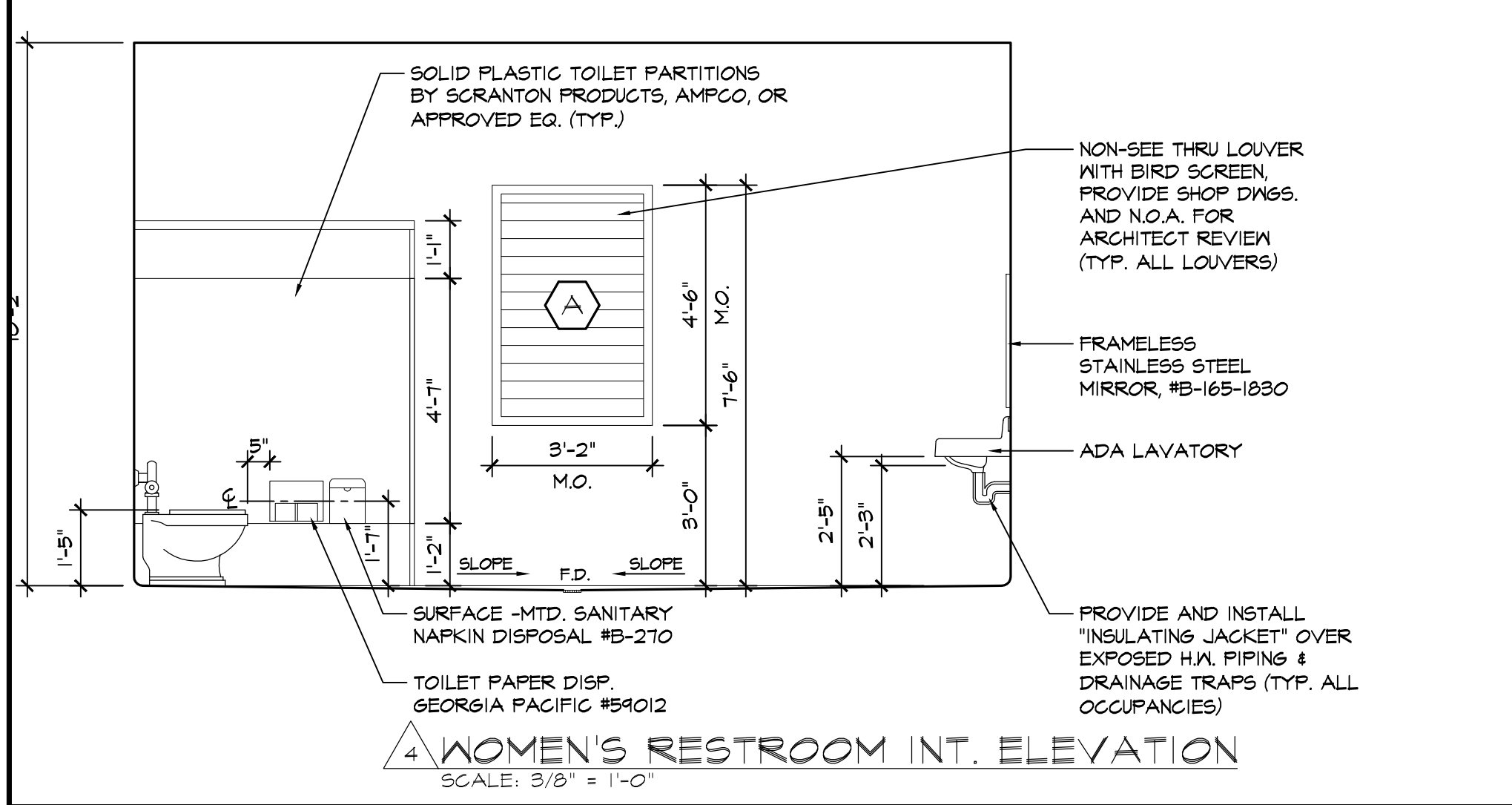
1 WOMEN'S RESTROOM INT. ELEVATION



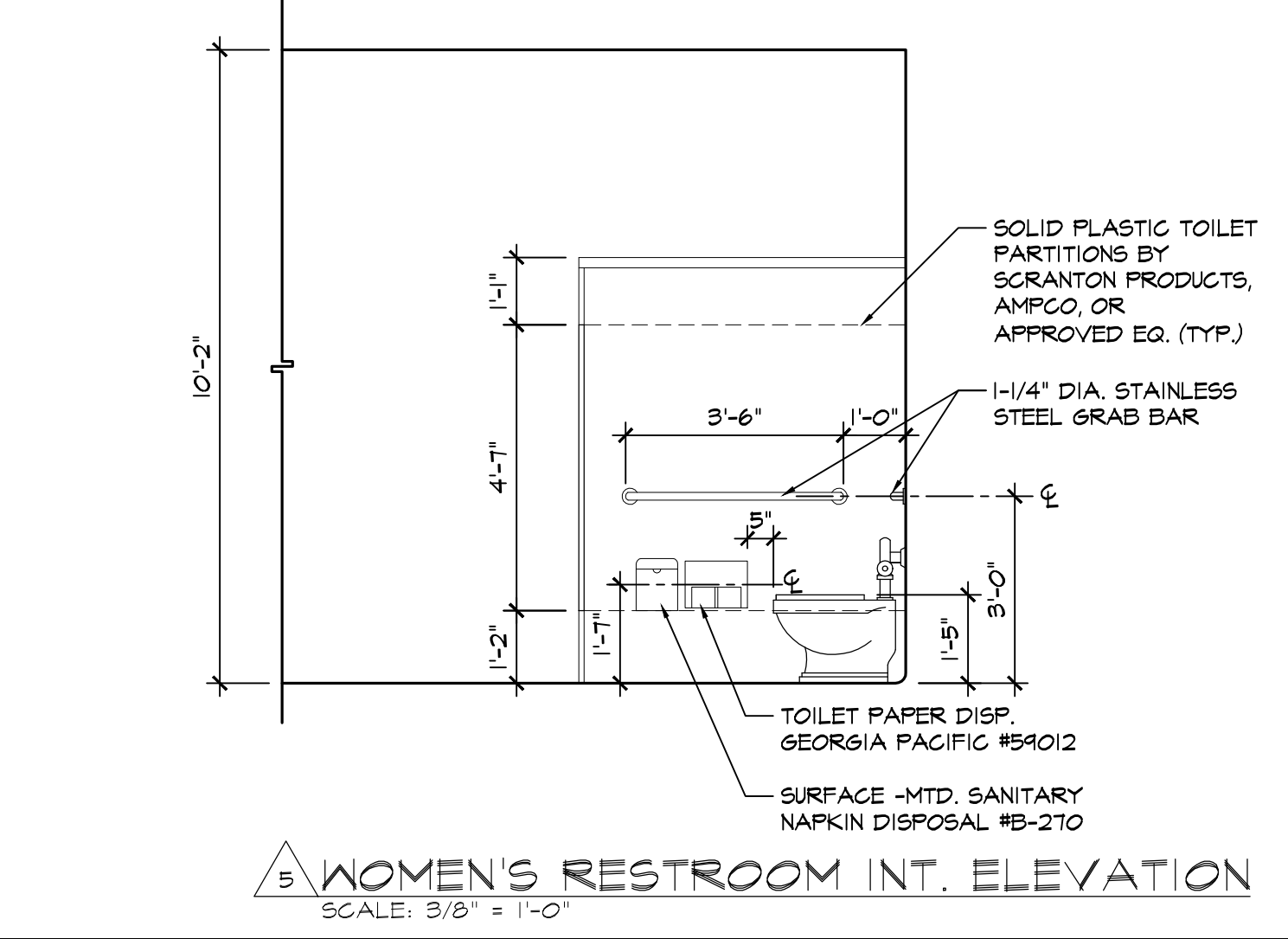
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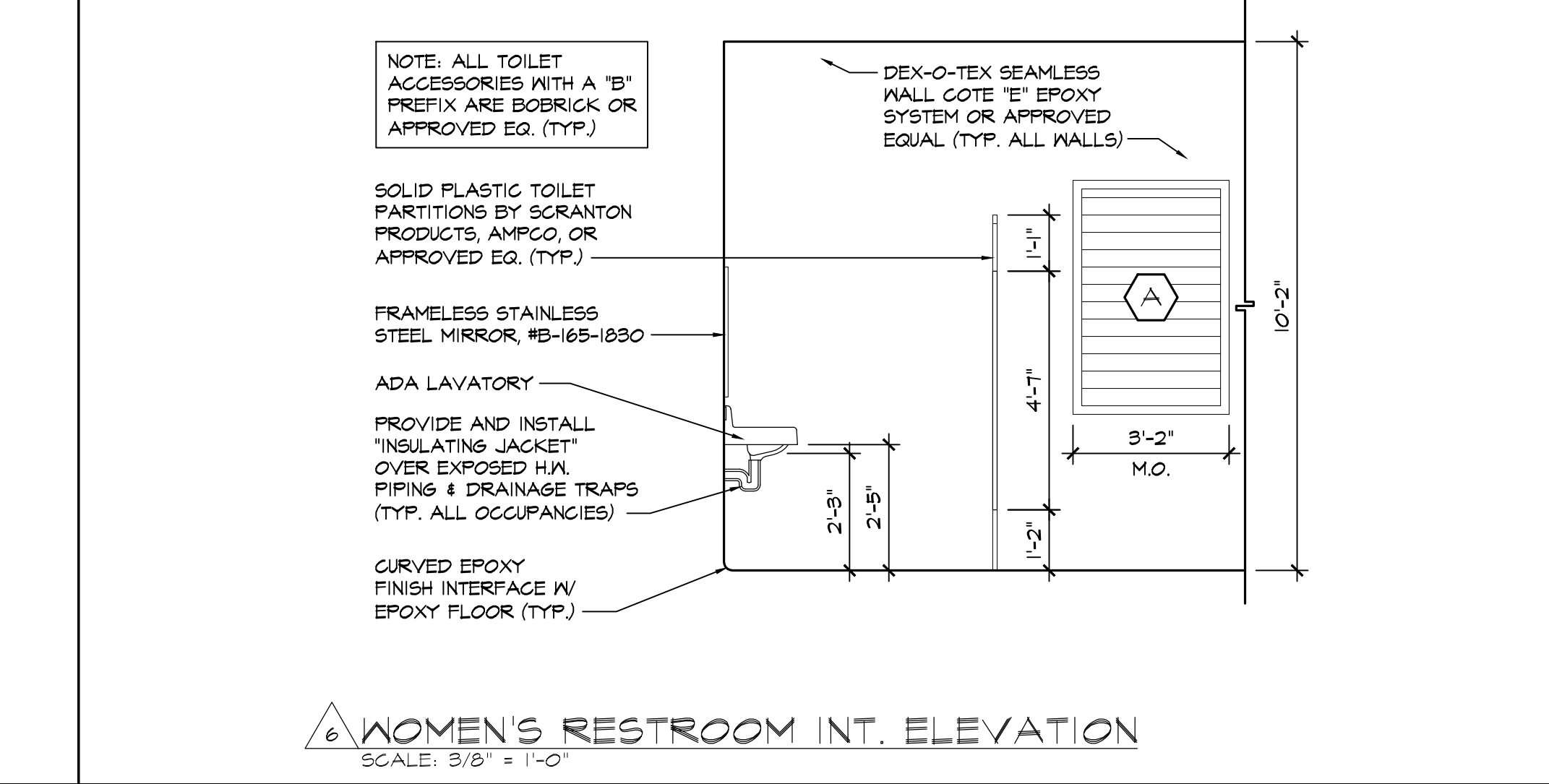
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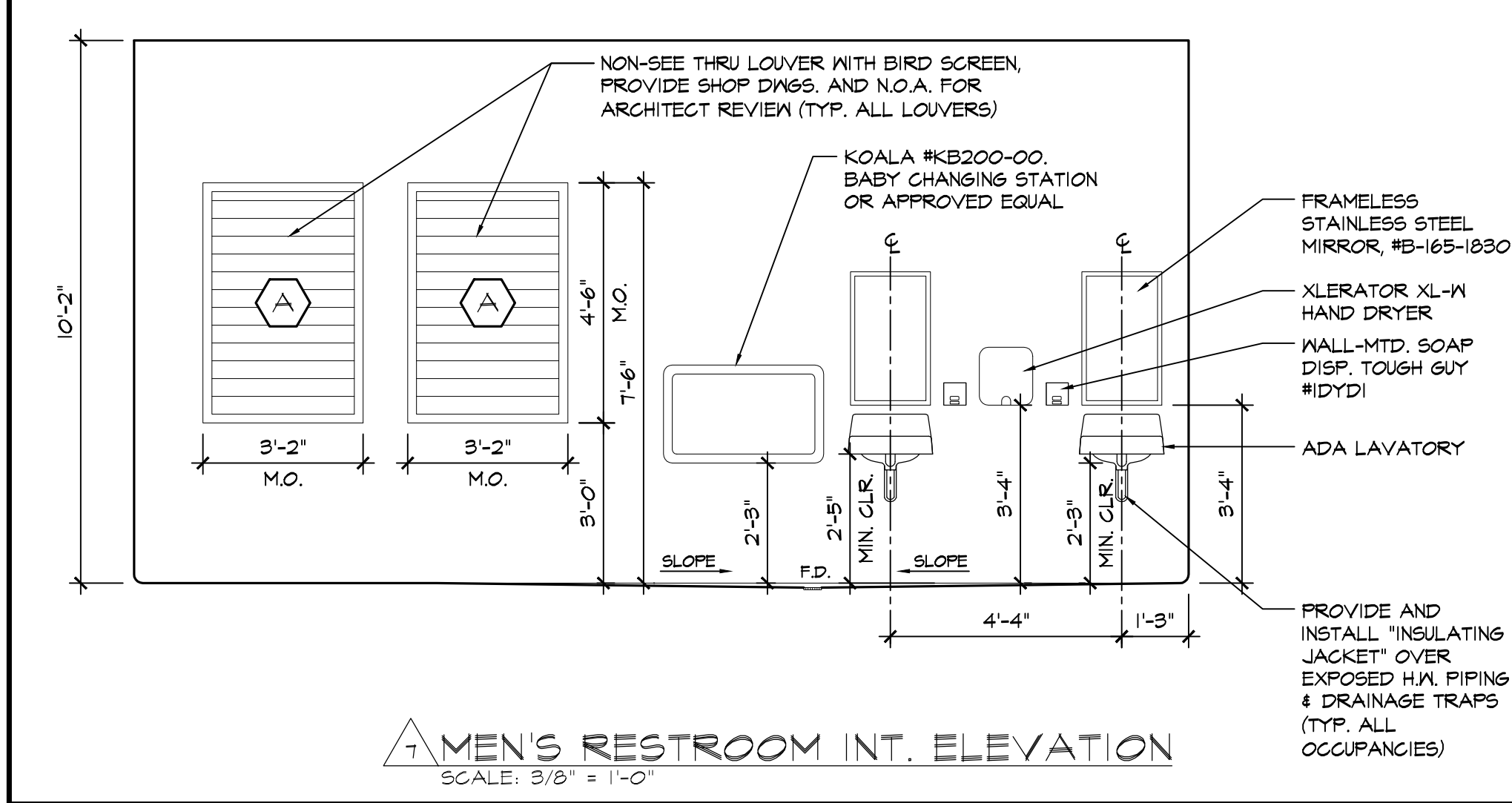
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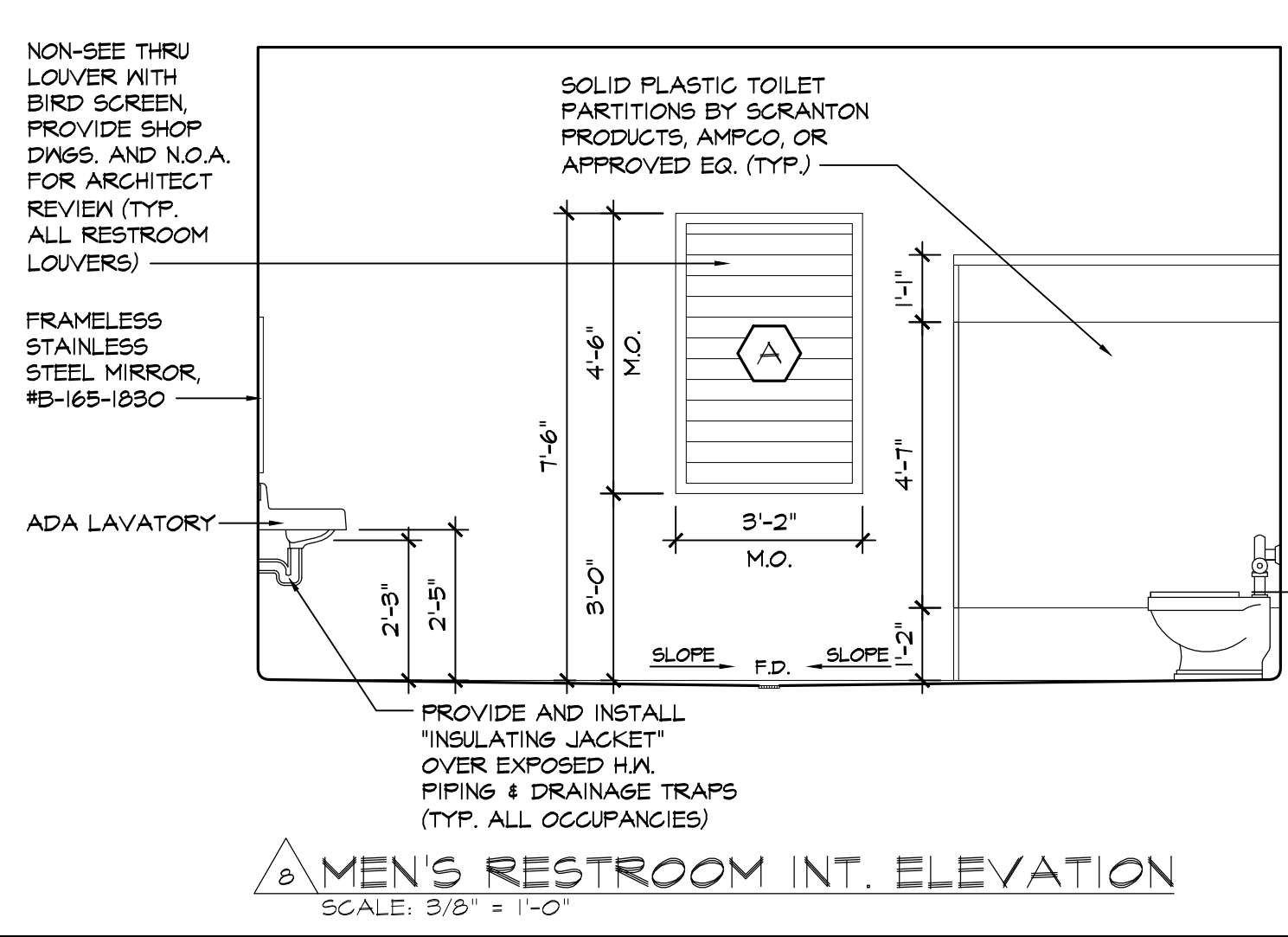
5 WOMEN'S RESTROOM INT. ELEVATION



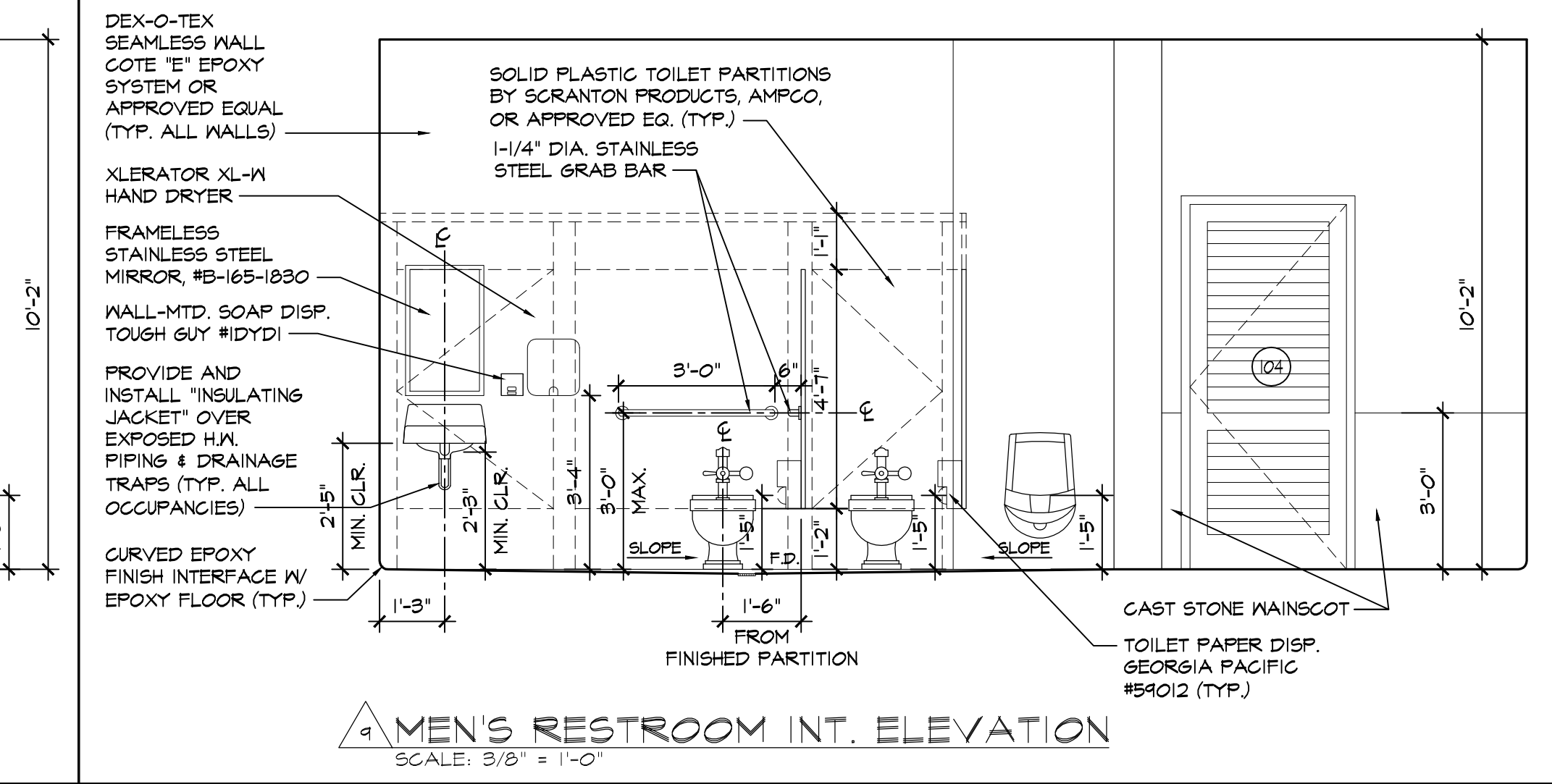
6 WOMEN'S RESTROOM INT. ELEVATION



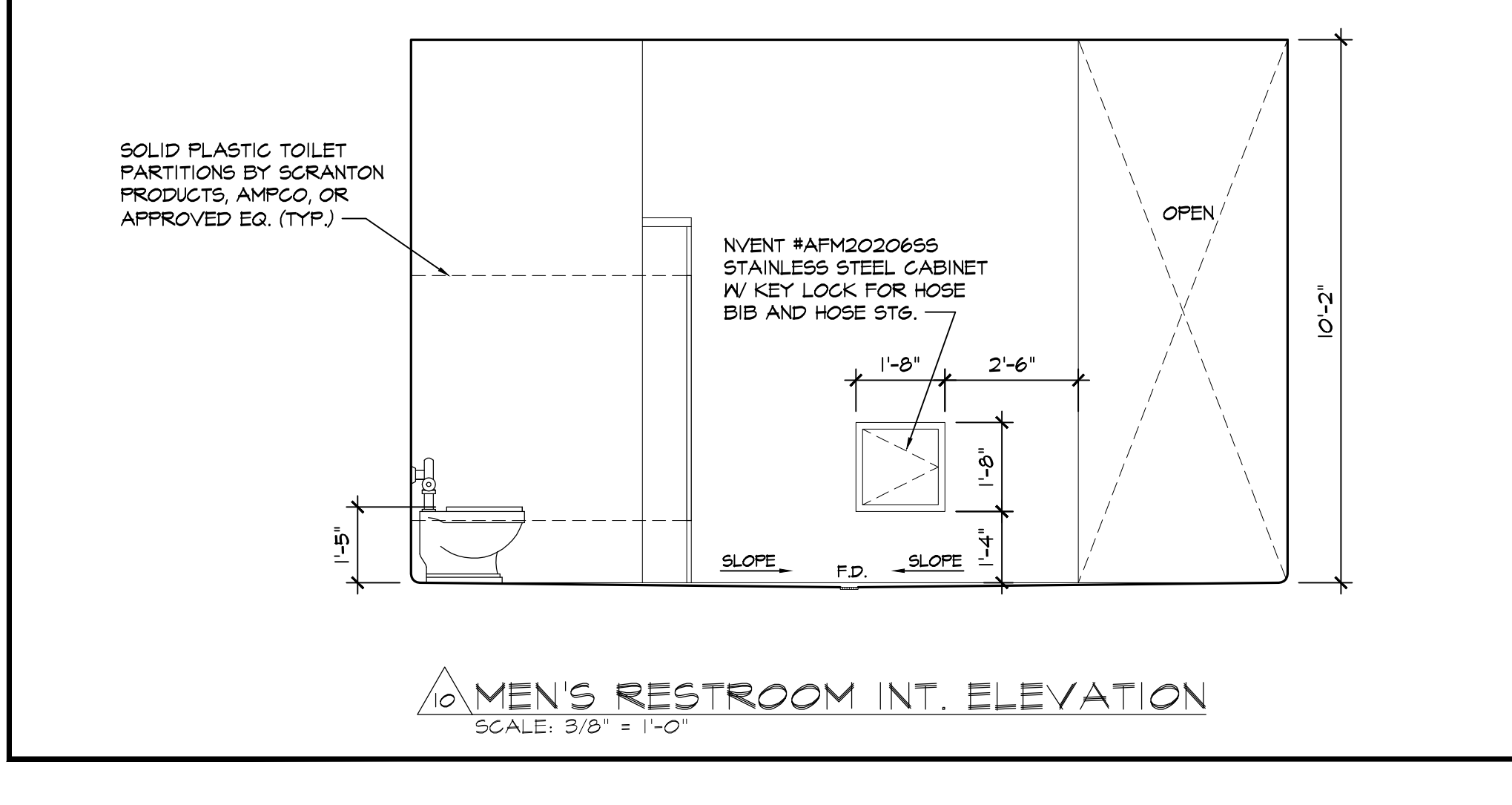
7 MEN'S RESTROOM INT. ELEVATION



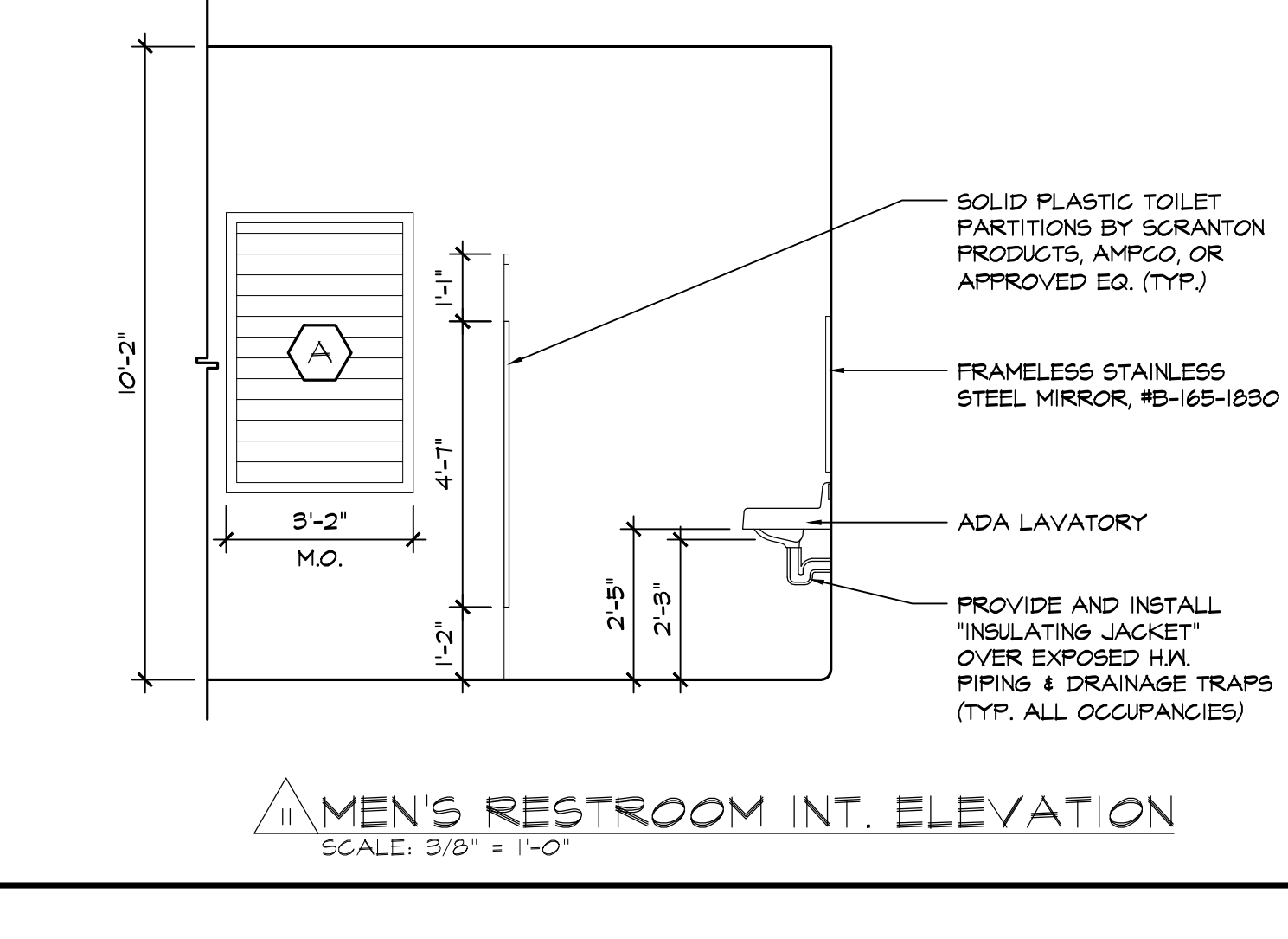
8 MEN'S RESTROOM INT. ELEVATION



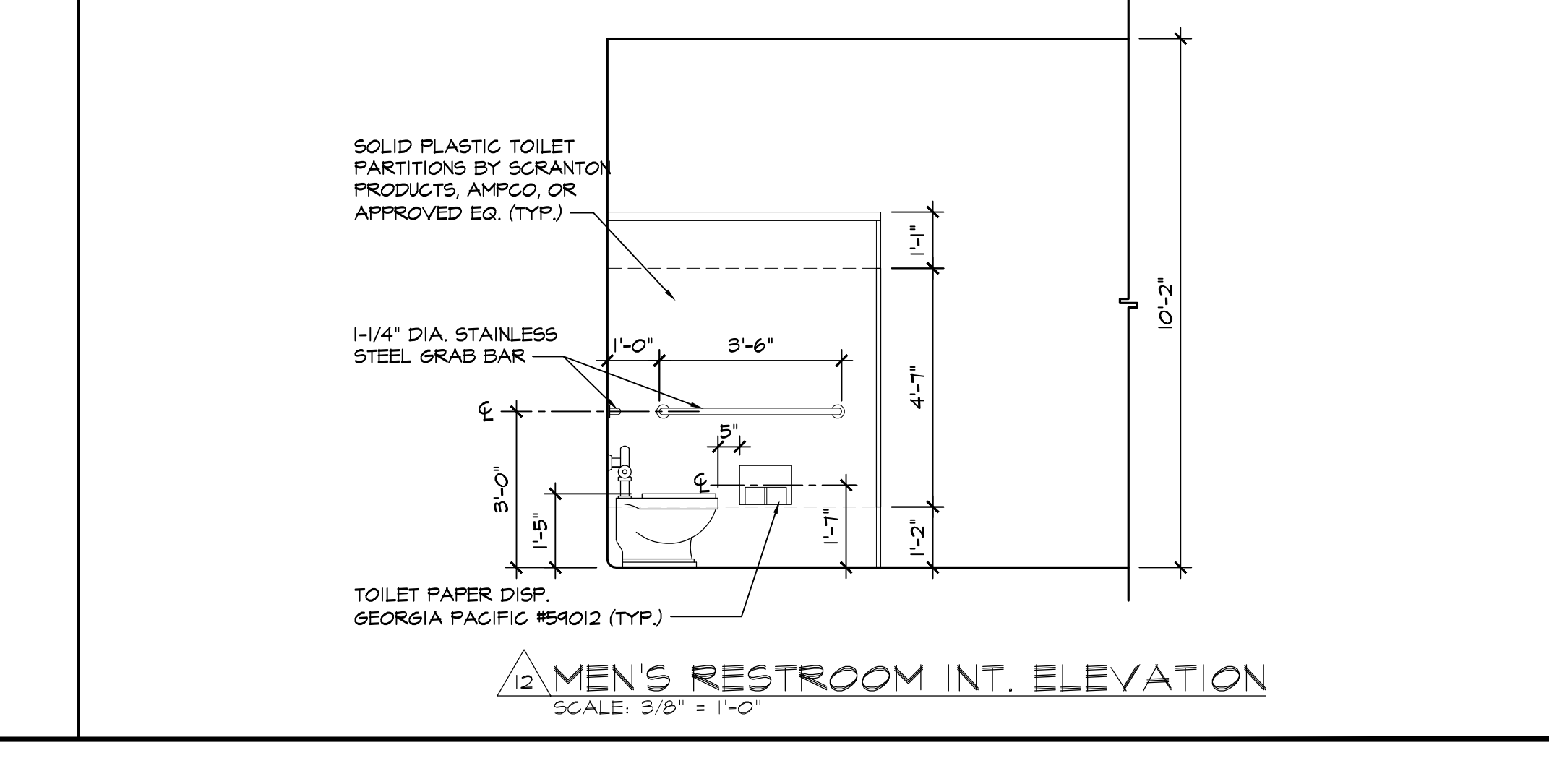
9 MEN'S RESTROOM INT. ELEVATION



10 MEN'S RESTROOM INT. ELEVATION



11 MEN'S RESTROOM INT. ELEVATION



12 MEN'S RESTROOM INT. ELEVATION



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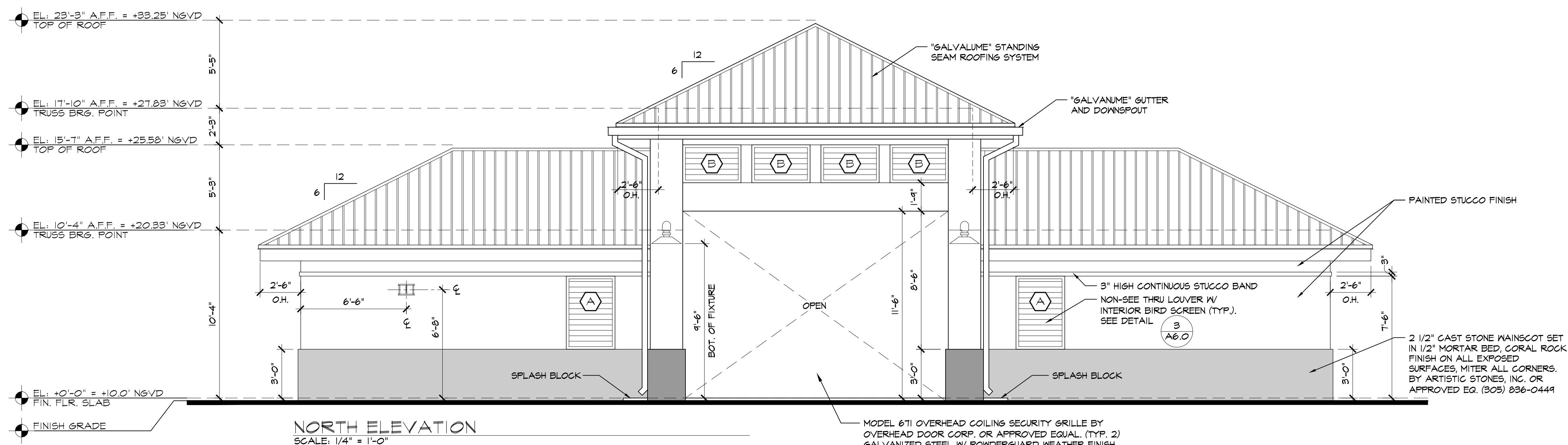
PBA FERNISLE PARK REDEVELOPMENT
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RESTROOM INTERIOR ELEVATIONS

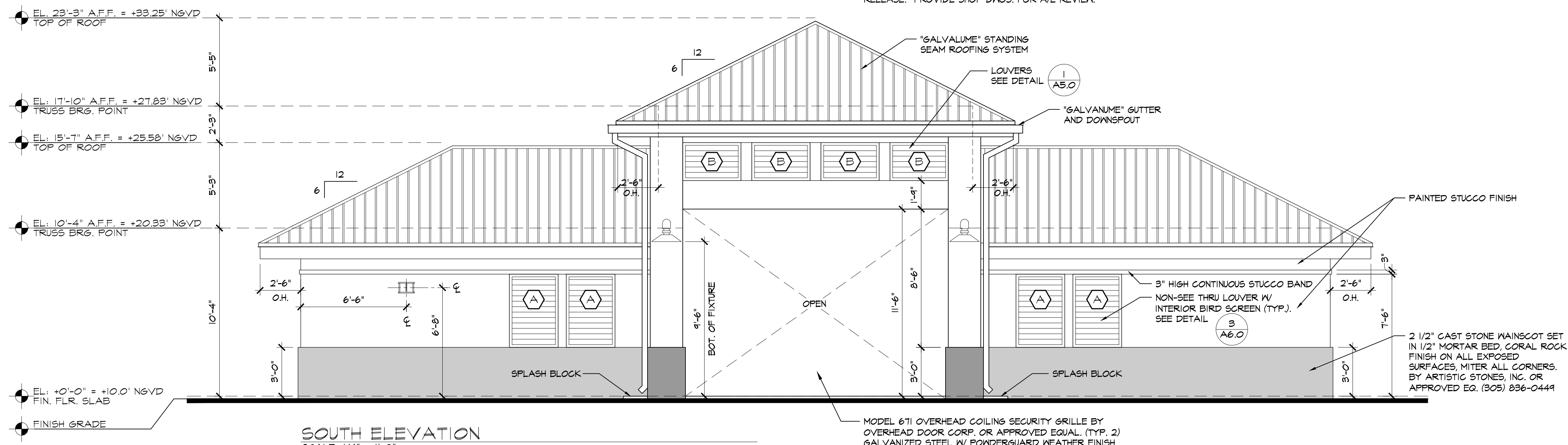
SHEET TITLE:



No.	REVISIONS - SUBMITTALS	DATE

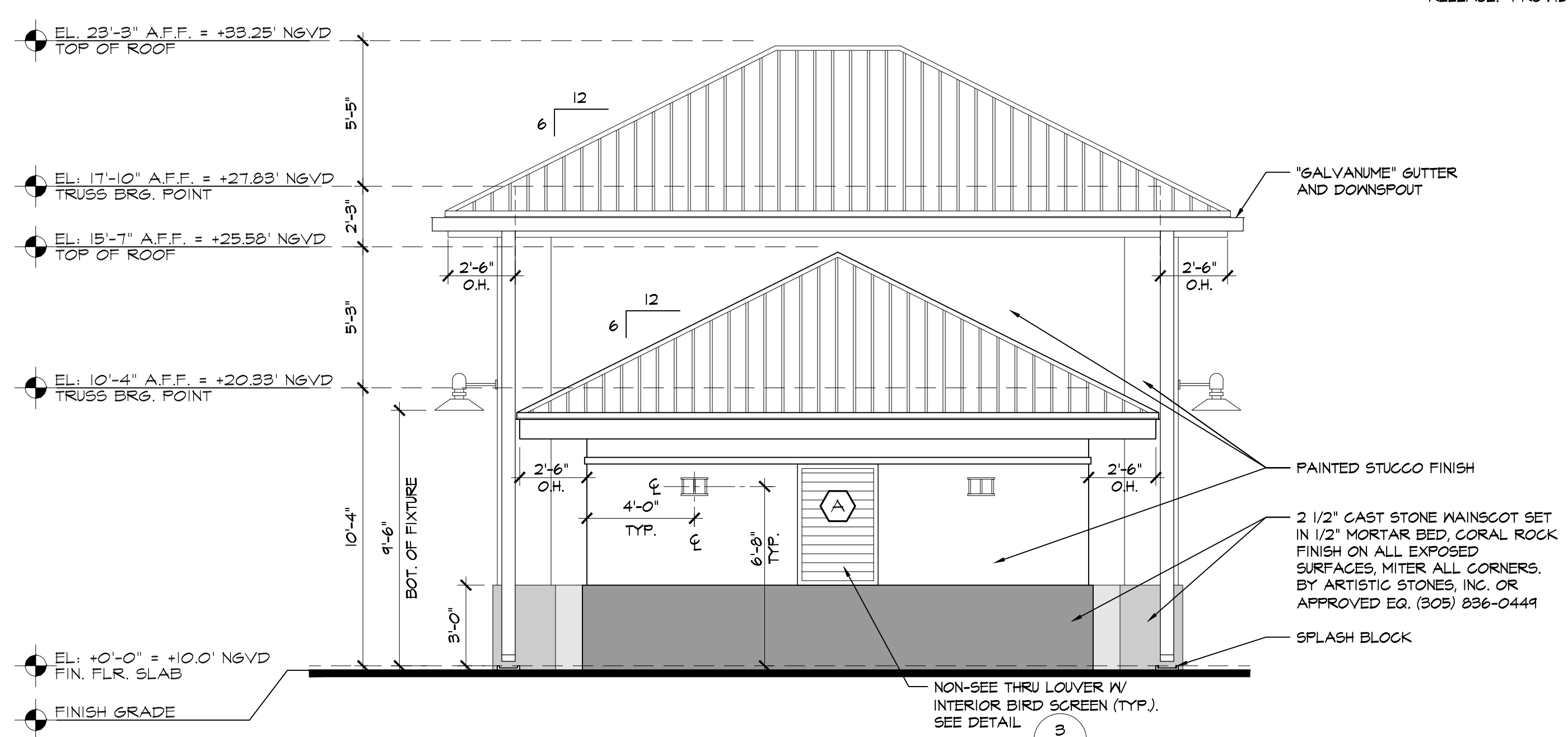


NORTH ELEVATION
SCALE: 1/4" = 1'-0"

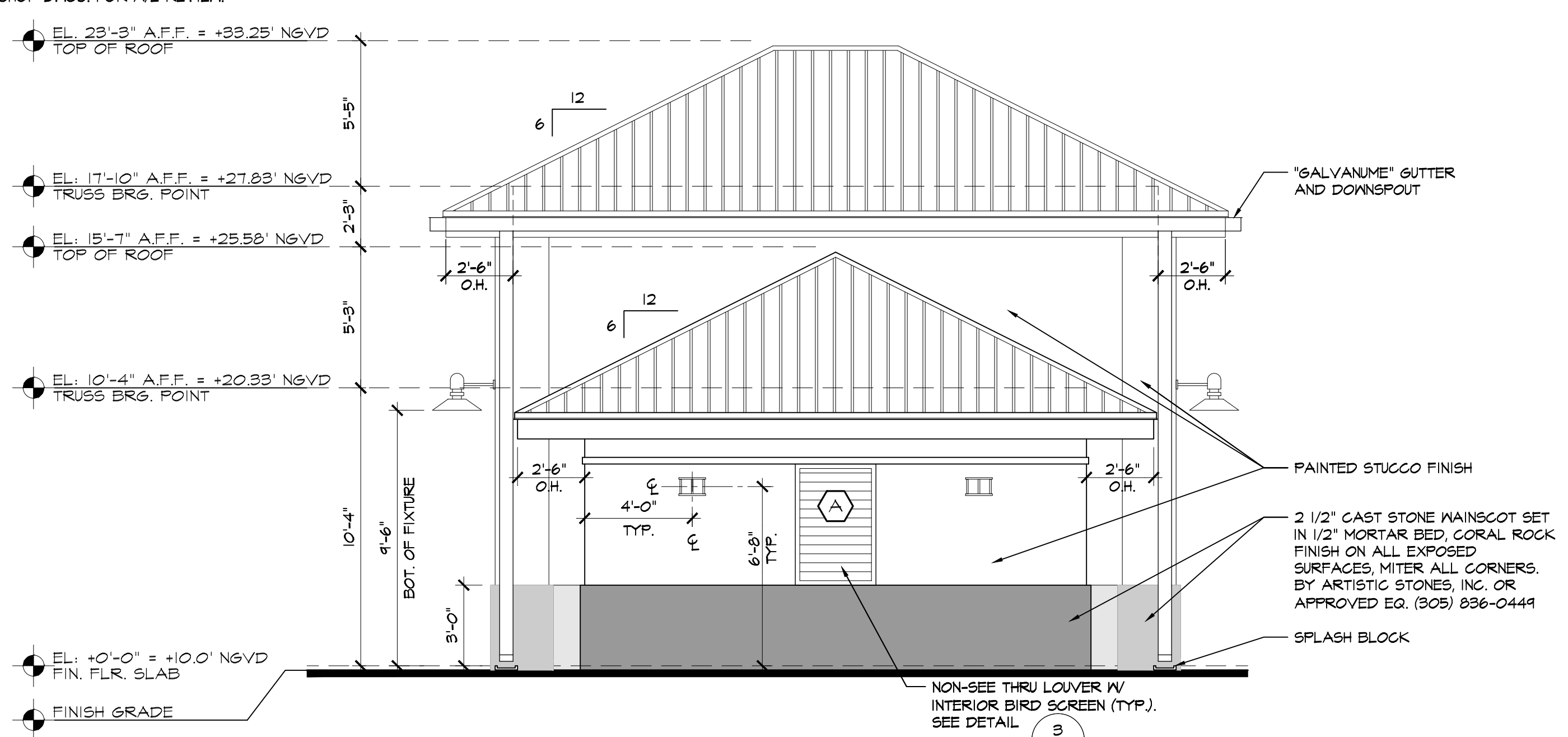


SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

- PAINT: BENJAMIN-MOORE OR PRE-APPROVED U.O.N.
1. ALL STUCCO SURFACES TO RECEIVE ONE COAT ACRYLIC PRIMER-SEALER, PIGMENTED TWO COATS ACRYLIC LATEX SEMI-GLOSS.
 2. INTERIOR OF RESTROOMS AND CUSTODIAL CLOSET TO RECEIVE DEX-OTEX SEAMLESS WALLCOTE "E" EPOXY SYSTEM OVER 5/8" CEMENTITIOUS BACKER BOARD.
 3. HOLLOW METAL DOORS AND GALVANIZED METAL LOUVERS ONE COAT GALVANIZED METAL PRIMER, TWO COATS ACRYLIC LATEX ENAMEL.
 4. ALL COLORS TO BE AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS, G.C. TO PROVIDE COLOR CHART FOR SELECTION.



WEST SIDE ELEVATION
SCALE: 1/4" = 1'-0"



EAST SIDE ELEVATION
SCALE: 1/4" = 1'-0"

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EXTERIOR ELEVATIONS

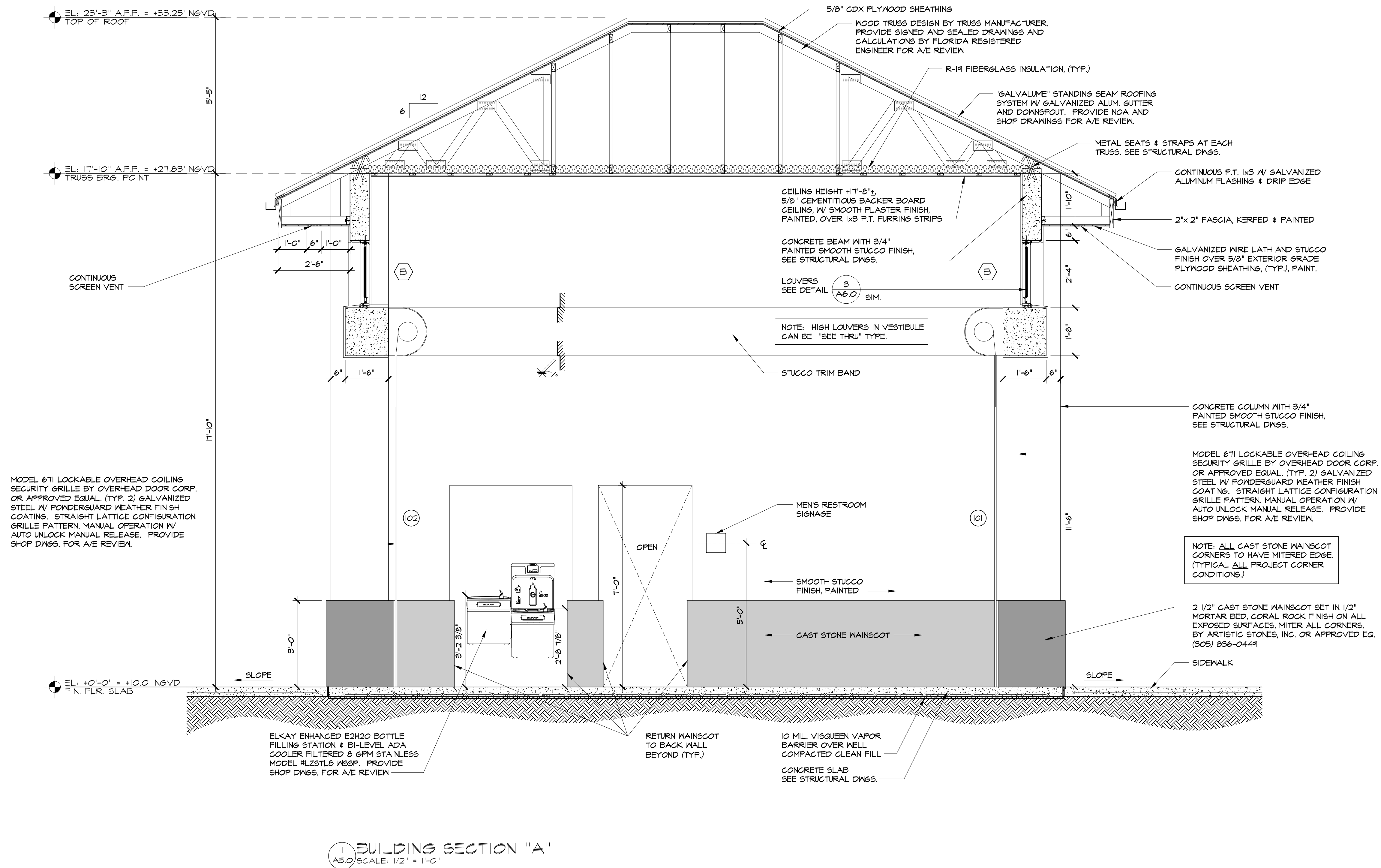
SHEET TITLE:



LICENSED PROFESSIONAL
J. GARY MCGRAW
ARCHITECT
FL LICENSE NUMBER
AR 008072
DATE: 03.07.2019

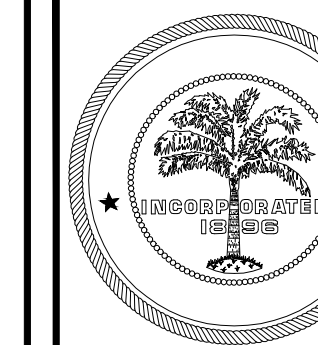
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SHEET No.
A-4.0



1 BUILDING SECTION "A"
ASO SCALE: 1/2" = 1'-0"

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2304 N.W. 14TH STREET, MIAMI, FL 33125

BUILDING SECTION "A"

SHEET TITLE:



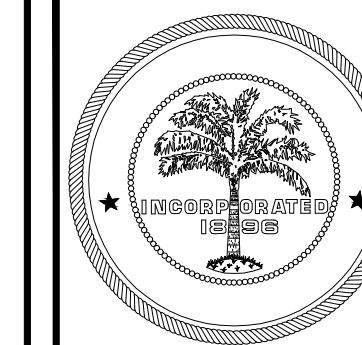
LICENSED PROFESSIONAL ARCHITECT
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AR 008072
DATE: 03.07.2019

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SHEET No.
A-5.0



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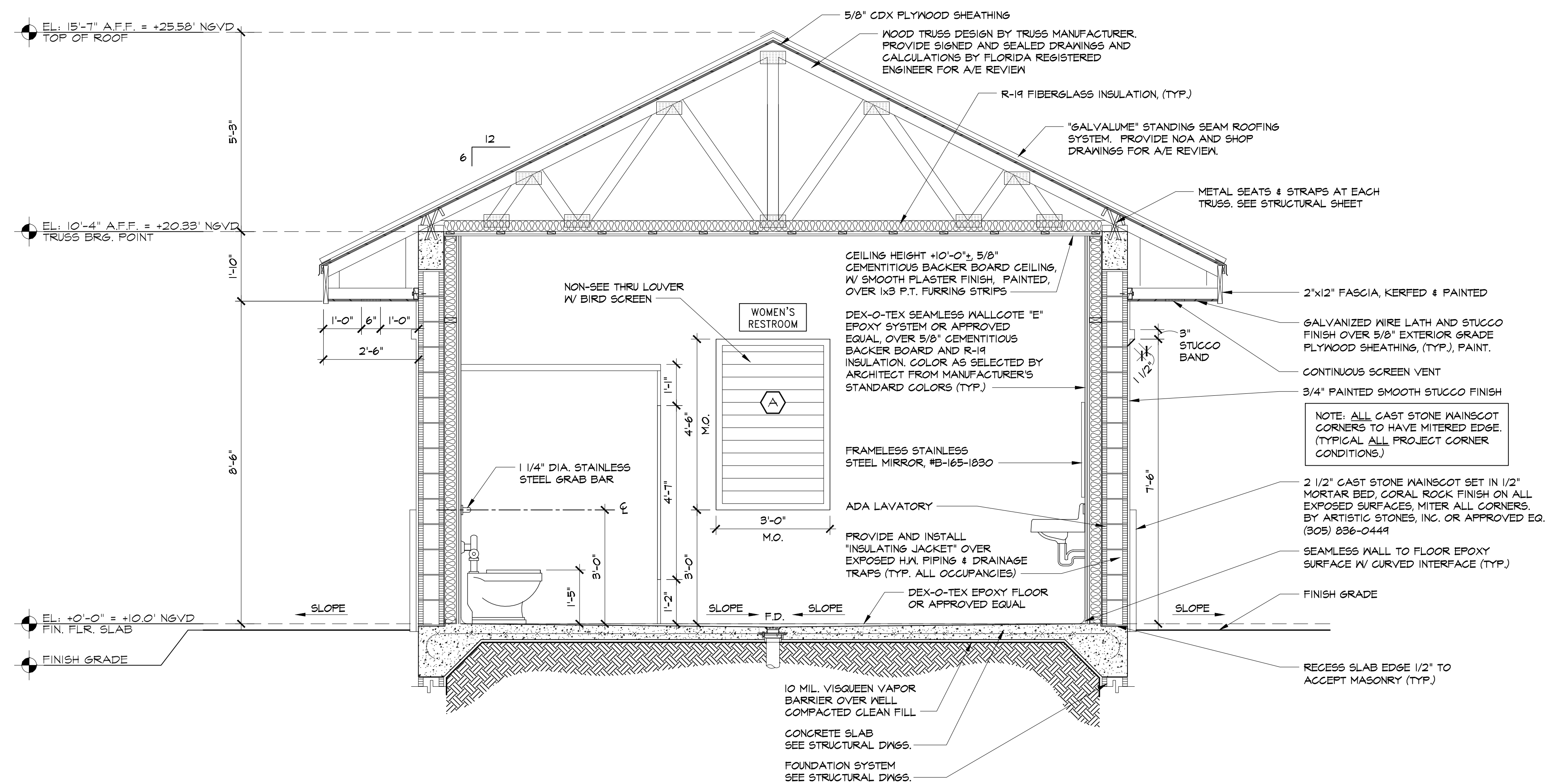
CITY OF MIAMI

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BUILDING SECTION "B"

SHEET TITLE:



BUILDING SECTION "B"
A5.1 SCALE: 1/2" = 1'-0"



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J. GARY MCGRAW
ARCHITECT
FL LICENSE NUMBER
AR 008072
DATE: 03.07.2019

No.	REVISIONS - SUBMITTALS	DATE

SHEET No.
A-5.1

GENERAL DOOR NOTES:

- ALL FIRE-RATED DOORS SHALL RECEIVE FIRE-RATED & LABELED DOOR FRAME ASSEMBLIES AND FIRE-RATED HARDWARE. GLAZING IN ALL FIRE-RATED DOORS SHALL BE FIRE RATED.
- ALL EXTERIOR DOORS AND DOOR FRAMES SHALL BE PROVIDED WITH A PERMANENT MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED LABEL. DOOR HARDWARE SHALL MATCH APPROVED DOOR N.O.A.
- APPLICABLE DOORS SHALL BE UNDERCUT 3/8".
- ALL H.M. DOORS AND FRAMES TO BE HOT-DIPPED GALVANIZED AND FINISH W/ SHOP COAT OF RUST-INHIBITIVE PRIMER.
- OPENING DEVICES ON ALL DOORS SHALL BE MOUNTED @ 36" A.F.F. UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL VERIFY ALL MASONRY AND ROUGH OPENINGS W/ CURRENT MIAMI-DADE COUNTY N.O.A. #3 PRIOR TO FABRICATION.

DOOR HARDWARE NOTE:

(HANDICAPPED) HANDLES, PULLS, LATCHES, LOCK SETS, AND OTHER OPERATING MECHANISMS ON ENTRANCE DOORS, RESTROOM AND TOILET ROOM DOORS, AND OTHER DOORS WHICH ARE PART OF AN ACCESSIBLE ROUTE SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND WHICH DOES NOT REQUIRE A TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. LEVER OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCESSIBLE DESIGNS. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" A.F.F. SEE GENERAL DOOR NOTES FOR TYPICAL MOUNTING HEIGHTS.

DOOR HARDWARE:

HEADING #1
 OPENING DESCRIPTION:
 3'-0" x 7'-0" x 1 3/4" x HMD TYPE LOUVER x HMF

- (1) SINGLE DOOR # 103
- (1) SINGLE DOOR # 104

6	HINGE	BB1168 4-1/2 x 4-1/2 SP NRP	USP	HA
2	PASSAGE LATCH	A105 RHO 10-025	626	SC
1	DEADLOCK	B661P 10-055 (BLACK TO INT. SIDE)	626	AL
1	CLOSER	4111 EDA AVE TBMS (LH)	AL	LC
1	CLOSER	4111 EDA AVB TBMS (RH)	AL	LC
2	SOUND SEAL	319 CN 1 x 36" 2 x 84"	AL	PE
2	WEATHERSTRIP	303 AV 1 x 36" 2 x 84"	AL	PE
2	THRESHOLD	2005 AV 36" FHS125	AL	PE

HEADING #2 SERVICE DOOR EXTERIOR

OPENING DESCRIPTION:
 (2) 3'-0" x 7'-0" x 1 3/4" x HMD TYPE x HMF
 (1) PAIR OF DOORS, #105 EXTERIOR

6 ea	ball bearing hinge	BB1199NRP	US32D	HA	4-1/2 x 4-1/2
1 ea	panic exit device	HC2103	630	PHI	
1 ea	pull handle	H4G	US28	HA	
1 ea	rim cylinder	20022	626	SC	
1 ea	mullion 7/0	HC822	689	PHI	
2 ea	door closer at LHR-RHR door only	4111	689	LCN	
2 ea	surface bolt 8"	580-8	US26D	RO	
2 ea	kickplate	2145	Black	HA	
1 ea	panic threshold 72"	520SV	Mil	HA	
1 ea	weather strip 20"	891SV	Mil	HA	
1 ea	flat astragal per door manufacturer			HA	
2	floor stop	259H		HA	

NOTE: Current Miami-Dade County Hurricane Approval N.O.A. required.

SIGNAGE SCHEDULE

QUANTITY	SIGNAGE COPY	COPY COLOR/BACKGROUND COLOR	REMARKS
1	WOMEN'S RESTROOM	BLACK/ WHITE	WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY
1	MEN'S RESTROOM	BLACK/ WHITE	WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY
1	ELECTRICAL ROOM 405	RED/ WHITE	
1	CUSTODIAL 410	BLACK/ WHITE	

NOTE: ALL SIGNS TO BE MTD. CENTERED, 5'-0" A.F.F. (TYP.)

LEGEND

MATERIAL: MP PLASTIC- 1/8" THICK, MATTE FINISH
 EDGE: BEVEL
 CORNERS: SQUARE
 BORDER: NO RAISED BORDER
 LETTER STYLE: HELVETICA MEDIUM, 1" HIGH, RAISED 1/32"
 BRAILLE: GRADE 2
 MOUNTING: VINYL TAPE (UNATTACHED) HOLES AND ONE WAY SCREWS PLASTIC SHIELDS.

NOTE: USE SCREWS, NOT TAPE, @ ALL EXTERIOR SIGNS

- NOTES:**
- ALL ROOM NUMBERS ARE SUBJECT TO CHANGE PENDING REVIEW AND APPROVAL BY THE CLIENT.
 - BRAILLE AND ROOM NUMBERS SHALL BE PROVIDED ON ALL ROOM IDENTIFICATION SIGNS.
 - MOUNT ALL SIGNS @ 5'-0" A.F.F. TO THE CENTERLINE OF THE SIGN ON THE LATCH SIDE OF THE DOOR.

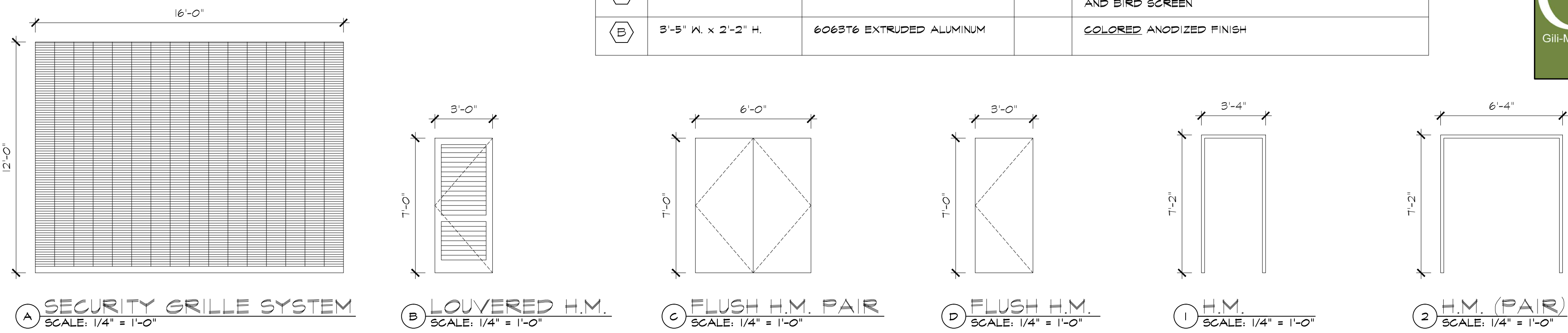
NOTE: WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING @ DOUBLE-LEAD DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL.

DOOR SCHEDULE

MARK	ROOM NAME	DOOR TYPE	DOOR SIZE			DOOR MATL.	FIRE RATING	DETAILS		FRAME MATL.	FRAME TYPE	THRESHOLD		HWGR. GROUP	REMARKS
			WIDTH	HGT.	THKN.			HEAD	JAMB			DETAIL	MATL.		
10	VESTIBULE	A	16'-0"	12'-0"	-	ALUMINUM			2/A6.0						MODEL 671 OVERHEAD COILING SECURITY GRILLE BY OVERHEAD DOOR CORP. OR APPROVED EQUAL. (TYP. 2) GALVANIZED STEEL W/ PONDERSGUARD WEATHER FINISH COATING. STRAIGHT LATTICE CONFIGURATION GRILLE PATTERN. MANUAL OPERATION W/ AUTO UNLOCK MANUAL RELEASE. PROVIDE SHOP DWGS. FOR A/E REVIEW
02	VESTIBULE	A	16'-0"	12'-0"	-	ALUMINUM			2/A6.0						
03	ELECTRICAL	B	3'-0"	7'-0"	1-3/4"	H.M.		1/A6.0	1/A6.0	H.M.	1	-	AL.	1	PAINTED (LOUVERED)
04	CUSTODIAL	B	3'-0"	7'-0"	1-3/4"	H.M.		1/A6.0	1/A6.0	H.M.	1	-	AL.	1	PAINTED (LOUVERED)
05	STORAGE BUILDING	C	(2) 3'-0"	7'-0"	1-3/4"	H.M.		1/A6.0	1/A6.0	H.M.	2	-	AL.	2	PAINTED (PAIR)

LOUVER SCHEDULE

MARK	SIZE	MATERIAL	DETAIL	REMARKS
A	3'-0" W. x 4'-4" H.	6063T EXTRUDED ALUMINUM		NON-SEE THRU LOUVER W/ COLORED ANODIZED FINISH AND BIRD SCREEN
B	3'-5" W. x 2'-2" H.	6063T6 EXTRUDED ALUMINUM		COLORED ANODIZED FINISH

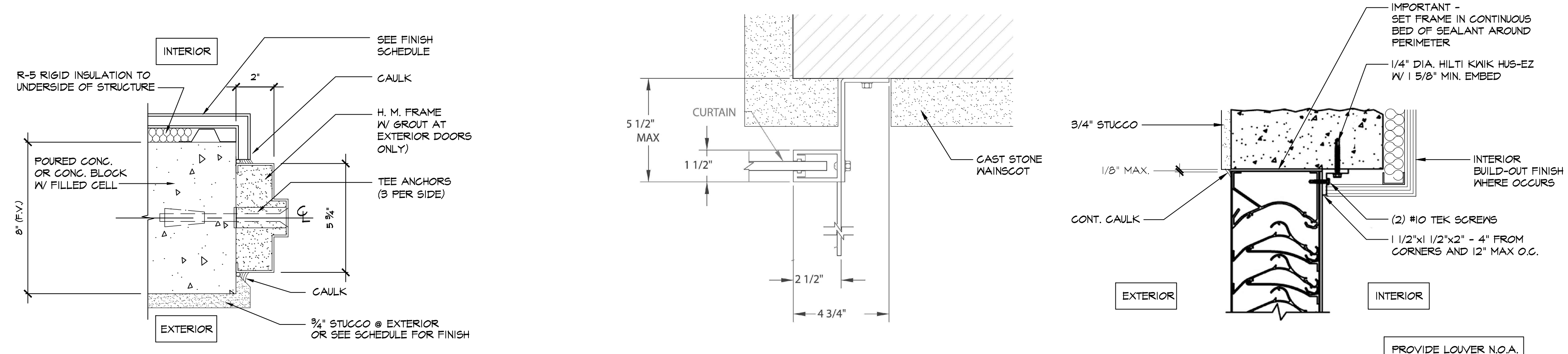


FINISH SCHEDULE

ROOM NAME	FLOOR MATERIAL	BASE MATERIAL	WALLS				CEILING MATERIAL	CEILING HEIGHT A.F.F.	GENERAL WALL & PARTITION NOTES:
			NORTH	SOUTH	EAST	WEST			
VESTIBULE	CONC.	CAST.					CBB	17'-8"	1) SEAL ALL VOIDS AROUND DUCTS AND / OR PIPE PENETRATIONS AS REQUIRED. (TYPICAL). 2) B.C. TO COORDINATE LOCATION OF ANY CEILING ACCESS PANELS W/ M.E.P. DRAWINGS.
WOMEN'S RESTROOM	EPOXY	EPOXY	EPOXY	EPOXY	EPOXY	EPOXY	CBB	10'-0"	
ELECTRICAL	CONC.	-	PB	PB	PB	PB	CBB	10'-0"	
JANITOR	EPOXY	EPOXY	EPOXY	EPOXY	EPOXY	EPOXY	CBB	10'-0"	
MEN'S RESTROOM	EPOXY	EPOXY	EPOXY	EPOXY	EPOXY	EPOXY	CBB	10'-0"	

FINISH SCHEDULE LEGEND

FLOORS:	BASES:	CEILINGS:	WALLS:
CONC. SEALED CONC. W/ BROOM FINISH	EPOXY DEX-O-TEX SEAMLESS WALLCOTE	CBB 5/8" CEMENTITIOUS BACKER BOARD CEILING WITH PLASTER FINISH, PAINTED, OVER 1x3 FURRING STRIPS	SC PAINT ON 3/4" STUCCO ON CONCRETE
EPOXY EPOXY DEX-O-TEX FLOOR FINISH	CAST CAST STONE	EPOXY DEX-O-TEX SEAMLESS WALLCOTE "E" OVER 5/8" CEMENTITIOUS BACKER BOARD. WALL TERMINATION AT FLOOR TO BE SEAMLESS WITH CURVED INTERFACE (TYP.)	EPOXY DEX-O-TEX SEAMLESS WALLCOTE "E" OVER 5/8" CEMENTITIOUS BACKER BOARD. WALL TERMINATION AT FLOOR TO BE SEAMLESS WITH CURVED INTERFACE (TYP.)
	CAST CAST STONE		PB PAINT OVER EXPOSED CONCRETE BLOCK



1 JAMB DETAILS @ POURED CONCRETE COL. OR BLOCK WALL, 90° WING (HEAD SIM.) SCALE: 3" = 1'-0"
 2 JAMB AT ROLL-UP GRILLE SCALE: 3" = 1'-0"
 3 NON-SEE THRU LOUVER HEAD (JAMB SIM.) SCALE: N.T.S.

SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



PBA FERNISLE PARK REDEVELOPMENT
 CITY OF MIAMI, PROJECT NO. B-40543
 2304 N.W. 14TH STREET, MIAMI, FL 33125

SHEET TITLE: DETAILS



J. GARY MCGRAW
 ARCHITECT
 FL LICENSE NUMBER
 AR 008072
 DATE: 03.07.2019

No.	REVISIONS - SUBMITTALS	DATE

CONSTRUCTION SEQUENCING AND SCHEDULING

Work performed on holidays or weekends shall be at no additional expense to the City of Miami, except when approved by the City in writing.

WORK RESTRICTIONS

- A. Demolition:
 1. Perform demolition in a manner to minimize noise, dust, time of disruption, and safety hazards.
 2. Perform demolition during hours agreed to by the Town.
 3. Drill concrete and masonry to avoid reducing load bearing capacities of structural elements or to avoid mechanical and electrical services that may be concealed or built into these materials.
IMPORTANT: Safety: The Contractor shall follow all appropriate Life Safety precautions and ensure that power to activate electrical circuits being worked upon be disconnected at the source to prevent accidental shock. Prior to initiating any demolition work, the Contractor verifies that he has reviewed all available record documents and extensively examined the area of work for hidden or concealed conditions.
- B. Schedule Work with the City and the A/E.

QUALITY ASSURANCE

- A. Organize and perform demolition work to avoid damage to construction intended to remain.
 B. The G.C. shall field verify all dimensions and visible existing conditions prior to commencing the work. Any discrepancies discovered by the G.C. shall be indicated to the Architect in writing, prior to bid.
 C. Demolition and transportation of debris shall comply with applicable codes and regulations governing these operations. Fees shall be paid by the Contractor and included in the base bid.
 D. Demolition and removal operations shall be conducted in an expedient manner, with precautions taken to prevent demolition site from being an "attractive nuisance".
 E. Notify the Owner and A/E of any conditions capable of affecting the safety of occupants of adjacent buildings, the normal use of these facilities, or the physical condition of the structures.
 1. In case of accidental disruption of utilities or the discovery of previously unknown utilities, stop work immediately and notify the Owner and A/E.
 2. Do not continue work until the Owner, A/E, and Contractor agree on a plan to correct the situation.

SEQUENCING AND SCHEDULING

A. Coordinate with applicable utility companies and the Owner for utility line removal, capping, and utility shutdowns required by removal work. Call (800)432-4770, Sunshine State One Call of Florida, Inc. At least 48 hours prior to digging.

PROJECT CONDITIONS

- A. Existing work not specified for removal that is temporarily removed, damaged, exposed, or in any way disturbed or altered by removal work shall be repaired, patched, or replaced to the Owner and A/E's satisfaction at no additional cost to the Owner.
 B. The G.C. shall provide and maintain all safety barriers throughout the course of demolition and construction. All construction work shall be enclosed by a safety barrier.
 C. Environmental Protection:
 1. Control amount of dust resulting from construction or demolition to prevent spread of dust to other buildings and to avoid creation of a nuisance in surrounding areas. Use of water to control dust will not be allowed when it will result in flooding or other objectionable or hazardous or conditions.
 2. Use of explosives is not allowed.
 3. Disposition of demolished materials by burning is not allowed.
 D. Traffic Maintenance:
 1. Conduct removal operations to maintain traffic along existing streets and walks.
 2. Keep paved streets and walkways free of debris.
 3. Remove material and other matter tracked or fallen onto traffic surfaces.
 E. Disposition of Materials:
 1. Title and responsibility to materials and equipment to be removed, excepting salvageable equipment to be retained by the Owner, is vested in the Contractor upon receipt of Notice to Proceed.
 2. The Owner will not be responsible for the condition, loss, or damage to such materials and equipment after the Notice to Proceed.

DEMOLITION

A. Perform removal and demolition according to Demolition Schedule and take necessary precautions to protect existing adjacent buildings, furnishings, and equipment. The G.C. shall shore up any walls affected by the selective demolition process as required to maintain proper structural stability throughout the course of construction. The G.C. is responsible for the design and engineering of all structural shoring.

BUILDING INSULATION

A. Ceiling Thermal Insulation: R-19 Unfaced suspension ceiling insulation, Owens-Corning Sunobatts or approved equal product that is designed and approved for use above suspended acoustical tile ceiling systems. Apply insulation throughout the entire building ceiling area, including restrooms with rigid ceilings. Note: Do not install insulation on top of, or within 4-inches of, recessed light fixtures.

STANDING SEAM METAL ROOFING SYSTEM

- A. Performance Requirements: Coordinate application of roofing system with application of cants and bases, protruding materials, roof flashings, and roof accessories to assure the complete installation is watertight and according to warranty requirements.
 B. Product Data:
 1. Submit specifications, installation instructions, and general recommendations from manufacturers of roofing system materials, for types of roofing required.
 2. Include data proving system has M-Dade Co. Product Approval.
 3. Provide 5 year Applicator's Warranty and 15 year Warranty from manufacturer.
 C. Shop Drawings:
 Show roof configuration and sheet layout, details at perimeter, and special conditions.
 D. Applicator's Warranty:
 Contractor shall furnish the City a 5 year written warranty, beginning at Substantial Completion, signed by Roofing applicator, covering materials and quality of work for entire Roofing System. Applicator shall be a factory-approved applicator.
 E. Manufacturer's Warranty:
 Manufacturer shall furnish the City a 15 year written warranty, beginning at Substantial Completion, signed by manufacturer's authorized representative for repair and replacement period and terms. Applicator shall be a factory-approved applicator.
 D. Provide and install Standing Seam Metal Roofing system per manufacturer's approved installation method. Manufacturer: MBCI or approved equal.
 F. Materials:
 Base Sheet: Compatible reinforced base sheet manufactured and supplied by the roofing membrane manufacturer, suitable for installation over plywood substrate, and shall be part of the manufacturer's FM system for wind uplift as specified.
 Standing Seam Galvalume Metal Roof:
 BattenLok-HS, 24 ga. Standing Seam Metal Roof, 12-inch panel width, with smooth-striated (standard) finish and Galvalume-Plus coating - as Manufactured by MBCI Products or approved equal.

STEEL DOORS AND FRAMES

- A. Exterior Door Certification: Miami-Dade County product approval single listing with specified door, door frame, and hardware, demonstrating compliance with FBC missile impact criteria.
 1. Comply with calculations, signed and sealed by a Florida registered professional engineer, establishing wind velocity pressure values for the specific project according to American Society of Civil Engineers (ASCE).
 B. Shop Drawings:
 1. Indicate manufacturer's model number, door and frame elevations and sections, materials, gauges and finishes, fabrication and erection details, locations of finish hardware by dimension and locations/details of all openings and louvers. Do not proceed with any fabrication until all details are approved.

WARRANTY

- A. Hollow metal doors and frames shall be supplied with a 1 year warranty against defects in materials and construction.
 B. Warranty shall begin on date of substantial completion of the project.

HOLLOW METAL DOORS

- A. Fabricate exterior and interior doors to profiles indicated of 16 gage hot-dip zinc-iron alloy coated sheet steel, A366, with A60 coating designation according to ASTM A924 and ASTM A653 0.50 oz. zinc per sq. ft. total both sides. Steel shall be of commercial quality, stretcher leveled fitness.
 B. Types: Flush, seamless hollow construction with louvers or vision cutouts as shown or specified.
 C. Sizes and Thickness: Sizes shall be as indicated and with 1-3/4" thickness unless otherwise specified or shown.
 1. Provide undercuts where indicated for ventilation.

FINISH HARDWARE

PROVIDE FINISH HARDWARE INCLUDING NECESSARY ACCESSORIES.

SUBMITTALS

- A. Exterior Door Certification: Miami-Dade County product approval single listing with specified door, door frame, and hardware, demonstrating compliance with Florida Building Code missile impact criteria.
 B. Hardware Schedules:
 1. Hardware schedules with A/E review comments shall be resubmitted with corrections.
 C. Keying:
 1. Lock cylinders shall be keyed and registered by the factory for all Master Key (MK) and Construction Master Key (CMK) systems to maintain security and identification.
 a. Provide Great Grand Master Keys (GGMK), Grand Master Keys (GMK), Master Keys, Section Master Keys (SMK) and Change Keys (CK) according to the Owner's keying schedule.

METAL STUDS, METAL LATH, SUSPENSION CEILINGS PLASTER, AND STUCCO

SUBMITTALS

A. Product Data: Submit manufacturer's product data for cementitious materials, lath, metal support components, and accessories.

QUALITY ASSURANCE

- A. Design Criteria:
 1. Coordinate layout and installation of suspension system components for suspended ceilings with other work supported by or penetrating through ceiling.
 2. Clear bonding agents are not allowed.
 3. Metal corner boots are not allowed. Use plastic trim accessories.
 B. Portland Cement Plaster/Stucco:
 1. Florida Super Stucco by Lafarge Florida.
 2. Lonestar Products.
 3. Rinker Materials Corp.
 4. Southdown, Inc.
 5. United States Gypsum Co.
 C. One Coat Veneer Plaster Over Cement Board: 3/32" Imperial Finish over 5/8" Durock cement board by US Gypsum Co. over metal framing at 16 inches o.c. maximum or accepted equivalent. UL U407 for 1 hour rating.
 D. Metal Lath:
 1. Diamond Mesh Lath:
 a. Flat: 2.5 lbs. per sq.yd.
 b. Self-Furring: 2.5 lbs. per sq.yd.
 c. Paper Backing: Provide asphalt-impregnated paper factory-bonded to back and complying with Fed. Spec UU-B-790, Type I, Grade D vapor permeable, Style 2.

MIXES

- A. Portland Cement Plaster/Stucco Mixes and Compositions - Base Coats:
 1. Comply with ASTM C926 for Portland cement plaster base and finish coat mixes.
 B. Ceiling Suspension Systems:
 1. Preparation and Coordination:
 a. Coordinate installation of ceiling suspension system with installation of overhead structural systems to ensure inserts and other structural anchorage provisions have been installed to receive ceiling hangers to allow development of their full strength and at spacings required to support ceiling.
 2. Hanger: Attach hangers to structure above ceiling to comply with Metal Lath/Steel Framing Association (ML/SFA) Specifications for Metal Lath and Furring and with referenced standards.
 3. Ceiling Suspension System:
 Install components of sizes and spacings indicated but not in smaller sizes or greater spacings than required by referenced lath and furring installation standards.
 C. Steel Stud Wall/Partition Support System:
 1. Install components for steel stud wall/partition support systems to comply with directions of steel stud manufacturer for application indicated.
 2. Non-Load (axial) Bearing Stud Systems: Comply with ASTM C754.
 3. Extend partition support systems to finish ceiling and attach to ceiling suspension members, unless otherwise indicated.
 D. Portland Cement Plaster/Stucco Application:
 1. Portland Cement Plaster Application Standard: Apply Portland cement plaster materials, compositions, and mixes to comply with ASTM C926

PAINTING

- A. Product Data: Submit Manufacturer Safety Data Sheet (MSDS), manufacturer's technical information, including paint label analysis and application instructions for each material proposed for use.
 Warranty:
 1. Submit paint manufacturer's proposed 6 year warranty document.
 2. At the end of the paint work, provide to the Owner, from the authorized paint manufacturer representative, a signed and notarized letter stating that the surfaces painted have met all the conditions for paint adhesion.
 3.

QUALITY ASSURANCE

- A. Qualifications: Paint applicator shall be licensed in the State of Florida or in Miami-Dade County and use state or county-certified journeymen. Provide a legible copy of license and, when applicable, a journeyman's certification attesting to qualification requirements.
 B. Surfaces to be Painted:
 4. Except where natural finish of material is specifically noted as surface not to be painted, paint exposed surfaces. If color or finish is not designated, coordinate with A/E for selection.
 5. Maintain containers used in storage of paint in a clean condition, free of foreign materials and residue.

PROJECT CONDITIONS

- A. Comply with the standards established in OSHA Workers Environmental Conditions.
 B. Take precautions to ensure that personnel and work areas are adequately protected from fire and health hazards resulting from handling, mixing, and application of paints.
 C. Illumination: Provide lighting equal to the permanent lighting planned for designated space.
 D. Ventilation: Provide adequate ventilation to prevent buildup of fumes.

SEQUENCING AND SCHEDULING

A. Phase projects to allow a minimum of 28 days to properly cure concrete and stucco/plaster surfaces before the application of paint.

WARRANTY

A. Provide a written guarantee, co-signed jointly and severally by the Painting Subcontractor and Materials Manufacturers, against cracking, peeling, flaking, chalking, and mildew on interior painted surfaces, and additionally against erosion and unreasonable fading on exterior surfaces, for 6 years; agreeing to repair and repaint surfaces affected by such defects, at no cost to the Owner.

MANUFACTURERS

- A. Use approved manufacturers only.
 1. Benjamin Moore
 2. Sherwin-Williams
 3. Approved equal

MATERIALS

- A. Use materials listed below.
 1. Latex-based materials shall be used for painting of exterior and interior finishes.
 B. Primers, Undercoats, Spill and Finish Coats: Use materials from same manufacturer when such materials are applied on same surface.
 C. Paints for interior and exterior use shall be factory tinted with each stage of coating application (primer, first coat, and finish coat) to be visually distinguishable from the preceding coat until the final coat. The final coat shall match the selected color.

APPLICATION

General: Perform work in a thorough and professional manner in conformance with accepted good practices and requirements of authorities having jurisdiction.

A. EXTERIOR SURFACES PAINT SCHEDULE

- Stucco Walls:
 1st Coat Acrylic Primer-sealer pigmented.
 2nd Coat Acrylic latex semi-gloss.
 3rd Coat Acrylic latex semi-gloss.
- Metal Doors:
 1st Coat Field applied rust inhibitive primer over shop primer.
 2nd Coat Acrylic latex enamel.
 3rd Coat Acrylic latex enamel.
- Stucco Ceilings:
 1st Coat Acrylic latex primer.
 2nd Coat Acrylic latex semi-gloss.
 3rd Coat Acrylic latex semi-gloss.
- Concrete or Blown Stucco Ceilings and Blown Stucco Walls:
 1st Coat Filler.
 2nd Coat Acrylic latex primer.
 3rd Coat Acrylic latex semi-gloss.
 4th Coat Acrylic latex semi-gloss.
- Wood:
 1st Coat Sanding sealer.
 2nd Coat Acrylic latex semi-gloss.
 3rd Coat Acrylic latex semi-gloss.

B. INTERIOR SPACES PAINT SCHEDULE

- Walls:
 1st Coat Acrylic latex wall primer.
 2nd Coat Acrylic latex satin.
 3rd Coat Acrylic latex satin.
- Walls (Veneer Plaster only)
 1st Coat Alkyd-based penetrating chalky wall primer/sealer
 2nd Coat Acrylic latex satin.
 3rd Coat Acrylic latex satin.
- Metal Doors:
 1st Coat Field applied rust inhibitive primer over shop primer.
 2nd Coat Acrylic latex semi-gloss.
 3rd Coat Acrylic latex semi-gloss.
- Ceilings Not Acoustically Treated:
 1st Coat Acrylic latex primer.
 2nd Coat Acrylic latex semi-gloss.
 3rd Coat Acrylic latex semi-gloss.

C. INTERIOR AND EXTERIOR METALS PAINT SCHEDULE

- Galvanized Metal: Apply neutralizer and allow to dry thoroughly.
 1st Coat Galvanized metal primer.
 2nd Coat Acrylic latex enamel (or aluminum paint)
 3rd Coat Acrylic latex enamel (or aluminum paint).
- Metal Sash - Doors and Frames:
 1st Coat Metal primer.
 2nd Coat Acrylic latex enamel (or aluminum paint).
 3rd Coat Acrylic latex enamel (or aluminum paint).
- Exposed Ferrous Metal:
 1st Coat Rust inhibitive primer (reference page F-1 of M-DCPS Paints.
 2nd Coat Acrylic latex enamel.
 3rd Coat Acrylic latex enamel.
- Exterior Ungalvanized Metal Including Pipe Systems Subjected to Corrosive/Chemical Environments. System shall be at least 10 mil minimum dry film thickness.
 1st Coat High performance rust inhibitive primer of aluminum epoxy mastic or accepted equivalent.
 2nd Coat High performance chemical resistance coating.
 3rd Coat High performance chemical resistance coating.
- Other Metals Not Previously Mentioned:
 1st Coat Rust inhibitive metal primer.
 2nd Coat Acrylic latex enamel (or aluminum paint).
 3rd Coat Acrylic latex enamel (or aluminum paint).

PLASTIC TOILET PARTITIONS

- A. Product Data:
 1. Show details of construction, assembly and anchorage to building construction, manufacturer's specifications including description of hardware, and maintenance instructions.
 2. Include test reports confirming Class C and toxicity requirements.
 B. Shop Drawings:
 1. Provide dimensioned partition plans, elevations, details, swing of doors, color, and location of hardware items and required wall blocking.
 C. Copy of manufacturer's standard 15-year warranty submitted with shop drawings, guaranteeing against material defects or faulty fabrication, assembly, and installation.

QUALITY ASSURANCE

WARRANTY

A. Upon completion of installation, submit warranty for 15- years starting at date of substantial completion, stating that failed products or installation shall be replaced at no additional cost to the Board.

MANUFACTURERS

- A. Solid Plastic Toilet Partitions:
 1. Ampco Products, Hideah, FL: High Density Polyethylene.
 2. Capital Partitions, Columbia, MD: Poly-Pro HDPE.
 3. Comtec Industries, Scranton, PA: Series S200.
 4. Santona Products, Scranton, PA: Poly-Mar HD.

MATERIALS

- A. Panels, pilasters, and doors of 1 inch thick seamless high-density polyethylene resin compound. A/E shall select color from manufacturer's stock or custom colors. All edges shall be machined to a 0.250" radius. Phenolic resin construction is not acceptable.
 1. Plastic material shall comply with the following:
 a. Flame Spread of less than 200 and Smoke Developed of less than



SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



PBA FERNISLE PARK REDEVELOPMENT
 CITY OF MIAMI, PROJECT NO. B-40543
 2304 N.W. 14TH STREET, MIAMI, FL 33125

ARCHITECTURAL
 SPECIFICATIONS

SHEET TITLE:



LICENSED PROFESSIONAL
 J. GARY MCGRAW
 ARCHITECT
 FL LICENSE NUMBER
 AR 008072
 DATE: 03.07.2019

No.	REVISIONS - SUBMITTALS	DATE

SHEET No.
A-7.0

GENERAL STRUCTURAL NOTES

GENERAL:

- THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN AND EXTENT OF THE WORK AND ARE PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR MEASUREMENTS OR TO BE USED AS SHOP DRAWINGS OR PORTIONS THEREOF. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSIDERED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.
- THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY ALL GRADES, LINES, LEVELS, CONDITIONS AND DIMENSIONS AT THE JOB SITE AND AS SHOWN ON THE DRAWINGS. THEY SHALL REPORT ANY ERRORS OR INCONSISTENCIES TO THE ARCHITECT/ENGINEER (A/E) BEFORE COMMENCING WORK. THE CONTRACTOR AND SUBCONTRACTORS SHALL LAY OUT THEIR WORK FROM ESTABLISHED REFERENCE POINTS AND BE RESPONSIBLE FOR ALL LINES, ELEVATIONS AND MEASUREMENTS IN CONNECTION WITH THEIR WORK.
- PROTECTION:
 - THE CONTRACTOR IS RESPONSIBLE AND SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 33 OF FLORIDA BUILDING CODE 2017 AND ALL LOCAL, STATE AND FEDERAL LAWS. THE A/E AND HIS EMPLOYEES ARE NOT RESPONSIBLE FOR SAFETY PROCEDURES ON THIS PROJECT. THIS IS THE CONTRACTOR'S RESPONSIBILITY.
 - PROVIDE ALL SHORING, BRACING AND SHEETING AS REQUIRED FOR THE PROPER EXECUTION OF THE WORK. REMOVE WHEN THE WORK IS COMPLETED.
 - PROVIDE AND MAINTAIN GUARD LIGHTS AT ALL BARRICADES, RAILINGS, OBSTRUCTIONS IN THE STREETS, ROADS OR SIDEWALKS AND ALL TRENCHES OR PITS ADJACENT TO PUBLIC WALKS OR ROADS.
 - AT ALL TIMES PROVIDE PROTECTION AGAINST WEATHER (RAIN, WIND, STORMS OR HEAT) SO AS TO MAINTAIN ALL WORK, MATERIALS, APPARATUS AND FIXTURES FREE FROM DAMAGE.
 - THE CONTRACTOR SHALL PAY FOR ALL DAMAGE TO ADJACENT STRUCTURES, SIDEWALKS AND TO STREETS OR OTHER PUBLIC PROPERTY TO ANY PUBLIC UTILITIES OR TO ANY PUBLIC PROPERTY.
 - AT THE END OF THE DAYS WORK, COVER ALL WORK LIKELY TO BE DAMAGED. ANY WORK DAMAGED BY FAILURE TO PROVIDE PROTECTION SHALL BE REMOVED AND REPLACED WITH NEW WORK AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR AGREES THAT HE WILL HOLD OWNER, A/E AND/OR ANY OF THEIR EMPLOYEES OR AGENTS HARMLESS FROM ANY AND ALL DAMAGE, WHICH MAY BE SUFFERED BY REASON OF ANY NEGLIGENCE ON PART OF CONTRACTOR, ANY OF HIS SUBCONTRACTORS AND/OR SUBCONTRACTORS, MATERIALS AND EQUIPMENT SUPPLIERS AND/OR ANY OF THEIR EMPLOYEES OR AGENTS, IN PERFORMANCE OF THE CONTRACT, AND, IN CASE ANY ACTION IS BROUGHT THEREFORE AGAINST OWNER, A/E AND/OR ANY OF THEIR EMPLOYEES OR AGENTS, CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DEFENSE THEREOF AND UPON HIS FAILURE TO DO SO ON PROPER NOTICE, OWNER, A/E AND/OR ANY OF THEIR EMPLOYEES OR AGENTS RESERVE THE RIGHT TO DEFEND SUCH DAMAGE. ALL COSTS THEREOF TO CONTRACTOR SHALL BE PAID BY CONTRACTOR. IF ANY ERRORS OR OMISSIONS APPEAR IN THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF SUCH OMISSIONS PRIOR TO PROCEEDING WITH ANY WORK WHICH APPEARS IN QUESTION. IN THE EVENT OF THE CONTRACTOR'S FAILING TO GIVE SUCH NOTICE, HE SHALL BE HELD RESPONSIBLE FOR THE RESULT OF SUCH OMISSIONS OR ERRORS OR OMISSIONS AND THE COST OF RECTIFYING THE SAME.
- THE CONTRACTOR SHALL USE THE STRUCTURAL DRAWINGS TOGETHER WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS TO LOCATE STEPPED FOOTINGS, DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, REGLETS, BOLT SETTING SLEEVES, DIMENSIONS AND DRAWING DIMENSIONS TO A/E BEFORE PROCEEDING WITH THE WORK.
- SUBMIT SHOP DRAWINGS FOR A/E REVIEW BEFORE STARTING FABRICATION.
- NO SHOP DRAWINGS SHALL BE SUBMITTED FOR A/E REVIEW UNTIL AFTER THEY HAVE BEEN REVIEWED AND NOTED FOR CONSTRUCTION METHOD, DIMENSIONING AND OTHER TRADE REQUIREMENTS BY THE CONTRACTOR AND STAMPED WITH THE CONTRACTOR'S APPROVAL SEAL. A/E ASSUMES NO RESPONSIBILITY FOR DIMENSIONS, QUANTITIES, ERRORS OR OMISSIONS AS A RESULT OF CHECKING AND REVIEWING ANY SHOP DRAWINGS. ANY ERRORS OR OMISSIONS MUST BE MADE GOOD BY CONTRACTOR, IRRESPECTIVE OF WHETHER SUCH ERRORS OR OMISSIONS IN DRAWINGS BY A/E AND EVEN THOUGH WORK IS DONE IN ACCORDANCE WITH SUCH DRAWINGS.
- STRUCTURAL SUBMITTALS BY THE STRUCTURAL ENGINEER OF RECORD SHALL BE TO INSURE THAT HIS INTENT HAS BEEN UNDERSTOOD AND THAT THE SPECIFIED CRITERIA HAVE BEEN USED. A COPY OF ALL STRUCTURAL SUBMITTALS WILL BE RETAINED FOR RECORD KEEPING PURPOSES ONLY.
- WHERE CRITICAL DIMENSIONS CANNOT BE DETERMINED FROM THE PLANS, OR WHERE NEW WORK ADJOINS EXISTING CONSTRUCTION, OR WHERE ONE MATERIAL ADJOINS AN IN-PLACE MATERIAL, CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AS REQUIRED TO COMPLETE SHOP DRAWINGS AND INSTALLATION. REPORT ANY DISCREPANCIES BETWEEN FIELD MEASURED DIMENSIONS AND DRAWING DIMENSIONS TO A/E BEFORE PROCEEDING WITH THE WORK.
- WHERE A LINE OF STRUCTURE, OPENING LOCATION, OR DIMENSION IS CRITICAL AND BASED ON THE REQUIREMENTS OF ANOTHER TRADE OR SUBCONTRACTOR THAT SUBCONTRACTOR SHALL SUBMIT A SHOP DRAWING WITH THE REQUIRED DIMENSIONAL INFORMATION UPON WHICH THE CONTRACTOR SHALL BASE THE LAYOUT AND CONSTRUCTION. THIS PROCEDURE IS MANDATORY FOR CURTAIN WALL SYSTEMS, ARCHITECTURAL PRECAST SYSTEMS AND ALL MECHANICAL AND ELECTRICAL OPENINGS.
- OWNER, ARCHITECT, AND CONTRACTOR NOTE:
 - REVIEW OF SHOP DRAWINGS AND FIELD INSPECTIONS OF THE STRUCTURE BY THIS OFFICE ARE REQUIRED IF THIS OFFICE IS TO BE HELD RESPONSIBLE FOR THE STRUCTURAL ADEQUACY OF THE COMPLETED BUILDING.

STRUCTURAL DESIGN CRITERIA:

- THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE AND OTHER CODES REFERENCED THEREIN.
- WIND LOAD CRITERIA:
 - BASIC WIND VELOCITY = 175 MPH AS PER ASCE 7-10 IN COMPLIANCE WITH FLORIDA BUILDING CODE 2017, LATEST EDITION.
 - EXPOSURE: C
 - INTERNAL PRESSURE: +/- 0.18.
 - Kd = 0.85
 - LIVE LOADS:
 - SEE PLANS FOR ADDITIONAL LOADING INFORMATION.

EARTHWORK:

- CONTRACTOR SHALL DEWATER SITE AS NECESSARY, SO THAT ALL CONCRETE CAN BE PLACED IN THE DRY. ALL BACKFILL SHALL BE ACCOMPLISHED USING MATERIALS CONSISTING OF CRUSHED STONE AND/OR MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER. THE BACKFILL MATERIAL SHALL BE PLACED AGAINST WALLS WHICH DO NOT HAVE PERMANENT FLOORS AT THE TOP AND BOTTOM WITHOUT PROVISIONS FOR ADEQUATE TEMPORARY BRACING OF THOSE WALLS. PROVIDE ADEQUATE EXCAVATION SPACING IN ACCORD WITH GEOTECHNICAL ENGINEER'S RECOMMENDATIONS TO MAINTAIN EXISTING FOOTINGS, UTILITIES AND OTHER IMPROVEMENTS IN A SAFE CONDITION.

REINFORCING STEEL: (SHOP DRAWING REQUIRED)

- TO BE NEW BILLET STEEL CONFORMING TO A.S.T.M. A615 GRADE 60 SPECIFICATIONS, FABRICATED IN ACCORDANCE WITH MANUAL OF STANDARD PRACTICE OF THE C.R.S.I. AND PLACED IN ACCORDANCE WITH A.C.I. 318 AND A.C.I. MANUAL OF ENGINEERING AND PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURES.
- COLUMN REINFORCEMENT: DOWELS TO BE SAME SIZE AND NUMBER AS VERTICALS ABOVE. LAP 48 BAR DIAMETER OR MINIMUM OF 18" UNLESS OTHERWISE NOTED. PROVIDE RIGID TEMPLATES FOR DOWEL LOCATION. STANDARD HOOKS FOR ALL VERTICAL REINFORCEMENT AT NON-CONTINUOUS COLUMNS (U.O.N.).
- ALL DOWELS FOR COLUMNS AND WALLS TO BE SECURED IN POSITION PRIOR TO CONCRETING. DRILLING OR PUSHING THE DOWELS INTO POSITION IN WET CONCRETE IS NOT PERMITTED.
- CONCRETE COVER UNLESS OTHERWISE DETAILED ON DRAWINGS: FOOTINGS 3"; COLUMNS 1-3/4" TO TIES, BEAMS 1-3/4" TO TIES, INTERIOR SLABS 3/4", EXPOSED SLABS 1-1/2", SLABS ON GRADE 1-1/2" MEASURED FROM TOP OF SLAB.
- SLAB AND BEAM REINFORCEMENT: PLACED IN ACCORDANCE WITH REINFORCING DIAGRAMS, LAPPED 36 BAR DIAMETER OR MINIMUM 18" BOTTOM BARS SPLICED ONLY AT SUPPORTS. TOP BARS SPLICED ONLY AT MID-SPAN. ALL TOP BARS HOOKED AND WELDED AT CONTINUOUS EDGES (U.O.N.). ALL HOOKS TO BE STANDARD 90 DEGREE OR 180 DEGREE HOOKS AS REQUIRED (U.O.N.).
- ADDED REINFORCEMENT: PROVIDE ADDITIONAL CORNER BARS BENT 30" MINIMUM EACH WAY AT CORNERS OF ALL BEAMS, WALLS FOOTINGS AND WALLS TO MATCH ALL HORIZONTAL BARS.

CONCRETE:

- CONCRETE DESIGN AND REINFORCEMENT IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (A.C.I. 318) AND WITH "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" (A.C.I. 311).
- ALL CONCRETE WORK IN ACCORDANCE WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING" (ACI 301) PRODUCTION OF CONCRETE, DELIVERY, PLACING AND CURING TO BE IN ACCORDANCE WITH "HOT WEATHER CONCRETING" (A.C.I. 305R).
- NO ADMIXTURES PERMITTED WITHOUT THE REVIEW OF ARCHITECT/ENGINEER.
- FOR ALL CONCRETE TO BE PLACED IN SLABS (INCLUDING SLABS ON GRADE), THE SLUMP SHALL NOT EXCEED 4" ± 1".
- AND WAIVERS OF THIS REQUIREMENT SHALL BE CONSIDERED. SLUMP FOR OTHER CONCRETE SHALL NOT EXCEED 8".
- ALL CONCRETE, f_c = 3000 P.S.I. CONCRETE TO BE REGULAR WEIGHT WITH A MAX WATER CEMENTITIOUS RATIO OF 0.52.
- SEE PLANS AND ARCH. DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- TAKE ONE SET OF 5 CYLINDERS FOR EVERY FIFTY CUBIC YARDS OR FRACTION THEREOF FOR EACH CLASS OF CONCRETE POURED EACH DAY. FOLLOW ASTM STANDARDS FOR SAMPLING. FOR EACH TEST ONE CYLINDER AT 3 DAYS AND 7 DAYS AND 3 AT 28 DAYS. IF ONE OF THE TWO 28 DAYS TESTS FALLS BELOW SPECIFIED STRENGTH, TEST THE THIRD CYLINDER AT 56 DAYS. TAKE ONE SLUMP TEST (ASTM C143) FOR EACH SET OF TEST CYLINDERS CAST.
- NO CONCRETE TEST WILL BE ACCEPTED IF CONCRETE IS TAMPERED WITH IN ANY WAY AFTER SAID TEST IS PERFORMED. REPEAT TEST IF WATER IS ADDED AFTER INITIAL SAMPLING.
- IF CONCRETE IS PUMPED USE A MINIMUM 4-INCH PUMP.
- CONTRACTOR IS RESPONSIBLE FOR THE ADEQUACY OF FORMS AND SHORING AND FOR SAFE PRACTICE IN THEIR USE AND REMOVAL. CONTRACTOR SHALL DESIGN AND ERECT FORMWORK IN STRICT COMPLIANCE WITH ACI 347R. SUBMIT SIGNED & SEALED SHOP DWGS. CONTRACTOR SHALL COORDINATE ALL OPENINGS AS REQUIRED FOR OTHER TRADES. OPENINGS WHERE SHOWN ON THE STRUCTURAL DRAWINGS ARE TO IDENTIFY DESIGN INTENT ONLY. THE SPECIFIC DIMENSIONS AND LOCATIONS SHALL BE FURNISHED OR CONFIRMED BY THE TRADE REQUIRING THE OPENING. PROVIDE CHAMFERS AT ALL CORNERS IN CONCRETE MEMBERS EXPOSED TO VIEW. FORMWORK TO REMAIN IN PLACE UNTIL CONCRETE HAS ATTAINED ENOUGH STRENGTH TO BEAD LOADS PLUS A MINIMUM OF 50 PSF OF ADDITIONAL CONSTRUCTION LOAD.
- SPECIFIED EXPANSION BOLTS SHALL BE OF THE SIZE INDICATED AND OF THE MAXIMUM EMBEDMENT LENGTH INTO THE CONCRETE.
- LEAD SHIELDS ARE NOT ACCEPTABLE. EXPANSION BOLTS SHALL NOT BE SUBSTITUTED FOR SPECIFIED ANCHOR BOLTS WITHOUT THE ENGINEER'S APPROVAL.

LINTELS:

- THE CONTRACTOR SHALL PROVIDE PRECAST OR INSITU LINTELS AT THE HEADS OF ALL OPENINGS IN MASONRY WALLS NOT EXCEEDING 8 FEET IN WIDTH WHERE BEAMS HAVE NOT BEEN SPECIFIED. LINTEL MAY BE INTEGRAL WITH THE TIE BEAM WHEN HEAD OF THE OPENING IS 16" OR LESS BELOW. CONTINUE TYPICAL BOTTOM BARS THROUGH AND ADD 2 #5 BOTTOM BARS AT DROP. ADD 2 #3 STIRRUPS AT 6" O.C. EACH END AND BALANCE AT 12" AT DROP. MINIMUM BEARING FOR ALL LINTELS 8" EACH SIDE OR PROVIDE DOWELS AND POCKETS IN ADJACENT COLUMNS.
- LINTEL TO BE MINIMUM OF 8" DEEP 2 #4 TOP AND BOTTOM FOR SPANS LESS THAN 6 FEET, 12" DEEP WITH 2 #5 TOP AND BOTTOM AND 3 #3 STIRRUPS AT 6" O.C. EACH END, FOR SPANS GREATER THAN 6 FEET UP TO 8 FEET. FOR SPANS GREATER THAN 8 FEET, SEE PLANS AND BEAM SCHEDULE FOR STRUCTURAL BEAMS.

MASONRY WALLS AND PARTITIONS:

- (SHOP DRAWINGS FOR REINFORCING REQUIRED)
 - ALL MASONRY CONSTRUCTION TO BE IN ACCORDANCE WITH "SPECIFICATION FOR MASONRY STRUCTURES" ACI 530, 713 AND PROVISIONS OF THE FLORIDA BUILDING CODE. ALL MASONRY WALLS TO BE CONSTRUCTED ENTIRELY OF UNITS CONFORMING TO ASTM C-90-90 AND REINFORCED WITH #8 GAGE LADDER TYPE HORIZONTAL MASONRY REINFORCING LOCATED AT 16" O.C. ALL MASONRY TO BE LAID IN TYPE "M" MORTAR (2500 PSI ON THE JOB) WITH FULL HEAD AND BED JOINTS.
 - ALL VERTICAL CELLS WITH REINFORCING SHALL BE FILLED WITH COARSE GROUT CONSISTING OF 3000 PSI CONCRETE WITH #8 COARSE AGGREGATE. USE HIGH-SLUMP 8"±1" (SUPERPLASTICIZED) WHERE HEIGHT OF OPEN CELL EXCEEDS 4'-0", USE HIGH-LIFT GROUTING TECHNIQUE WHICH REQUIRES A CLEAN-OUT OPENING AT THE BOTTOM OF ALL CELLS AND PLACING THE GROUT IN MAXIMUM 4'-0" LIFTS WITH A 30 TO 60 MINUTE DELAY BETWEEN LIFTS.
 - CONCRETE MASONRY UNITS (BLOCK) SHALL COMPLY WITH THE PROVISIONS OF THE STANDARD SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY, ACI 530.
 - HOLLOW BLOCK SHALL COMPLY TO ASTM C-90-90, TYPE II, GRADE N-II.
 - MORTAR SHALL COMPLY WITH ASTM C-270, TYPE M, WITH A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2500 PSI.
 - HORIZONTAL REINFORCING SHALL BE DUR-O-WALL STANDARD (9 GA.) AT 16" O.C. (TRUSS TYPE FOR NON-REINF. MASONRY AND LADDER TYPE FOR REINF. MASONRY) ASTM CLASS B-2, HOT DIPPED GALVANIZED OR APPROVED EQUAL. MASONRY COMPRESSIVE STRENGTH f_m = 1500 PSI. (NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS = 1900 P.S.I.)
 - STRUCTURAL DESIGN OF ENGINEERED UNIT MASONRY COMPLIES WITH ACI 530 / ASCE 5 / TMS 402, BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES AND THE COMMENTARY ON BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 530.1 / ASCE 6 / TMS 602 SPECIFICATIONS FOR MASONRY STRUCTURES AND THE COMMENTARY ON SPECIFICATIONS FOR MASONRY STRUCTURES.
 - CONTRACTOR IS RESPONSIBLE FOR BRACING OF WALLS DURING CONSTRUCTION.

PRODUCT CONTROL APPROVAL:

- PRODUCT CONTROL APPROVAL IN ACCORDANCE WITH CITY SHALL BE SUBMITTED TO THE ARCHITECT FOR ALL MANUFACTURER-DESIGNED ITEMS INCLUDING DOORS, WINDOWS, AND ROOFING.
- ONLY PRODUCTS THAT HAVE BEEN PRE-APPROVED BY DADE COUNTY ARE ACCEPTABLE.

STRUCTURAL WOOD:

- WOOD DESIGN IN CONFORMANCE WITH NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.
- TO BE AIR DRIED, WELL SEASONED AND GRADE MARKED AT MILL.
- TO BE NO. 1 SOUTHERN PINE.
- ALL STRUCTURAL WOOD TO BE SURFACED 4 SIDES (S-4-S) WITH A MINIMUM FIBER STRESS IN BENDING OF 1200 P.S.I. AND A MAXIMUM MOISTURE CONTENT OF 19%.
- ALL LUMBER AND PLYWOOD IN CONTACT WITH CONCRETE, STUCCO, MASONRY OR OTHER CEMENTITIOUS MATERIALS SHALL BE TREATED TO COMPLY WITH AWPA STANDARD LP-2.
- STORE ALL LUMBER ABOVE GRADE OR FLOOR. STACK TO ALLOW PROPER AIR CIRCULATION AND PROTECT FROM WETTING WITH SUITABLE COVER.
- ALL WOOD TRUSSES SHALL BE DESIGNED FOR THE SUPERIMPOSED LOADS GIVEN ON PLAN PLUS WEIGHT OF THE TRUSS.
- WOOD TRUSSES SHALL ALSO BE DESIGNED TO RESIST GIVEN UPLIFT LOADS.
- SUBMIT PLAN(S) AND CALCULATIONS SIGNED AND SEALED BY A FLORIDA REGISTERED ENGINEER FOR A/E REVIEW PRIOR TO FABRICATION. THE SUBMITTALS SHALL INCLUDE THE PROJECT IDENTITY, THE LOADING AND DESIGN CRITERIA; TRUSS DETAIL AND TRUSS FRAMING PLAN SHEETS SHALL IDENTIFY EACH TRUSS AND LIST THE DESIGN CRITERIA AND LOADING SPECIFY ALL MEMBER SIZES, BRACING ANCHORAGE, CONNECTIONS, TRUSS LOCATIONS AND OTHER NECESSARY TEMPORARY AND PERMANENT FABRICATION AND ERECTION INFORMATION. EACH DRAWING SHALL BEAR THE SIGNATURE AND IMPRESSED SEAL OF THE FLORIDA REGISTERED ENGINEER WHO PREPARED THE DRAWINGS AND CALCULATIONS.
- ROOF TRUSSES SHALL BE DESIGNED FOR COMPONENT & CLADDING LOADS UNDER ASCE 7-10. DO NOT MODIFY WOOD TRUSS LAYOUT WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD AND THE APPROVAL OF REVISIONS TO THE MASTER PERMIT BY THE BUILDING DEPARTMENT.

FOUNDATIONS: SPREAD FOOTINGS

THE FOLLOWING ARE RECOMMENDATIONS FOR OVERALL SITE PREPARATION AND FOUNDATION SUPPORT BASED ON THE GEOTECHNICAL REPORT BY NELCO TESTING AND ENGINEERING SERVICES, INC. FILE NO. B-170367 DATED MARCH 13, 2017. THE FOUNDATIONS WERE DESIGNED BASED ON AN ALLOWABLE BEARING PRESSURE OF 3000 P.S.F.

- THE "FOOTPRINT" OF THE PROPOSED BUILDING, PLUS A MINIMUM MARGIN OF 10'-0" SHOULD BE STRIPPED OF ALL SURFACE VEGETATION, DEBRIS, ORGANIC SOIL OR OTHER DELETERIOUS MATERIALS, AS ENCOUNTERED.
- THE ACTUAL DEPTHS OF STRIPPING AND GRUBBING MUST BE DETERMINED BY VISUAL OBSERVATION AND JUDGMENT DURING THE EARTHWORK PREPARATION. SEE NOTE 8 BELOW.
- COMPACT ALL CONSTRUCTION AREAS, AS RECOMMENDED IN THE GEOTECHNICAL REPORT. SEE NOTE 8 BELOW.
- BACKFILL BUILDING AREAS TO REQUIRED ELEVATION IF NEEDED USING CLEAN GRANULAR MATERIAL PLACED IN LIFTS NOT TO EXCEED 12 INCHES IN THICKNESS AND COMPACT AS INDICATED IN THE GEOTECHNICAL REPORT.
- CARE SHOULD BE TAKEN NOT TO USE VIBRATION IN CASE OF EXISTING STRUCTURES IN THE VICINITY OF THE CONSTRUCTION AREA. IF VIBRATION CANNOT BE USED FOR COMPACTION, STATIC COMPACTION MAY BE APPLIED. HOWEVER, IN THIS CASE, THE COMPACTED LAYER SHOULD NOT EXCEED 6 INCHES IN THICKNESS.
- ALL CONSTRUCTION FILL MATERIAL SHALL BE CLEAN GRANULAR SOIL, FREE OF ORGANICS OR OTHER DELETERIOUS MATERIAL, AND SHALL CONTAIN NO MORE THAN FIVE PERCENT FINES PASSING A U.S. STANDARD NO. 200 SIEVE, NO PARTICLE SIZE SHALL EXCEED 3" INCHES.
- IN THE EVENT OF EXISTING STRUCTURES, EXISTING FOOTINGS OR PROPOSED DRAINAGE LINES, PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO PROTECT ALL FOOTINGS FROM UNDERMINING AND EXPOSURE. THE GEOTECHNICAL ENGINEER SHALL BE NOTIFIED OF THESE CONDITIONS TO EVALUATE THE APPLICABILITY OF HIS RECOMMENDATIONS.
- ALL GEOTECHNICAL WORK SHALL BE PERFORMED UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER TO VERIFY COMPLIANCE WITH HIS RECOMMENDATIONS AND THE FLORIDA BUILDING CODE (F.B.C.)
- TOP OF WALL FOOTINGS TO BE AT SAME ELEVATION AS TOP OF COLUMN FOOTINGS. WALL FOOTING REINFORCEMENT TO RUN CONTINUOUS THROUGH COLUMN FOOTING. STEP WALL FOOTING FROM HIGHER COLUMN FOOTING TO LOWER ONE.
- ALL EXTERIOR FOOTINGS TO BE MINIMUM 1'-4" BELOW THE TOP OF CONCRETE SLAB ON GRADE OR MINIMUM 8" BELOW FINISHED GRADE, WHICHEVER IS LOWER. (UNLESS OTHERWISE NOTED ON PLANS.) COORD. W/ ARCH. & MECH. DWGS.
- CONTRACTOR SHALL COORDINATE WITH THE GEOTECHNICAL ENGINEER TO ESTABLISH WHETHER ANY UNSUITABLE CONDITIONS ARE DISCOVERED DURING EXCAVATION WHICH WOULD PREVENT ATTAINMENT OF THE ASSUMED SOIL PRESSURE AND TO PERFORM INDUSTRY STANDARD SOIL DENSITY TESTS, TO ENSURE COMFORMANCE WITH REQUIREMENT, REPORT RECOMMENDATIONS PRIOR TO INSTALLATION OF ANY FOOTING REINFORCING. SUBMIT SIGNED AND SEALED REPORTS TO ARCHITECT/ENGINEER.

CRANE, HEAVY CONSTRUCTION EQUIPMENT, A/C UNITS, UTILITY POLES, ETC.:

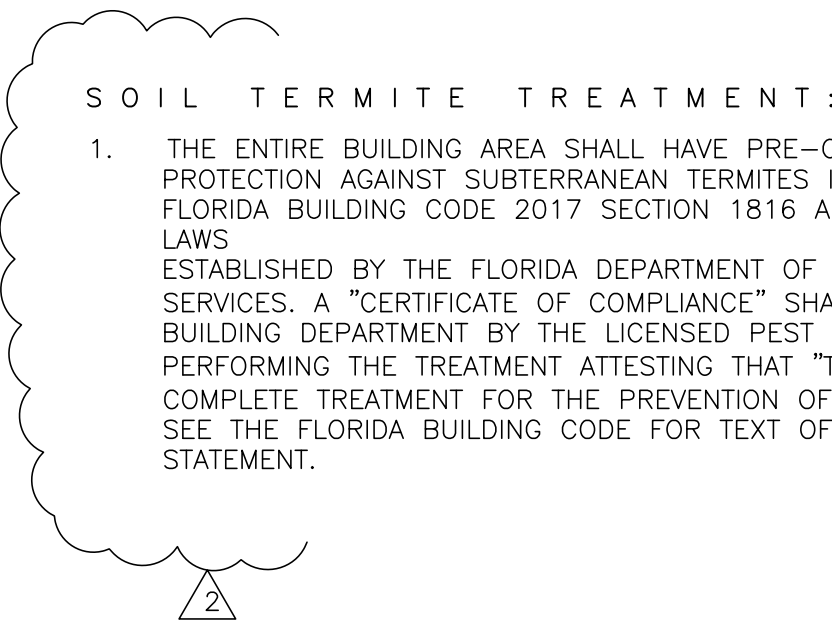
- AN ENGINEER SHALL BE EMPLOYED BY THE CONTRACTOR FOR ALL WORK ASSOCIATED WITH TOWER CRANES, INCLUDING FOUNDATION, BRACING, HOLES IN STRUCTURE, SHORING, ETC. THIS ALSO APPLIES TO ANY HEAVY EQUIPMENT THAT IS TO BE ATTACHED TO THE STRUCTURE SUCH AS CONCRETE PUMPS. THIS ALSO APPLIES TO UTILITY POLES, UNDERGROUND TANKS, A/C SUPPORTS, ETC.
- COMPLETE CALCULATIONS, IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2010, WIND LOADS OF ALL ELEMENTS ARE TO BE SUBMITTED TO THE ENGINEER OF RECORD, AS WELL AS SIGNED AND SEALED DRAWINGS IF APPLICABLE.
- THE ENGINEER DOING THIS WORK SHALL INSPECT ALL PHASES OF IT TO INSURE COMPLIANCE WITH HIS DESIGN.

PRODUCT CONTROL APPROVAL:

- PRODUCT CONTROL APPROVAL IN ACCORDANCE WITH THE CITY SHALL BE SUBMITTED TO THE ARCHITECT FOR ALL MANUFACTURER-DESIGNED ITEMS INCLUDING DOORS, WINDOWS, AND ROOFING.
- ONLY PRODUCTS THAT HAVE BEEN PRE-APPROVED BY DADE COUNTY ARE ACCEPTABLE.

CONSTRUCTION TOLERANCES:

- ALL TOLERANCES SHALL CONFORM TO THE STANDARDS SET FORTH IN THE APPLICABLE ACI BUILDING CODE SECTIONS OF THE MANUAL OF CONCRETE PRACTICES.
- MINIMUM TOLERANCES SHALL BE AS FOLLOWS:
 - VARIATIONS FROM THE PLUMB:
 - IN THE LINE AND SURFACES OF COLUMNS, PIERS, WALLS, AND IN ARRISSES AS FOLLOWS:
 - IN ANY 10-FOOT LENGTH 1/4"
 - MAXIMUM FOR ENTIRE LENGTH 1/2"
 - FOR EXPOSED CORNER COLUMNS, CONTROL JOINT GROOVES, AND OTHER LINES:
 - IN ANY 20-FOOT LENGTH 1/2"
 - MAXIMUM FOR ENTIRE LENGTH 1/2"
 - VARIATION FROM THE LEVEL OR FROM THE GRADES INDICATED IN THE DRAWINGS:
 - IN SLAB SOFFITS, CEILINGS, BEAM SOFFITS, AND IN ARRISSES AS FOLLOWS:
 - IN ANY 10-FOOT LENGTH 1/4"
 - IN ANY BAY OR ANY 20-FOOT LENGTH 3/8"
 - MAXIMUM FOR ENTIRE LENGTH 3/4"
 - FOR EXPOSED LINTELS, SILLS, PARAPETS, HORIZONTAL GROOVES, AND OTHER LINES:
 - IN ANY 20-FOOT LENGTH 1/4"
 - MAXIMUM FOR ENTIRE LENGTH 1/2"



SOIL TERMITE TREATMENT:

- THE ENTIRE BUILDING AREA SHALL HAVE PRE-CONSTRUCTION TREATMENT PROTECTION AGAINST SUBTERRANEAN TERMITES IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2017 SECTION 1816 AND WITH THE RULES AND LAWS ESTABLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE & CONSUMER SERVICES. A "CERTIFICATE OF COMPLIANCE" SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY THE LICENSED PEST CONTROL COMPANY PERFORMING THE TREATMENT ATTESTING THAT "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES." SEE THE FLORIDA BUILDING CODE FOR TEXT OF CERTIFICATE OF COMPLIANCE STATEMENT.

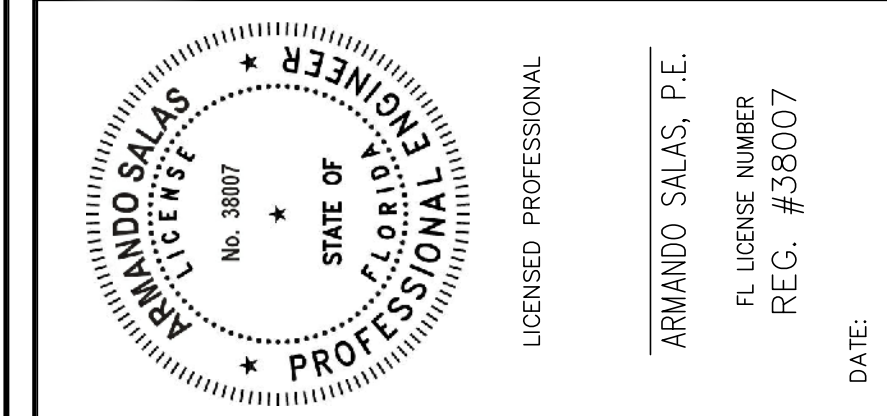
SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

GENERAL STRUCTURAL NOTES

SHEET TITLE:



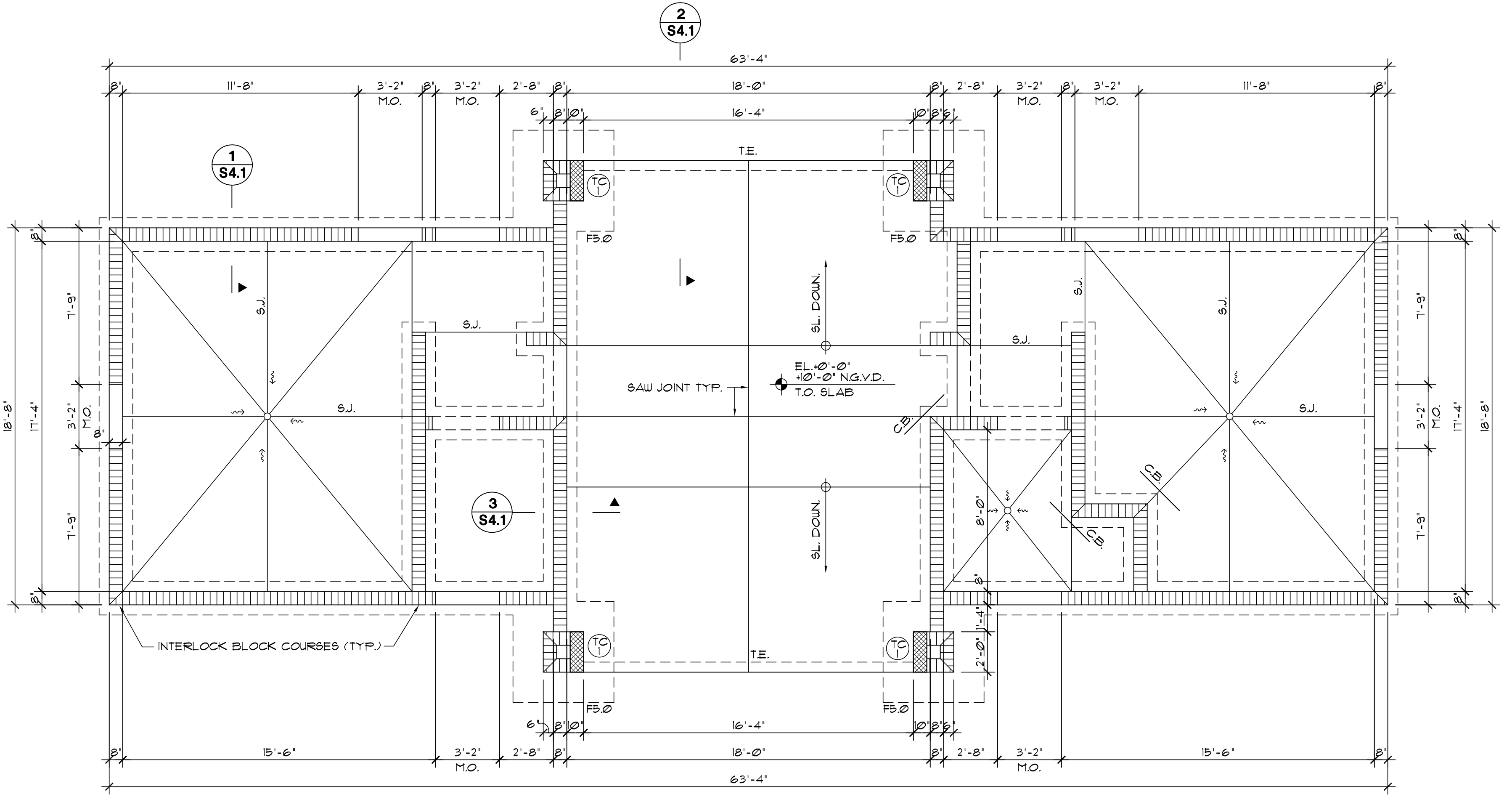
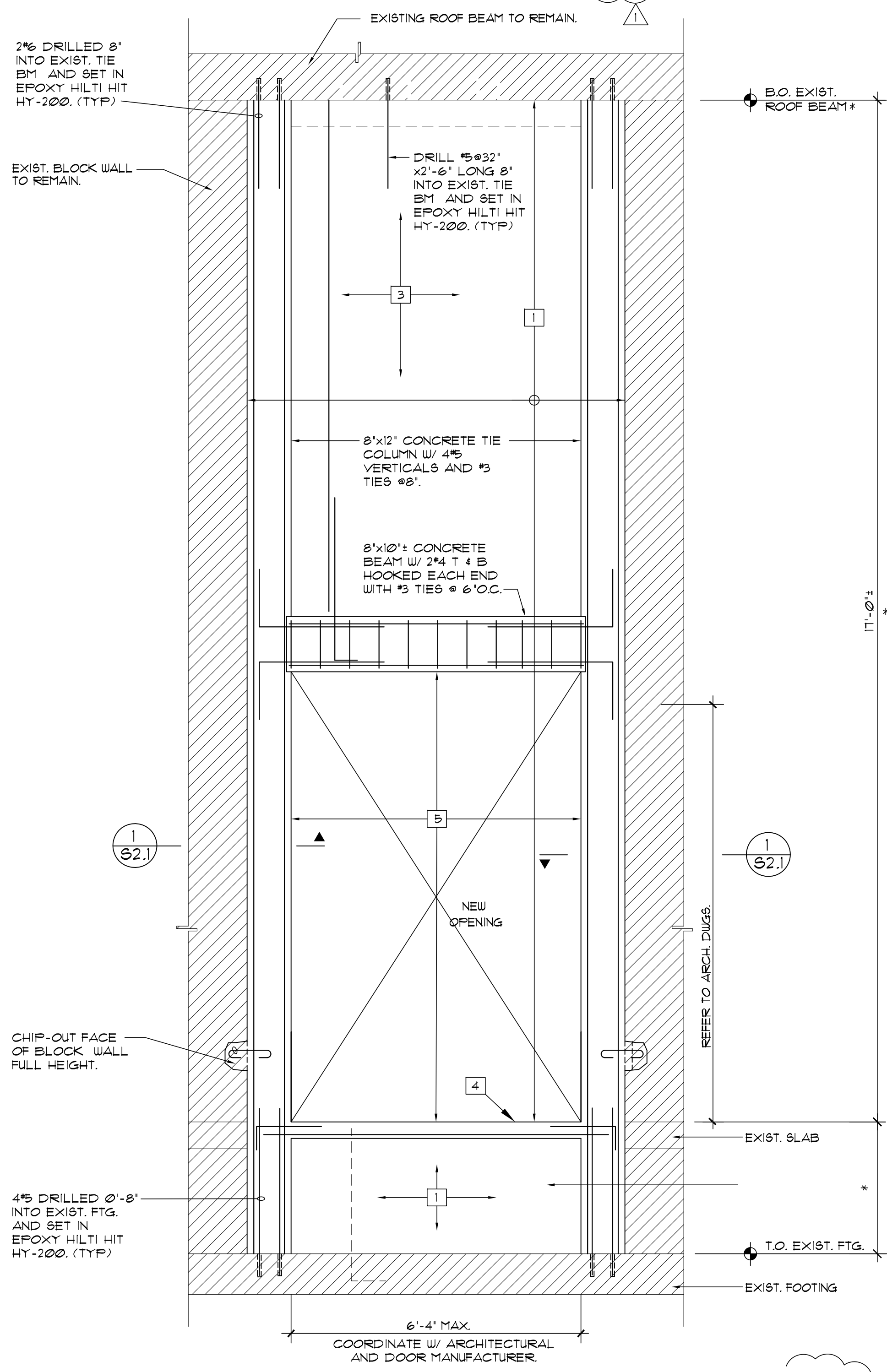
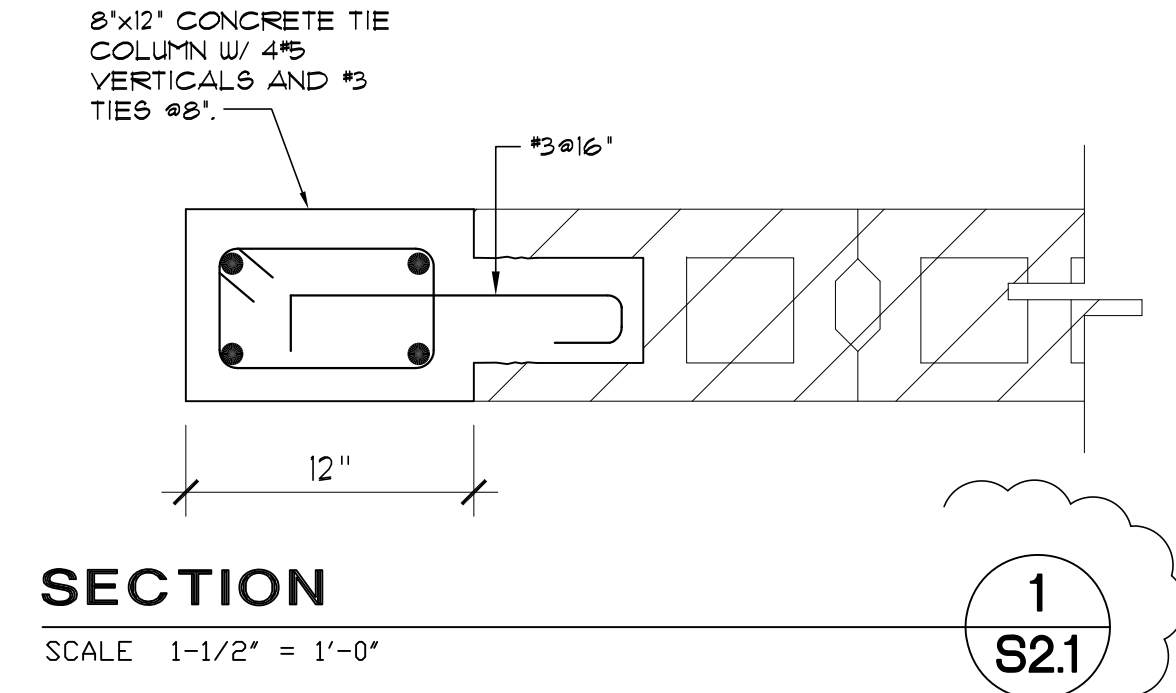
No.	REVISIONS - SUBMITTALS	DATE
Δ	BUILDING DEPARTMENT COMMENTS	4-26-19

PAGE No.	1	OF	6	SHEET No.	S1.0
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DETAIL A/S2.1 LEGEND:

- 1 EXISTING MASONRY WALL TO BE REMOVED WITHOUT DAMAGING REMAINING STRUCTURE.
- 2 EXISTING MASONRY WALL TO REMAIN.
- 3 NEW MASONRY WALL REINFORCED WITH #5 @ 32" O.C. IN CELLS FILLED WITH CONCRETE.
- 4 NEW CONCRETE CAP WITH 2#4.
- 5 NEW OPENING. COORDINATE WITH ARCHITECTURAL DRAWINGS.

* FIELD VERIFY ALL DIMENSIONS PRIOR TO SUBMITTAL OF SHOP DRAWINGS OR FABRICATION.

- FOOTING SCHEDULE**
- | MARK | SIZE
L x W x D | REINFORCING | | REMARKS |
|-------|---------------------|--------------|----------|---------------------------------|
| | | LONGITUDINAL | TRANSV. | |
| FB Ø | 5'-0" x 5'-0" x 12" | 1 #5 BOT | 1 #5 BOT | |
| WF-20 | 20" x 12" | 2 #5 B. * | | * PROVIDE 30" x 30" CORNER BARS |
- COLUMN SCHEDULE**
- | MARK | SIZE | REINFORCING | | REMARKS |
|------|----------|-------------|----------------|---------|
| | | VERTICALS | #3 TIES U.O.N. | |
| TC | 8" x 24" | 6 #5 | @ 8" O.C. | |
- NOTES:**
1. ALL NEW SLAB ON GRADE CONSIST OF 4" CONC. SLAB REINFORCED WITH #6 @ 18" x 18" W/ 10 MIL VAPOR BARRIER ON WELL COMPACTED TREATED FILL TO 95% OF MAX. DENSITY (ASTM D1557). T.O. EL. 0'-0" = 40'-0" NGVD. (TYP. U.O.N.) SLAB ON GRADE IS NOT DESIGNED TO SUPPORT ANY HEAVY, EQUIPMENT OR VEHICULAR LOADS.
 2. ALL WALL FOOTINGS ARE WF-20 TYP. TOP OF FOOTINGS EL. -1'-4"
 3. ALL BLOCK WALLS AND BLOCK WALL BELOW AND ABOVE WINDOWS ARE REINFORCED W/ #5 @ 32" O.C. IN CELLS FILLED WITH GROUT AND #3 GA. HORIZONTAL REINF. LADDER TYPE AT 16" O.C. SEE TYPICAL REINFORCING MASONRY DETAILS ON 85.1 FOR ADDITIONAL REINFORCING EACH SIDE OPENING AT CORNERS AND INTERSECTIONS, TYPICAL U.O.N.
 4. CENTER LINE OF WALLS IS FOOTING CENTER LINE (TYPICAL)
 5. SEE STRUCTURAL NOTES ON 81.0.
 6. C.B. DENOTES 2 #3 @ 4" O.C. x 3'-0" LONG TOP. (HOOKED BARS AT T.E.)
 7. COORDINATE ALL DIMENSIONS AND DETAILS WITH ARCHITECTURAL DRAWINGS AND FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.

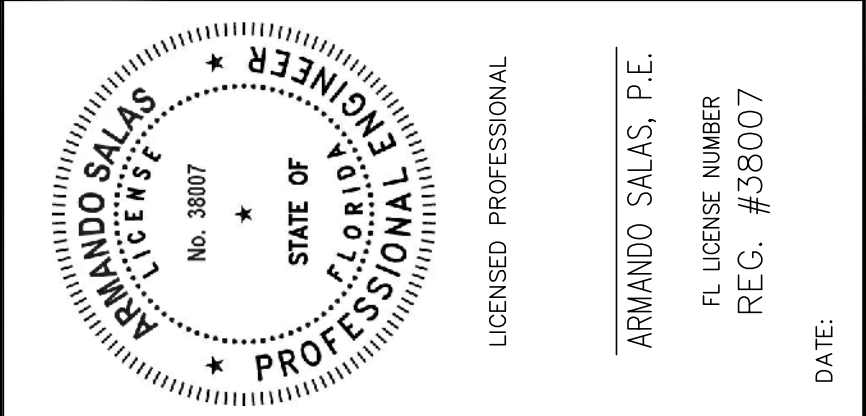
NEW DOOR 105 OPENING AT EXISTING STORAGE BUILDING
SEE ARCHITECTURAL FOR LOCATION.

SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



PBA FERN ISLE PARK REDEVELOPMENT
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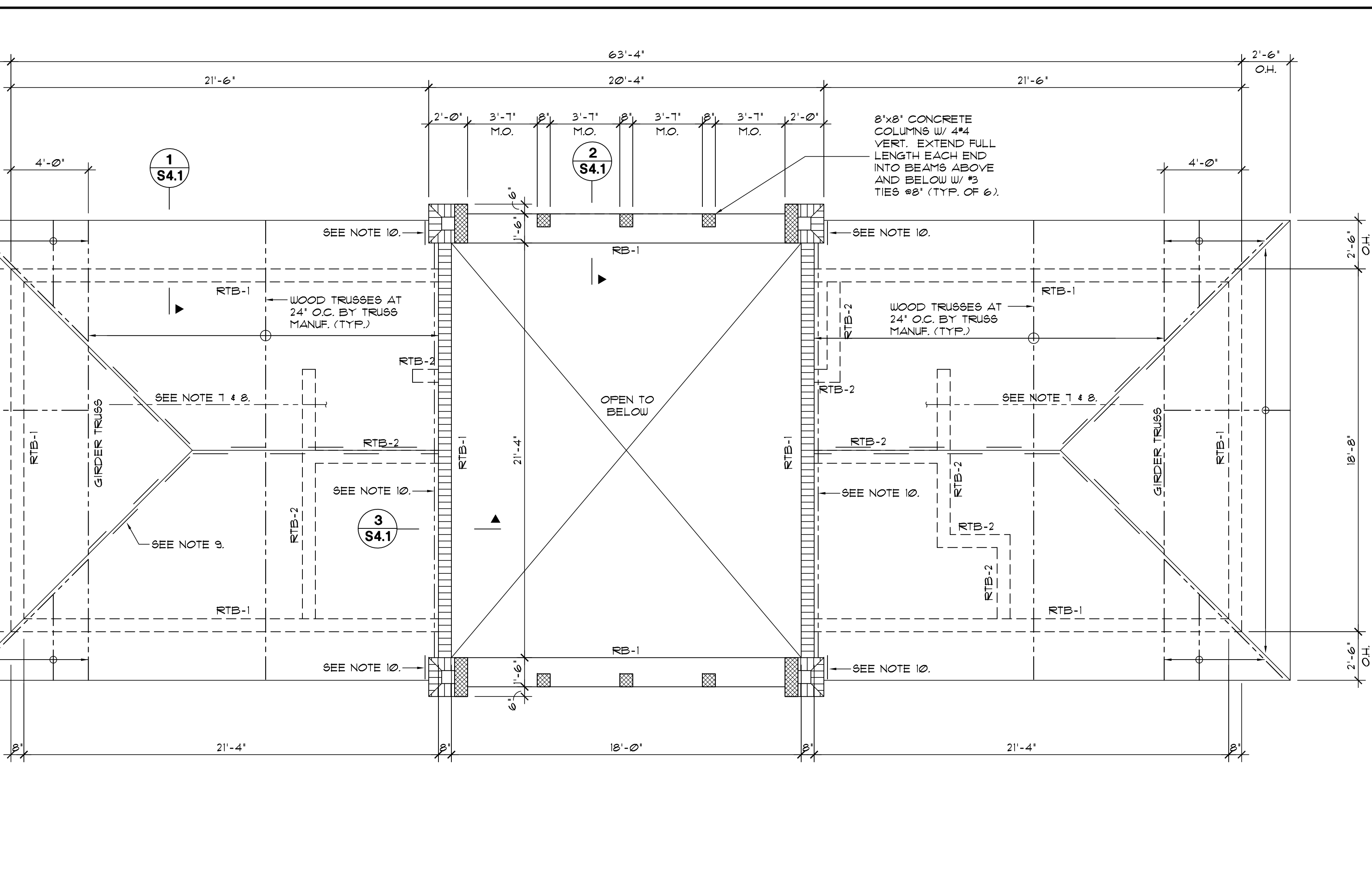
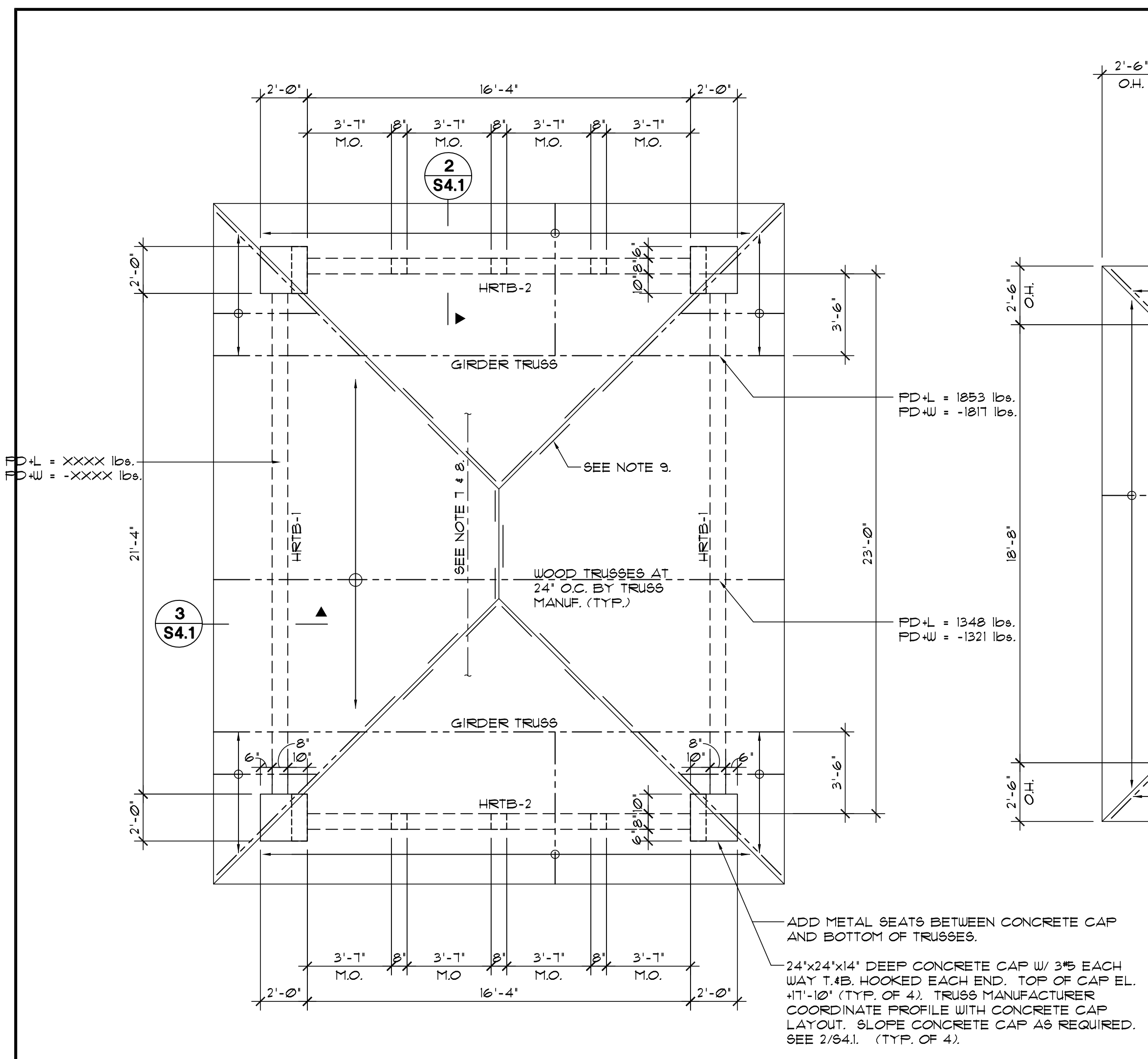
FOUNDATION PLAN



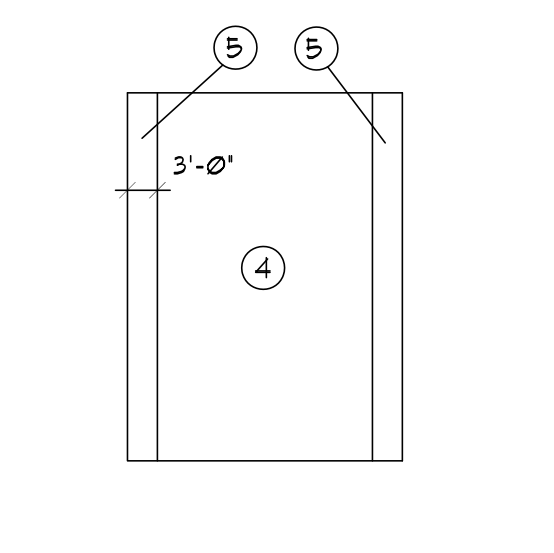
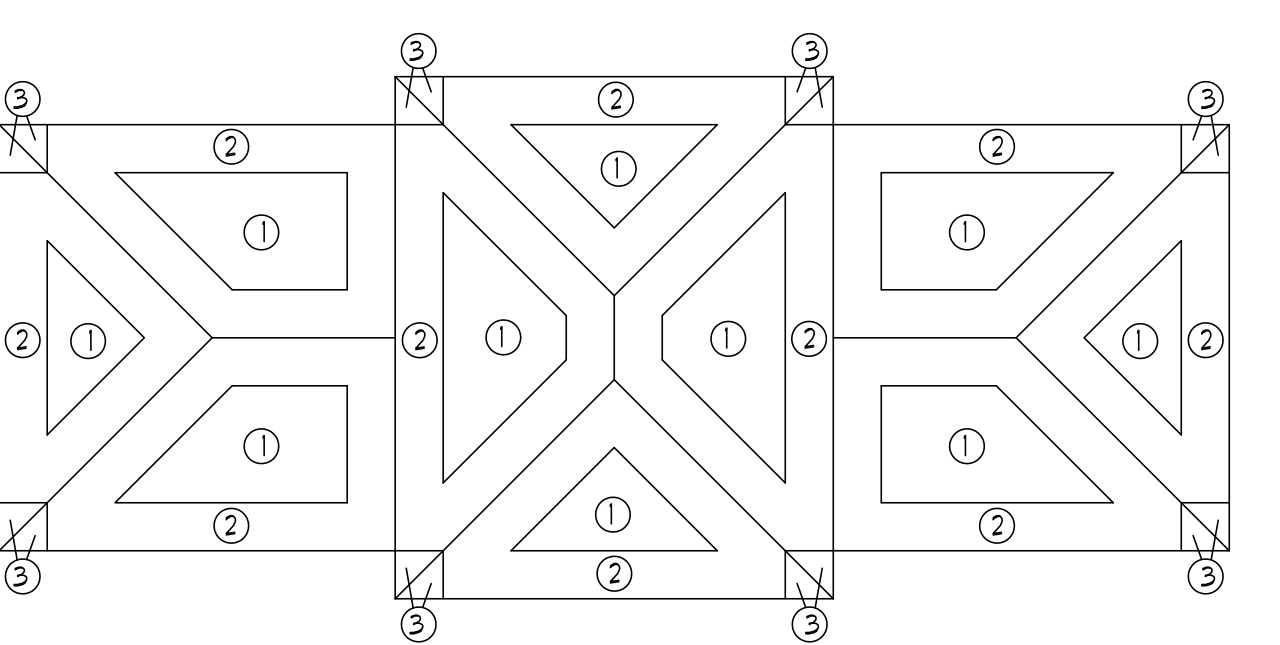
No.	REVISIONS - SUBMITTALS	DATE
1	BUILDING DEPARTMENT REVISION	1-31-19



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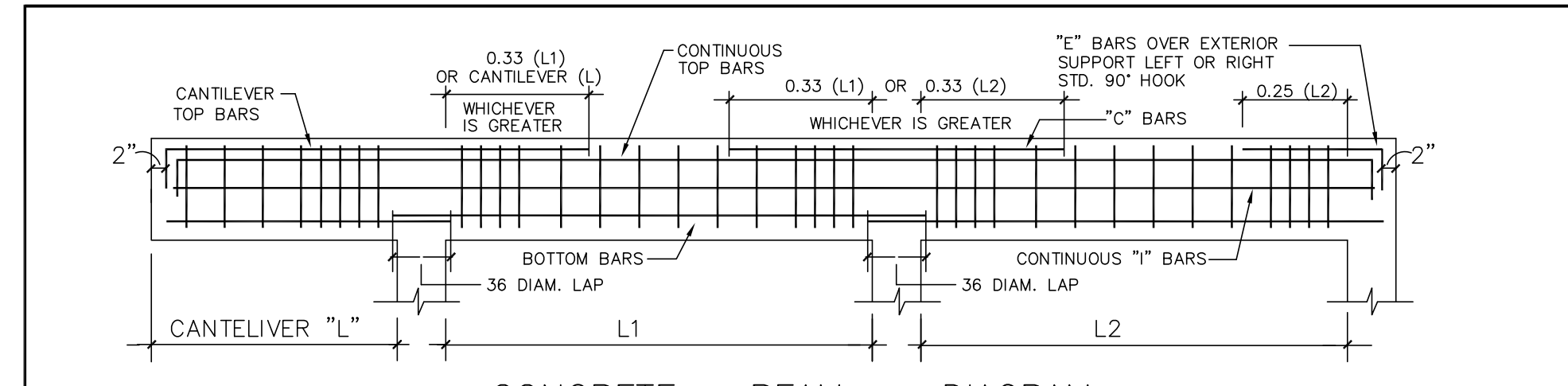


HIGH ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"



TOTAL GROSS WIND LOAD FOR COMPONENTS AS PER ANSI/ASCE 7-10				
ZONE	GROSS ROOF UPLIFT			
	TRIBUTARY AREA			
	10 SF. OR LESS			100 SF. OR MORE
①	-54 PSF, +33 PSF			-50 PSF, +32 PSF
②	-84 PSF, +33 PSF			-65 PSF, +32 PSF
③	-111 PSF, +33 PSF			-95 PSF, +32 PSF
	WALL WIND LOAD			
	TRIBUTARY AREA			
	≤ 10 SF.	20 SF.	50 SF.	100 SF.
④	+58, -61 PSF	+56, -60 PSF	+54, -57 PSF	+51, -55 PSF
⑤	+58, -73 PSF	+56, -68 PSF	+54, -63 PSF	+51, -60 PSF

NOTES:
1. INTERPOLATE FOR INTERMEDIATE VALUES OF TRIBUTARY AREA
2. WIND CRITERIA
ASCE 7-10, CHAPTER 26 BASIC WIND SPEED 115 M.P.H.
EXPOSURE/GROUND ROUGHNESS: C
Kd = 0.85
ALL WIND LOADS SHOWN ARE WORKING LEVEL LOADS.



CONCRETE BEAM SCHEDULE

MARK	ELEV. TOP OF BEAM	SIZE W D	REINFORCING BOTT. TOP	C	E	I	#3 TIES (U. O. N.) SPACING EACH END	REMARKS
RB-1	+13'-2"	18' 20'	3#6 3#5			2#5	3#6' BAL. @8'	
RTB-1	+10'-4"	8' 12'	2#5 2#5				4#12' BAL. @48'	
RTB-2	+10'-3"	8' 11'	2#5 2#5				4#12' BAL. @48'	
HRTB-1	+11'-10"	8' 14'	2#5 2#5				4#12' BAL. @48'	
HRTB-2	+11'-10"	8' 28'	2#5 2#5			2#5	4#12' BAL. @48'	

CONCRETE BEAM SCHEDULE

MARK	ELEV. TOP OF BEAM	SIZE W D	REINFORCING BOTT. TOP	C	E	I	#3 TIES (U. O. N.) SPACING EACH END	REMARKS
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RTB-2	+10'-3"	8' 11'	2#5 2#5				4#12' BAL. @48'	
HRTB-1	+11'-10"	8' 14'	2#5 2#5				4#12' BAL. @48'	
HRTB-2	+11'-10"	8' 28'	2#5 2#5			2#5	4#12' BAL. @48'	

LOW ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

- LOW AND HIGH ROOF NOTES:
- ROOF DECK CONSISTS OF 5/8" EXTERIOR TYPE CDX PLYWOOD SHEATHING NAILED TO TRUSSES, FASCIA AND BLOCKING W/ #8 RING SHANK NAILS @ 6" O.C.
 - WOOD TRUSSES ARE CONNECTED TO ROOF TIE BEAM WITH A HEAVY DUTY METAL SEAT AND DBL. STRAP NV474-244 (HEAVY DUTY ANCHORS WITH 14 GA. DOUBLE STRAP NV4788 AND 20 GA. METAL SEAT) BY NU-VUE INDUSTRIES, INC. WITH 6-10d x 1/2" NAILS THRU SEAT PLATE AND 18-10d x 1 1/2" NAILS THRU STRAPS (9-10d NAILS THRU EACH STRAP) ACCEPTANCE No. 13-020617.
 - SUPERIMPOSED LOADS: LL = 30 PSF, DL = 25 PSF
NET UPLIFT = GROSS UP LIFT - 10 PSF.
 - COORDINATE ALL DIMENSIONS AND DETAILS WITH ARCHITECTURAL DRAWINGS.
 - SEE STRUCTURAL NOTES ON 510.
 - SOFFIT AT OPEN VESTIBULE AND OVERHANG CONSISTS OF 5/8" EXTERIOR TYPE PLYWOOD NAILED TO EACH TRUSS BOTTOM CHORD W/ #8 NAILS @8'.
 - 2-x4 CONT. BOTTOM CHORD BRIDGING @10'-0" O.C. NAILED TO EACH TRUSS W/ 2-16d NAILS.
 - 2-x4 CROSS BRACING (45°) AT EACH BRIDGING LINE AND AT 10'-0" O.C. MAX. ALONG THE BRIDGING NAILED TO EACH TRUSS AND BRIDGING WITH 2-16d NAILS.
 - 2-x4 RIDGE BLOCKING STAGGERED NAILED TO EACH TRUSS WITH 2-16d NAILS.

ARMANDO SALAS, P.E.
FLORIDA PROFESSIONAL ENGINEER
LICENSED PROFESSIONAL
FL. LICENSE NUMBER REC. #38007

SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

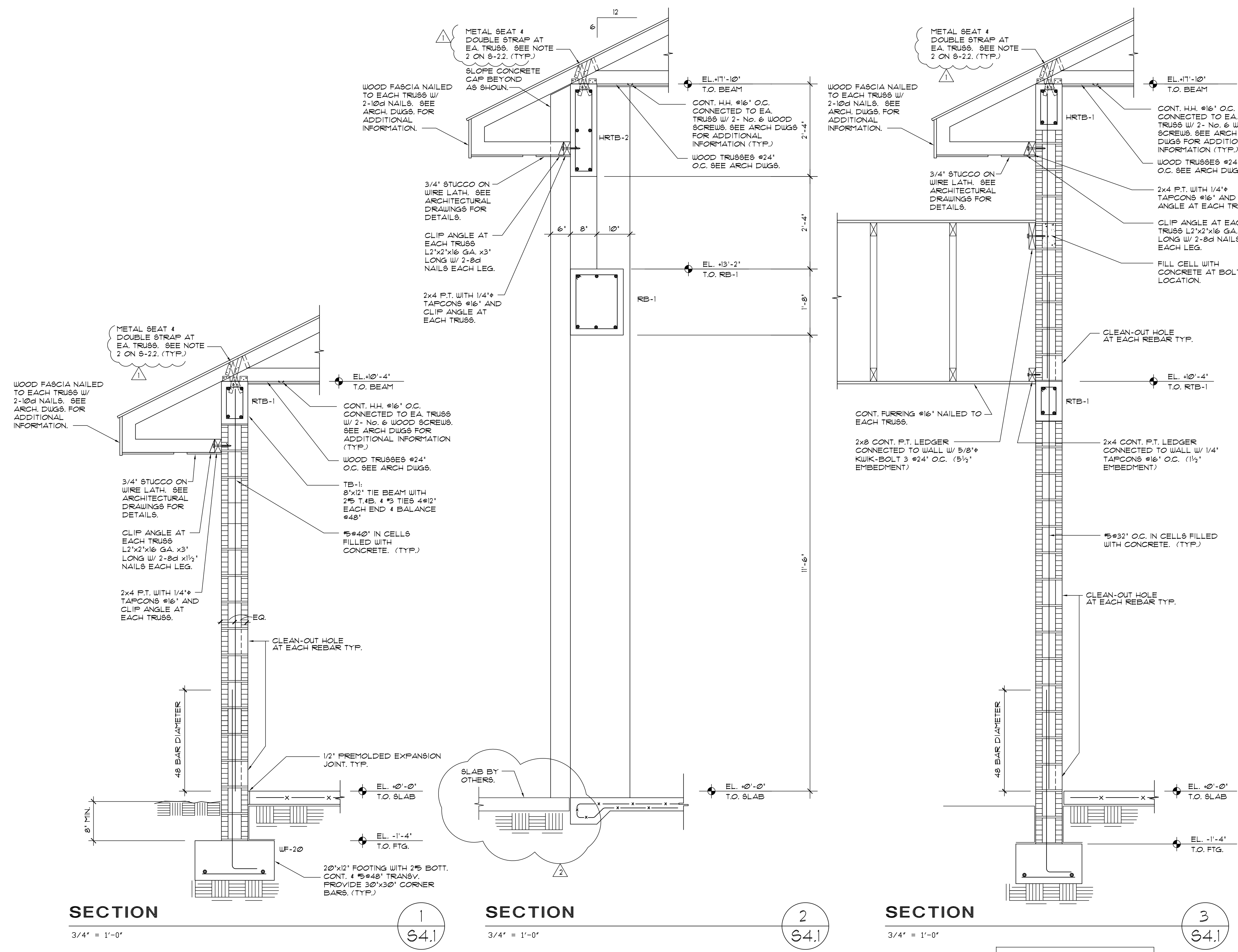
ROOF FRAMING PLAN

SHEET TITLE:

ARMANDO SALAS, P.E.
FLORIDA PROFESSIONAL ENGINEER
LICENSED PROFESSIONAL
FL. LICENSE NUMBER REC. #38007

No.	REVISIONS - SUBMITTALS	DATE

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SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

SECTIONS

SHEET TITLE:

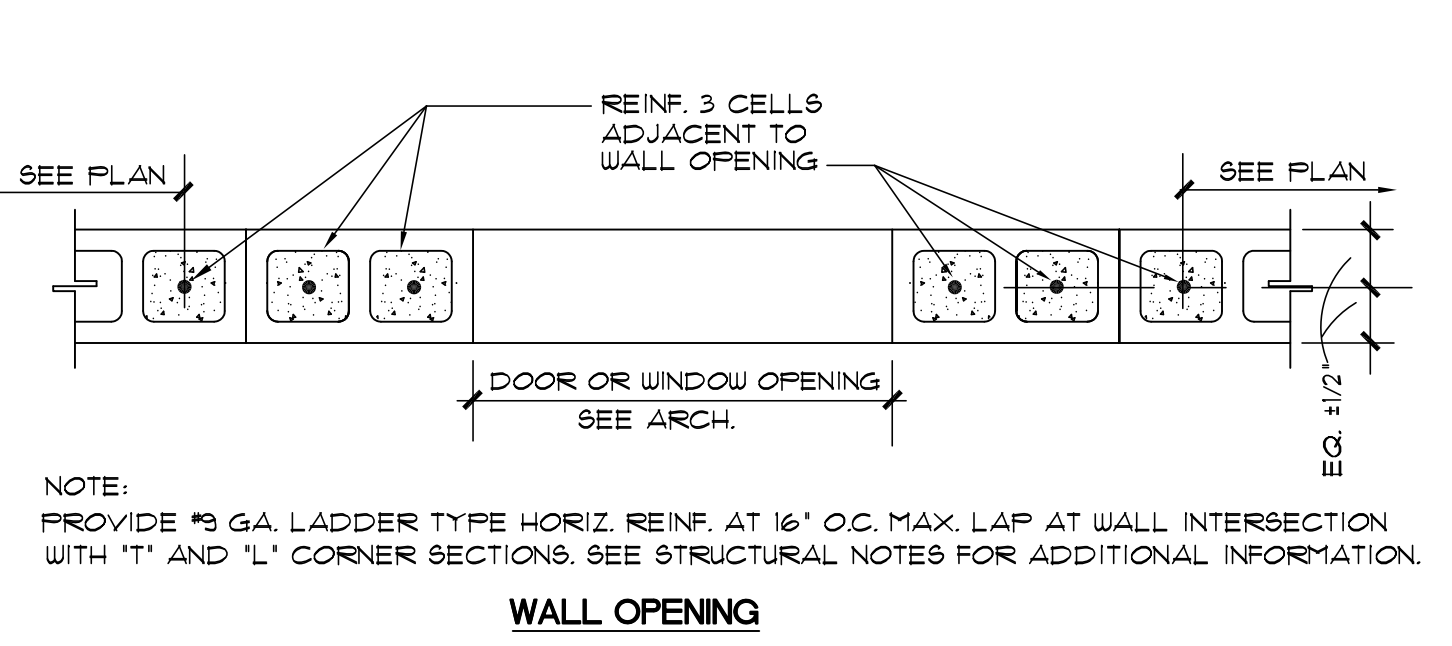
LICENSED PROFESSIONAL ENGINEER
 ARMANDO SALAS, P.E.
 FL LICENSE NUMBER: 38007
 REG. #38007

No.	REVISIONS - SUBMITTALS	DATE
1	BUILDING DEPARTMENT REVISION	1-31-19
2	BUILDING DEPARTMENT COMMENTS	4-26-19

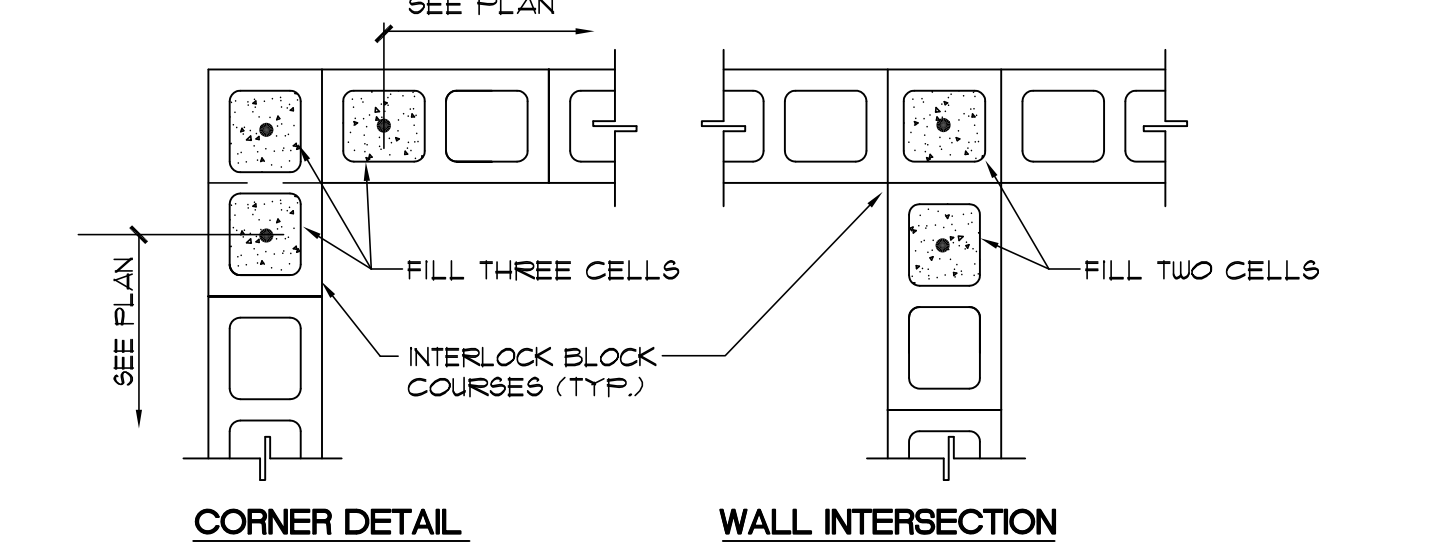


LUIS M. RODRIGUEZ PE No. 22132
 ARMANDO SALAS PE No. 38007

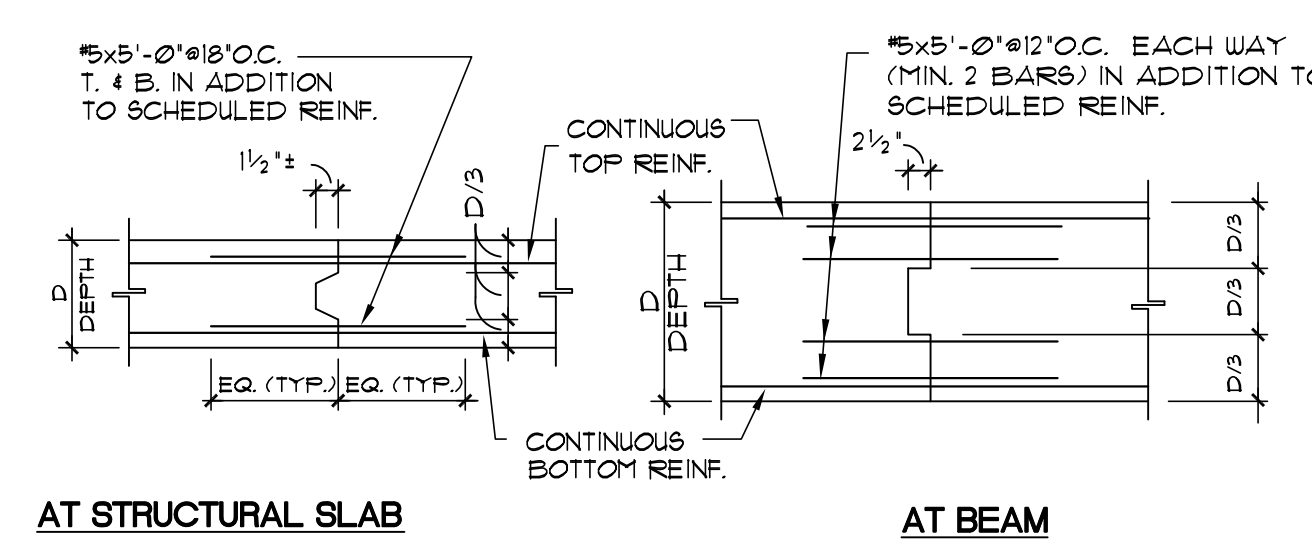
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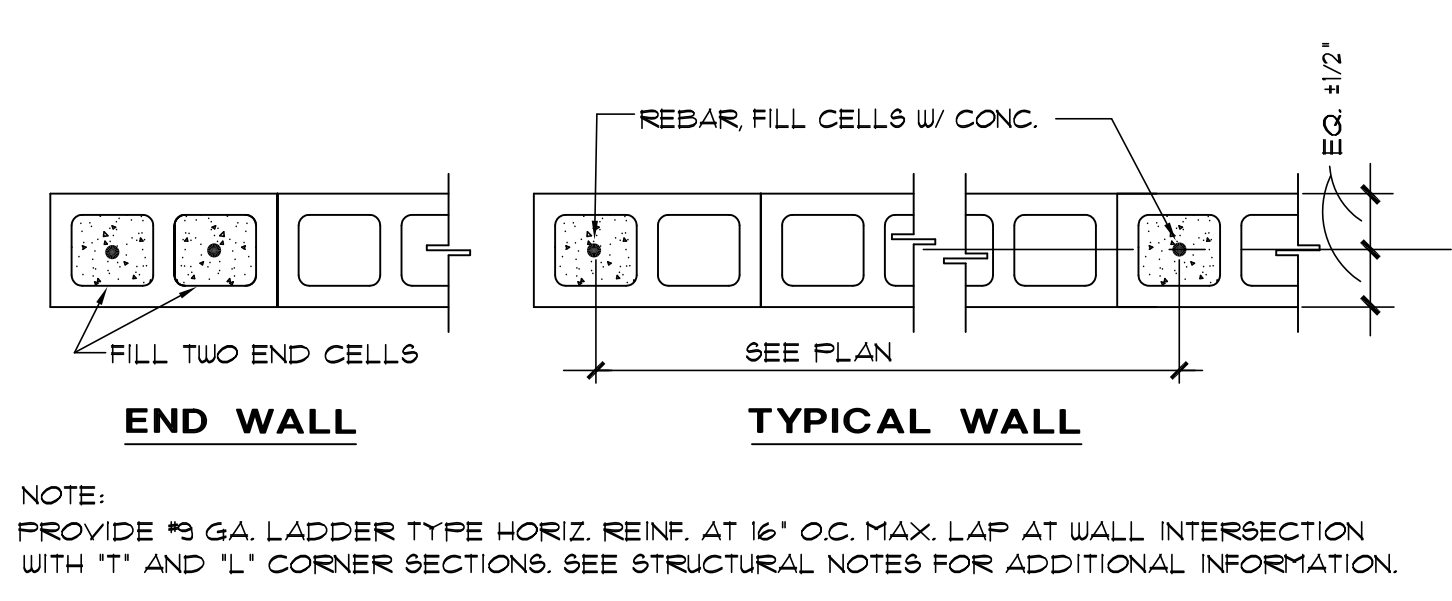
TYPICAL 8" REINFORCED MASONRY WALL DETAILS
N.T.S.



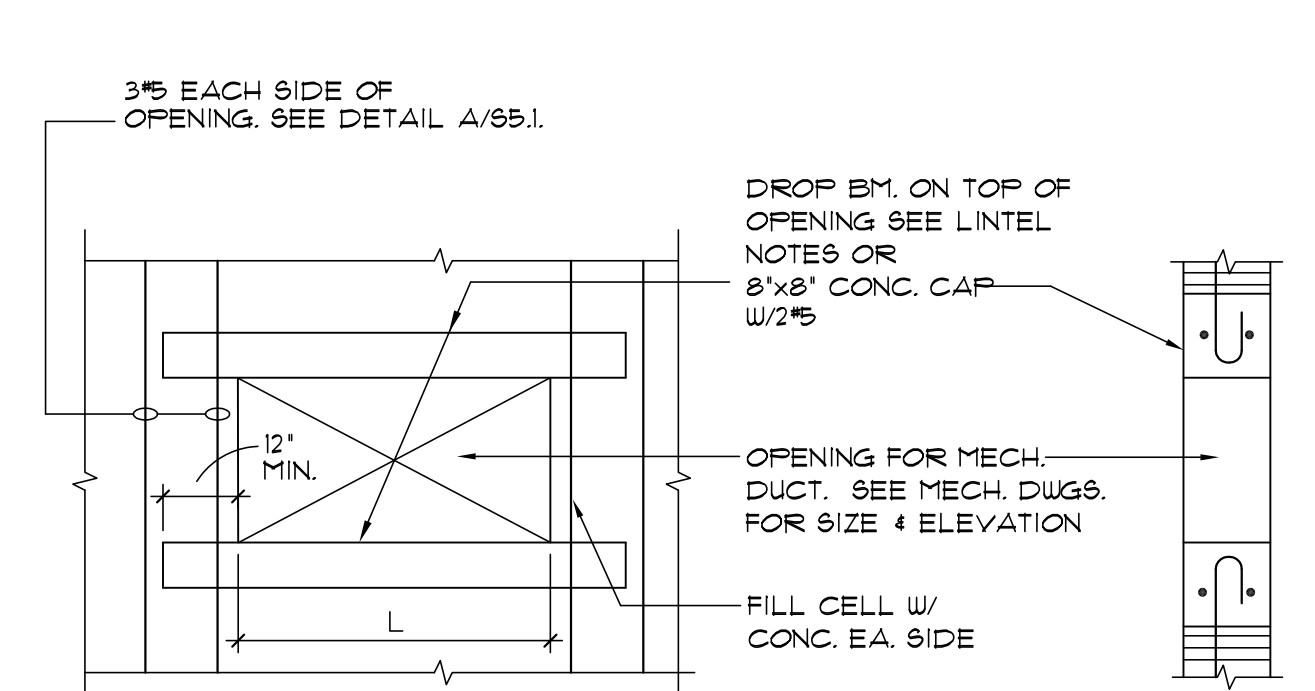
TYPICAL SLAB OPENING REINFORCING DETAIL
NOT TO SCALE



TYPICAL CONSTRUCTION JOINT DETAIL
NOT TO SCALE

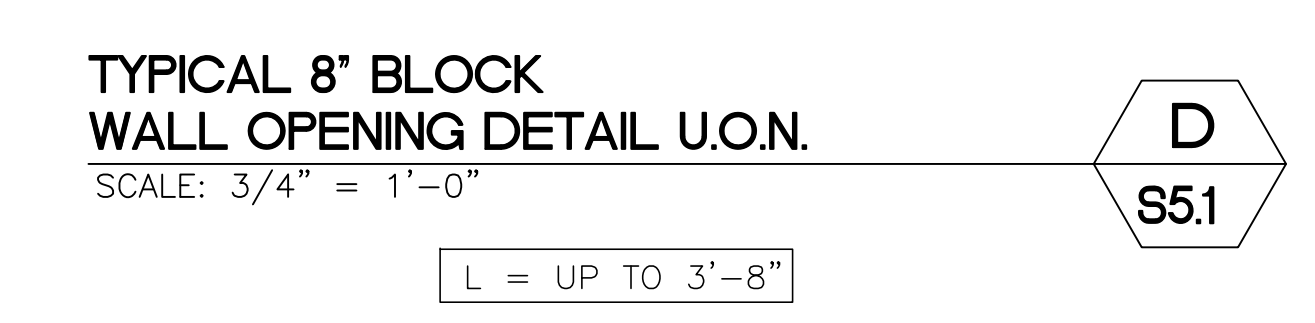


TYPICAL 8" BLOCK WALL OPENING DETAIL U.O.N.
SCALE: 3/4" = 1'-0"

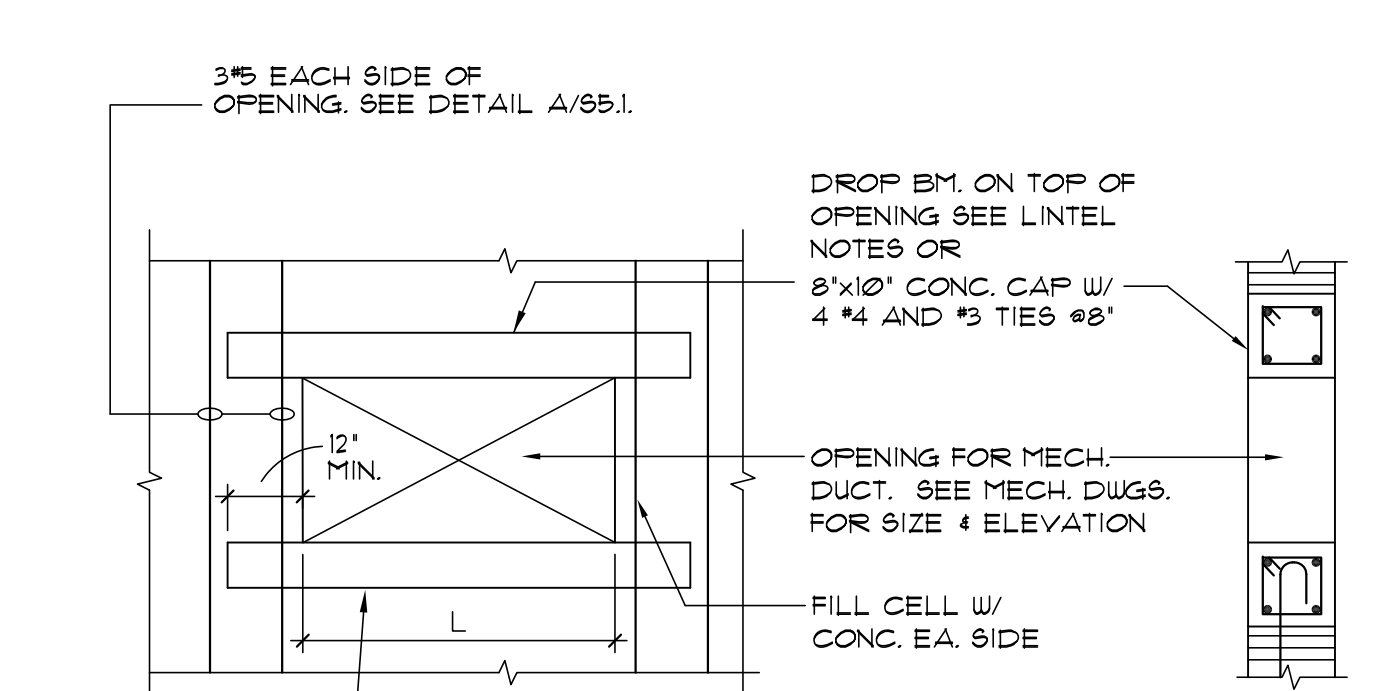


TYPICAL 8" BLOCK WALL OPENING DETAIL U.O.N.
SCALE: 3/4" = 1'-0"

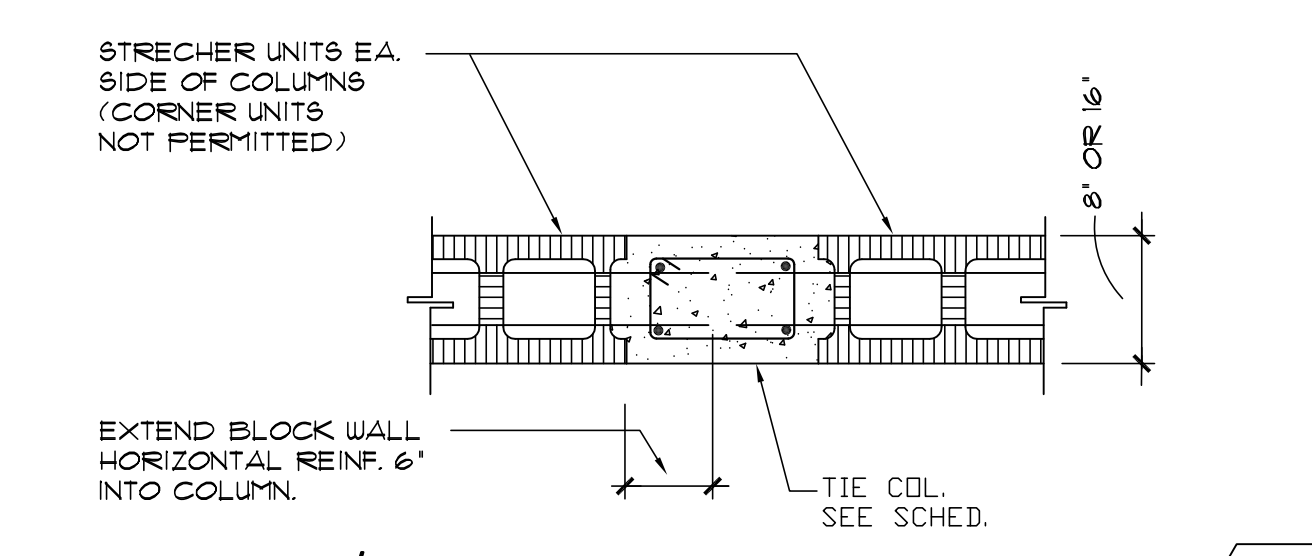
- NOTES:**
- KEYWAYS SHALL BE CONTINUOUS.
 - REIN. SHALL BE CONT. THRU CONST. JOINT.
 - LOCATION OF JOINTS SHALL BE WITHIN MIDDLE THIRD OF SPAN U.O.N. DO NOT PLACE JOINTS IN FIRST SPANS.
 - CLEAN CONC. SURFACE AT ALL JOINTS THOROUGHLY AND REMOVE ALL LAITANCE PRIOR TO PLACING ADJOINING CONC.
 - WET BLAST HARDENED CONCRETE OF CONST. JOINTS IMMEDIATELY PRIOR TO PLACING OF FRESH CONCRETE. REMOVE STANDING WATER.
 - CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS OF CONSTRUCTION JOINTS TO ENGINEER OFFICER FOR REVIEW PRIOR TO PLACING CONCRETE.



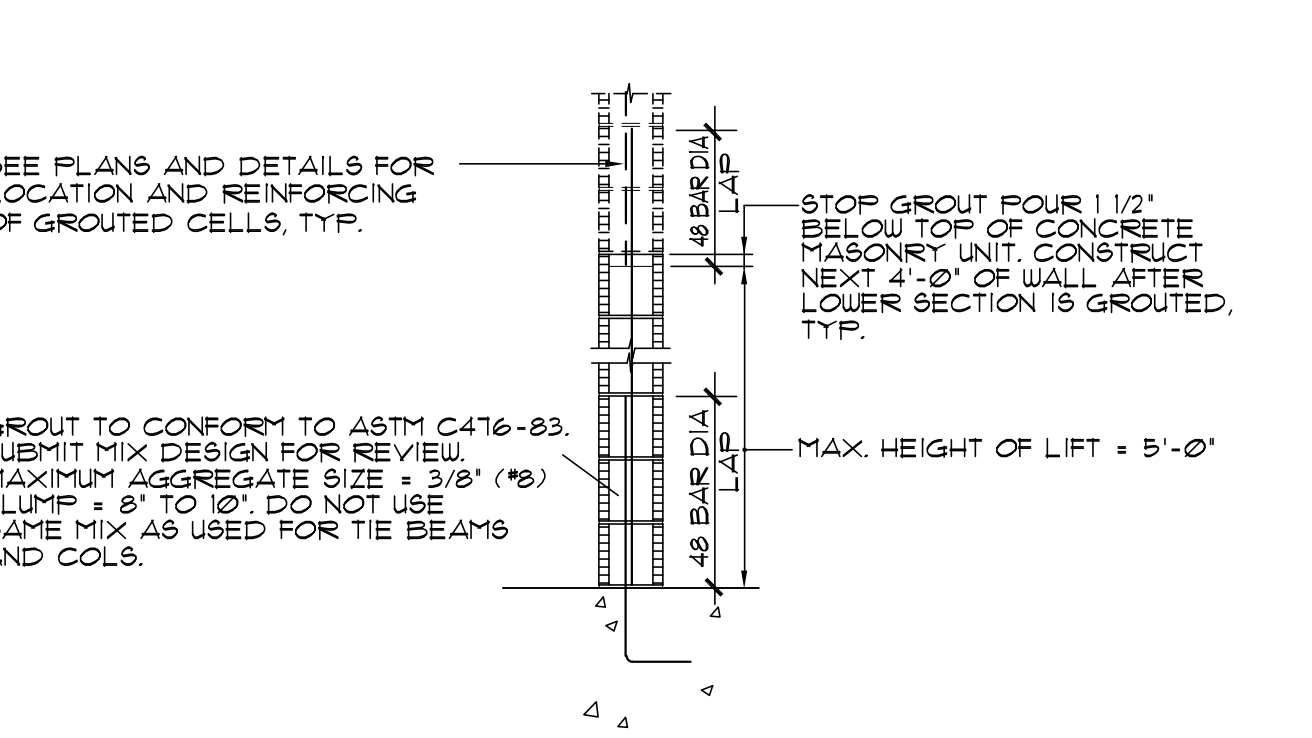
TYP. PIPING SLEEVES OR CONDUIT PENETRATIONS AT SLAB, BEAM OR WALL DETAIL
N.T.S. (NOT ALLOWED FOR SLAB LESS THAN 5 1/2" THICK)



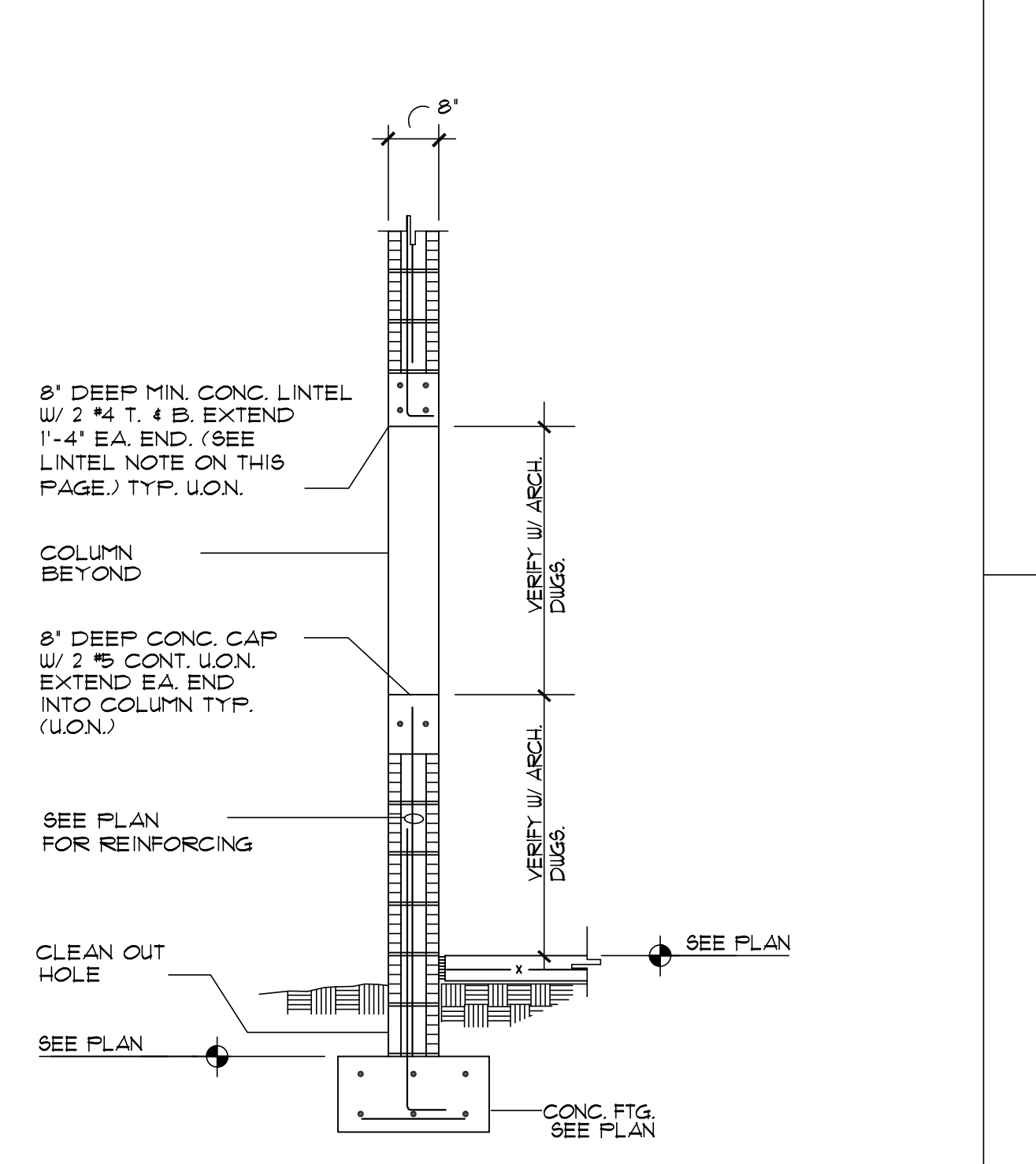
TYPICAL HIGH LIFT GROUTING TECHNIQUE DETAIL
N.T.S.



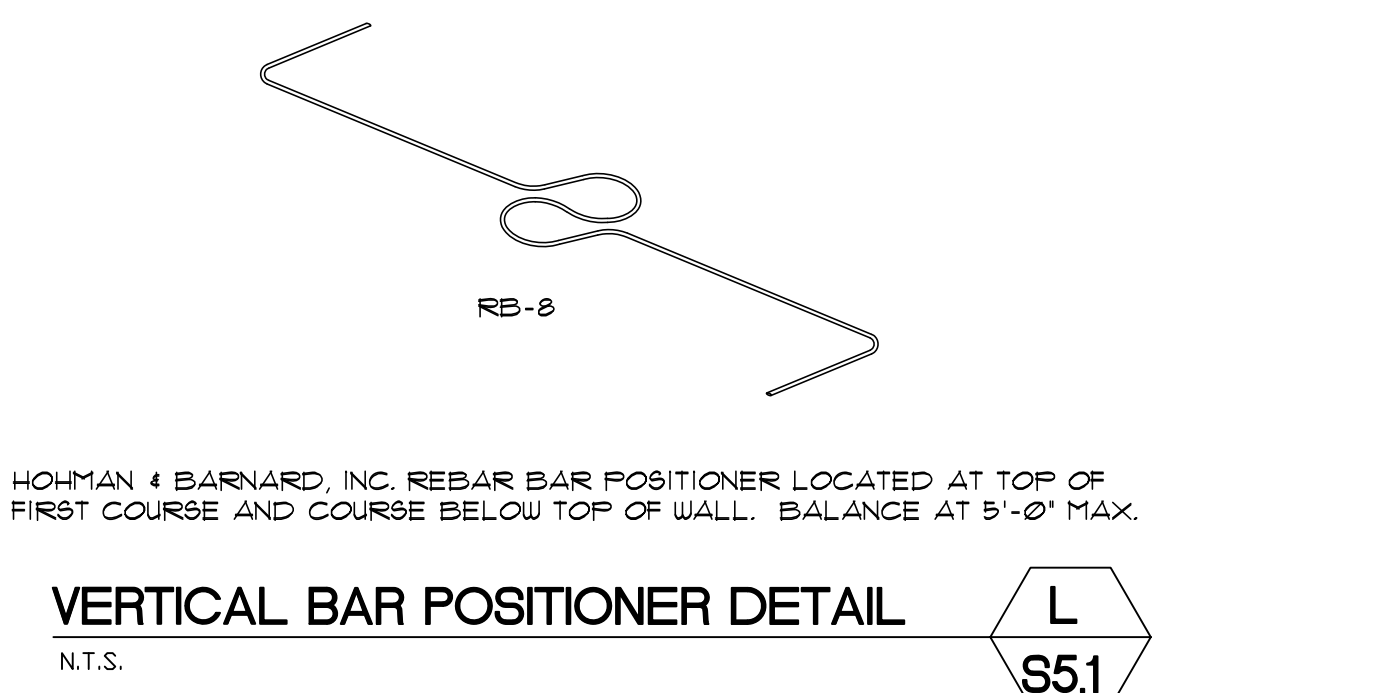
BLOCK WALL/TIE COLUMN DETAIL
N.T.S.



TYPICAL LOW LIFT GROUTING TECHNIQUE DETAIL
(NO CLEAN OUT REQUIRED)
N.T.S.

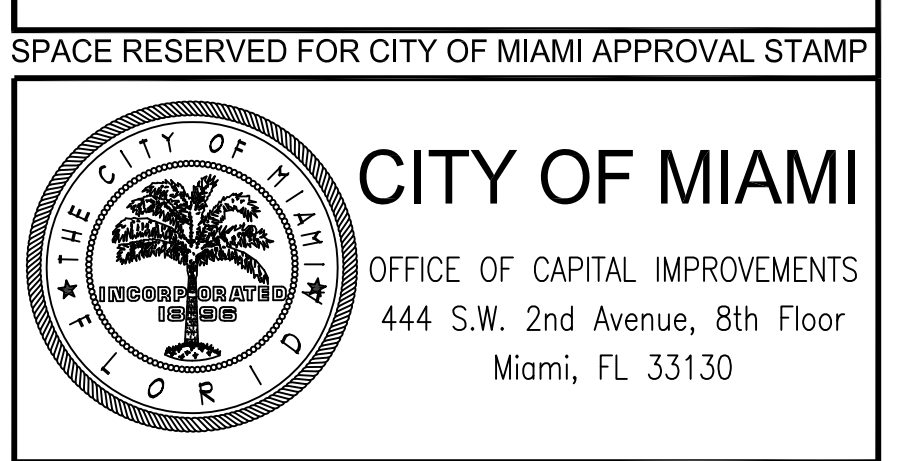


SECTION THRU TYPICAL WINDOW (U.O.N.)
N.T.S.



TIE BEAM DETAIL (U.O.N.)
N.T.S.

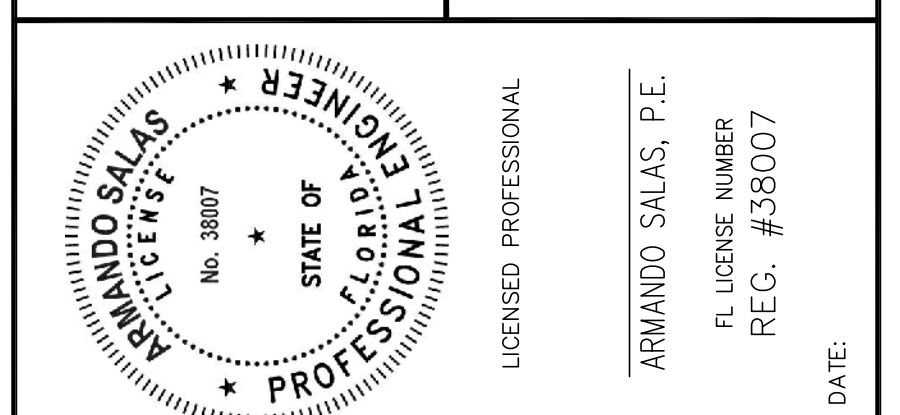
SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



PBA FERN ISLE PARK REDEVELOPMENT
 CITY OF MIAMI, PROJECT NO. B-40543
 2304 N.W. 14TH STREET, MIAMI, FL 33125

TYPICAL DETAILS

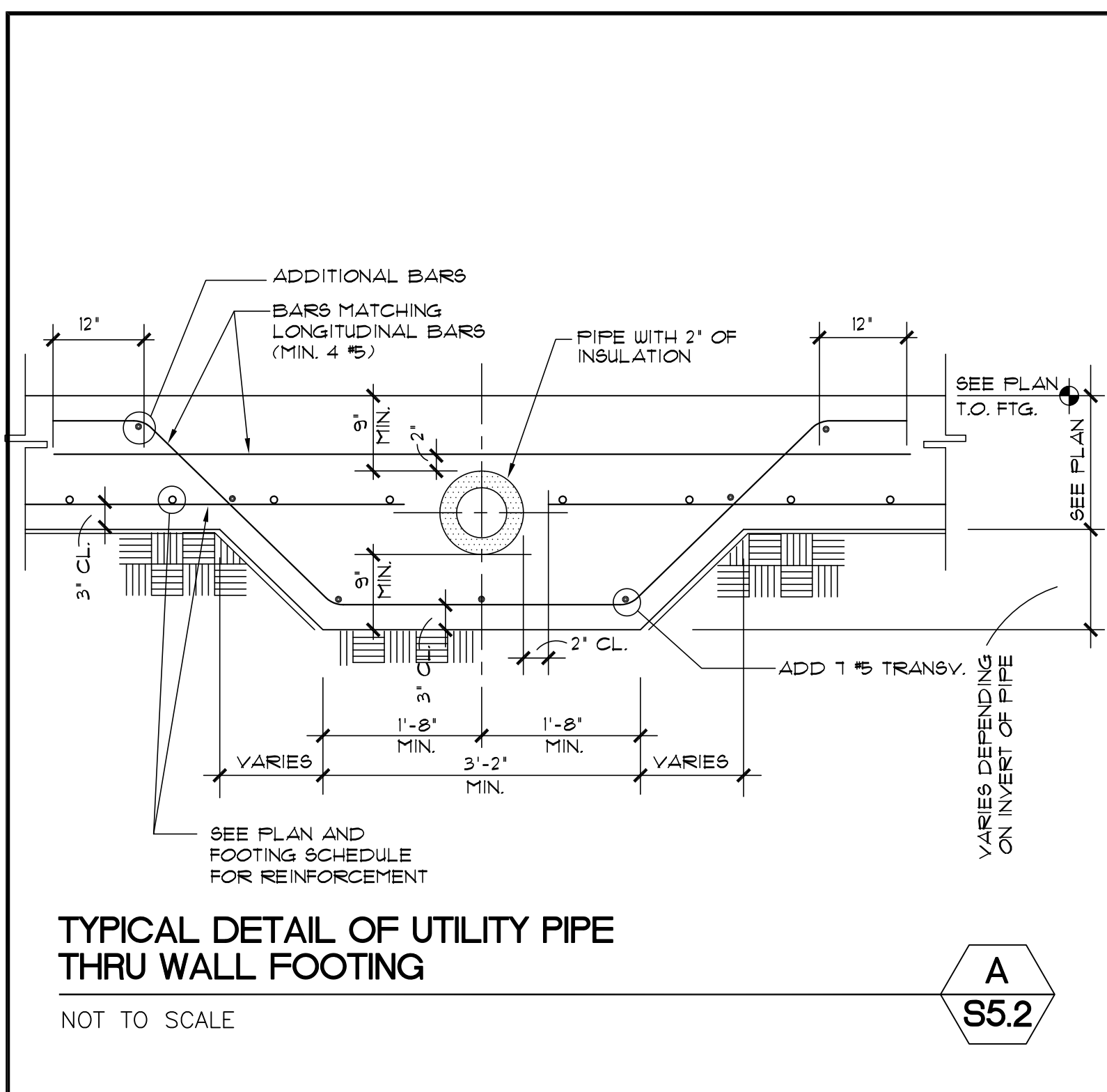
SHEET TITLE:



No.	REVISIONS - SUBMITTALS	DATE



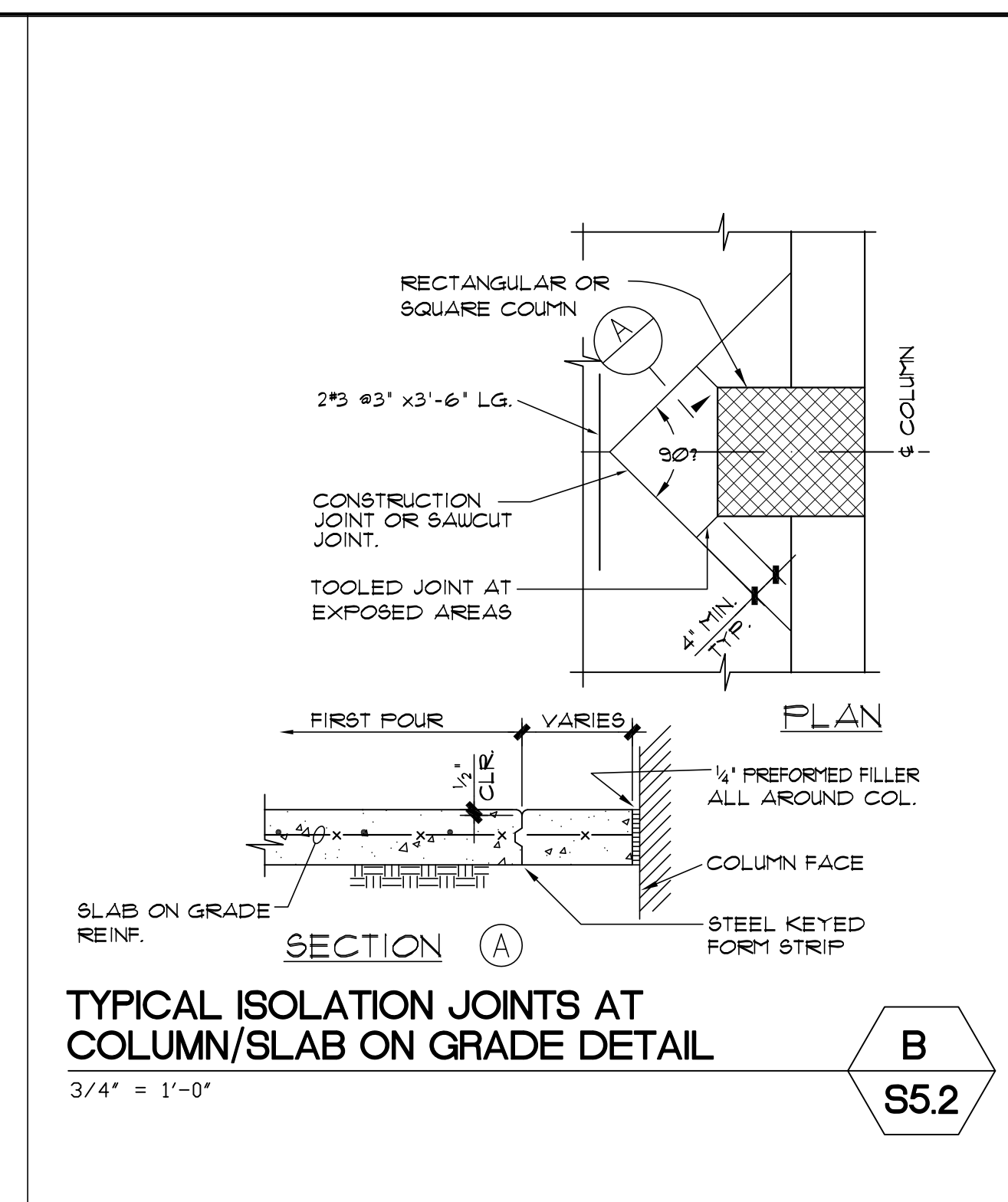
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TYPICAL DETAIL OF UTILITY PIPE THRU WALL FOOTING

NOT TO SCALE

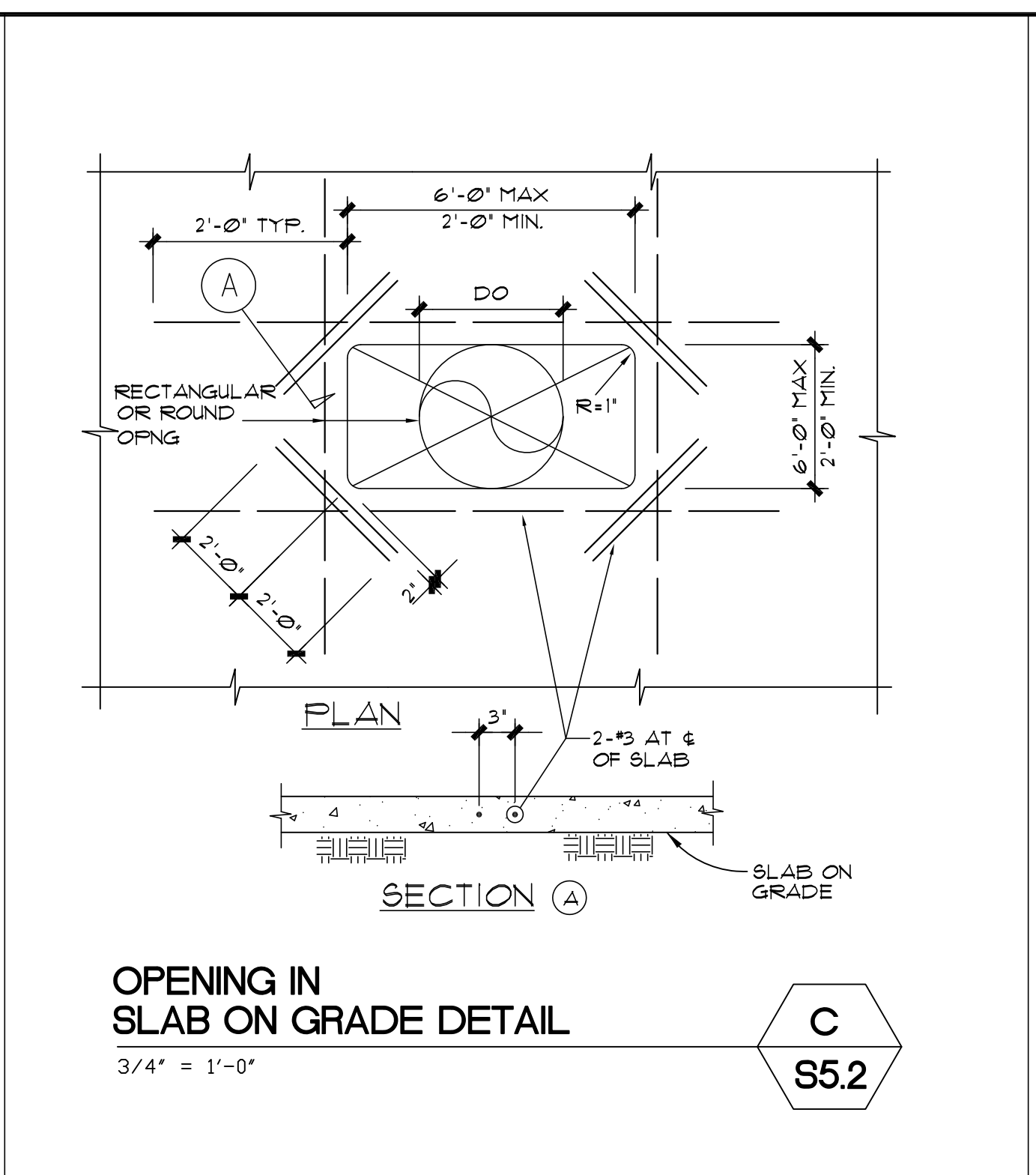
A
S5.2



TYPICAL ISOLATION JOINTS AT COLUMN/SLAB ON GRADE DETAIL

3/4" = 1'-0"

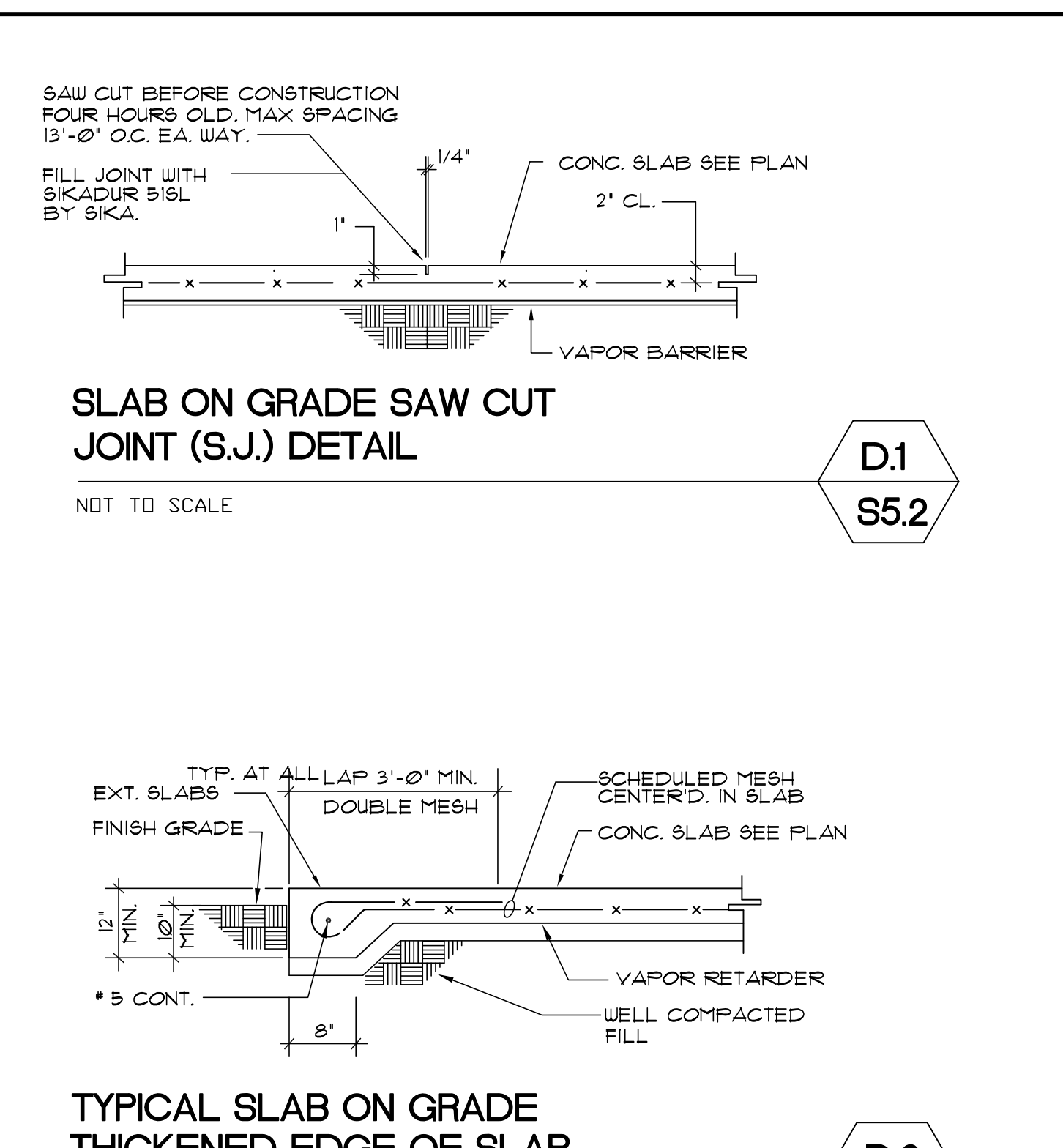
B
S5.2



OPENING IN SLAB ON GRADE DETAIL

3/4" = 1'-0"

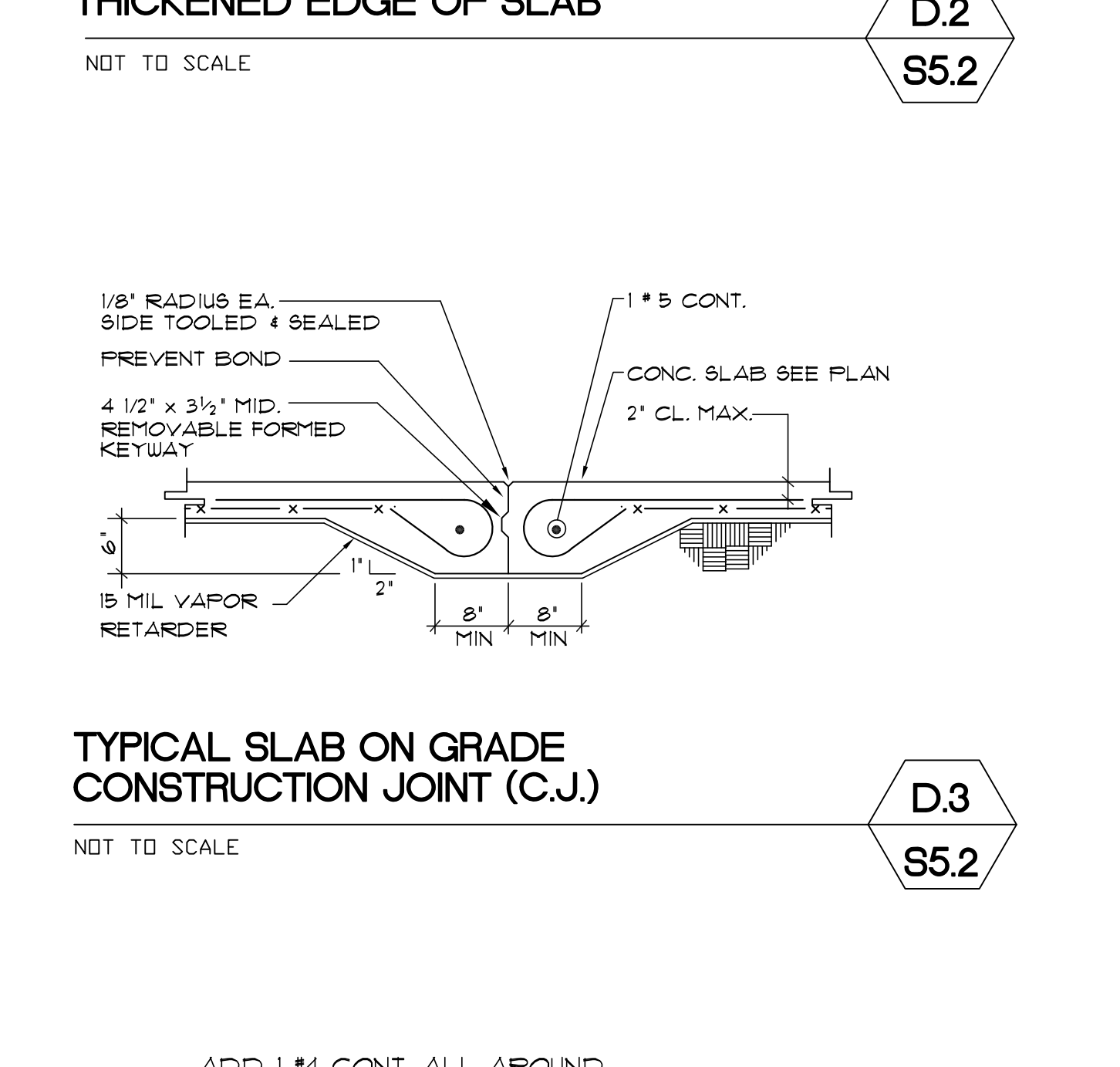
C
S5.2



SLAB ON GRADE SAW CUT JOINT (S.J.) DETAIL

NOT TO SCALE

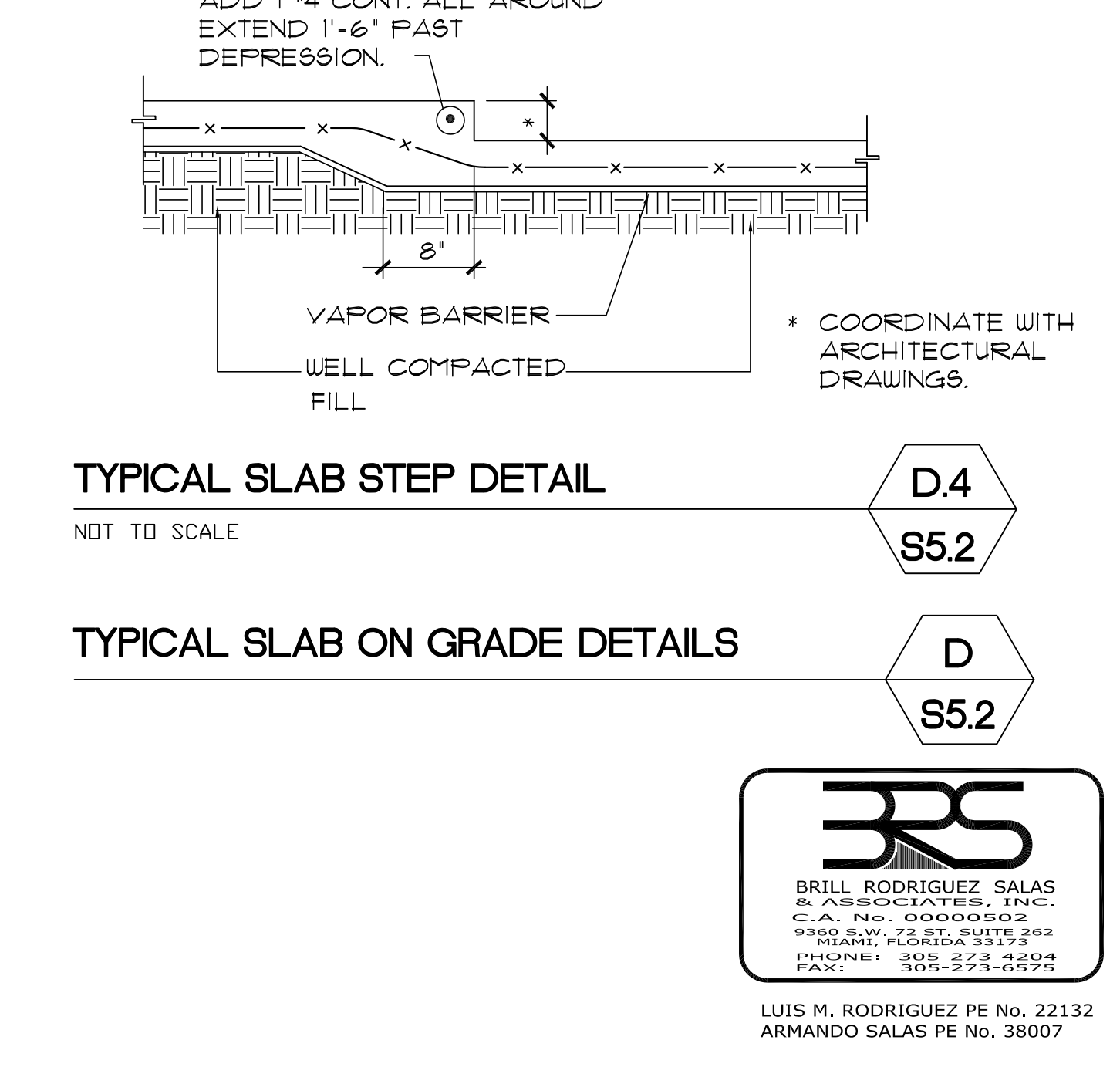
D1
S5.2



TYPICAL SLAB ON GRADE THICKENED EDGE OF SLAB

NOT TO SCALE

D2
S5.2



TYPICAL SLAB ON GRADE CONSTRUCTION JOINT (C.J.)

NOT TO SCALE

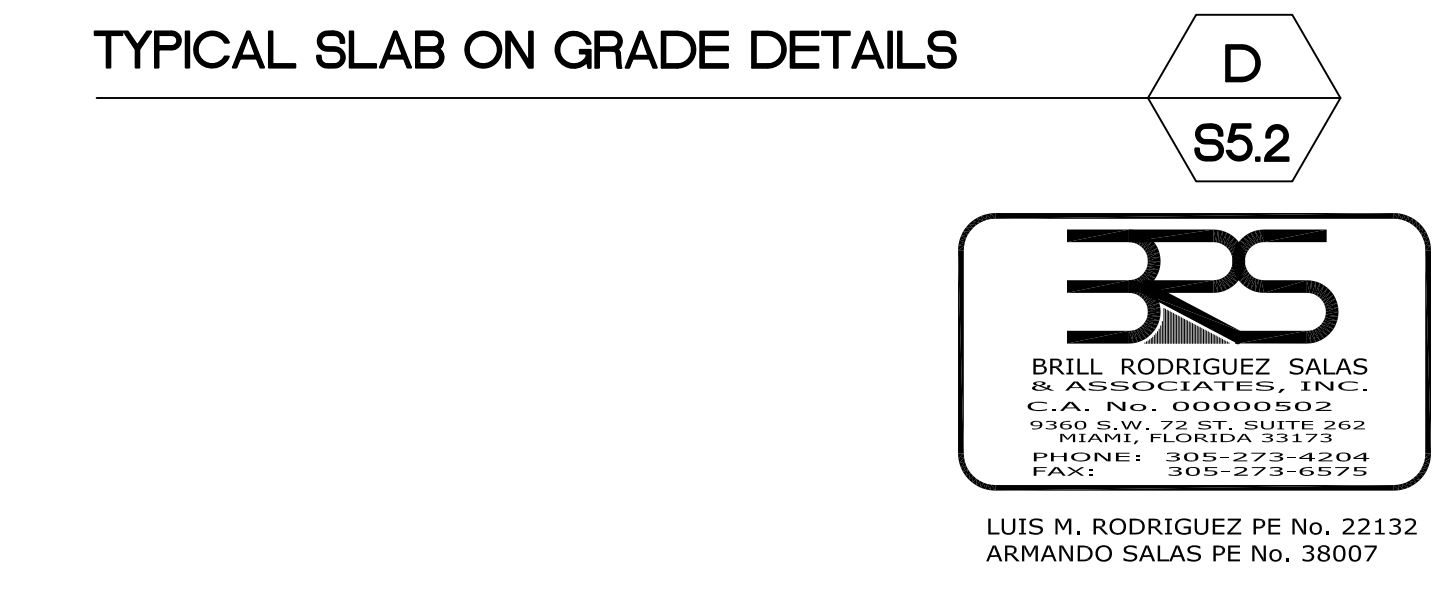
D3
S5.2



TYPICAL SLAB STEP DETAIL

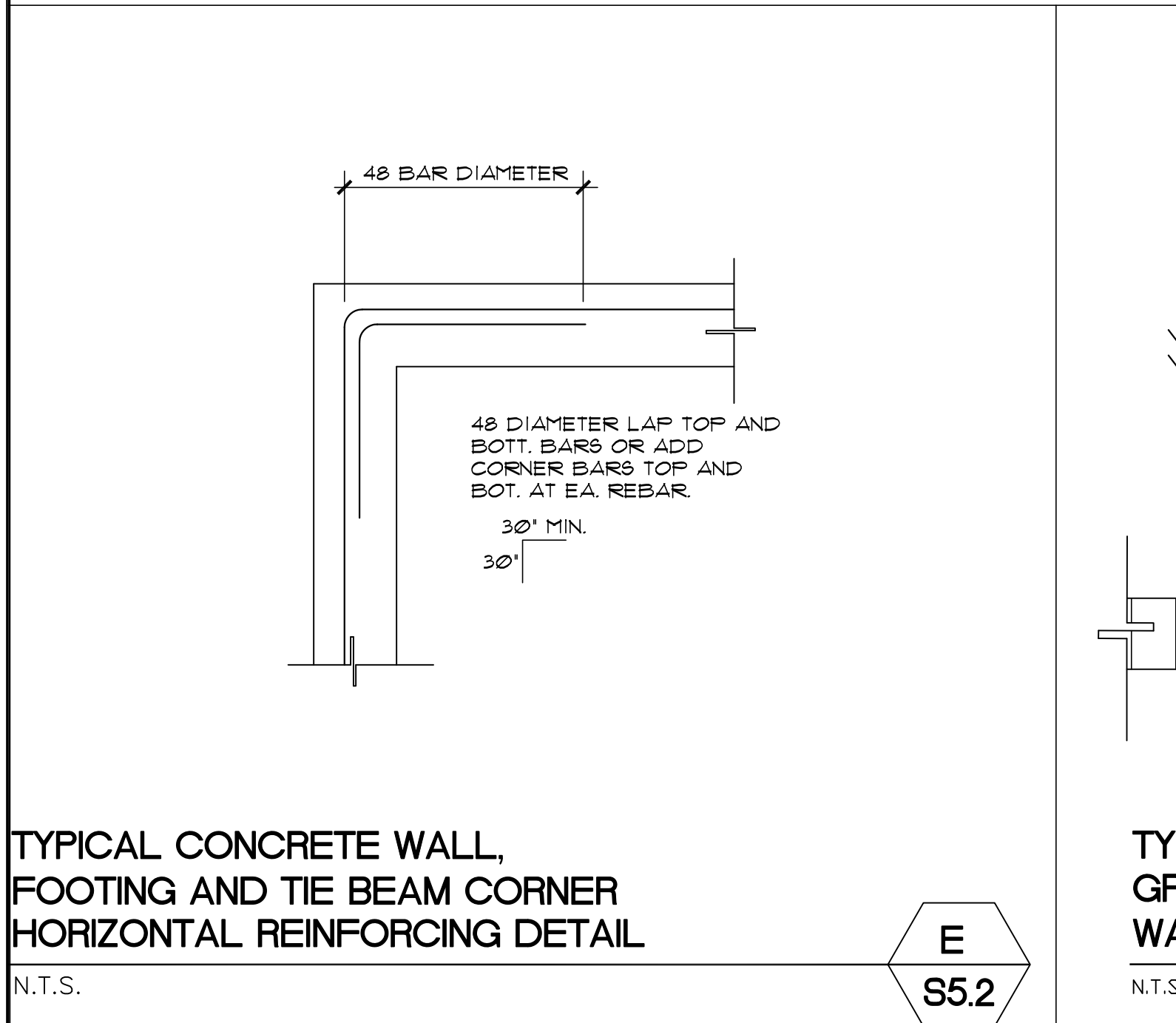
NOT TO SCALE

D4
S5.2



TYPICAL SLAB ON GRADE DETAILS

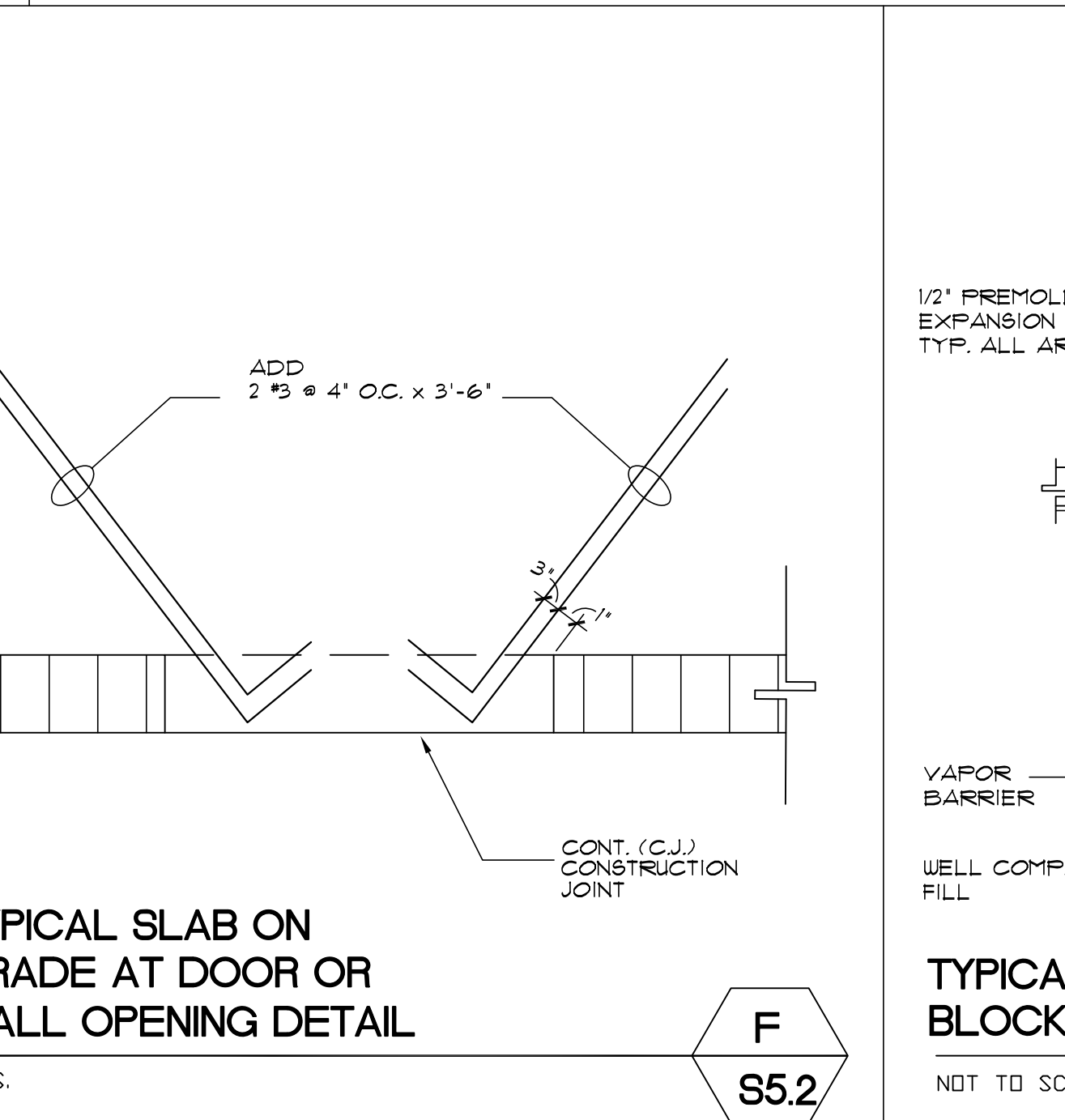
D
S5.2



TYPICAL CONCRETE WALL, FOOTING AND TIE BEAM CORNER HORIZONTAL REINFORCING DETAIL

N.T.S.

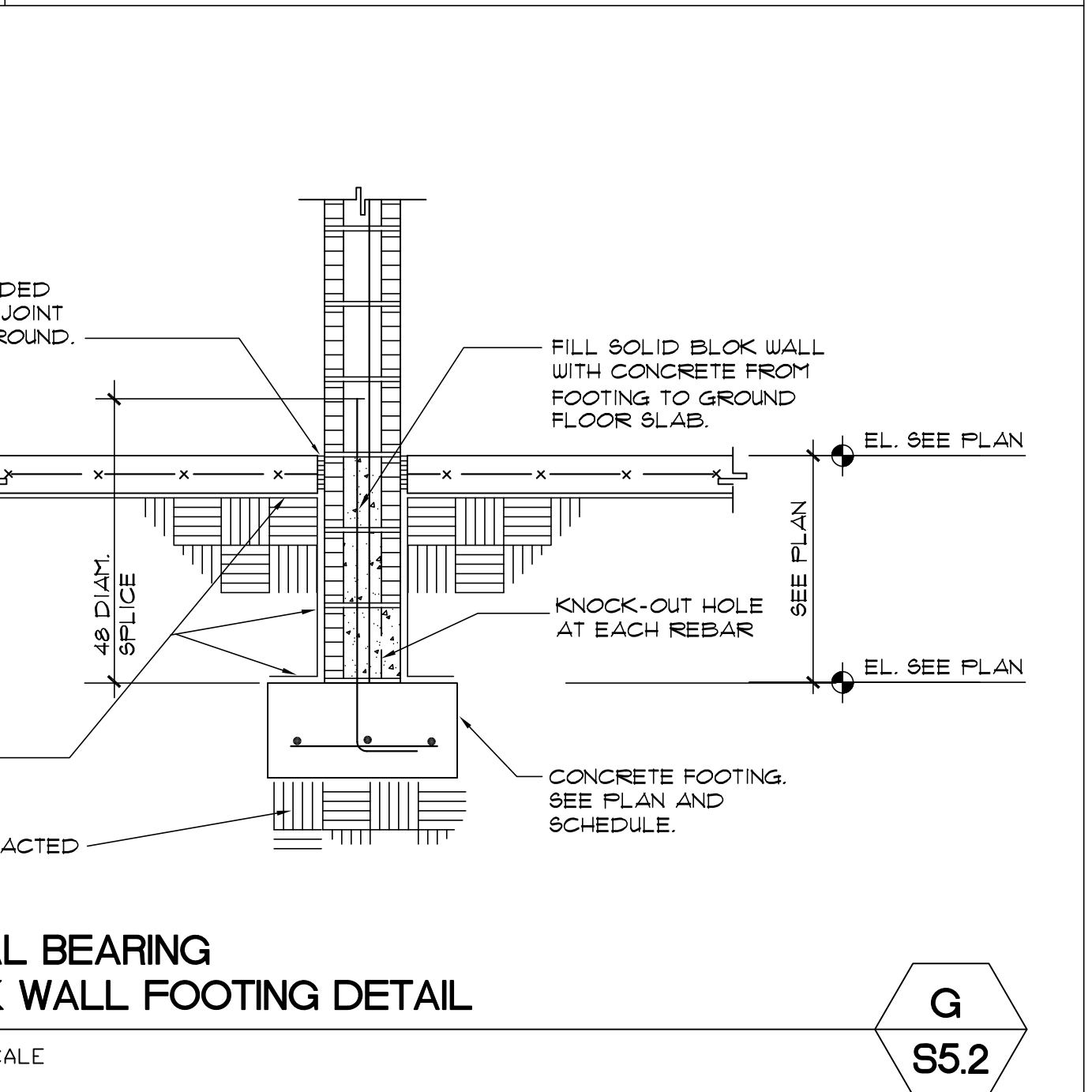
E
S5.2



TYPICAL SLAB ON GRADE AT DOOR OR WALL OPENING DETAIL

N.T.S.

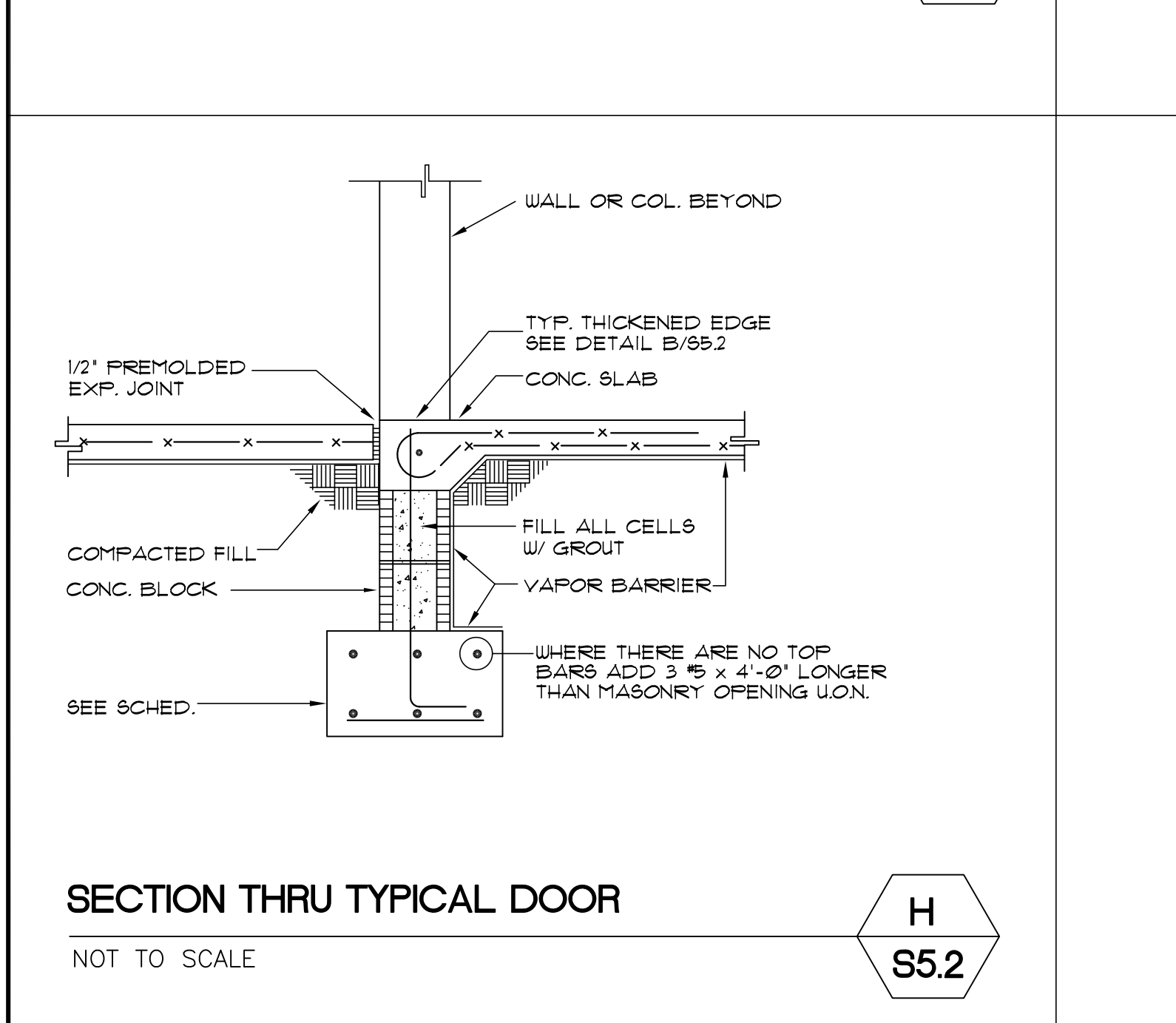
F
S5.2



TYPICAL BEARING BLOCK WALL FOOTING DETAIL

NOT TO SCALE

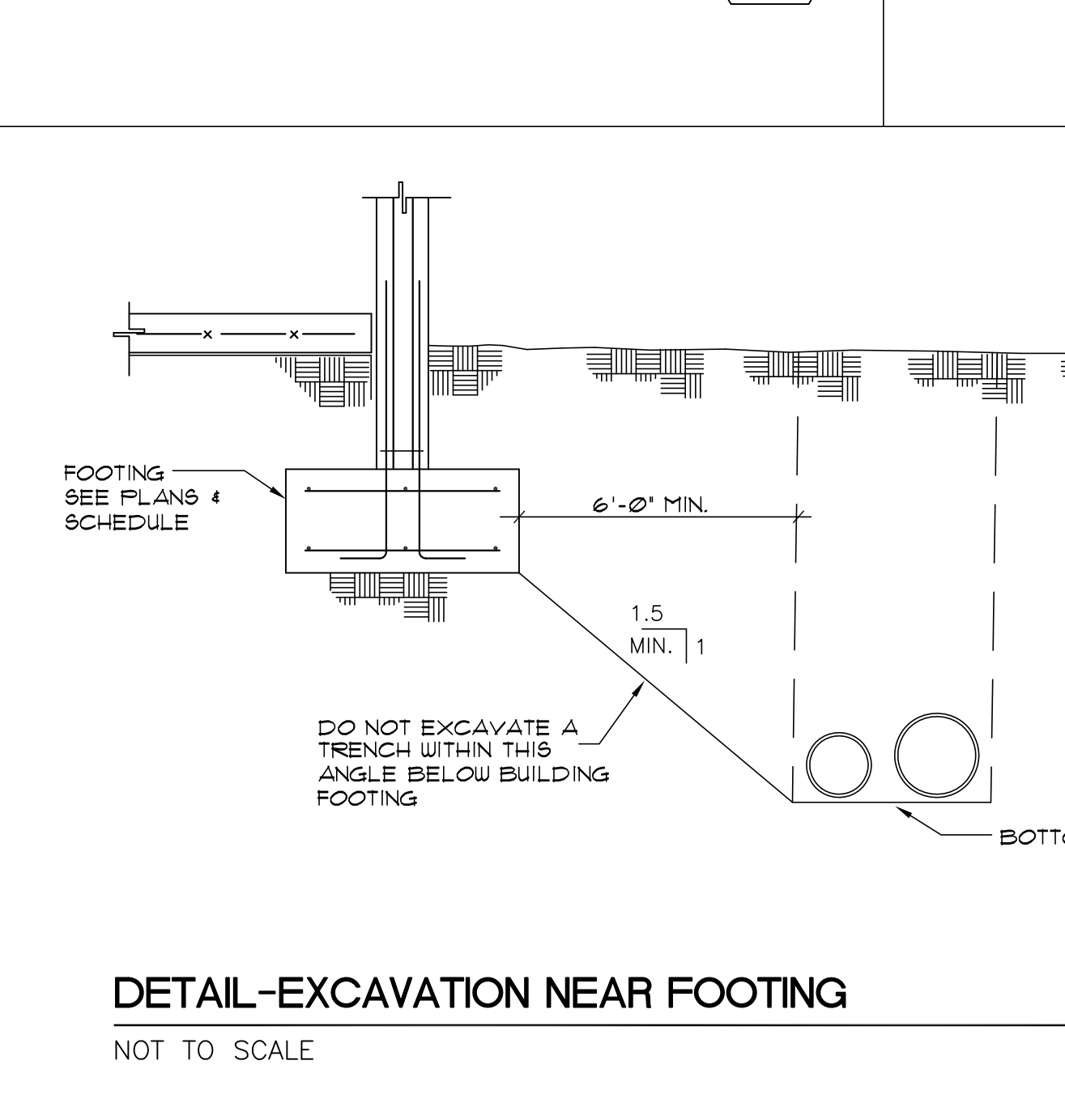
G
S5.2



SECTION THRU TYPICAL DOOR

NOT TO SCALE

H
S5.2



DETAIL-EXCAVATION NEAR FOOTING

NOT TO SCALE

I
S5.2

SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

SHEET TITLE:
TYPICAL DETAILS

LICENSED PROFESSIONAL ENGINEER
 ARMANDO SALAS, P.E.
 FL LICENSE NUMBER: 38007
 REG. #38007

No.	REVISIONS - SUBMITTALS	DATE

PAGE No. **6** OF **6** SHEET No. **S5.2**

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 C.A. No. 00000903
 9300 S.W. 22 ST. SUITE 262
 MIAMI, FLORIDA 33153
 PHONE: 305-273-4204
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 LUIS M. RODRIGUEZ PE No. 22132
 ARMANDO SALAS PE No. 38007

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GENERAL ELECTRICAL NOTES:

- 1. SITE INVESTIGATION: PRIOR TO BIDDING THE CONTRACTOR SHALL VISIT THE JOBSITE AND BECOME ACQUAINTED WITH ALL OF THE EXISTING CONDITIONS WHICH WILL AFFECT HIS WORK...
2. ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN A FIRST CLASS MANNER...
3. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE COMPLETE INSTALLATION...
4. THIS CONTRACTOR SHALL PAY FOR ALL FEES, INSPECTIONS, TESTS, FINES, ETC., AS REQUIRED.
5. MINIMUM STANDARDS: THE MATERIAL, EQUIPMENT, INSTALLATION, AND WORKMANSHIP FURNISHED UNDER THIS SECTION SHALL CONFORM AT LEAST TO THE REQUIREMENTS OF THE REGULATING AGENCIES AS LISTED ABOVE.
6. RESPONSIBILITIES: CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE OPERATIONAL ELECTRICAL SYSTEM INCLUDING ALL REQUIRED WIRING, RACEWAYS, CONNECTIONS, ETC. INCLUDING COORDINATION WITH OTHER TRADES.
7. GUARANTEE: THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE THAT ALL WORK EXECUTED UNDER THIS CONTRACT SHALL BE FREE FROM DEFECTS OF WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE AND THAT HE, AT HIS OWN EXPENSE, WILL REPAIR OR REPLACE ALL WORK WHICH BECOMES DEFECTIVE DURING THE TIME OF THE GUARANTEE.
8. ALL EQUIPMENT, SYSTEMS AND SYSTEM COMPONENTS SHALL BE FROM THE SAME MANUFACTURER AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS.
9. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS PRIOR TO ANY FABRICATION OR INSTALLATION.
10. OBTAIN FULL INFORMATION REGARDING RESTRICTIONS AND LIMITATIONS OF SPACE AVAILABLE FOR INSTALLATION OF THE EQUIPMENT AND MATERIALS UNDER CONTRACT, AND PROVIDE READY ACCESSIBILITY TO ELECTRICAL EQUIPMENT, INCLUDING ANY PART OF SYSTEM REQUIRED TO BE REACHED FOR MAINTENANCE AND OPERATION.
11. PROVIDE ACCURATE LAYOUT, GRADES AND ELEVATIONS. TAKE PROPER PRECAUTIONS TO PROTECT WORK AND EQUIPMENT FROM DAMAGE.
12. PROVIDE CODE APPROVED FIRE STOPPING AT ALL CONDUIT PENETRATIONS THROUGHOUT BUILDING CONSTRUCTION TO MAINTAIN FIRE, SMOKE AND SOUND RATING. FIRE SEAL ALL PENETRATIONS. SEAL TELECOMMUNICATION SLEEVES AFTER CABLES HAVE BEEN INSTALLED.
13. RACEWAYS AND FITTINGS: CONDUIT RUNS SHALL BE CONCEALED IN CEILING SPACES AND WALL PARTITIONS. NO CONDUIT SHALL BE EXPOSED IN INTERIOR SPACES. CONCEALED CONDUITS ARE TO BE EMT.
14. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH ALL OTHER TRADES AS WELL AS PROVIDING TEMPORARY POWER AS REQUIRED FOR THE PROJECT.
15. VERIFY EQUIPMENT SIZES, VOLTAGE AND CURRENT CHARACTERISTICS, ETC., BEFORE THE ORDERING OF ANY EQUIPMENT AND PRIOR TO ROUGHING-IN FOR EQUIPMENT SUPPLIED BY OTHERS. NOTIFY ENGINEER OF ANY CONFLICT.
16. PROVIDE COMPLETE POWER CIRCUIT WIRING AND CONNECTIONS FOR EACH AND EVERY ITEM OF PERMANENT MECHANICAL EQUIPMENT. PRIOR TO ANY ROUGH-IN, VERIFY HVAC AND PLUMBING EQUIPMENT NAME PLATES TO OBTAIN CORRECT WIRE SIZE AND OVER CURRENT PROTECTION RATINGS. IF THE NAME PLATE REQUIRES THE OVER CURRENT PROTECTION DEVICE TO BE FUSES, PROVIDE A FUSED SWITCH WITH PROPER SIZE FUSES AT THE EQUIPMENT LOCATION.
17. CONDUCTOR: ALL WIRES AND CABLES SHALL CONSIST OF 98% CONDUCTIVE COPPER. ALL CABLES SHALL BE SINGLE CONDUCTOR, 600 VOLT, THERMOPLASTIC INSULATION, SUITABLE FOR CONTINUOUS OPERATION AT 75 DEGREES C. TEMPERATURE IN BOTH WET AND DRY LOCATIONS. THESE CABLES SHALL BE NEC INSULATION TYPE THHN/THWN. MINIMUM SIZE SHALL BE #2. ALL CONDUCTOR INSULATION SHALL BE COLOR CODED. COLORED INSULATION SHALL BE USED FOR AUG SIZES #6 AND SMALLER AND APPROVED COLOR TAPES SHALL BE USED FOR AUG SIZES #4 AND LARGER. ALL POWER AND CONTROL CIRCUITS SHALL CARRY EQUIPMENT GROUNDING CONDUCTOR SIZE PER NEC 250-122.
18. THE NATURE OF THIS TYPE OF CONSTRUCTION POSSES SPECIAL PROBLEMS FOR THE DESIGN ENGINEER AS WELL AS THE CONTRACTOR. EVERY EFFORT HAS BEEN MADE BY THE ENGINEER TO SHOW AND VERIFY WHERE POSSIBLE THE LOCATION OF THE EXISTING ELECTRICAL SYSTEMS. THE MAJOR PORTION OF THE ELECTRICAL SYSTEMS ARE AS SHOWN ON THE DRAWINGS. HOWEVER, MINOR DEVIATIONS MAY BECOME EVIDENT AS THE JOB PROGRESSES. NO ADVANTAGE IS TO BE TAKEN BY THE CONTRACTOR BECAUSE OF THESE MINOR DIFFERENCES.
19. CORRECTION OF ANY DEFECTS, REPAIRS OR DAMAGE DURING CONSTRUCTION AS WELL AS ANY MINOR CHANGES IN OUTLET LOCATIONS SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.
20. GUTTERS, FULL BOXES, ETC. SHALL BE GALVANIZED STEEL SIZED PER NATIONAL ELECTRICAL CODE, ARTICLE 312 AND SUITABLE FOR THE ENVIRONMENTAL CONDITIONS PRESENT.
21. ALL FLOORS, WALLS AND ROOF PENETRATIONS SHALL BE PROPERLY SEALED-OFF, IF FIRE RATED, AN APPROVED FIRE RETARDANT SEALANT SHALL BE USED.
22. ALL WIRING SHALL BE INSTALLED IN RACEWAYS.
A. INDOORS - USE THE FOLLOWING:
- EXPOSED: EMT
- CONCEALED: EMT
- CONNECTION TO VIBRATION EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR - DRIVEN EQUIPMENT): PVC, EXCEPT IN WET OR DAMP LOCATIONS USE LFC.
- DAMP OR WET LOCATIONS: RIGID GALVANIZED STEEL CONDUIT OR INTERMEDIATE METALLIC CONDUIT.
B. OUTDOORS - USE THE FOLLOWING:
- EXPOSED: RIGID GALVANIZED STEEL CONDUIT OR INTERMEDIATE METALLIC CONDUIT.
- UNDERGROUND: SCHEDULE 40 PVC.
C. SEALING FITTINGS SHALL BE INSTALLED AS REQUIRED BY NEC.
23. BOXES AND ENCLOSURES
A. INDOORS - USE THE FOLLOWING:
- NEMA 1 - STEEL
- NEMA 3R - STEEL DAMP LOCATION
- NEMA 4X - STAINLESS STEEL FOR WET OR CORROSIVE ENVIRONMENTS
B. OUTDOORS - USE THE FOLLOWING:
- NEMA 3R - MALLEABLE IRON OR STEEL
- NEMA 4X - STAINLESS STEEL FOR WET OR CORROSIVE ENVIRONMENTS
24. THESE DRAWINGS ARE A GUIDE FOR THE INSTALLATION OF THE RACEWAY SYSTEM AND EQUIPMENT. THEY ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN AND EXTENT OF THE WORK AND ARE PARTLY DIAGRAMMATIC. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL INSTALLATION.
25. CIRCUIT NUMBERS ARE FOR IDENTIFICATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANEL AND SHALL BALANCE THE LOAD ON THE PHASES UNDER NORMAL OPERATING CONDITIONS. PROVIDE TYPE WRITTEN PANEL BOARD DIRECTORIES IN EXISTING PANEL BOARDS AFFECTED BY THIS PROJECT ELECTRONICALLY TRACING ALL CIRCUITS.
26. ANY DEVIATION FROM THESE DRAWINGS AND SPECIFICATIONS MUST BE AUTHORIZED IN WRITING BY THE ENGINEER PRIOR TO MAKING ANY CHANGES. THE CONTRACTOR SHALL BE HELD LIABLE FOR ANY DEVIATIONS WITHOUT SUCH AUTHORIZATION.
27. ALL POWER AND LIGHTING CIRCUITS SHALL HAVE A GREEN EQUIPMENT GROUNDING CONDUCTOR SIZED AS PER NEC 250-122.
28. PROVIDE NYLON FULL STRINGS IN ALL EMPTY CONDUITS FOR FUTURE USE.
29. COLOR CODING FOR CONDUCTORS:
A. WIRING FOR 120/208 VOLT SYSTEM SHALL BE CODED AS FOLLOWS:
PHASE A - BLACK
PHASE B - RED
PHASE C - BLUE
NEUTRAL - WHITE
GROUND - GREEN
B. WIRING FOR 120/240 VOLT SYSTEM SHALL BE AS FOLLOWS:
PHASE A - BLACK
PHASE B - ORANGE (HIGH LEG)
PHASE C - RED
NEUTRAL - WHITE
GROUND - GREEN
C. WIRING FOR 277/480 VOLT SYSTEM SHALL BE CODED AS FOLLOWS:
PHASE A - BROWN
PHASE B - ORANGE
PHASE C - YELLOW
NEUTRAL - GRAY
GROUND - GREEN
D. COLORS ON CONDUCTORS SIZE #6 AUG AND SMALLER SHALL BE AN INTEGRAL PART OF INSULATION ON CONDUCTORS SIZE #4 AUG AND LARGER CONDUCTORS SHALL BE COLOR CODED BY MEANS OF IDENTIFYING TAPE.
30. ANY WORK NOT SHOWN OR SPECIFICALLY MENTIONED ON THESE PLANS BUT CONSIDERED NECESSARY FOR COMPLETION OF WORK IN THE PROPER MANNER SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT ADDITIONAL CHARGE TO THE OWNER.
31. CONTRACTOR SHALL VERIFY SPACE CONDITIONS AND DIMENSIONS AT JOB SITE PRIOR TO FABRICATION AND INSTALLATION OF MATERIALS AND EQUIPMENT. CONTRACTOR IS TO COORDINATE HIS WORK WITH THE ARCHITECT BEFORE ROUGH INSTALLATION OF ALL OUTLETS (LIGHTS, RECEPTACLES, SWITCHES, FULL BOXES, ETC.) FOR EXACT LOCATION.
32. ALL ELECTRICAL EQUIPMENT SUCH AS PANELS, FULL AND JUNCTION BOXES, FEEDERS, ETC. SHALL BE PROPERLY IDENTIFIED WITH A PERMANENT LABEL AFFIXED TO THE EQUIPMENT. IDENTIFY CIRCUITS IN PANELS BY MEANS OF A TYPED, PLASTIC COVERED DIRECTORY.
33. SPOT PAINT CONDUITS AND BOXES, IDENTIFY CONDUITS WITHIN 6 INCHES (6") OF BOX OR ENCLOSURE. USE COLOR CODE PER OWNER'S REQUIREMENTS/STANDARDS.
34. ALL SERVICE INTERRUPTIONS AND ALL REMOVAL AND DISPOSAL WORK SHALL BE SCHEDULED AND COORDINATED WITH THE AUTHORIZED OWNER REPRESENTATIVE.
35. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, TAXES, INSPECTIONS, TESTS AND OTHER ITEMS INCLUDING REQUIRED INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
36. CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF PRINTS FOR INDICATING ALL CHANGES AS WORK PROGRESSES. AT THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL DELIVER A SET OF AS-BUILT DRAWINGS TO THE OWNER IN REPRODUCIBLE FORM. CONTRACTOR SHALL STAMP AS-BUILT ON EACH DRAWING AND INCLUDE SIGNATURE AND DATE.
37. CONTRACTOR IS RESPONSIBLE FOR REPLACING SURFACES, WALLS, CEILING, FLOORS, PARTITIONS, PAVEMENT, ETC. AFFECTED BY THE IMPLEMENTATION OF WORK SHOWN ON THESE DRAWINGS UPON COMPLETION OF WORK. RESTORE ALL AFFECTED SURFACES MATCHING SURROUNDING SURFACE.
38. TELECOM RACEWAYS, EMPTY BOXES AND FULL STRINGS TO BE INSTALLED BY CONTRACTOR WIRING AND WIRING DEVICES AND FINAL CONNECTION IS TO BE BY INSTALLED BY OWNER'S CONTRACTOR UNDER SEPARATE PERMIT.
39. ELECTRICAL EQUIPMENT TO BE PROVIDED WITH A WARNING LABEL FOR ARC FLASH HAZARDS IN COMPLIANCE WITH NEC 110.16.
40. PROJECT TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT EDITION OF NFPA 241 STANDARDS FOR SAFE GUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS.
41. CONTRACTOR SHALL PROVIDE THE REQUIRED MEASURES FOR THE SAFEGUARDING OF THE EXISTING FACILITY AND SYSTEMS THEREIN DURING THE PERFORMANCE OF THE WORK SHOWN ON THESE DRAWINGS PER NFPA 241.
42. CONTRACTOR SHALL MAINTAIN THE FACILITIES FIRE ALARM SYSTEM IN A COMPLETE AND FUNCTIONAL STATUS DURING ALL PHASES OF CONSTRUCTION.

ELECTRICAL SYMBOL LEGEND

BOXES & FITTINGS: CEILING MOUNTED JUNCTION BOX, WALL MOUNTED JUNCTION BOX, CEILING MOUNTED JUNCTION BOX, 12"X12"X6" DEEP MINIMUM UNLESS OTHERWISE INDICATED FOR DISTRIBUTION OF TELEPHONE/DATA SYSTEM, PULLBOX, SIZED AS INDICATED OR AS REQUIRED BY NEC.
FIRE ALARM: CEILING MOUNTED SMOKE DETECTOR, DUCT MOUNTED SMOKE DETECTOR, EXIT DOOR SECURITY ALARM WITH MONITOR MODULE TIED TO FIRE ALARM, CEILING MOUNTED HEAT DETECTOR, MANUAL FIRE ALARM PULL STATION, 48" AFF., FIRE ALARM STROBE LIGHT, A.D.A. TYPE, FIRE ALARM HORN, 4 STROBE LIGHT 80" AFF. A.D.A. TYPE, SHUT DOWN RELAY, FIRE ALARM PANEL, FLOW SWITCH, TAMPER SWITCH, FIRE ALARM HORN, 80" AFF., FIRE ALARM SPEAKER 4 STROBE LIGHT 80" AFF. A.D.A. TYPE, FIRE ALARM SYSTEM SPEAKER.
MOTORS & CONTROLS: MOTOR, 5 = 5 H.P. OR AS OTHERWISE INDICATED, MOTOR MAGNETIC STARTER, VAV WITH DUCT HEATER, CONTACTOR AND SAFETY DISCONNECT, THERMOSTAT.
WIRING: HOMERUN TO PANEL, INDICATES A CONDUIT RUN CONCEALED IN A CEILING OR WALL, INDICATES A CONDUIT RUN CONCEALED IN FLOOR, EMBEDDED IN CONCRETE OR UNDERGROUND AT 24" BELOW GRADE MINIMUM, INDICATES A CAPPED CONDUIT, INDICATES A FLEXIBLE METAL CONDUIT CONNECTION USE LIQUID TIGHT CONDUIT IN WET, DAMP OR OILY LOCATIONS, FLEXIBLE EQUIPMENT CONNECTION, CONDUIT RUN TURNED DOWN, CONDUIT RUN TURNED UP, CONDUIT EXPANSION JOINT.
LIGHTING: LIGHTING FIXTURE TYPE, SEE LTG. FIXTURE SCHEDULE THIS SHEET, RECESSED, SEMI RECESSED, SURFACE OR PENDANT MOUNTED FIXTURE ON NORMAL CIRCUIT 2 IS CIRCUIT NO. "4" DENOTES SWITCH LEG, SURFACE OR PENDANT MOUNTED LIGHT FIXTURE, SURFACE OR PENDANT MOUNTED LIGHT FIXTURE, LIGHT RECESSED OR LAY-IN FIXTURE, LIGHT RECESSED OR LAY-IN FIXTURE, WALL MOUNTED EXIT LIGHT FIXTURE WITH ARROWS AS INDICATED, 1'-6" AFF., SURFACE MOUNTED DOUBLE FACE EXIT LIGHT FIXTURE WITH ARROWS AS INDICATED, WALL MOUNTED DOUBLE FACE EXIT LIGHT FIXTURE WITH ARROWS AS INDICATED, 1'-6" AFF., SURFACE MTD. STRIP LIGHT FIXTURE, SURFACE MTD. STRIP LIGHT FIXTURE, COMBINATION EXIT SIGN - EMERGENCY LIGHT, EMERGENCY LIGHT, OCCUPANCY SENSOR (CEILING MOUNTED) WITH 20 AMP RELAY, ARM MOUNTED POLE LIGHT, POST TOP MOUNTED POLE LIGHT.
SWITCHES: SINGLE POLE TOGGLE SWITCH, 20A, KEY OPERATED 120/277 VAC, MOUNTED 48" AFF., SINGLE POLE TOGGLE SWITCH, 20A, 120/277 VAC, MOUNTED 48" AFF. 3" SWITCH LEG, THREE-WAY AND FOUR WAY TOGGLE SWITCHES 20A, 120/277 VAC, MOUNTED 48" AFF., MANUAL MOTOR STARTER TOGGLE SWITCH WITH OVERLOADS, 48" AFF., SAFETY SWITCH, 3P + NO. OF POLES, 60 + SWITCH SIZE, 50 + FUSE SIZE, OCCUPANCY TYPE WALL SWITCH.
MISCELLANEOUS: TELEPHONE OUTLET, ADMINISTRATIVE TELEPHONE OUTLET, MTD, 48" AFF., COMBINATION CLOCK SPEAKER, TELEVISION TAP THRU OUTLET, MTD, 6"-8" AFF., CLASSROOM CALL BACK BUTTON, P.A. PRIVACY SWITCH, DATA OUTLET, MOTION DETECTOR, DOOR CONTACT, PROXIMITY CARD READER, MAGNETIC DOOR LOCK, SECURITY SYSTEM KEY PAD, CEILING MOUNTED CLOSED CIRCUIT TV CAMERA, WALL MOUNTED CLOSED CIRCUIT TV CAMERA.
RECEPTACLES: 120V, 1 PHASE 60 HZ 20 AMP SINGLE RECEPTACLE, 120V, 1 PHASE, 60 HZ, 20 AMP, DUPLEX RECEPTACLE MTD, 18" AFF., SAME AS ABOVE EXCEPT MTD. AT 6" ABOVE COUNTER, 120V, 1 PHASE, 60 HZ, 20 AMP, DUAL DUPLEX RECEPTACLE MTD, 18" AFF., DOUBLE DUPLEX RECEPTACLES MOUNTED AS PART OF SURFACE RACEWAY, FLOOR OUTLET WITH (1) 120V, 1 PHASE 60 Hz, 20 AMP DUPLEX RECEPT., SPECIAL PURPOSE RECEPTACLE.



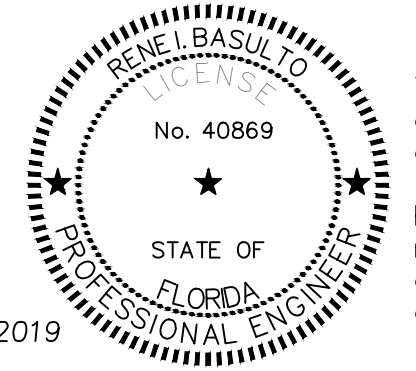
PBA FERNISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

GENERAL NOTES AND SYMBOL LEGEND

SHEET TITLE:

LICENSED PROFESSIONAL
RENE I. BASULTO, P.E.
FL LICENSE NUMBER #40869
REC. #40869
DATE:

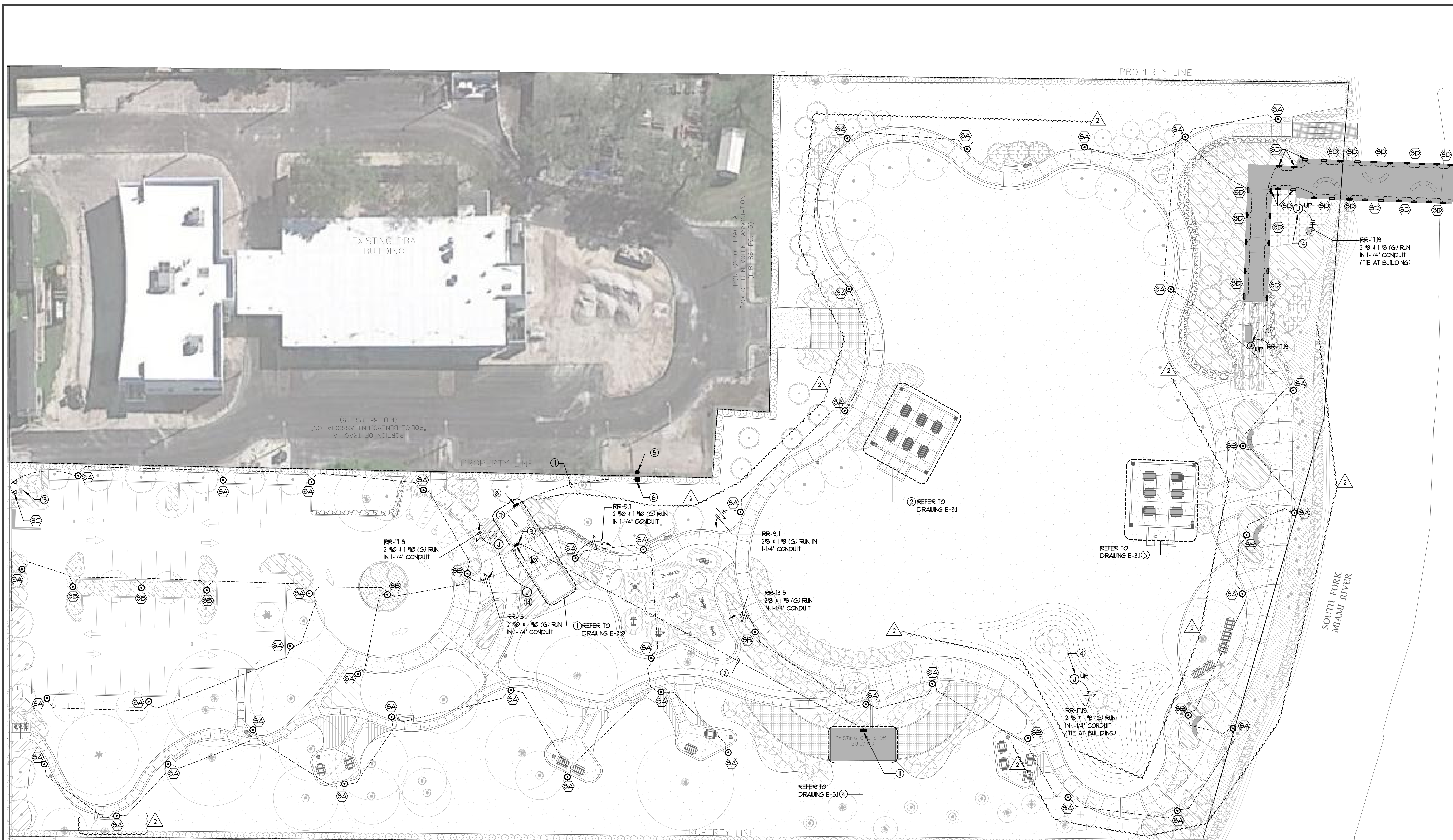
Table with 3 columns: No., REVISIONS - SUBMITTALS, DATE. Contains multiple empty rows for revision tracking.



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Project No.- 18018
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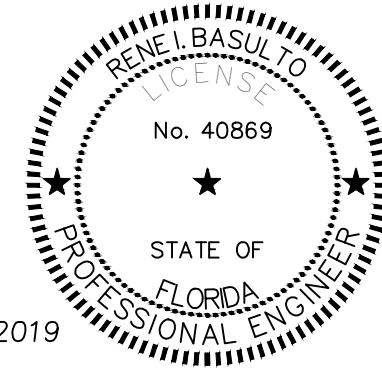
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- SITE PLAN KEY NOTES:**
- | | |
|--|---|
| ① NEW RESTROOM BUILDING. | ⑧ NEW ELECTRICAL SERVICE METER. |
| ② NEW NORTH PAVILION BUILDING. | ⑨ NEW RESTROOM BUILDING MAIN ELECTRICAL ROOM. |
| ③ NEW SOUTH PAVILION BUILDING. | ⑩ NEW PANEL "MDP" AND ELECTRICAL SERVICE MAINS #1 AND #2 OF 2. REFER TO ELECTRICAL RISER. |
| ④ EXISTING STORAGE BUILDING. | ⑪ NEW PANEL "ST" AND BUILDING DISCONNECTING MEANS #1 OF 1. REFER TO ELECTRICAL RISER. |
| ⑤ EXISTING WOOD UTILITY POLE WITH FLORIDA POWER AND LIGHT COMPANY POLE MOUNTED TRANSFORMERS. | ⑫ NEW UNDERGROUND PANEL "ST" FEEDER. |
| ⑥ NEW "HAND HOLE" INSTALLED AT BASE OF POLE BY CONTRACTOR. "HAND HOLE" PROVIDED BY FLORIDA POWER AND LIGHT COMPANY. COORDINATE INSTALLATION REQUIREMENTS WITH FLORIDA POWER AND LIGHT COMPANY. | ⑬ NEW MONUMENT SIGN. |
| ⑦ NEW UNDERGROUND ELECTRICAL SERVICE LATERAL. | ⑭ JUNCTION BOX FOR PUBLIC ART TO BE DETERMINED. |

OVERALL SITE LIGHTING PLAN
SCALE: 1" = 30'-0"

NOTE:
ROUTING OF UNDERGROUND CONDUITS IS SHOWN DIAGRAMMATICALLY. CONTRACTOR SHALL ROUTE CONDUITS SO TO AVOID "ROOT CUTTING" OF EXISTING TREES.



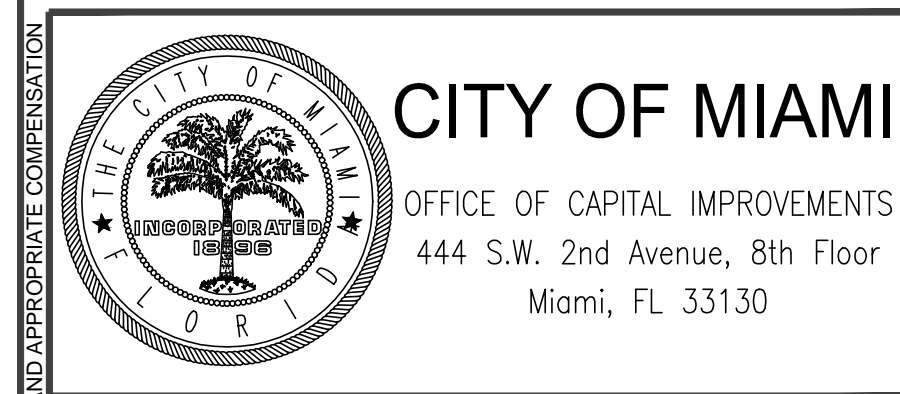
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Project No.- 18018

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SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

SHEET TITLE:
OVERALL SITE LIGHTING PLAN

LICENSED PROFESSIONAL
RENE I. BASULTO, P.E.
FL LICENSE NUMBER
REC. #40869
DATE:

No.	REVISIONS - SUBMITTALS	DATE
2	BUILDING DEPARTMENT COMMENTS	04/26/2019

PAGE No. SHEET No.
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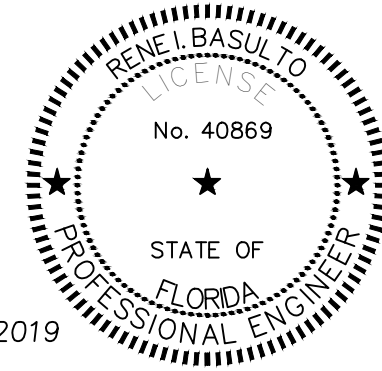
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Statistics					
Description	Avg	Max	Min	Max/Min	Avg/Min
BRIDGE	1.7 fc	2.9 fc	0.5 fc	5.8:1	3.4:1
PARKING LOT	3.5 fc	7.1 fc	1.2 fc	5.9:1	2.9:1
RAMP	1.4 fc	3.1 fc	0.4 fc	7.8:1	3.5:1
WALKWAY	2.8 fc	6.4 fc	0.7 fc	9.1:1	4.0:1

SITE LIGHTING FIXTURE SCHEDULE							
Symbol	Label	MANUFACTURER	CATALOG #	Lamp	Number Lamps	Lumens per Lamp	LLF Wattage MOUNTING HEIGHT
⊙	SA	ARTEC	SALVUS 20 T3 4K	LED	1	9803	0.9 83.1 15.5' MH
⊙	SB	ARTEC	SALVUS 20 T5 4K	LED	1	14055	0.9 111.5 15.5' MH
▽	SC	AMERLUX	FL1-40-HWF-BLK-GSP17-RGS	LED	1	3170	0.9 31 GRADE ON 2" RGS ANCHOR STANCHION. FOUNDATION FOR STANCHION TO BE 18" DIAMETER X 24" DEEP 3000 PSI CONCRETE.
⊐	SD	ARTEC	PSLT8 F40 4W 4000K	LED	1	50	0.9 4 42' MH

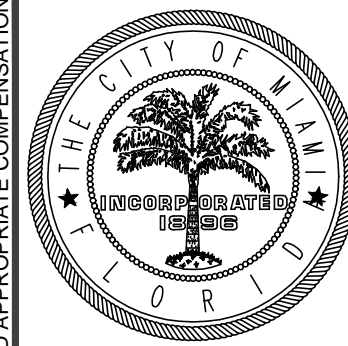
PHOTOMETRIC SITE PLAN
SCALE: 1" = 30'-0"



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SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



CITY OF MIAMI
OFFICE OF CAPITAL IMPROVEMENTS
444 S.W. 2nd Avenue, 8th Floor
Miami, FL 33130

PBA FERNISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

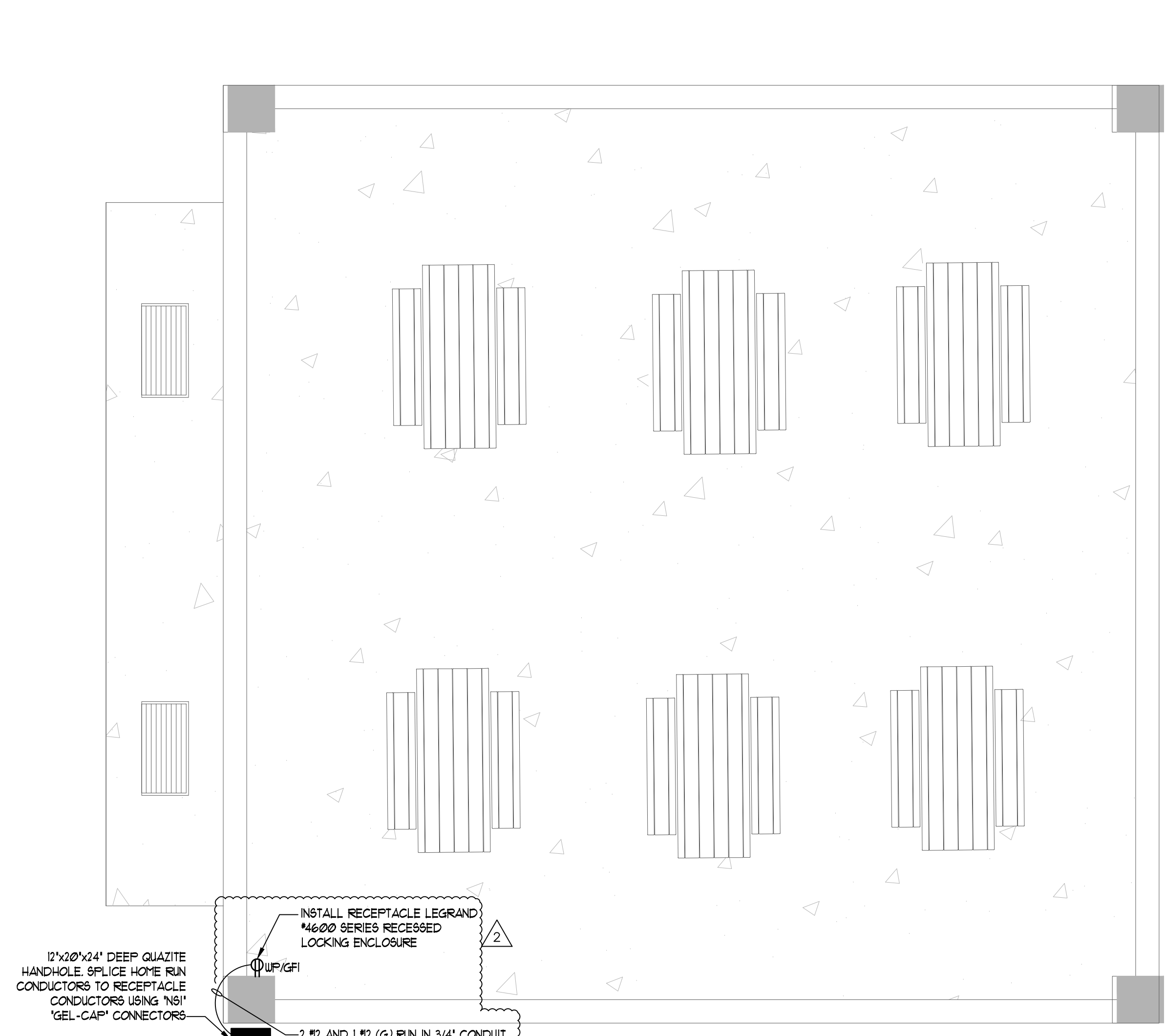
SHEET TITLE:
PHOTOMETRIC SITE PLAN

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FL LICENSE NUMBER
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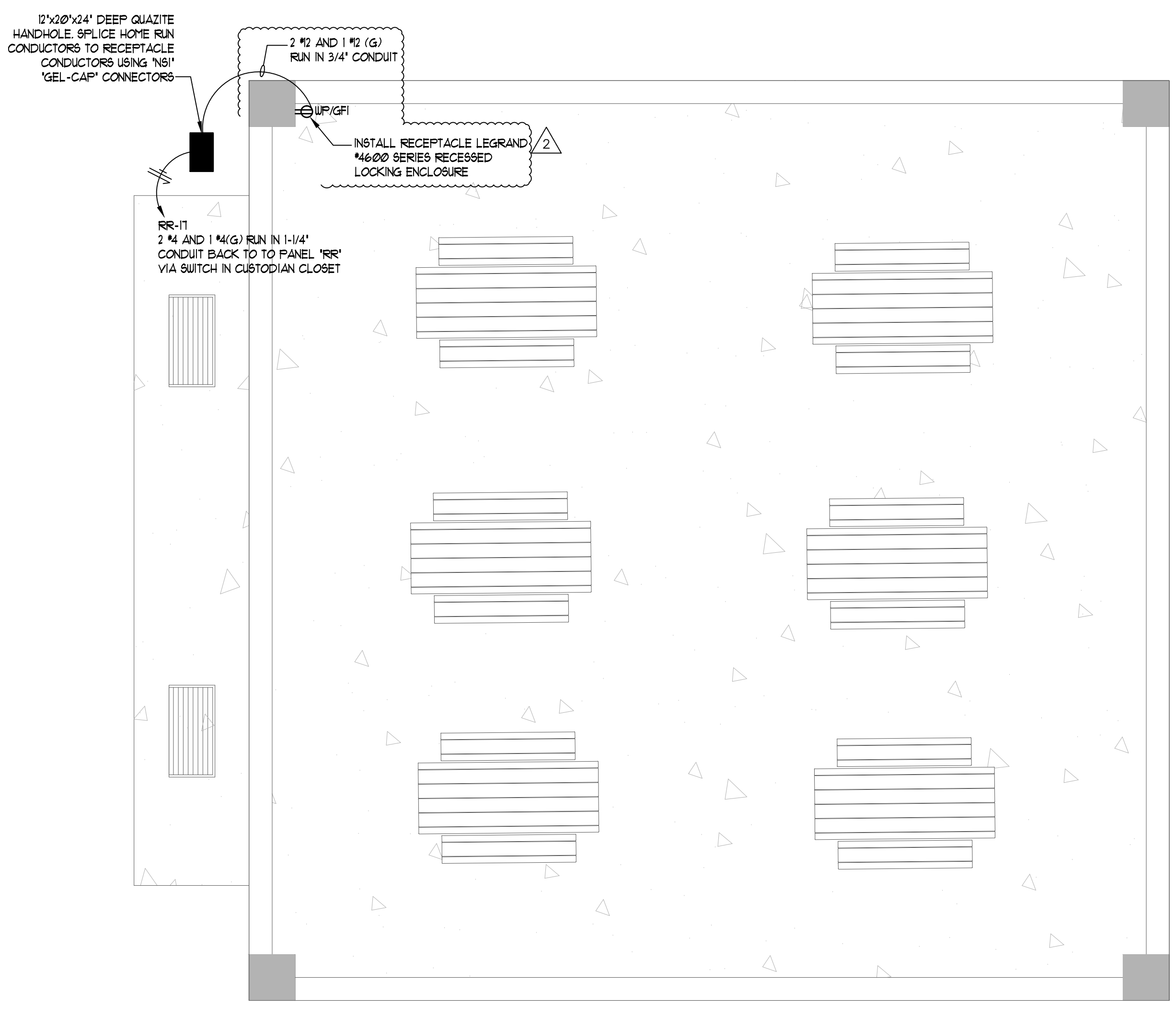
No.	REVISIONS - SUBMITTALS	DATE
2	BUILDING DEPARTMENT COMMENTS	04/26/2019

PAGE No. SHEET No.
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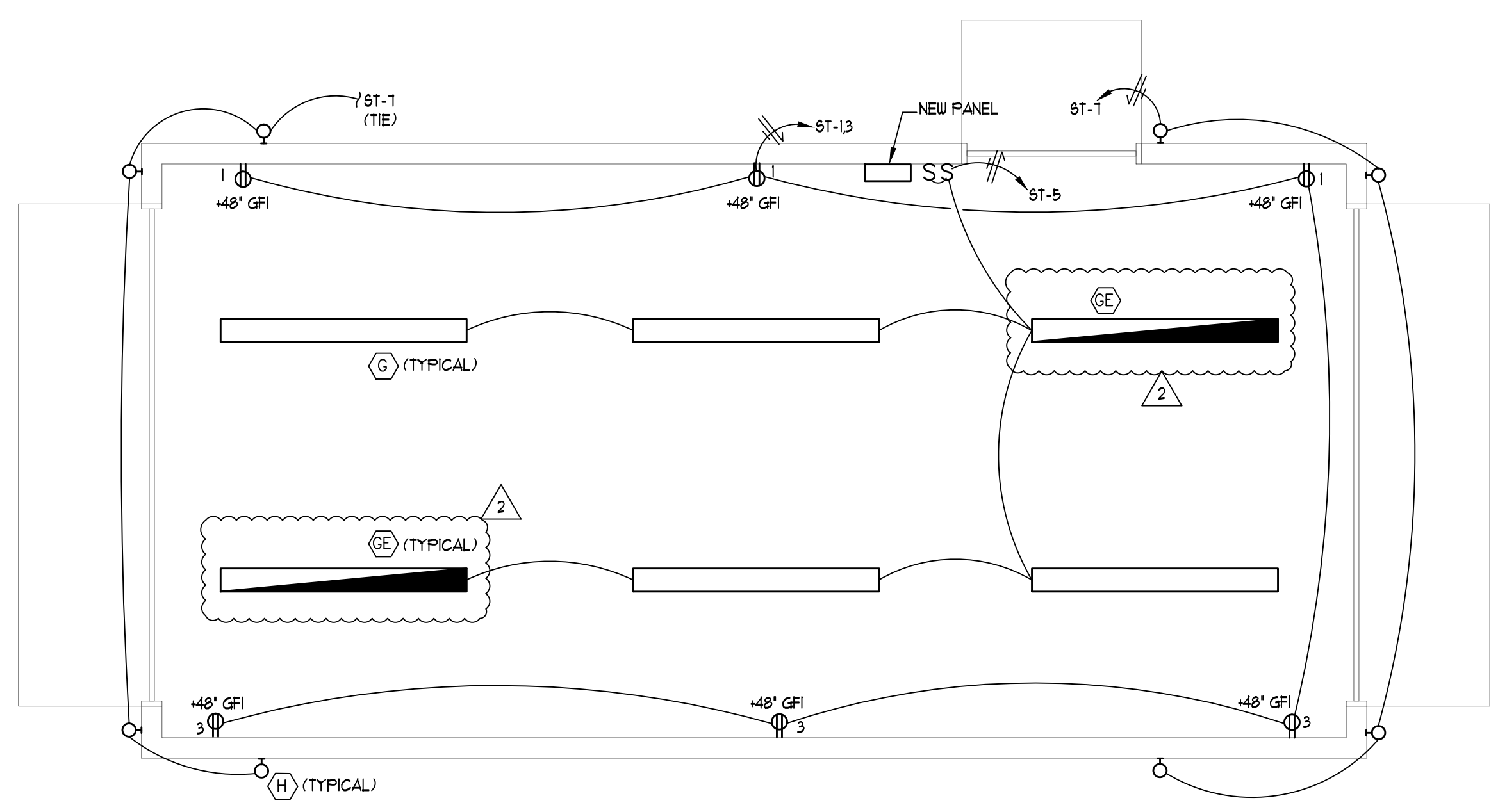
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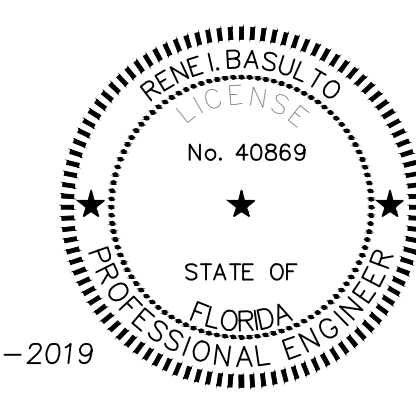
SOUTH PAVILION FLOOR PLAN - ELECTRICAL
SCALE: 1/4" = 1'-0"



NORTH PAVILION FLOOR PLAN - ELECTRICAL
SCALE: 1/4" = 1'-0"



STORAGE BUILDING FLOOR PLAN - ELECTRICAL
SCALE: 1/4" = 1'-0"



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CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

SHEET TITLE:
NORTH / SOUTH PAVILION AND STORAGE BUILDING ELECTRICAL PLAN

LICENSED PROFESSIONAL
RENE I. BASULTO, P.E.
FL LICENSE NUMBER
REC. #40869
DATE:

No.	REVISIONS - SUBMITTALS	DATE
2	BUILDING DEPARTMENT COMMENTS	04/26/2019

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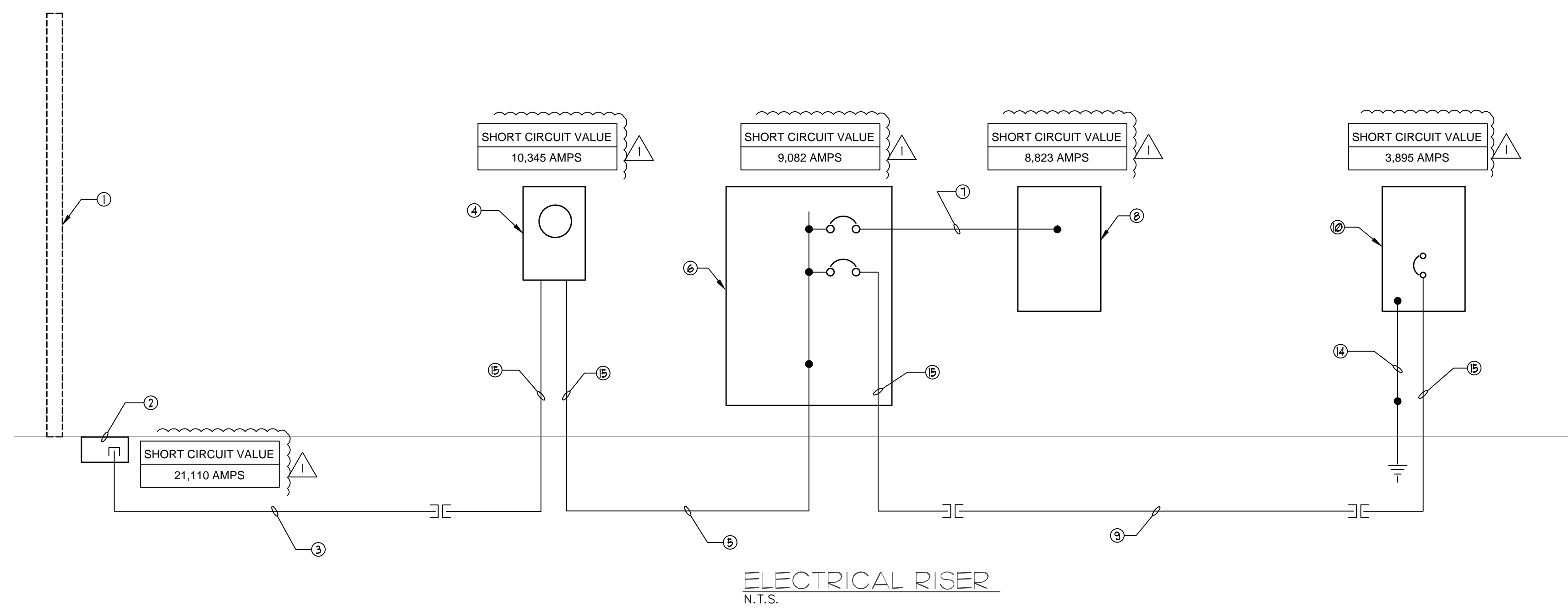
PANEL: MDP		SQUARE 'D' LINK 120/240 VOLTS, 1 PH, 3 WIRE 250 AMPS M.L.O.		NEMA 1		25,000 A.I.C. 400A M.L.O. SURFACE MOUNTED	
CKT. NO.	DESCRIPTION OF LOAD	BRANCH SIZE (AMPS)	TRIP	WIRE	CONDUIT	KVA	
1	PANEL 'RR'	2	200	200		319	
2	PANEL 'ST'	2	100	100		18	
3	SPACE	2	200				
4	SPACE	2	100				
						CONNECTED LOAD: 331 KVA 140 AMPS	

PANEL: RR		S.Q. 'D' PANEL WITH COPPER BUS 120/240V, 1 PH, 3 W.		NEMA 1		10,000 A.I.C. 225A M.L.O. SURFACE MTD.					
CKT.	WIRE	COND.	BKR.	SERVES	LOAD A @ B @	V-A C @	SERVES	BKR.	COND.	WIRE	CKT.
2	1	5	5	2	20	4000	PARKING LOT LIGHTING	2	50	3/4"	8
3	3	5	5	2	20	4000	INSTANT WATER HEATER	2	50	3/4"	8
2	5	5	5	2	20	4000	PATH LIGHTING	2	50	3/4"	8
1	7	5	5	2	20	4000	INSTANT WATER HEATER	2	50	3/4"	8
2	9	5	5	2	20	4000	PATH LIGHTING	2	50	3/4"	8
11	11	5	5	2	20	4000	INSTANT WATER HEATER	2	50	3/4"	8
13	13	5	5	2	20	4000	PATH LIGHTING	2	50	3/4"	8
15	15	5	5	2	20	4000	EXTERIOR LIGHTING	2	50	3/4"	12
17	17	5	5	2	20	4000	INTERIOR LIGHTING	2	50	3/4"	12
19	19	5	5	2	20	4000	NORTH PAVILION RECEPT.	2	50	3/4"	18
21	21	5	5	2	20	4000	SOUTH PAVILION RECEPT.	2	50	3/4"	18
23	23	5	5	2	20	4000	AUTO VALVES	2	50	3/4"	22
25	25	5	5	2	20	4000	HAND DRYER	2	50	3/4"	24
27	27	5	5	2	20	4000	HAND DRYER	2	50	3/4"	26
29	29	5	5	2	20	4000	HAND DRYER	2	50	3/4"	28
31	31	5	5	2	20	4000	HAND DRYER	2	50	3/4"	30
33	33	5	5	2	20	4000	EUC	2	50	3/4"	32
35	35	5	5	2	20	4000	EXHAUST FANS	2	50	3/4"	34
37	37	5	5	2	20	4000	SPACE	2	50	3/4"	36
39	39	5	5	2	20	4000	SPACE	2	50	3/4"	38
41	41	5	5	2	20	4000	SPACE	2	50	3/4"	40
						CONNECTED V-A PER Ø		15,175		16,149	
						TOTAL AMPS. PER Ø		131		135	
						CONNECTED LOAD:		319 KVA			

- 1 VIA 6 POLE, 30 AMP NEMA STYLE CONTACTOR AND TIME CLOCK #1
- 2 VIA 8 POLE, 30 AMP NEMA STYLE CONTACTOR AND TIME CLOCK #2
- 3 VIA 4 POLE, 30 AMP NEMA STYLE CONTACTOR AND TIME CLOCK #3
- 4 GFI TYPE CIRCUIT BREAKER
- 5 REFER TO SITE PLAN.

PANEL: ST		S.Q. 'D' PANEL WITH COPPER BUS AND UNIT MOUNTED M.C.B.		NEMA 1		10,000 A.I.C. 100A M.C.B. SURFACE MTD.					
CKT.	WIRE	COND.	BKR.	SERVES	LOAD A @ B @	V-A C @	SERVES	BKR.	COND.	WIRE	CKT.
1	12	3/4"	20	RECEPTILES	540	540	SPACE				2
3	12	3/4"	20	RECEPTILES	540	540	SPACE				4
5	12	3/4"	20	INTERIOR LIGHTING	360	360	SPACE				6
7	12	3/4"	20	EXTERIOR LIGHTING	320	320	SPACE				8
9				SPACE			SPACE				10
11				SPACE			SPACE				12
13				SPACE			SPACE				14
15				SPACE			SPACE				16
17				SPACE			SPACE				18
						CONNECTED V-A PER Ø		906		860	
						TOTAL AMPS. PER Ø		8		1	
						CONNECTED LOAD:		18 KVA			

- 1 VIA 2 POLE, 30 AMP NEMA STYLE CONTACTOR AND TIME CLOCK



- ELECTRICAL RISER KEY NOTES:**
- 1 EXISTING UTILITY POLE WITH FLORIDA POWER AND LIGHT COMPANY POLE MOUNTED TRANSFORMERS.
 - 2 NEW HAND HOLE INSTALLED AT BASE OF UTILITY POLE. HAND HOLE PROVIDED BY FLORIDA POWER AND LIGHT COMPANY AND INSTALLED BY CONTRACTOR.
 - 3 NEW ELECTRICAL SERVICE LATERAL RUN UNDERGROUND WITH A MINIMUM OF 24" OF COVER.
3 * 250 KCM THIN COPPER IN 3" CONDUIT.
 - 4 NEW NEMA 3R 400 AMP ELECTRICAL SERVICE METER.
 - 5 NEW PANEL 'MDP' FEEDER RUN UNDERGROUND.
3 * 250 KCM THIN COPPER IN 3" RIGID GALVANIZED STEEL CONDUIT.
 - 6 NEW PANEL 'MDP' LISTED FOR SERVICE ENTRANCE CONTAINING ELECTRICAL SERVICE MAINS #1 AND #2 OF 2.
 - 7 NEW PANEL 'RR' FEEDER.
3 * 3/0 AND 1 * 6 (G) THIN COPPER IN 2" CONDUIT.
 - 8 NEW PANEL 'ST' FEEDER RUN UNDERGROUND.
3 * 3/0 AND 1 * 1 (G) THIN COPPER RUN IN 2-1/2" CONDUIT.
 - 9 NEW PANEL 'ST'.
 - 10 NEW 1/4" X 4" X 1/2" COPPER GROUND COLLECTOR BUS.
ALL CONNECTIONS TO BE EXOTHERMIC WELDED.
 - 11 NEW #2 GROUNDING ELECTRODE CONDUCTOR.
 - 12 NEW #2 COPPER GROUND ELECTRODE CONDUCTOR RUN IN 3/4" CONDUIT TO (2) 3/4" X 10'-0" COPPER CLAD GROUND RODS, BUILDING STEEL AND BUILDING WATER SERVICE. GROUND RODS TO BE INSTALLED IN A GRASSY AREA A MINIMUM OF 20'-0" APART IN A QUIAZITE GROUND ROD BOX. CONNECTIONS TO BE EXOTHERMIC WELDED. CONNECTION TO WATER PIPE TO BE MADE WITH BRONZE CONNECTOR WITH STAINLESS STEEL HARDWARE SUITABLE FOR CONTACT WITH SOIL. CONNECTION TO BUILDING STEEL TO BE EXOTHERMIC WELDED.
 - 13 NEW #4 COPPER GROUND ELECTRODE CONDUCTOR RUN IN 3/4" CONDUIT TO (2) 3/4" X 10'-0" COPPER CLAD GROUND RODS AND BUILDING STEEL. GROUND RODS TO BE INSTALLED IN A GRASSY AREA A MINIMUM OF 20'-0" APART IN A QUIAZITE GROUND ROD BOX. CONNECTIONS TO BE EXOTHERMIC WELDED. CONNECTION TO BUILDING STEEL TO BE EXOTHERMIC WELDED.
 - 14 ALL CONDUITS SHOWN ON THE ELECTRICAL RISER INSTALLED ABOVE GROUND INCLUDING 'ELBOW' SHALL BE RIGID GALVANIZED STEEL.

FPL

February 7, 2019

Charles Yost
14180 Palmetto Frontage Road Suite 22
Miami Lakes, FL 33016

Re: Available Fault Current for PBA Fern Isle Park

Dear Charles Yost:

Thank you for contacting FPL about the available fault current at PBA Fern Isle Park. Based on the plans you have provided dated January 10 2019, the maximum available fault current at the transformer secondary terminals is estimated to be 21110 symmetrical amperes at 120/240 volts. The protective device on the line side of the transformer currently in place or to be installed and serving your property located at the subject location is a 10 amp type KS fuse. The primary service voltage is 13.2KV L-L. This calculated symmetrical fault current is not intended for use as the basis for motor starting calculations and does not include:

- Consideration for any motor contribution or
- Fault current asymmetry.

The FPL equipment currently serving or planned to serve your facility may change over time as a result of any number of factors, including but not limited to transformer replacements due to load growth, electrical grid changes or emergencies. As a result, although we are providing you with this information for the sole purpose of assisting you in the completion of your study, you and your client should not design, install or operate your system in reliance upon any expectation that the specific size and type of equipment currently in place will remain so. If and when the size and type of the equipment changes, our employees are not always in a position to immediately notify customers.

As the construction project progresses, any questions or information you may need can be communicated through me. I have enclosed my business card for easy reference and look forward to hearing from you in the near future.

Sincerely,
Christian Palom
Christian Palom
Associate Engineer

Fault Current Calculation Results

Calculation of Fault Current
Fault SCA Source = TA Secondary
SCA Available = 21110
Length Units = Feet
System Voltage = 240
System Phase = 1 Phase

Transformers

Name	PH	Size	Pri.V	Sec.V	%Z	SCA,L-L	SCA,LN
TA FPL Pole TX	1-PH	100	13200	240	1.3	21110	

S/F Service Lateral to Service Meter

Name	Cond	Cable	Size	Qty	Feet	SCA,L-L	SCA,LN
S/F Service Lateral to Service Meter	PVC	1/c, CU	250	1	110	10,345	7,682

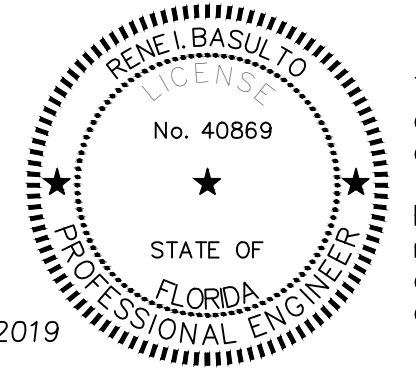
Main-Feeders

Name	Cond	Cable	Size	Qty	Feet	SCA,L-L	SCA,LN
F1 Feeder from Service Meter to Panel MDP	PVC	1/c, CU	250	1	30	9,082	6,367

F1 Sub-Feeders

Name	Cond	Cable	Size	Qty	Feet	SCA,L-L	SCA,LN
S1 Feeder from Panel MDP to Panel RR	EMT	1/c, CU	3/0	1	5	8,823	6,115
S2 Feeder from Panel MDP to Panel ST	PVC	1/c, CU	3/0	1	245	3,895	2,221

Source: EDR, Electrical Designer's Reference
Software Version: 8.2 (Build 2014). Based on the 2014 NEC®.
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Project No.- 18018

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SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



**PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125**

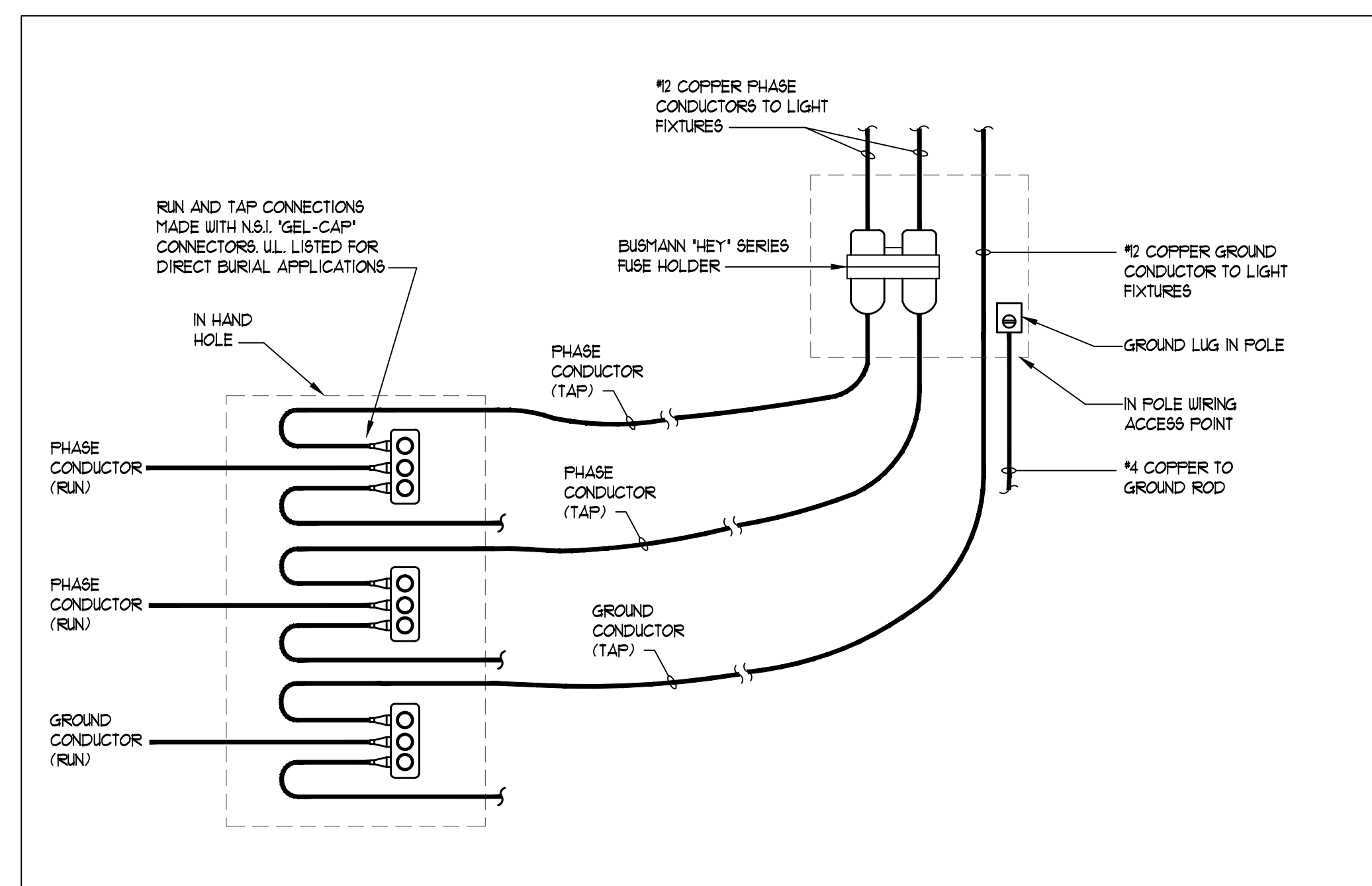
**ELECTRICAL RISER
ELECTRICAL PANELS
FPL FAULT CURRENT LETTER
AND CALCULATIONS**

SHEET TITLE:

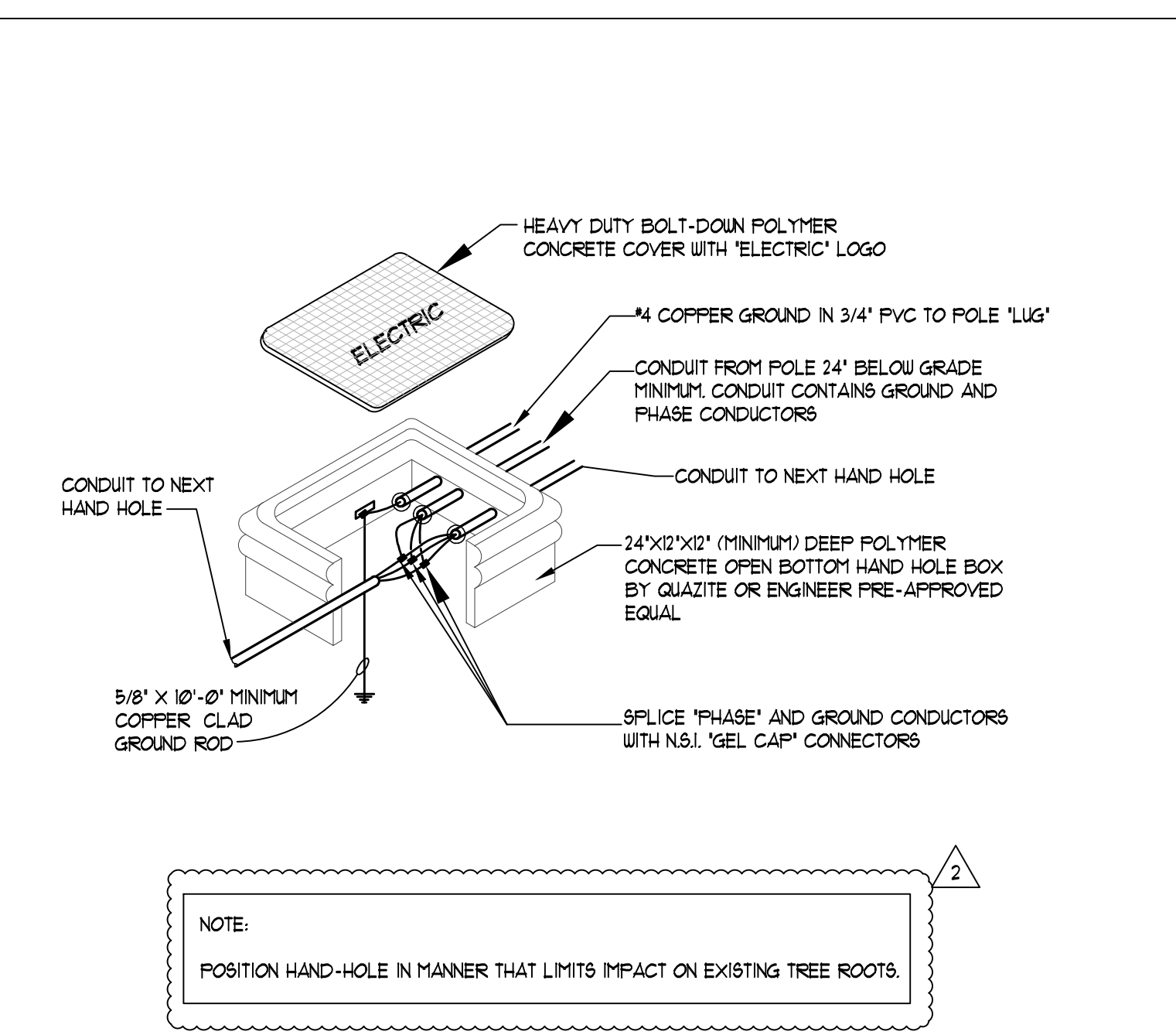
LICENSED PROFESSIONAL
RENE I. BASULTO, P.E.
FL LICENSE NUMBER
REC. #40869
DATE:

No.	REVISIONS - SUBMITTALS	DATE
1	BUILDING DEPARTMENT COMMENTS	02/04/2019

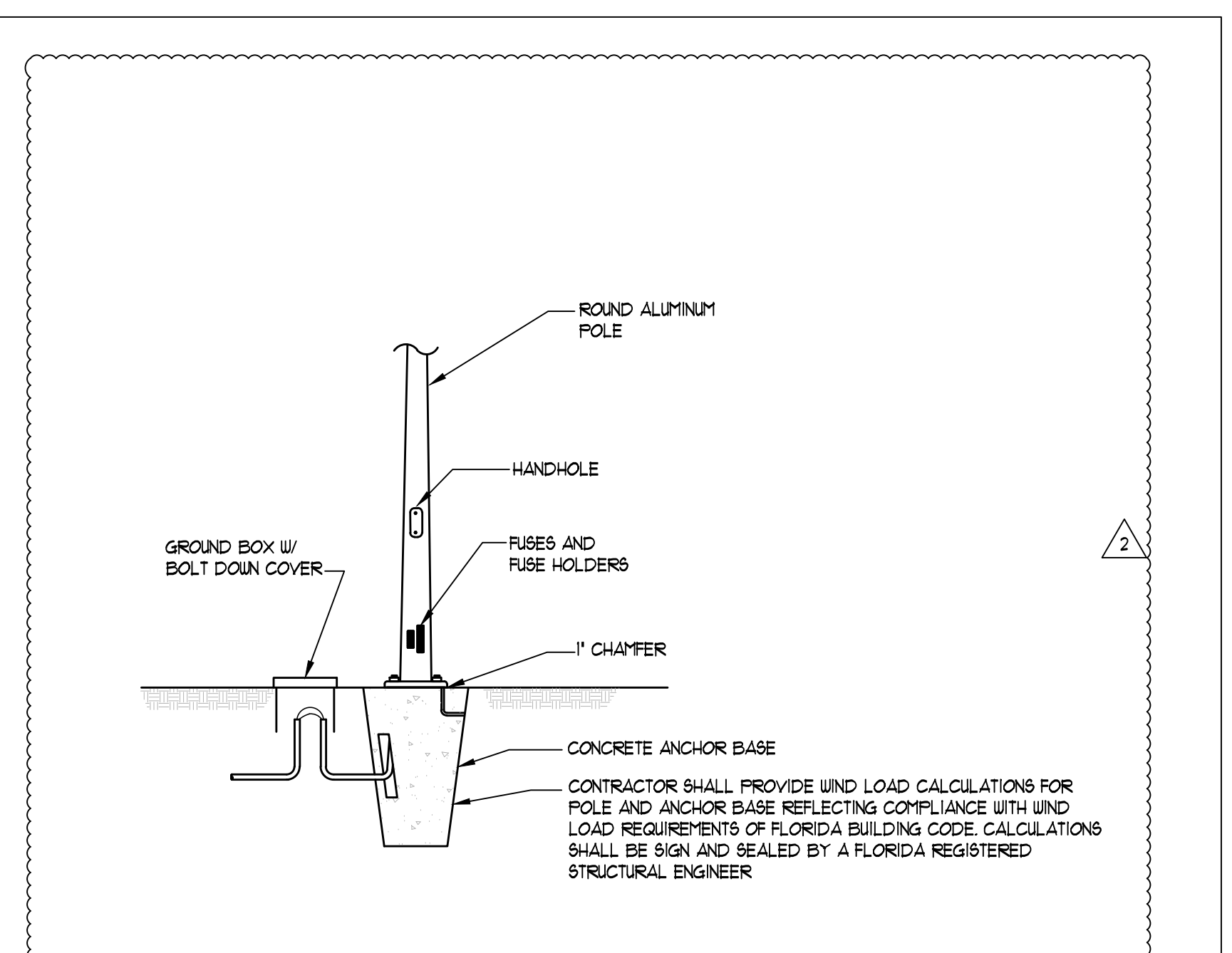
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SPlicing DETAIL
N.T.S.



TYPICAL HAND HOLE BOX DETAIL
N.T.S.
NOTE: WIRE NUTS NOT PERMITTED.



CONCRETE ANCHOR BASE DETAIL - FIXTURES SA AND SB
N.T.S.



Varieta
Single Array
LED Flood Light

FLI/BLK

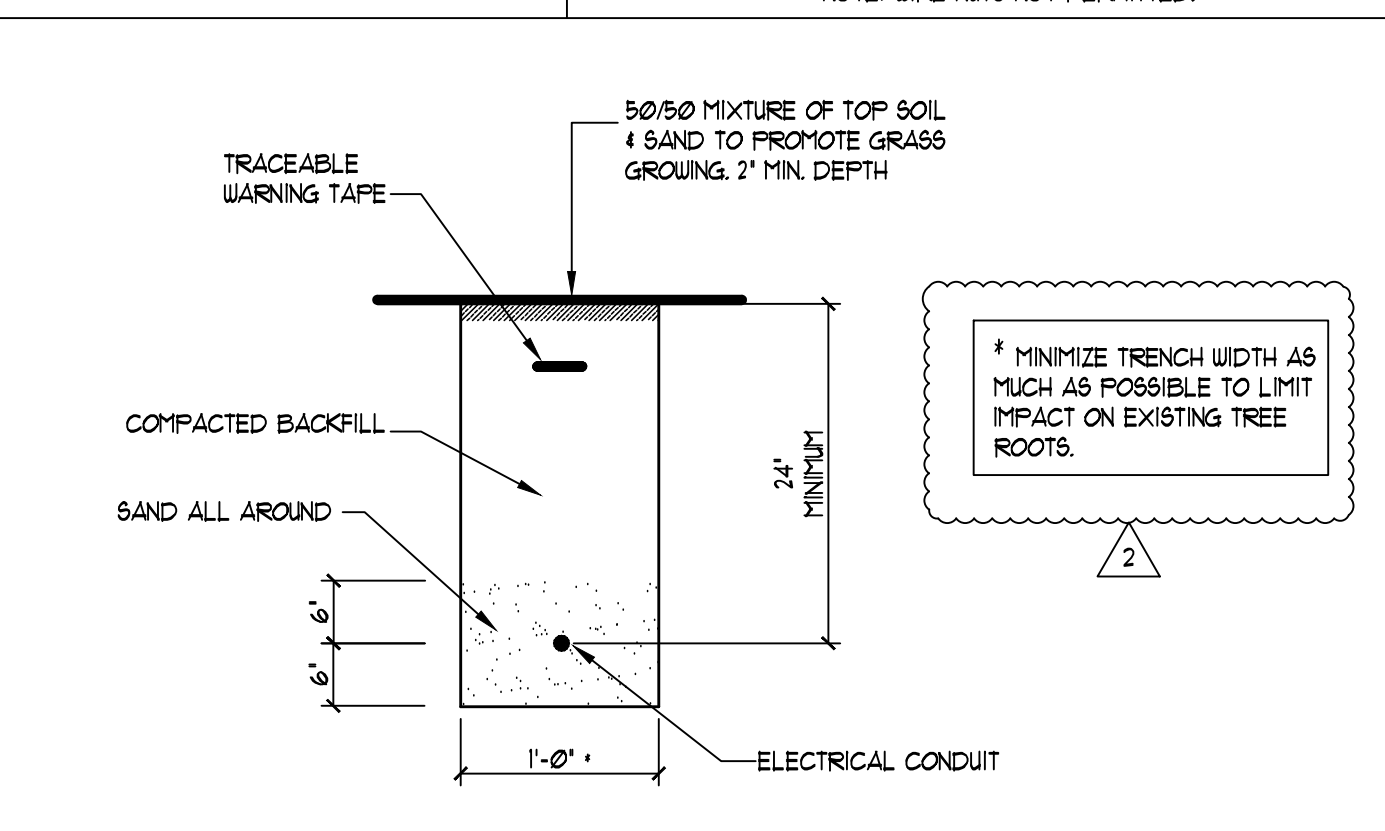
Features
The Amerlux Varieta Flood Luminaire employs solid state technology and precision engineering to provide LED solutions for exterior signage, wall washing, and landscape layouts. All components are encapsulated inside a single attractive enclosure designed for superior performance in weather resistant applications. Offered in a choice of finishes, and color temperatures, three mounting options and glare shield are also available.

Product Overview

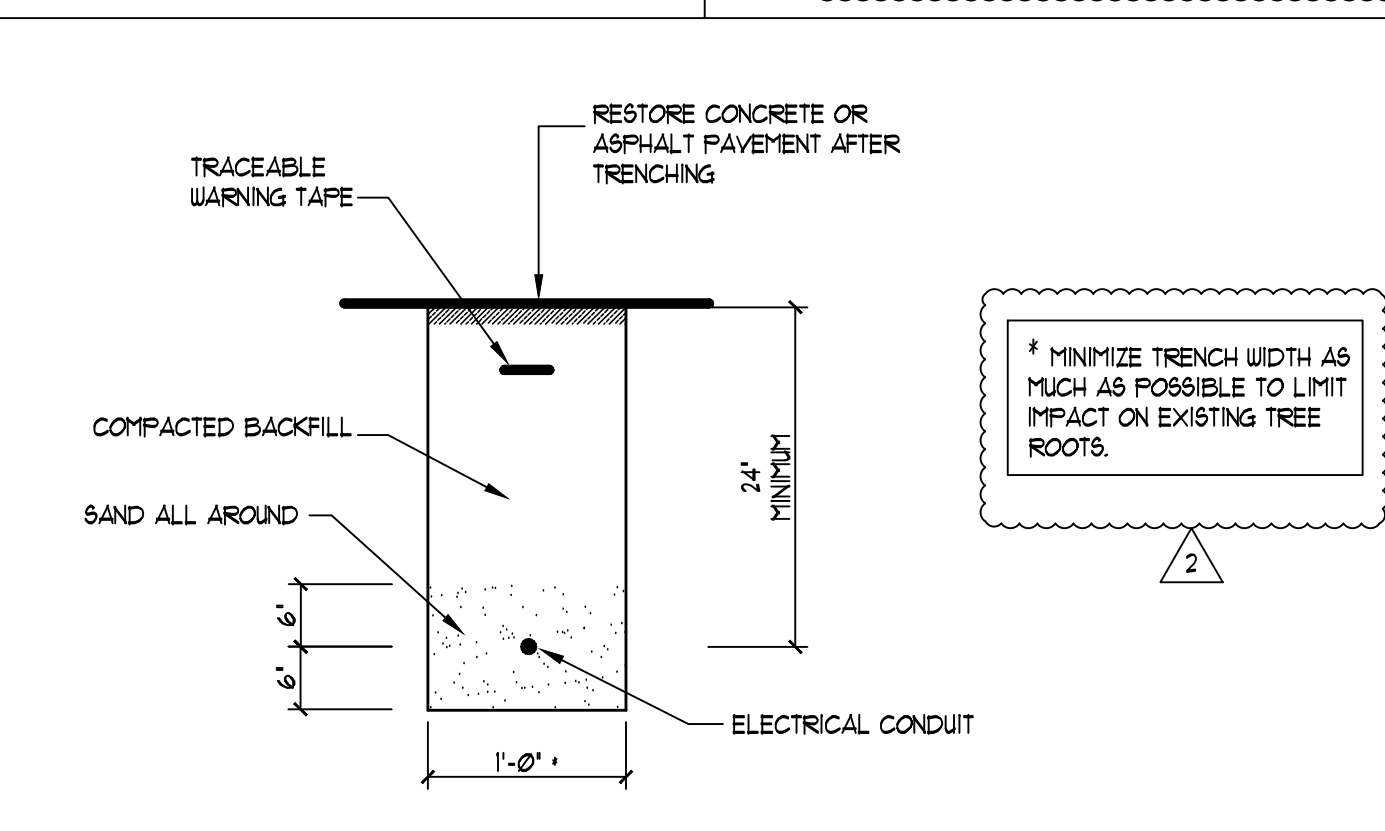
Wattage:	3W
Lumen Output:	3,170 lm
Color Temp:	3,000K / 4,000K / 5,000K
Dimming:	0-10 volt

LIGHT FIXTURE

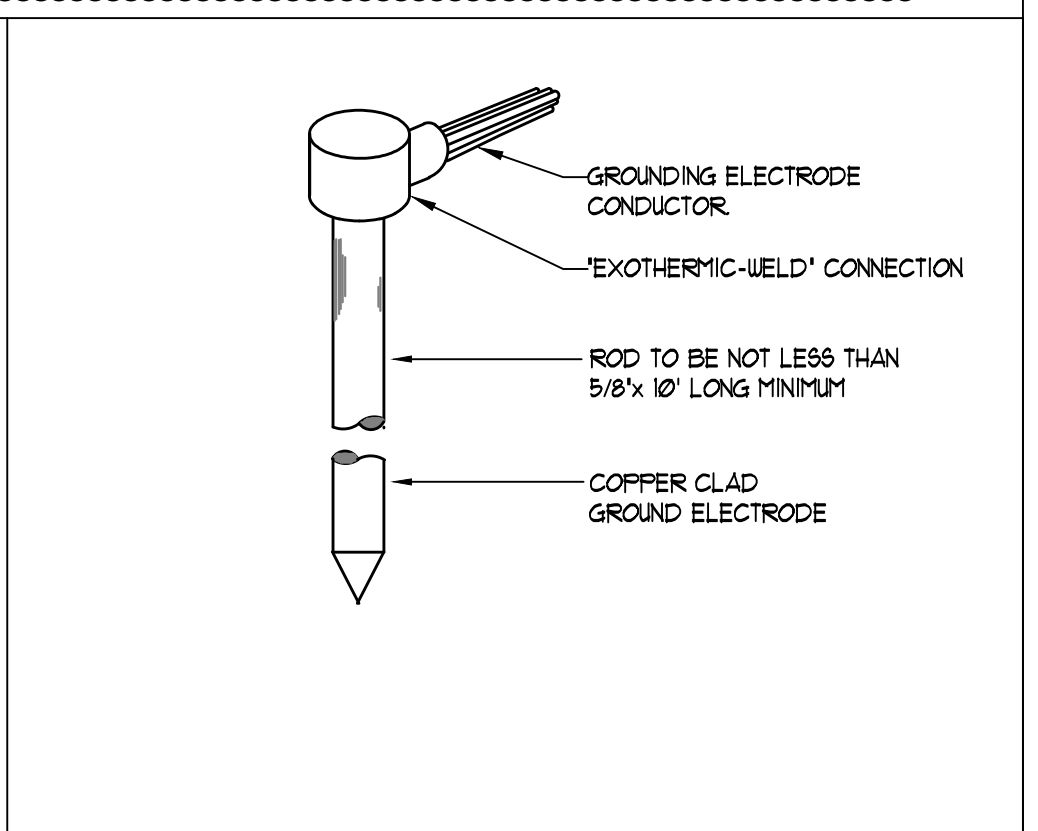
TYPE SC



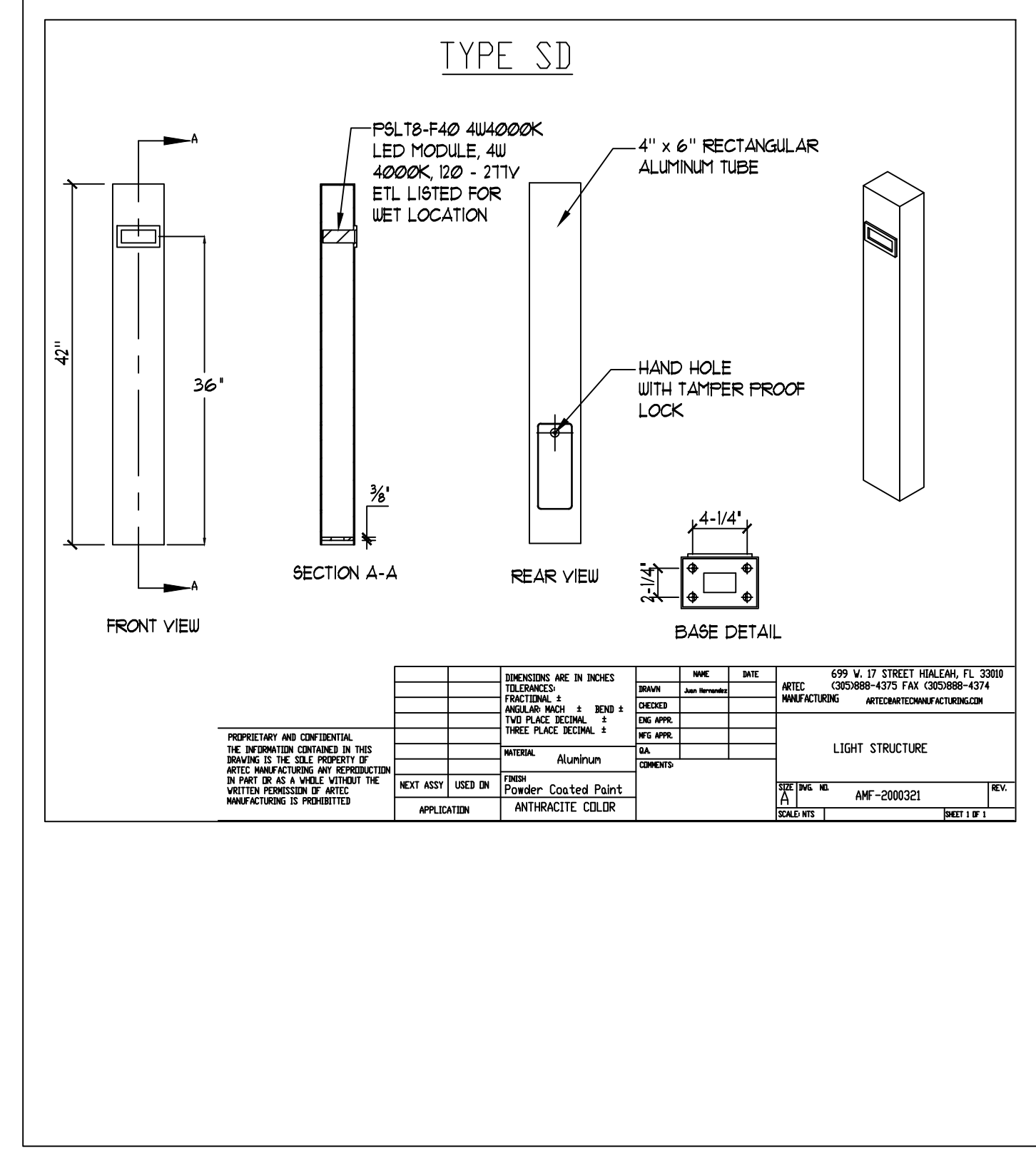
TYPICAL TRENCH SECTION IN GRASS/SOIL
N.T.S.



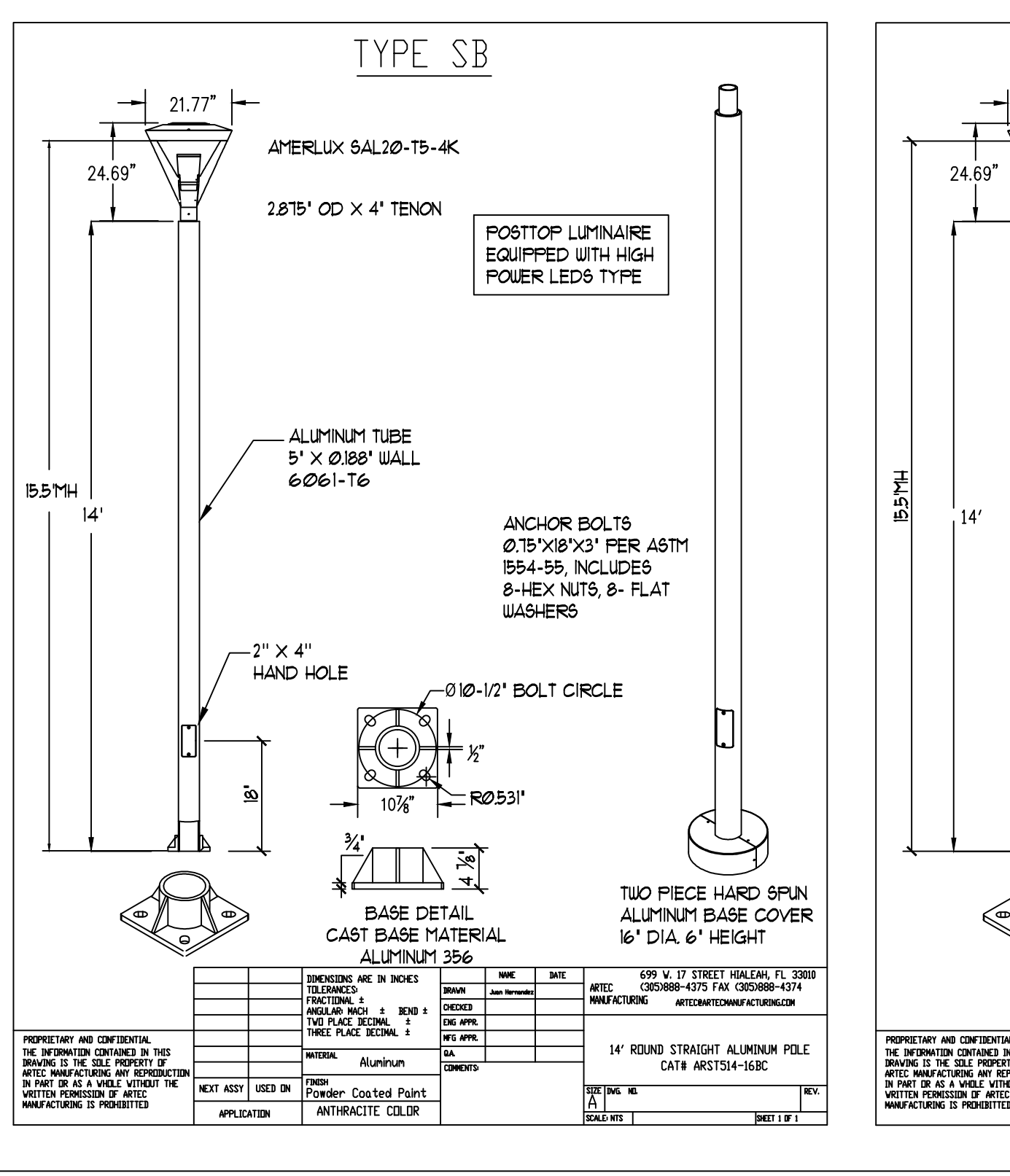
TYPICAL TRENCH SECTION IN PAVEMENT
N.T.S.



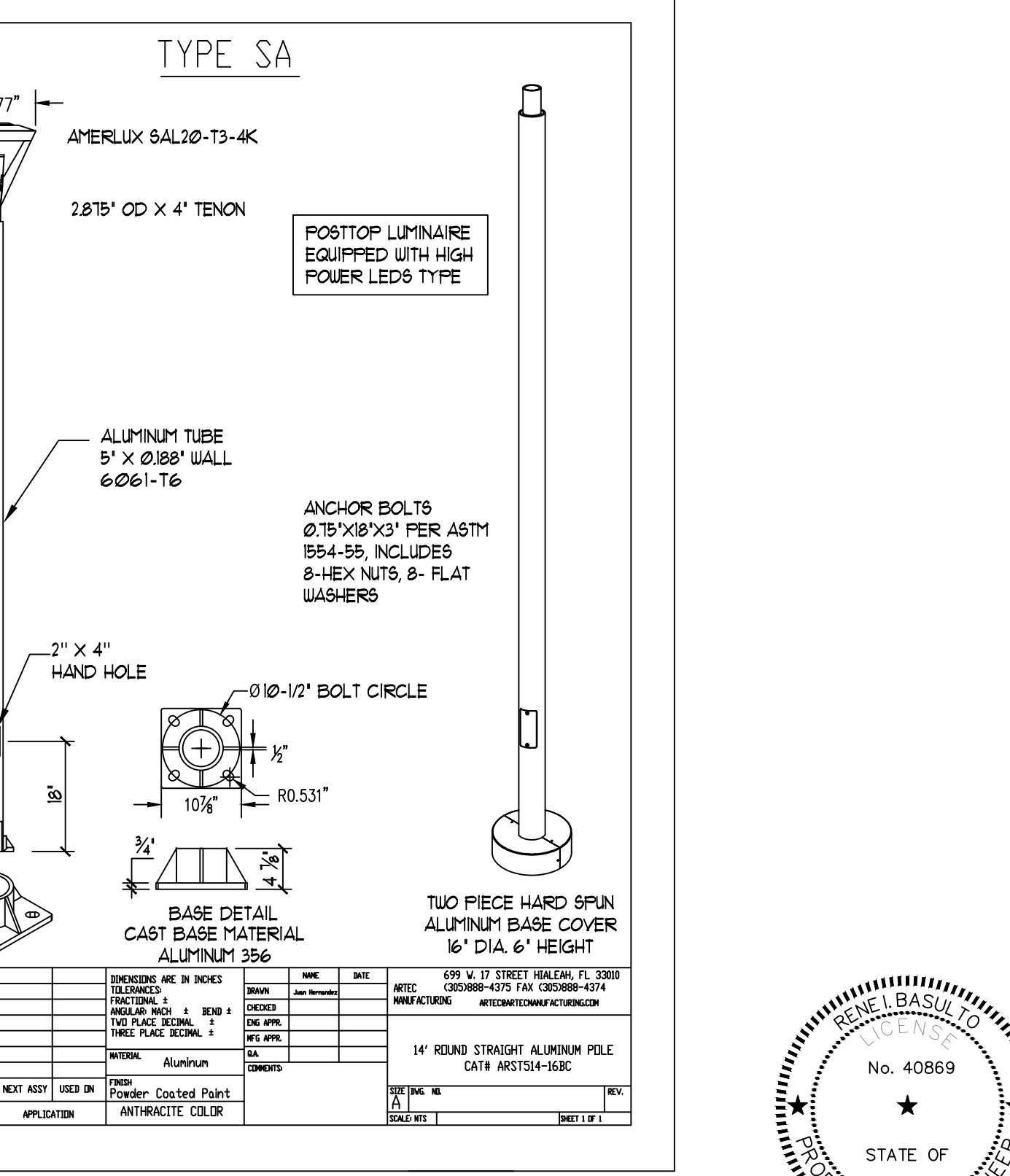
GROUND ROD DETAIL
N.T.S.



TYPE SD



TYPE SB



TYPE SA

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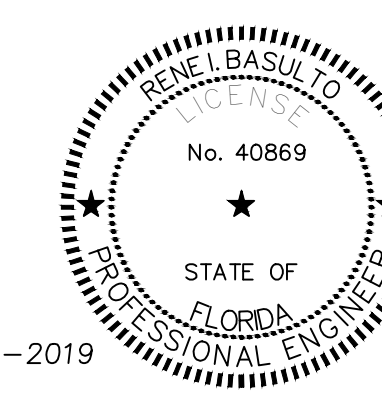
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2304 N.W. 14TH STREET, MIAMI, FL 33125

ELECTRICAL AND LIGHTING DETAILS

SHEET TITLE:

LICENSED PROFESSIONAL
RENE I. BASULTO, P.E.
FL LICENSE NUMBER
REC. #40869
DATE:

No.	REVISIONS - SUBMITTALS	DATE
2	BUILDING DEPARTMENT COMMENTS	04/26/2019



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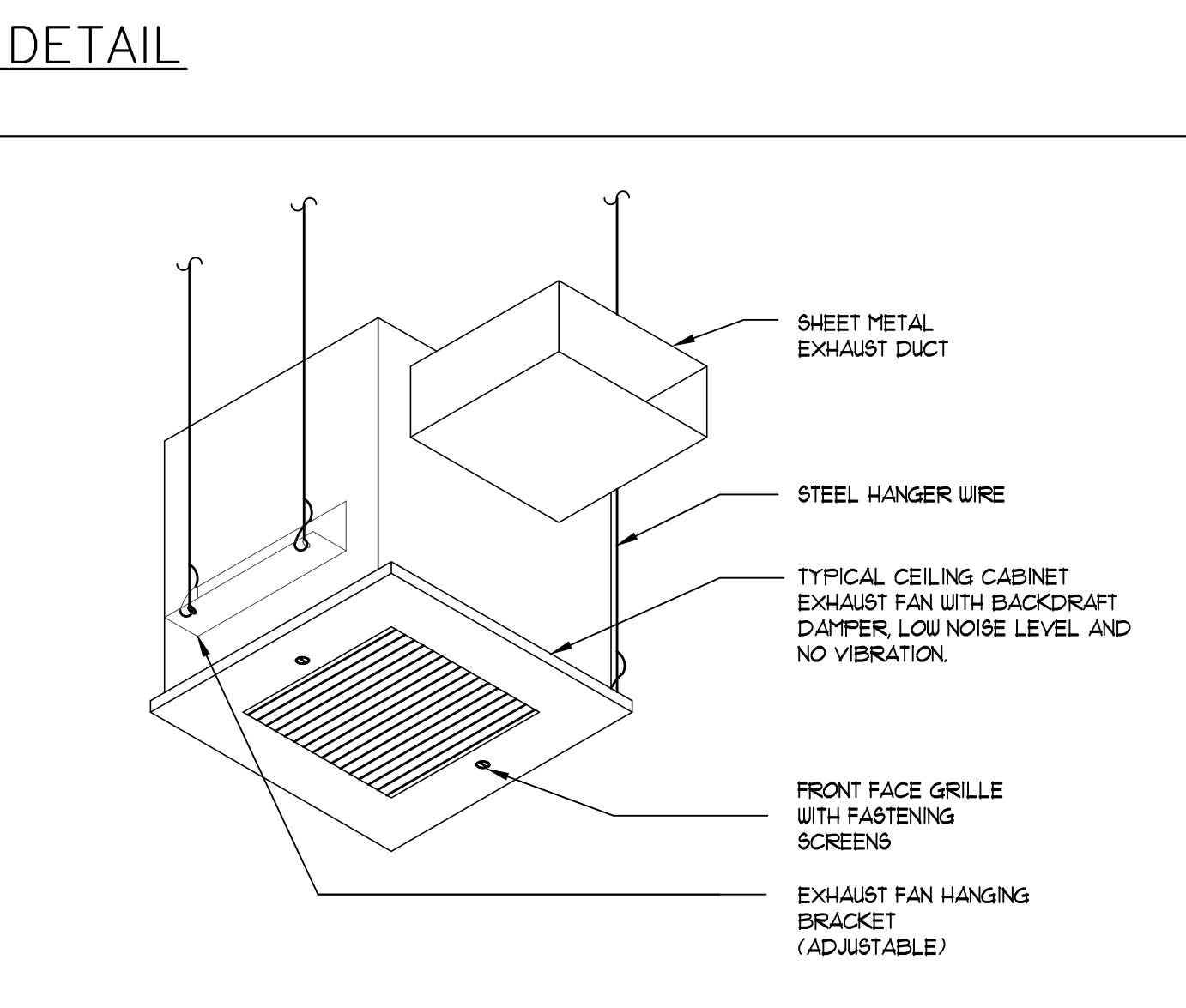
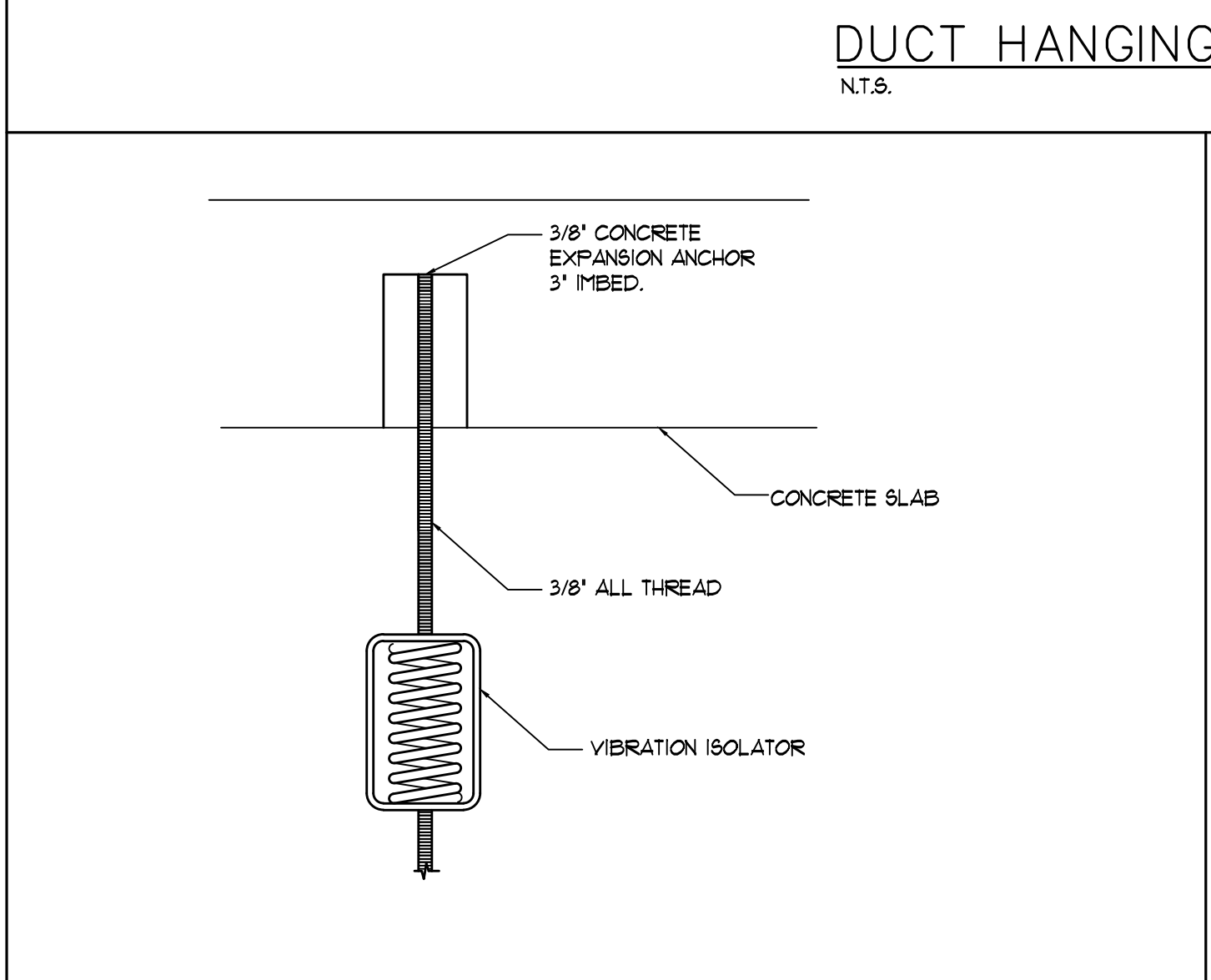
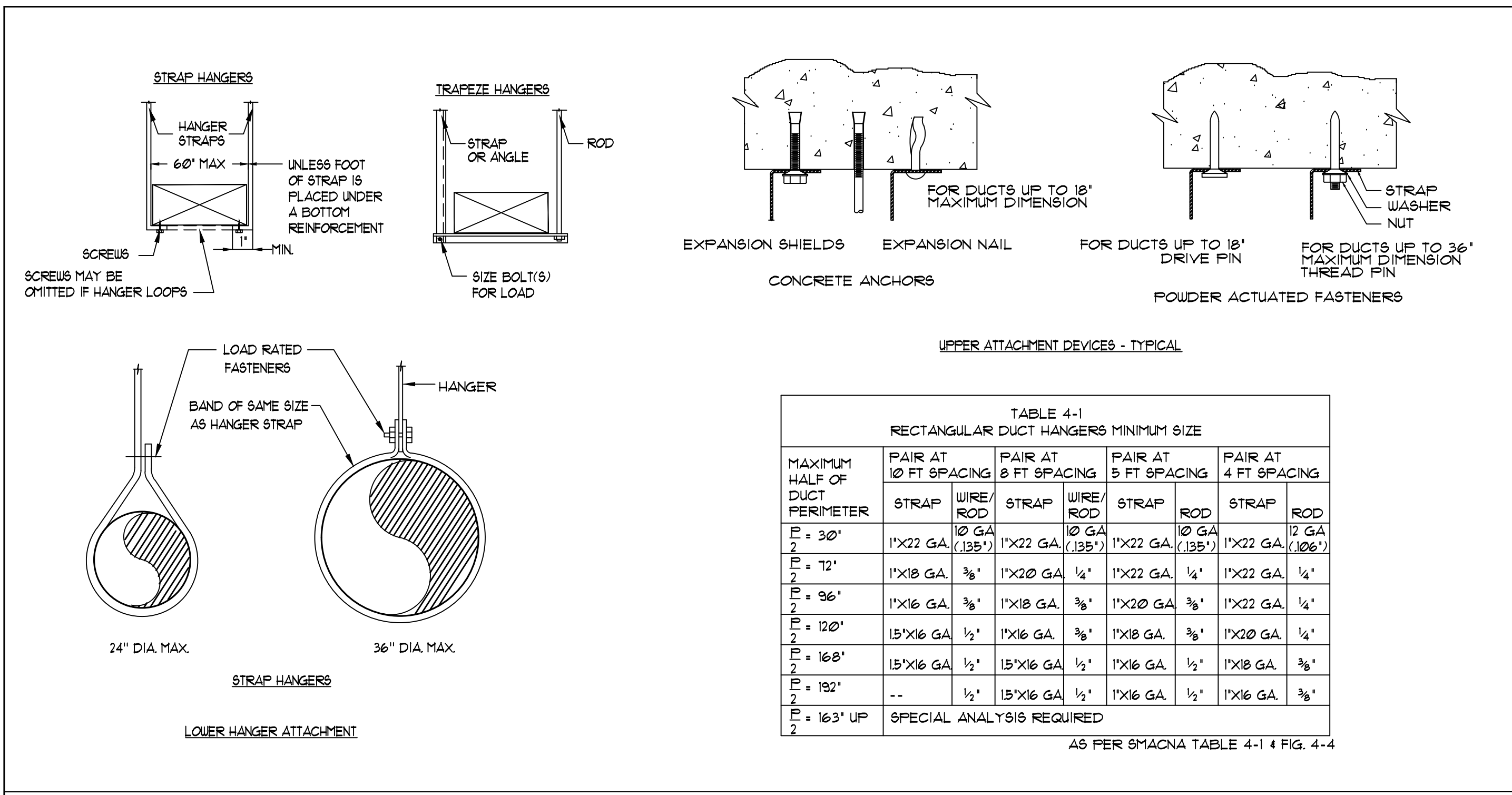
Project No. 18018

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FAN SCHEDULE

UNIT TAG	EF-1 AND EF-2	EF-3 AND EF-4
SERVICE AREA	RESTROOMS	ELECT/CUSTODIAL
MANUFACTURER	LOREN COOK	LOREN COOK
MODEL	GC-120	GC-168
CONFIGURATION	CEILING	CEILING
AIR FLOW (CFM)	440	100
EXTERNAL STATIC PRESSURE (IN. WG)	0.3	0.3
NOISE (SONES)	3.0	2.0
MOTOR FAN POWER (W)	165	40
MOTOR FAN SPEED (RPM)	1061	884
ELECTRICAL SERVICE (VOLT/FH/PH)	115/1/60	115/1/60
OPERATING WEIGHT (LBS)	34	15
DIMENSION (LxWxH) (IN)	17 X 12 X 12	14 X 16 X 8
NOTES		

NOTE:

- PROVIDE WITH FACTORY PRE-WIRED SPEED CONTROL.
- PROVIDE DISCONNECT SWITCH COORDINATE WITH ELECTRICAL CONTRACTOR.
- PROVIDE WITH BACK DRAFT DAMPER.
- PROVIDE VIBRATION ISOLATOR.
- FAN SHALL BE OF ALUMINUM CONSTRUCTION.
- ALL FANS SHALL RUN CONTINUOUSLY.
- PROVIDE WITH ALUMINUM GRILLE.

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
☒	SUPPLY AIR
☑	RETURN AIR CEILING GRILLE
☒	EXHAUST AIR CEILING GRILLE
▭	SIDE WALL GRILLE, LOUVER
▲	FIRE DAMPER
▴	SMOKE DAMPER
■	MOTORIZED VOLUME CONTROL DAMPER
—V/D	MANUAL VOLUME CONTROL DAMPER
⊙	THERMOSTAT/TEMP. SENSOR
⊕	HUMIDISTAT
⊙	DUCT SMOKE DETECTOR
⊙	CARBON DIOXIDE SENSOR
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
AFMD	AIR FLOW MEASURING DEVICE
⊙	AIR DISTRIBUTION DEVICE TAG
⊙	GRAVITY VENTILATOR
⊙	EXHAUST FAN
o/a	OUTDOOR AIR
e/a	EXHAUST AIR
uc	1' UNDER CUT DOOR (TYP.)

NOTE: NOT ALL SYMBOLS MAY APPLY TO THESE PLAN.

HVAC DESIGN REQUIRES

	YES	NO
DUCT SMOKE DETECTOR		X
NEW FIRE DAMPER'S		X
SMOKE DAMPER'S		X
FIRE RATED ENCLOSURE		X
FIRE RATED ROOF / FLOOR		X
CEILING ASSEMBLY		X
FIRE STOPPING		X
SMOKE CONTROL		X

H.V.A.C. GENERAL NOTES:

- THE WORK THAT IS TO BE DONE UNDER THIS HEADING INCLUDES THE FURNISHING OF ALL LABOR, MATERIALS, EQUIPMENT, PERMITS, FEES, INSURANCE, TEST, INSURANCE, ETC. REQUIRED FOR THE COMPLETION OF THE HVAC SYSTEM SHOWN ON THE DRAWINGS AND/OR LISTED BELOW.
- OBTAIN FULL INFORMATION REGARDING FACILITIES AND LIMITATIONS OF SPACE AVAILABLE FOR INSTALLATION OF THE EQUIPMENT AND MATERIALS UNDER CONTRACT AND PROVIDE READY ACCESSIBILITY TO DAMPERS, VALVES AND OTHER APPURTENANCES INCLUDING ANY PART OF THE SYSTEM REQUIRED TO BE REACHED FOR BALANCING, TESTING, MAINTENANCE AND OPERATION.
- PLANS ARE GENERALLY DIAGNOSTIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING, ELECTRICAL, AND STRUCTURAL PLANS AND ALL PLANS RELATED TO PROJECT SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION AND IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS. WORK SHALL ALSO BE COORDINATED WITH STRUCTURE AND AVAILABLE SPACE TO ENSURE FIT AND PROPER CLEARANCES ARE BEING PROVIDED. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT - ENGINEER IMMEDIATELY.
- CUT ALL OPENINGS AND CHASES REQUIRED TO ACCOMMODATE THE WORK UNDER THIS DIVISION, AND REPAIR ALL FLOORS, WALLS, ETC. DAMAGED BY WORK. ALL WORK PERFORMED UNDER THIS HEADING SHALL CONFORM IN EVERY RESPECT TO THE FINISH AND QUALITY OF MATERIALS AND WORKMANSHIP SPECIFIED UNDER APPROPRIATE SECTIONS FOR THE BUILDING.
- SUBMIT SHOP DRAWINGS OF ALL MATERIALS AND EQUIPMENT FOR APPROVAL PRIOR TO FABRICATION. DUCTWORK SHOP DRAWINGS SHALL BE SUBMITTED AT 1/4" = 1'-0" SCALE AND BE COORDINATED WITH OTHER TRADES.
- ALL DUCTWORK SHALL BE GALVANIZED STEEL WITH GAUGES, DUCT CONSTRUCTION, BRACING AND SUSPENSION IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE LATEST EDITION OF THE ASHRAE GUIDE AND SPECIFICATIONS. DUCT SIZES INDICATED ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. VERIFY EXACT LOCATION OF DUCT WITH RESPECT TO STRUCTURE AND OTHER TRADES BEFORE FABRICATION.
- CONTRACTOR SHALL WARRANT ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN 1 YEAR FROM DATE OF ACCEPTANCE.
- INDEPENDENT CONTRACTED FIRM SHALL PERFORM TEST AND BALANCE SYSTEMS AND PROVIDE REPORT IN ACCORDANCE WITH THE 2014 FLORIDA BUILDING CODE ENERGY CONSERVATION C408.22 FOR ALL MECHANICAL EQUIPMENT, AIR DEVICES, DAMPERS, AHUS, FANS AND HYDRONIC SYSTEMS. BALANCING PROCEDURES SHALL BE IN ACCORDANCE WITH THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) PROCEDURAL STANDARDS, THE ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS OR EQUIVALENT PROCEDURES AND SHALL INCLUDE AIR SIDE OF HVAC SYSTEM INDICATING AIR QUANTITIES FOR ALL SUPPLY, RETURN AND EXHAUST AIR FLOWS AND PRESSURE DROP THROUGH COILS, ENTERING AND LEAVING AIR TEMPERATURES ON SUPPLY DEVICES AND ACROSS COILS.
- CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF RECORD DRAWINGS ON SITE INDICATING ANY MODIFICATIONS TO THE DESIGNED SYSTEM LAYOUT. SET SHALL CLEARLY INDICATE ACTUAL INSTALLED CONDITIONS AND LOCATION OF ALL EQUIPMENT, PIPING, DUCTWORK, CONTROL DEVICES, ETC. RECORD SET SHALL BE ACCURATELY UPDATED WEEKLY BY THE CONTRACTOR. ACCURATE "AS-BUILT" SET SHALL BE SUPPLIED TO THE ARCHITECT/ENGINEER AT COMPLETION OF PROJECT. NO MAJOR CHANGES SHALL BE MADE TO THE HVAC DESIGN ENGINEERING UNLESS IT HAS BEEN COORDINATED, DRAWN AND SUBMITTED FOR APPROVAL.
- CONTRACTOR SHALL BASE HIS PROPOSAL UPON THE EQUIPMENT AS SCHEDULED OR SPECIFIED, USING THE MANUFACTURERS AND MODEL NUMBERS AS CALLED FOR IN THE SPECIFICATIONS AND SCHEDULED ON THE DRAWINGS. IF MORE THAN ONE MANUFACTURER OF EQUIPMENT IS SPECIFIED, ANY ONE OF THE MANUFACTURERS OF EQUIPMENT MAY BE USED IN THIS CONTRACTOR'S PROPOSAL. IF THIS CONTRACTOR WISHES TO USE EQUIPMENT NOT SPECIFIED HE MUST, AT THE TIME OF BIDDING, SUBMIT SEPARATELY ON LETTERHEAD STATIONARY OF THE BIDDER, THE EQUIPMENT HE WOULD SUBSTITUTE AND THE COST TO BE ADDED OR TO BE DEDUCTED FROM HIS PROPOSAL.
- MECHANICAL CONTRACTOR SHALL VERIFY DIRECTION OF EXISTING STRUCTURE BEFORE INSTALLATION OF EQUIPMENTS AND DUCTWORK SHOULD ANY DISCREPANCIES BE FOUND CONTACT ARCHITECT/ENGINEER.
- ALL EQUIPMENT SHALL BE PROVIDED WITH VIBRATION ISOLATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS TO REDUCE/ELIMINATE NOISE AND VIBRATION FROM TRANSFERRING TO THE OCCUPIED SPACE.
- FIRE DAMPERS SHALL BE PROVIDED AT ALL FIRE RATED PENETRATIONS OF ONE HOUR OR GREATER. DAMPERS SHALL BE UL LISTED AND INSTALLED IN STRICT ACCORDANCE WITH THEIR LISTING, NFPA AND MANUFACTURER'S INSTRUCTIONS. DAMPERS SHALL BE PROVIDED AS INDICATED ON DRAWINGS AND/OR AS REQUIRED BY CODE. REFER TO ARCHITECTURAL DRAWINGS FOR WALL/ROOF RATING INFORMATION CONTRACTOR SHALL VERIFY AND CONFIRM QUANTITY OF DAMPERS BEFORE BIDDING.
- MATERIALS WITHIN MECHANICAL ROOMS USED AS RETURN FLENUMS SHALL BE NON-COMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84.
- ALL MECHANICAL EQUIPMENT AND INSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF THE (2017) FLORIDA MECHANICAL CODE, THE FLORIDA BUILDING CODE, THE STATE ENERGY CODE, NFPA 90A, 101, AND ALL APPLICABLE CODES AND ORDINANCES.

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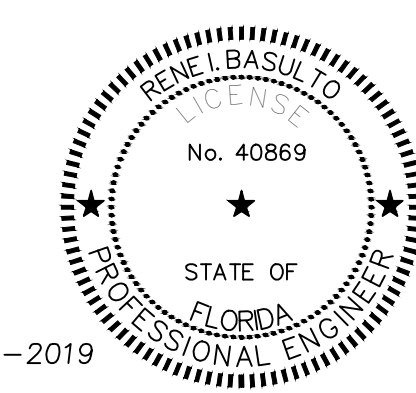
PBA FERNISE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125

GENERAL NOTES AND SYMBOL LEGEND

SHEET TITLE:

LICENSED PROFESSIONAL
RENE I. BASULTO, P.E.
FL LICENSE NUMBER
REC. #40869

No.	REVISIONS - SUBMITTALS	DATE



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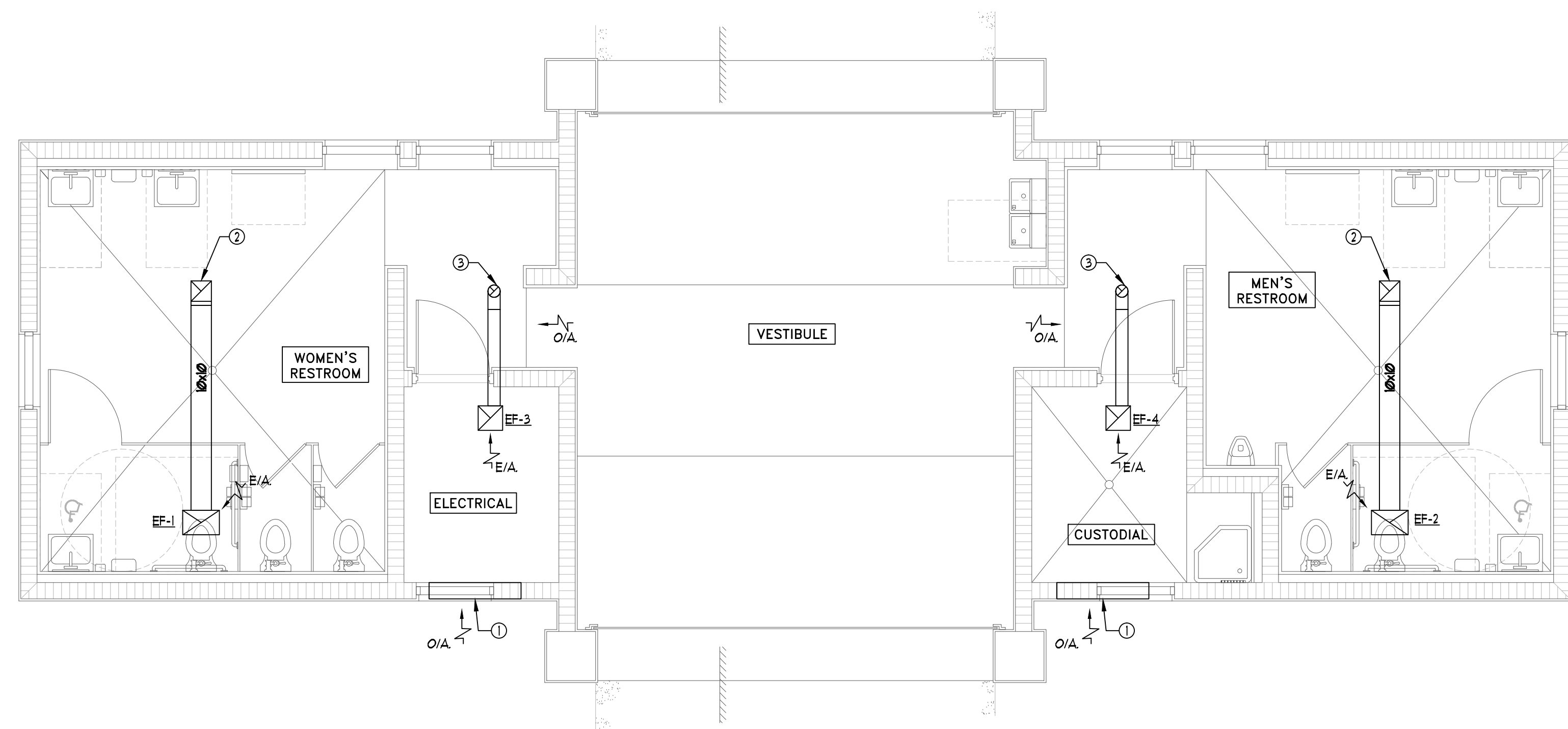
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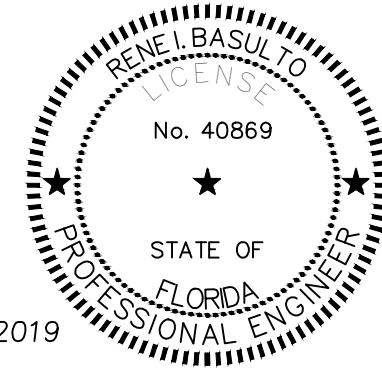
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RESTROOM FLOOR PLAN - MECHANICAL
SCALE: 1/4" = 1'-0"

- KEY NOTES**
- ① ARCHITECTURAL LOUVER REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
 - ② 10" x 10" DUCT UP TO 10" x 10" GALVANIZED GOOSENECK VENT ROOF CAP WITH BIRD SCREEN.
 - ③ 6" DUCT UP TO GALVANIZED GOOSENECK VENT ROOF CAP WITH BIRD SCREEN.



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**PBA FERN ISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125**

SHEET TITLE:
RESTROOM MECHANICAL PLAN

LICENSED PROFESSIONAL
RENE I. BASULTO, P.E.
FL LICENSE NUMBER
REC. #40869
DATE:

No.	REVISIONS - SUBMITTALS	DATE

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PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.	CU	HU	WASTE	VENT	ADA/ANSI HEIGHT	MAX WATER USAGE	COLOR FINISH	REMARKS
UC-1	FLOOR MOUNTED WATER CLOSET HANDICAPPED ACCESSIBLE	AMERICAN STANDARD	3461528	1'		3'	2'	11'-19" AFF	128 GPF	WHITE	MADERA ADA ELONGATED FLUSH VALVE WATER CLOSET WITH BATTERY OPERATED FLUSH VALVE & EXTRA HEAVY DUTY OPEN FRONT SEAT WITH CHROME STUDS AND HINGES. PROVIDE 120 VAV/24 VAV TRANSFORMER AS NEEDED.
UC-2	FLOOR MOUNTED WATER CLOSET	AMERICAN STANDARD	2234001	1'		3'	2'		128 GPF	WHITE	MADERA ELONGATED FLUSH VALVE WATER CLOSET WITH BATTERY OPERATED FLUSH VALVE & EXTRA HEAVY DUTY OPEN FRONT SEAT WITH CHROME STUDS AND HINGES. PROVIDE 120 VAV/24 VAV TRANSFORMER AS NEEDED.
UR-1	URINAL-WALL MOUNTED	AMERICAN STANDARD	65930001	3/4'		2'	1-1/2'	11" AFF	0.5 GPF	WHITE	WASHBROOK FLOWISE WALL MOUNTED FIXTURE SUPPORTED BY JR. SMITH CONCEALED WALL CARRIER. CARRIER SHALL BE FULLY BOLTED TO FLOOR. AMERICAN STANDARD 6063.025.002, 0.5 GPF FLUSH VALVE.
L-1	LAVATORY HANDICAPPED ACCESSIBLE	AMERICAN STANDARD	0955.012 WITH 1385.000 FAUCET	1/2'	1/2'	2'	1-1/2'		0.5 GPM	WHITE	LUCERNE WALL HUNG LAVATORY. PROVIDE GRID DRAIN & WALL CARRIER CONCEALED ARM'S. PROVIDE UNDER COUNTER TEMPERING VALVE THAT CONFORMS TO ASSE 1070 OR CSA B25.3. PROVIDE 'TRUEBRO' UNDER SINK LAV GUARD.
SSK-1	SERVICE SINK	AMERICAN STANDARD FLOWWELL	T145.811	1/2'	1/2'	3'	1-1/2'		22 GPM	WHITE	28"x28" ENAMELED CAST IRON SERVICE SINK WITH REMOVABLE VINYL RIM GUARD. FAUCET AMERICAN STANDARD 'HERITAGE' 835412 WITH ACCESSIBLE EXPOSED YOKE, WALL MOUNTED WITH VACUUM BREAKER AND STOPS IN SHANK.
FD-1	FLOOR DRAIN	JR SMITH	DX230			3'			2.0 DFL	BRASS	INSTALL WITH TRAP PRIMER FROM NEARBY COLD WATER LINE AS REQUIRED. SEE DETAILS FOR ADDITIONAL INFORMATION.
WHY-1	WALL HYDRANT	ZURN	Z1330-C	3/4'						BRASS	ENCASED, ANTI-SIPHON, AUTOMATIC DRAINING, WALL HYDRANT WITH INTEGRAL BACK FLOW PREVENTED. ALL BRONZE PARTS 3/4" HOSE CONNECTION CHROME PLATED ROUGH CAST BRONZE BOX AND HINGE COVER. PROVIDED WITH OPERATING KEY.
EW-C-1	ELECTRIC WATER COOLER	ELKAY	EZH20	1/2'		2'	1-1/2'			STAINLESS STEEL	ADA COMPLIANT BI-LEVEL BOTTLE FILLING STATION, VANDAL RESISTANT, 80 GPH, 6.0 FLA, 15V/160HZ.
EW-H-1	TANKLESS ELECTRIC WATER HEATER	CHRONOMITE	E-80L / 211	3/8"	3/8"					STAINLESS STEEL	INSTANT TEMP. - LOW FLOW, 8000 WATTS, 29 AMPS, 211 / 1 / 60, ACTIVATION FLOW 0.35 GPM, 44 F TEMPERATURE RISE @ 125 GPM. SATIN FINISH STAINLESS STEEL HOUSING.
EW-H-2	TANKLESS ELECTRIC WATER HEATER	CHRONOMITE	ER-60L / 211	3/4'	3/4'					STAINLESS STEEL	INSTANT TEMP. - HIGH CAPACITY - LOW ACTIVATION, 16600 WATTS, 60 TOTAL AMPS (2X30), 211 / 1 / 60, ACTIVATION FLOW 0.35 GPM, 38 F TEMPERATURE RISE @ 3.0 GPM. SATIN FINISH STAINLESS STEEL HOUSING.

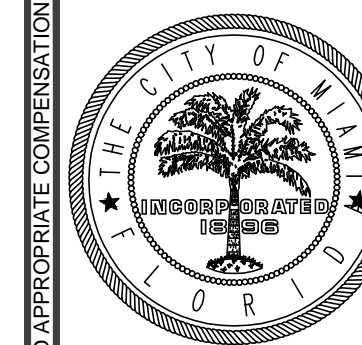
PLUMBING LEGEND

SYMBOL	DESCRIPTION
— — — — —	SANITARY PIPING
— SD —	STORM DRAINAGE PIPING
— GW —	GREASE WASTE PIPING
— — — — —	SANITARY VENT PIPING
— — — — —	COLD WATER PIPING (CW)
— — — — —	HOT WATER PIPING (HW)
— — — — —	HOT WATER RECIRC. PIPING (HWR)
— CD —	CONDENSATE DRAIN PIPING
— G —	NATURAL GAS PIPING
→	INDIRECT SAFE WASTE
— G —	GATE OR BALL VALVE
— G —	FULL PORT BALL VALVE
— A.A.V. —	AIR ADMITTANCE VALVE
— VTR —	VENT THROUGH ROOF
(FS-1)	PLUMBING FIXTURE NUMBER (REFER TO PLUMB FIXTURE SCHEDULE)
— R —	RISER NUMBER (REFER TO RISERS)
[E3]	EQUIPMENT NUMBER (REFER TO SPECS)
①	DRAWING KEYED NOTES
— F —	CHECK VALVE
— H —	WATER HAMMER ARRESTOR
— T —	"P" TRAP
— HB —	HOSE BIBB (HB) W/ VAC. BREAKER
— WHY —	WALL HYDRANT W/VAC. BREAKER AND LOCKING COVER
— P —	PRESSURE REDUCING VALVE
— P —	P 4 T VALVE
SAN	SANITARY
GW	GREASE WASTE
GDO	GUTTER DRAIN OUTLET
CO	CLEAN OUT
FCO	FLUSH FLOOR CLEAN OUT
FD	FLOOR DRAIN
COOG	CLEAN OUT ON GRADE
FD	FLOOR DRAIN
FS	FLOOR SINK
V	VENT
— P —	TRAP PRIMER (RESEAL) TO CLOSEST FIXTURE
— P —	POINT OF CONNECTION

GENERAL PLUMBING NOTES

- ALL WORK SHALL CONFORM WITH ALL LOCAL, STATE, FEDERAL ORDINANCES AND BUILDING CODES GOVERNING THE INSTALLATION OF THE PLUMBING SYSTEM. IF WORK AS LAID OUT, INDICATED OR SPECIFIED IS CONTRARY TO OR CONFLICTS WITH LOCAL ORDINANCES, BUILDING CODES AND REGULATIONS, THE CONTRACTOR SHALL REPORT IN WRITING TO THE ARCHITECT/ENGINEER BEFORE SUBMITTING A BID. THE ARCHITECT/ENGINEER WILL THEN ISSUE INSTRUCTIONS AS HOW TO PROCEED. WORK SHALL CONFORM TO 2014 FBC.
- THE DRAWINGS ARE TO BE CONSIDERED DIAGNOSTIC, NOT NECESSARILY SHOWING IN DETAIL OR SCALE ALL OF THE MINOR ITEMS. UNLESS SPECIFIC DIMENSIONS ARE SHOWN, THE STRUCTURAL, ARCHITECTURAL AND SITE CONDITIONS SHALL GOVERN THE EXACT LOCATIONS. CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYING OUT WORK, CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACES IN WHICH WORK WILL BE INSTALLED, AND MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM, OR SPACE CONDITIONS APPEAR INADEQUATE, ARCHITECT/ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH INSTALLATION. THIS CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE FIELD MODIFICATION IN LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF VARIOUS TRADES, EXISTING CONDITIONS, OR PROPER EXECUTION OF THE WORK.
- EXAMINE ALL DRAWINGS CAREFULLY PRIOR TO SUBMITTING A BID. CONTRACTOR WILL BE REQUIRED TO FURNISH, INSTALL AND OR CONNECT WITH APPROPRIATE SERVICES ALL PLUMBING ITEMS SHOWN ON ANY OF THE ARCHITECTURAL, AIR CONDITIONING, ELECTRICAL AND SPRINKLER DRAWINGS WITHOUT ADDITIONAL COST TO THE OWNER. IF DISCREPANCIES, CONFLICTS, INTERFERENCES OR OMISSIONS OCCUR BETWEEN DRAWINGS, NOTIFY IN WRITING TO THE ARCHITECT/ENGINEER IN AMPLE TIME TO PERMIT REVISIONS BEFORE THE BIDS ARE SUBMITTED.
- INSTALL MATERIALS AND EQUIPMENT IN A NEAT AND FIRST CLASS WORKMANLIKE MANNER. THE OWNER RESERVES THE RIGHT TO DIRECT REMOVAL AND REPLACEMENT OF ITEMS WHICH, IN HIS OPINION, DO NOT PRESENT A NEAT AND WORKMANLIKE APPEARANCE. REMOVAL AND REPLACEMENT IS TO BE DONE IMMEDIATELY WHEN DIRECTED BY THE OWNER IN WRITING, AT THE SOLE EXPENSE OF CONTRACTOR.
- START OF WORK BY CONTRACTOR SHALL BE CONSIDERED AS ACCEPTANCE BY THEM OF ALL CLAIMS OR QUESTIONS AS TO SUITABILITY OF THE WORK OF OTHER TRADES OR OTHER CONTRACTORS TO RECEIVE THEIR WORK. THIS CONTRACTOR SHALL REMOVE AND REPLACE, AT THEIR EXPENSE, ALL PLUMBING WORK WHICH MAY HAVE TO BE REMOVED BECAUSE OF INTERFERENCE WITH OTHER TRADES.
- THIS CONTRACTOR SHALL PAY ALL INSURANCE, FEES, PERMITS, ASSOCIATED DUES, ROYALTIES AND TAXES OF WHATEVER NATURE SHALL APPLY TO THIS WORK. THE CONTRACTOR SHALL ALSO PAY ALL INSPECTION FEES AS MAY BE REQUIRED BY LAW OR ORDINANCE AND SHALL KEEP THE OWNER HARMLESS FROM ANY DAMAGE AND EXPENSE ARISING FROM ANY VIOLATION OF THE LAWS, RULES OR ORDINANCES.
- ALL WORK TO BE DONE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2017.
- SANITARY WASTE PIPING SHALL BE SLOPED AT 1/8" PER FOOT MINIMUM FOR PIPES 3" AND LARGER, AND 1/4" PER FOOT MIN FOR PIPES SMALLER THAN 3".
- PROVIDE CLEANOUTS EVERY 15 FT. MINIMUM AND AT BASE OF EVERY WASTE STACK.
- MATERIALS SHALL BE NEW AND AS FOLLOWS (UNLESS CALL FOR OTHERWISE ON DRAWINGS):
 - SANITARY WASTE AND VENT PIPING: NO-HUB CAST IRON CISPI STANDARD, 30" ABOVE GROUND AND CAST IRON HUB FLAN END ASHTY A-14 WITH NEOPRENE GASKET, OR PVC SCHEDULE 40, DRAINAGE WASTE AND VENT PIPING (DWV) CONFORMING TO ASHTY D-2665 UNDERGROUND. PROVIDE PIPE RESILIENT HANGERS ON HORIZONTAL PIPING ABOVE CEILING WITH SPACING NOT TO EXCEED 6 FEET ON CENTER OR 4' FOR PVC/CPVC. USE OF PVC PIPING IS PROHIBITED IN RETURN AIR PLENUM. PROVIDE COPPER, CAST IRON OR CPVC.
 - WATER PIPING: COPPER TYPE L WITH VIEGA PROGRESS FITTINGS ABOVE GROUND, CPVC UNDERGROUND. PROVIDE ADJUSTABLE PIPE HANGERS ON HORIZONTAL OVERHEAD PIPING ABOVE CEILING NOT TO EXCEED 6 FT. ON CENTER.
 - PLUMBING FIXTURES SHALL BE AMERICAN STANDARD, KOHLER OR APPROVED EQUAL MANUFACTURER. REFER TO PLUMBING FIXTURE SCHEDULE FOR MODEL NUMBERS AND DETAILS.
 - FLOOR CLEANOUTS: JOSAM SERIES 56020 OR EQUAL. ALL CLEANOUTS SHALL BE 2-WAY.
 - WALL CLEANOUTS: JOSAM SERIES 58750 WITH ACCESS COVER OR EQUAL.
 - VALVES: 125 PSIG VIEGA, NIBCO SCOTT, STOCKHAM OR EQUAL. ALL SHUT OFF OR ISOLATION VALVES ON POTABLE WATER SHALL BE BRONZE BODIED, FULL PORT, TEFLON SEATED, STAINLESS STEEL BALL VALVES. GATE VALVES SHALL NOT BE ACCEPTED.
 - INSULATE DOMESTIC HOT WATER LINES, FITTINGS AND VALVES WITH 1/2" THICK PREFORMED FIBERGLASS INSULATION WITH ALL SERVICE JACKET. INSULATION THICKNESS SHALL BE INCREASED AS REQUIRED BY LOCAL CODES AND ORDINANCES.
 - HANGERS: AS MANUFACTURED BY 'CLEVIS' OF SIZE & TYPE REQUIRED FOR EACH CONDITION.
- SHOP DRAWINGS: THIS CONTRACTOR SHALL FURNISH THE ENGINEER WITH CUT SHEETS & SHOP DRAWINGS OF EQUIPMENT PRIOR TO PURCHASE FOR APPROVAL.
- CONTRACTOR SHALL FURNISH COMPLETE OPERATIONAL SYSTEMS PROVIDING ALL NECESSARY MATERIALS, ISOLATION VALVES, ACCESSORIES, APPURTENANCES, EQUIPMENT AND LABOR TO MEET DESIGN INTENT INDICATED ON THESE DRAWINGS AND SPECIFICATIONS.
- PROVIDE FIXTURES AS SPECIFIED. EACH FIXTURE SHALL BE PROVIDED WITH SHUTOFF VALVE.
- DIELECTRIC FITTING SHALL BE USED AT ALL DISSIMILAR METAL CONNECTIONS.
- ALL PLUMBING LINES SHALL BE CAPPED AND PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND INVERT OF EXISTING UTILITIES AND POINTS OF CONNECTION COORDINATING WITH ALL OTHER TRADES BEFORE COMMENCING WORK. ANY DISCREPANCIES SHALL BE REPORTED IN WRITING TO THE ARCHITECT / ENGINEERING IMMEDIATELY FOR RESOLUTION.
- PERFORM THE FOLLOWING TEST:
 - PLUMBING CONTRACTOR SHALL PRESSURE TEST ALL PIPING AS REQUIRED BY CODE AND AS INSTRUCTED HEREIN. TEST SHALL BE WITNESSED AND APPROVED BY PROPER AUTHORITIES.
 - WATER LINES SHALL BE TESTED TO A MINIMUM OF 135 PSIG FOR A PERIOD OF TIME SUFFICIENT TO EXAMINE ENTIRE SYSTEM, BUT NOT LESS THAN 1 HOUR.
 - STERILIZE ALL WATER LINES WITH A MIXTURE OF 2 POUNDS OF CHLORINATED LIME FOR EACH 1000 GALLONS OF WATER (50 PPM OF AVAILABLE CHLORINE). RETAIN MIXTURE IN PIPES FOR 24 HOURS AND FLUSH THOROUGHLY WITH POTABLE WATER BEFORE PLACING IN SERVICE.
 - SANITARY LINES SHALL BE TESTED TO A MINIMUM STANDING HEAD OF 15 FEET, AND SHALL BE ALLOWED TO STAND UNTIL INSPECTION IS MADE. WATER LEVEL SHALL REMAIN CONSTANT.
 - CORRECT ALL DEFECTS DISCLOSED BY ABOVE TEST. COMPLETE SYSTEM, FIXTURES AND EQUIPMENT SHALL BE GIVEN AN IN-SERVICE TEST AFTER COMPLETION OF INSTALLATION, AND BEFORE FINAL ACCEPTANCE BY OWNER.
- DOMESTIC TEMPERED WATER SUPPLIED FOR BATHING AND WASHING PURPOSE SHALL BE LIMITED AT THE POINT OF USE TO 110 DEGREE FAHRENHEIT MAXIMUM. WATER TEMPERATURE LIMITING DEVICE SHALL CONFORM TO ASSE 1070.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADER TO AVOID INTERFERENCES WITH THE PROGRESS OF CONSTRUCTION AND IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES AND STANDARDS.
- ALL PIPING SHALL BE CONCEALED WITHIN WALLS IN FINISHED AREAS. SAW CUT BLOCK/CONCRETE AS REQUIRED TO ACCOMMODATE PIPING.
- ANY AND ALL CUTTING OF NEW WALLS FOR PIPING INSTALLATION SHALL BE SAW CUT, PATCHED AND FINISHED TO MATCH EXISTING CONDITIONS.
- AT PROJECT COMPLETION THE CONTRACTOR SHALL PROVIDE THE OWNER AN 'AS-BUILT' SET OF REPRODUCIBLE DRAWINGS SHOWING THE EXACT LOCATION AND ROUTING OF INSTALLED SYSTEMS. THE CONTRACTOR SHALL WARRANT ALL WORKMANSHIP AND MATERIALS FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. ANY NECESSARY REPAIR OR REPLACEMENT OF SYSTEM COMPONENTS OCCURRING WITHIN WARRANTY PERIOD SHALL PERFORMED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.

SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



CITY OF MIAMI

OFFICE OF CAPITAL IMPROVEMENTS
444 S.W. 2nd Avenue, 8th Floor
Miami, FL 33130

**PBA FERNISLE PARK REDEVELOPMENT
CITY OF MIAMI, PROJECT NO. B-40543
2304 N.W. 14TH STREET, MIAMI, FL 33125**

**GENERAL NOTES AND
SYMBOL LEGEND**

SHEET TITLE:

LICENSED PROFESSIONAL

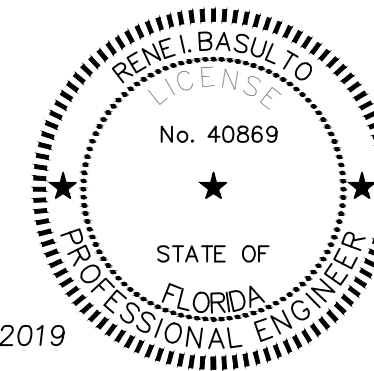
RENE I. BASULTO, P.E.

FL LICENSE NUMBER

REC. #40869

DATE:

No.	REVISIONS - SUBMITTALS	DATE



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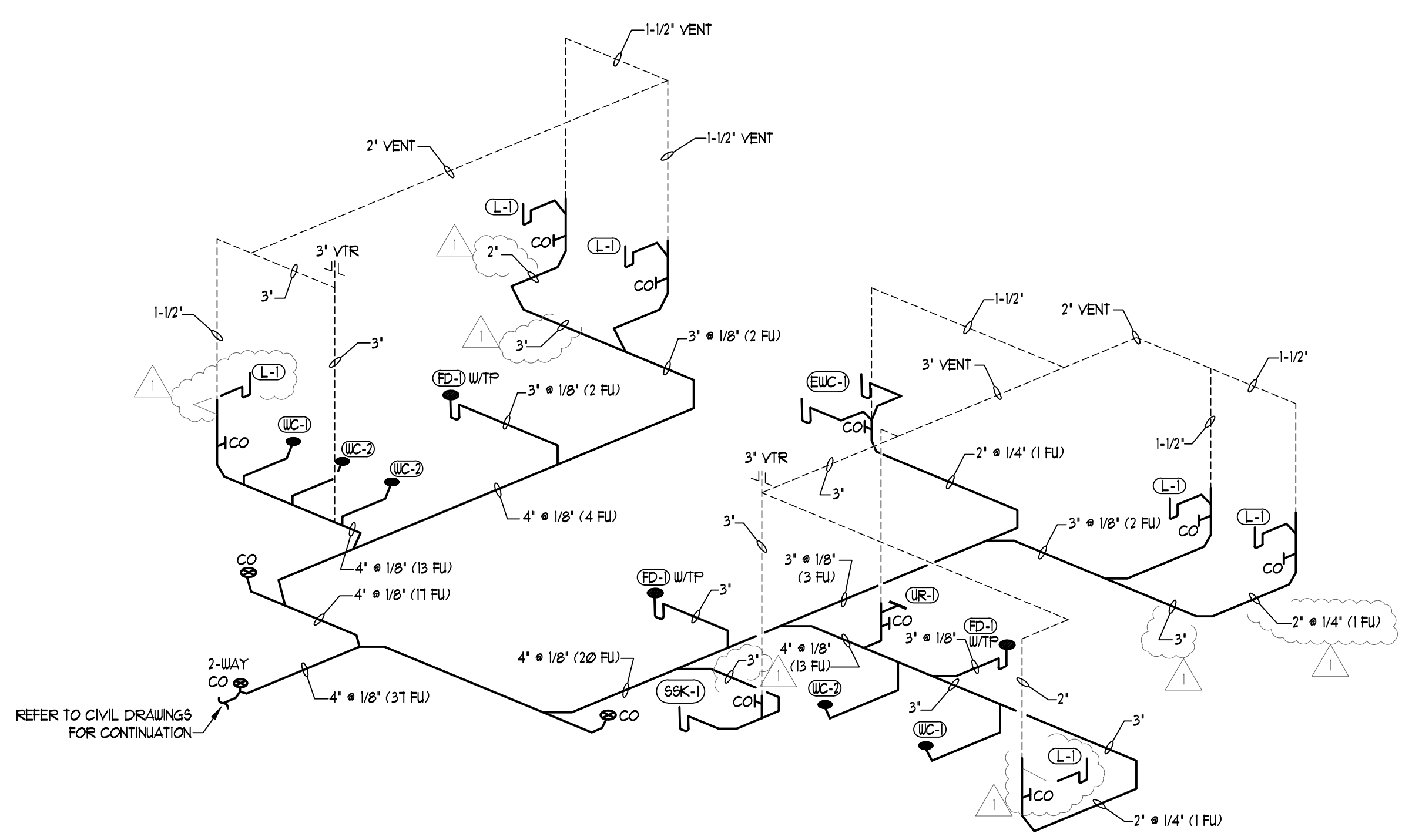


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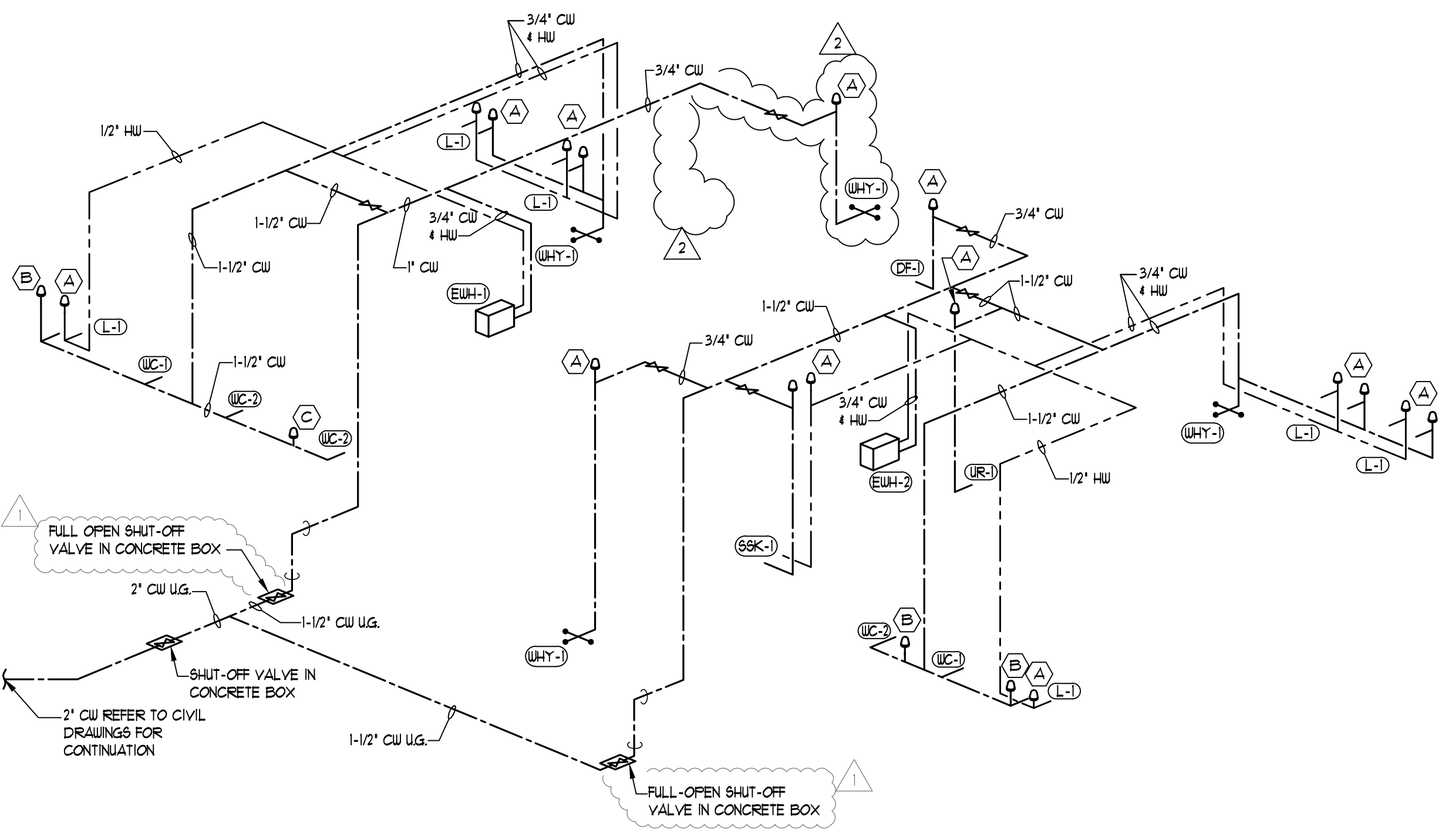
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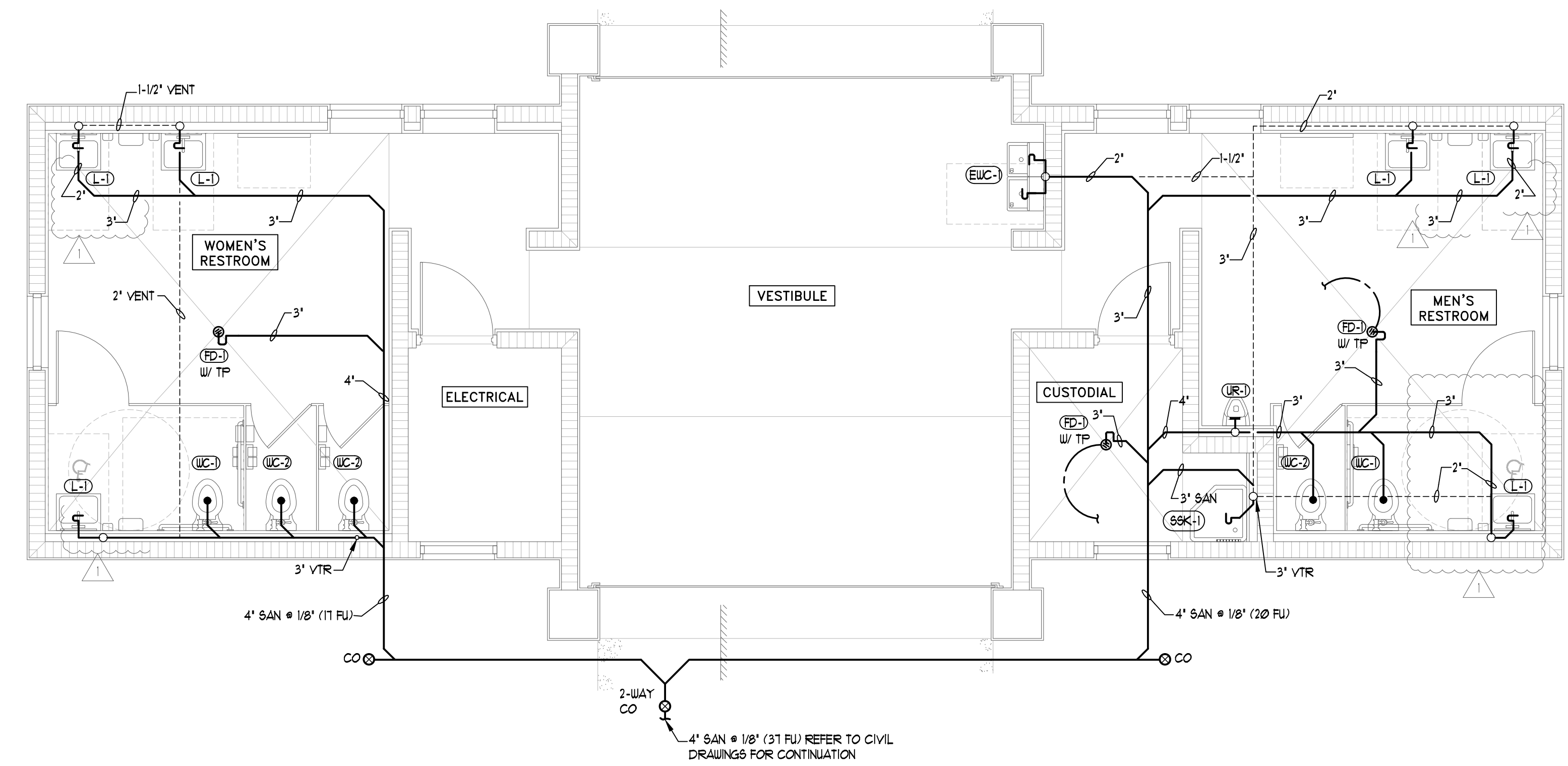
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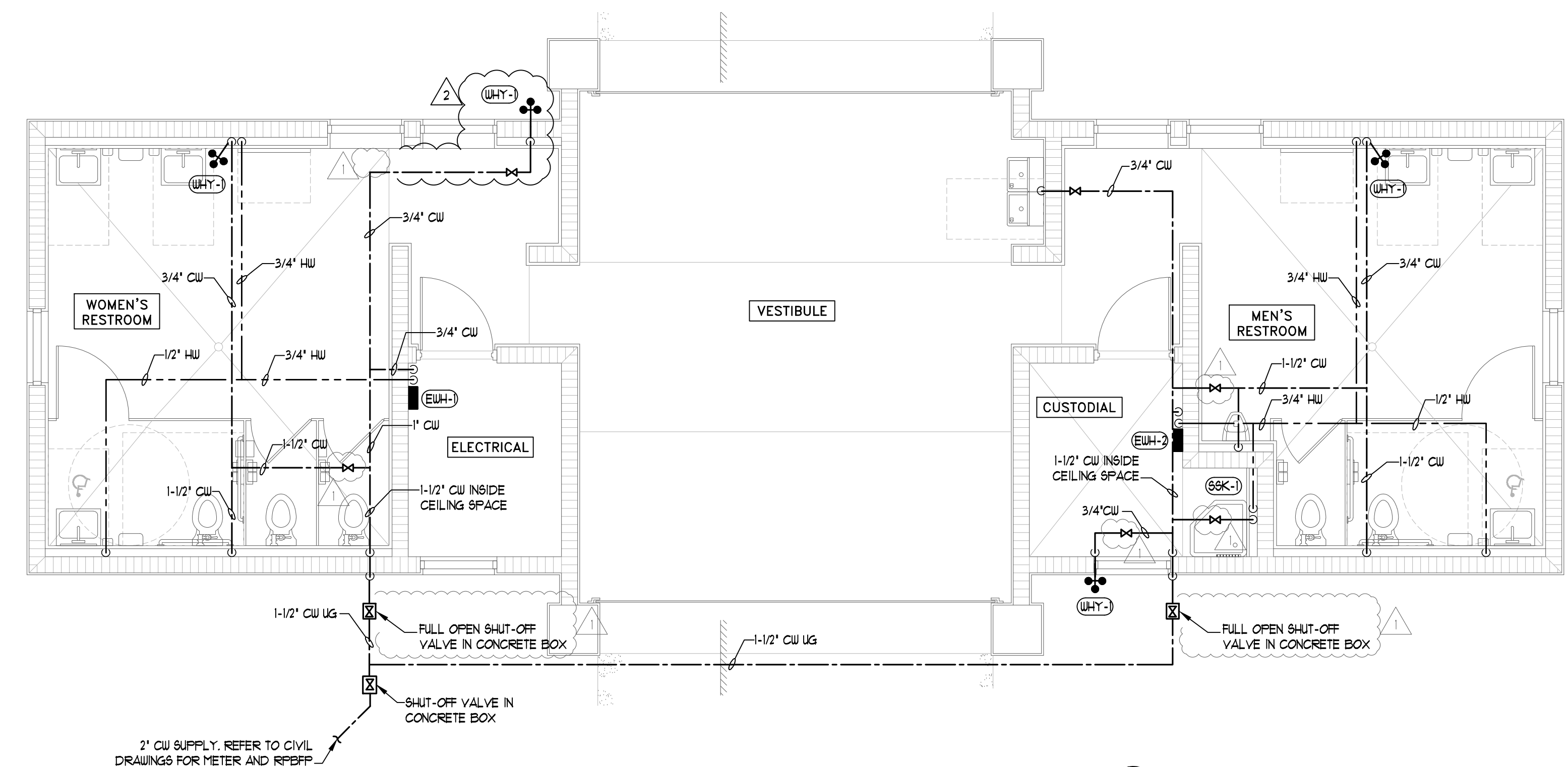
SANITARY WASTE ISOMETRIC DIAGRAM
N.T.S.



DOMESTIC WATER ISOMETRIC DIAGRAM
N.T.S.



RESTROOM FLOOR PLAN - PLUMBING SANITARY
SCALE: 1/4" = 1'-0"



RESTROOM FLOOR PLAN - DOMESTIC WATER
SCALE: 1/4" = 1'-0"

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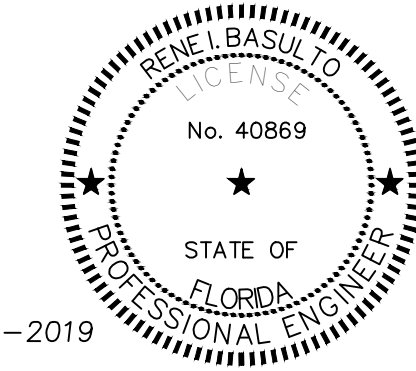


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RESTROOMS SANITARY AND DOMESTIC WATER LINES ISOMETRICS

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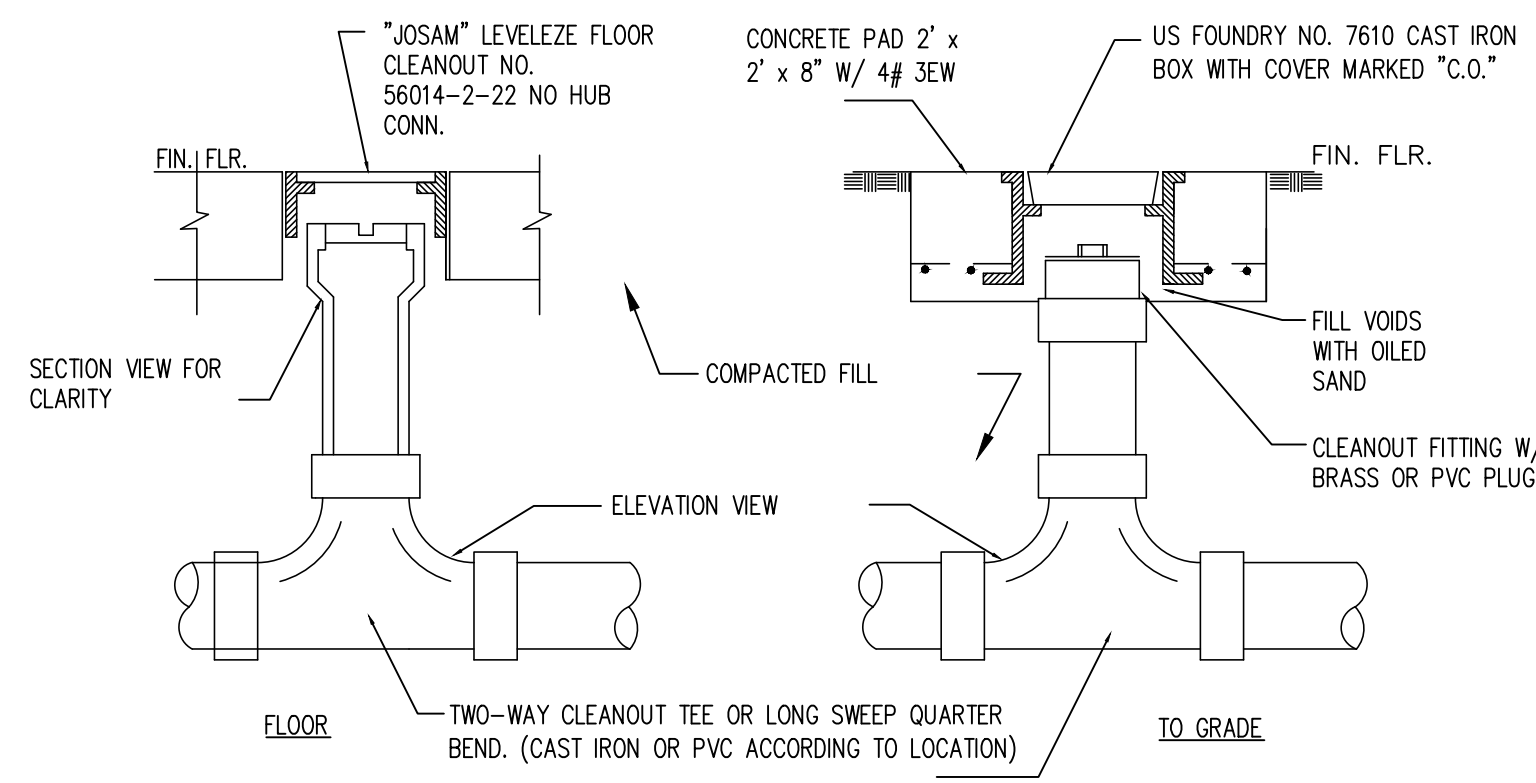
No.	REVISIONS - SUBMITTALS	DATE
1	BUILDING DEPARTMENT COMMENTS	02/04/2019
2	BUILDING DEPARTMENT COMMENTS	04/26/2019



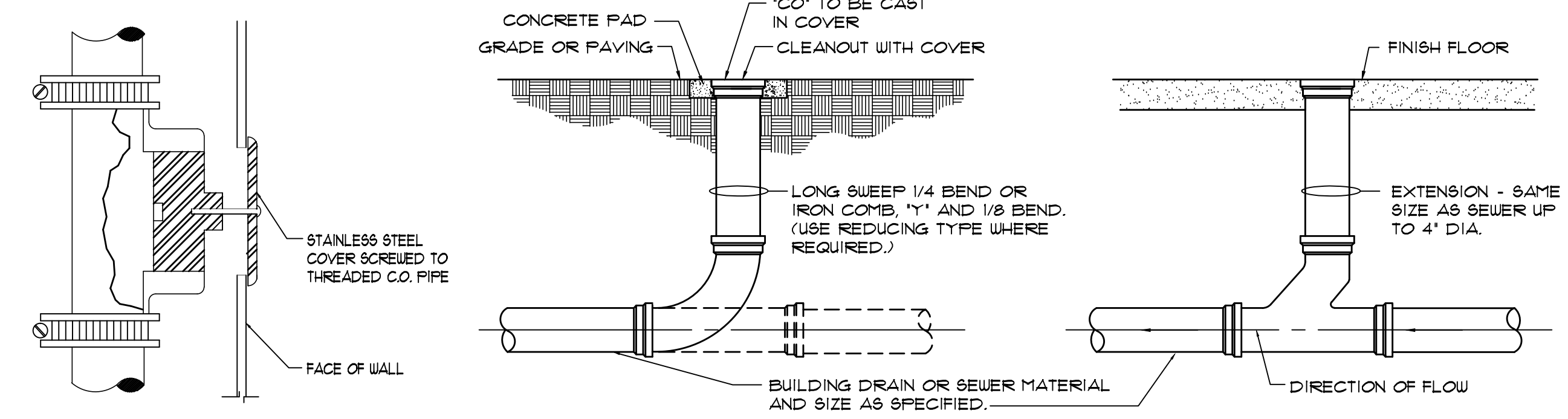
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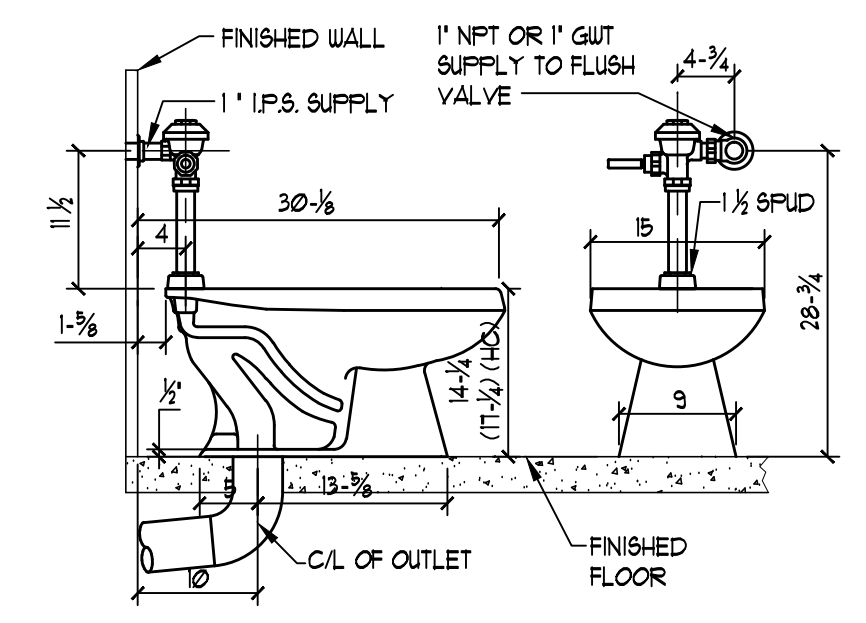
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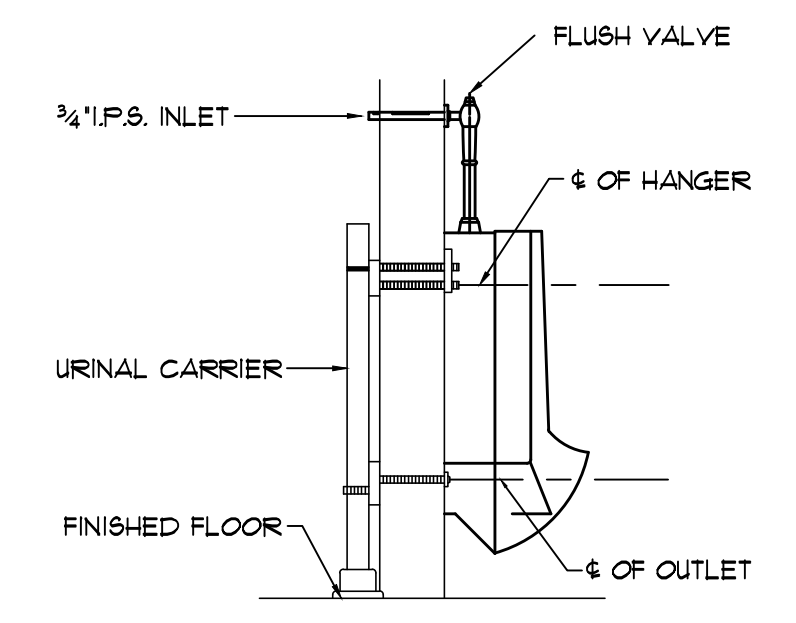
TWO-WAY CLEANOUT DETAIL
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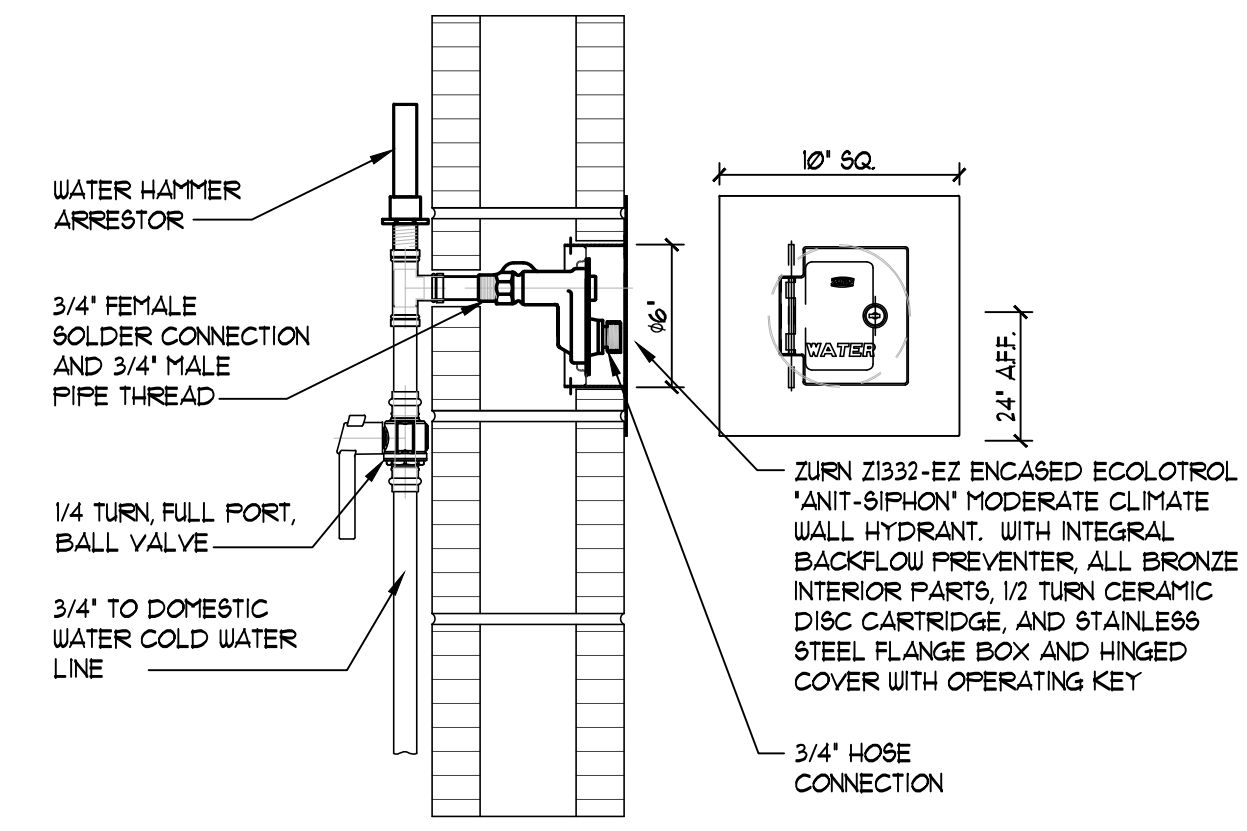
CLEANOUTS DETAILS
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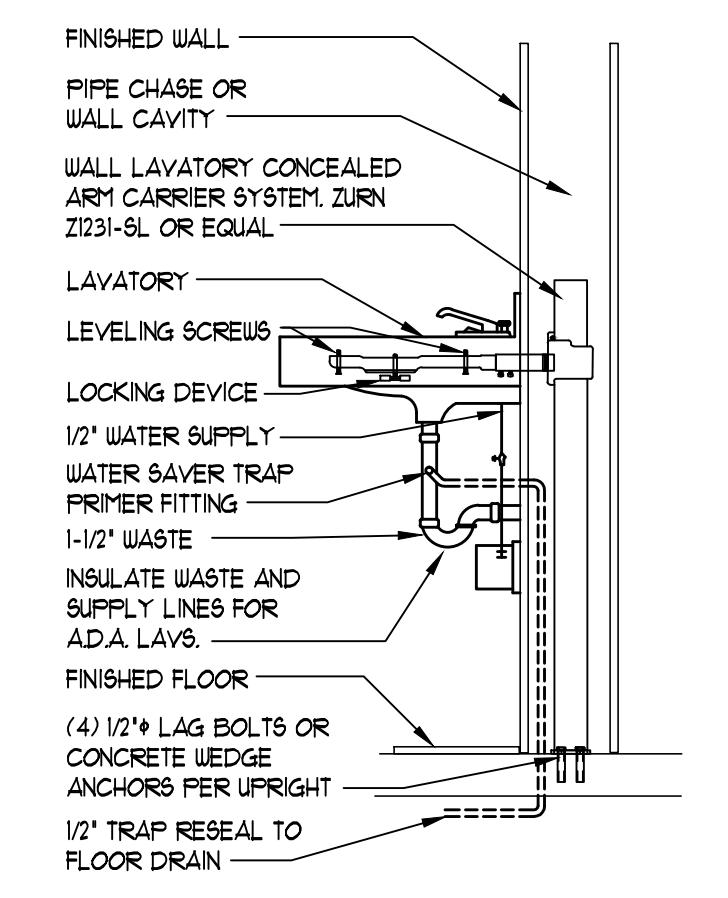
WATER CLOSET FLOOR MOUNTED
N.T.S.



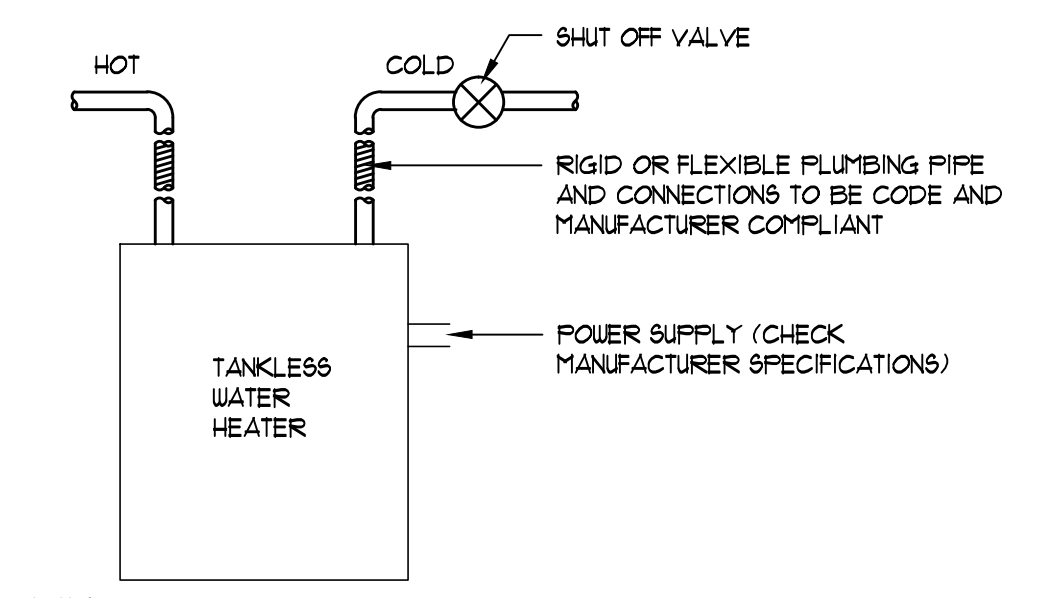
URINAL MOUNTING DETAIL
N.T.S.



WALL HYDRANT DETAIL
N.T.S.

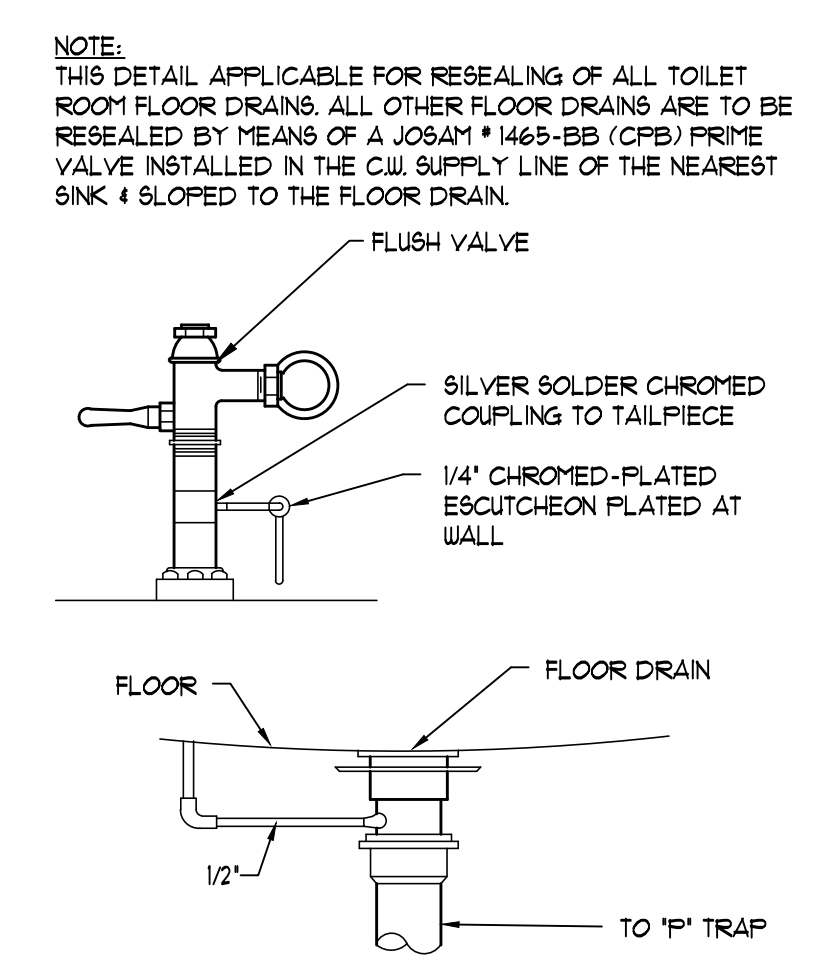


WALL HUNG LAVATORY
N.T.S.



NOTES:
-PROTECT WATER HEATER FROM EXPOSURE TO DAMP, HUMID AND FREEZING CONDITIONS
-WATER HEATER MUST BE INSTALLED TO CONFORM WITH CURRENT NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL PLUMBING, ELECTRICAL, HEATING AND AIR CONDITIONING CODES.
-FOLLOW MANUFACTURER INSTALLATION INSTRUCTIONS

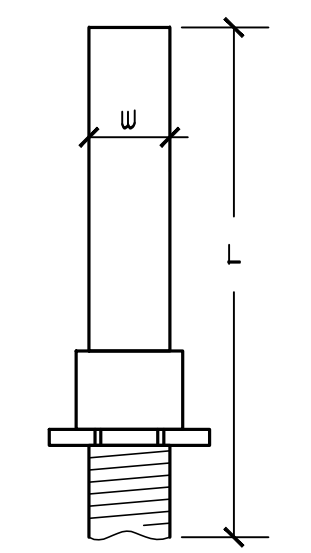
TANKLESS ELECTRIC WATER HEATER DETAIL
N.T.S.



NOTE:
THIS DETAIL APPLICABLE FOR RESEALING OF ALL TOILET ROOM FLOOR DRAINS. ALL OTHER FLOOR DRAINS ARE TO BE RESEALED BY MEANS OF A JOSAM #1465-BB (CPB) PRIME VALVE INSTALLED IN THE CW SUPPLY LINE OF THE NEAREST SINK & SLOPED TO THE FLOOR DRAIN.

TRAP RESEAL DETAIL
N.T.S.

FPI SIZE	MIPS THREAD	DIMENSIONS		AIR CHAMBER VOLUME	FIXTURE UNIT CAPACITY
		L	W		
A	1/2"	5 1/4"	1 1/8"	3.5"	1-11
B	3/4"	6 1/8"	1 3/8"	4.3"	12-32
C	1"	8"	1 3/8"	6.5"	33-60
D	1"	10 5/8"	1 3/8"	10"	61-113
E	1"	9 7/8"	2 1/8"	22.36"	114-154
F	1"	13 7/8"	2 1/8"	34.4"	155-330



WATER HAMMER ARRESTER DETAIL
N.T.S.

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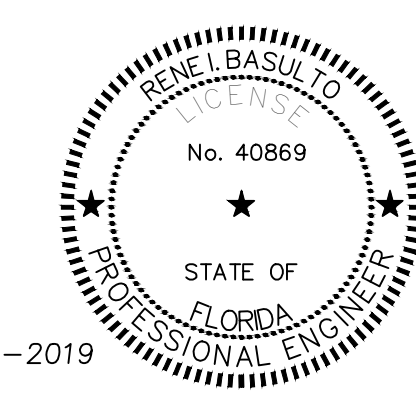
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PLUMBING DETAILS

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