# GENERAL NOTES

1. ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM (NGVD) 1929.
2. ALL DRAINAGE CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF CITY OF CORAL GABLES, MIAMI–DADE COUNTY REGULATORY AND ECONOMIC RESOURCES (RER) (D.E.R.M.), THE MIAMI–DADE COUNTY PUBLIC WORKS DEPARTMENT (MDPW), AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT).
3. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. CATCH BASINS, EXFILTRATION TRENCHES, PAVEMENT RESTORATION AND PAVEMENT AROUND CATCH BASINS TO BE ACCORDING TO THE DETAILS, MDPW, AND APPLICABLE REQUIREMENTS OF THE CITY OF CORAL CABLES AND THESE PLANS.
5. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT. NO ASPHALT "FEATHERING" SHALL BE ALLOWED.
6. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, AND UTILITIES WHICH MAY NOT BE SHOWN ON PLANS. ANY EXISTING STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING APPURTENANCES NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
7. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE, ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES. PRIOR TO PROPOSED IMPROVEMENTS, ALL CONFLICTS MUST BE RESOLVED BY THE CONTRACTOR AND THE FIELD REPRESENTATIVE OF THE OWNER. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
8. CONTRACTOR SHALL CONTACT THE SUNSHINE CO. AT 1 (800) 432–4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES. THE CONTRACTOR OR CONTRACTOR'S REPRESENTATIVE WILL BE PRESENT DURING UTILITY LOCATES.
9. EXISTING TREES SHALL BE REMOVED ONLY IF REQUIRED FOR CONSTRUCTION. THOSE TREES NOT INTERFERING WITH CONSTRUCTION SHALL BE PROTECTED IN PLACE. THE CONTRACTOR IS ADVISED THAT A TREE PERMIT MAY BE REQUIRED FOR TREE REMOVAL. CONTRACTOR SHALL NOTIFY D.E.R.M. PRIOR TO REMOVING ANY TREES.
10. EXISTING GRADES WERE TAKEN FROM THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH CURRENT SITE CONDITIONS, AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
11. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS FOR APPROVAL BY THE ENGINEER PRIOR TO ORDERING/ FABRICATING SAID ITEMS.
12. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES, OR PARTS OF, EXPOSED OR OPEN AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES. WHEN THE CONTRACTOR IS NOT WORKING, UNLESS OTHERWISE APPROVED BY THE OWNER. ANY TRENCH SHALL BE COVERED, FIRMLY SECURED AND MARKED ACCORDINGLY TO ALLOW SAFE PEDESTRIAN TRAFFIC. ALL COSTS ASSOCIATED WITH THIS ITEM ARE INCIDENTAL TO THE CONTRACT.
13. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
14. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF LEGALLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THIS COST SHALL BE INCIDENTAL TO CONSTRUCT AND AT NO ADDITIONAL COST TO THE OWNER.
15. CAST IRON PRODUCTS: HEAVY DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS, OR 16,000 LB. WHEEL LOADS.
16. STEEL GRATING AND MANHOLE COVERS: TRAFFIC CLASSIFICATION H–20 AASHTO H20.
17. ALL STRUCTURES MUST BE CAPABLE OF SUSTAINING HEAVY TRAFFIC LOADS.
18. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RESTORED AND RE–SODDED WITH ST. AUGUSTINE GRASS AT NO ADDITIONAL COST TO THE OWNER, UNLESS OTHERWISE NOTED ELSE WHERE.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH SPECIFICATIONS OUTLINED IN SECTION C2 AND SECTION R19 OF THE PUBLIC WORKS DEPARTMENT MDPW MANUAL AND PER THE MUTCD (LATEST EDITION). IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESETTING OF ALL TRAFFIC CONTROL AND INFORMATION SIGNING REMOVED DURING CONSTRUCTION PERIOD. THE COST SHALL BE INCLUDED IN THE COST FOR MAINTENANCE OF TRAFFIC.
20. EXCAVATED OR OTHER MATERIAL TEMPORARILY STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC SAFETY AT ALL TIMES.
21. TEMPORARY ASPHALT PATCH MATERIAL MUST BE ON THE JOB SITE WHENEVER PAVEMENT IS CUT, OR THE INSPECTOR WILL SHUT THE JOB DOWN.
22. CONTRACTOR SHALL MAINTAIN TRAFFIC ACCORDING TO CORRESPONDING TYPICAL CONTROL DETAIL AS OUTLINED IN THE MDPW MANUAL, OR PER THE PERTINENT TYPICAL APPLICATION IN THE MUTCD (LATEST EDITION).
23. CONTRACTOR SHALL MAINTAIN AT LEAST THE FOLLOWING NUMBER OF TRAFFIC LANES FOR CORRESPONDING TIME PERIODS: MONDAY–FRIDAY 7–9 A.M. AND 4–6 P.M.: MAINTAIN ONE LANE FOR TWO–WAY OPERATION WITH FLAGMEN.
24. CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY–FOUR (24) HOURS IN ADVANCE OF ANY DETOUR IN ACCORDANCE WITH SECTION 336.07 OF THE FLORIDA STATUTES.
25. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO MAINTAIN ALL UTILITIES IN OPERATION AT ALL TIMES. THE COST ASSOCIATED WITH MAINTENANCE OF UTILITIES INCLUDING SHORING, SUPPORTING, SHEET PILING OR ANY OTHER FORM OF SUPPORT REQUIRED TO KEEP UTILITIES IN OPERATION SHALL BE INCLUDED IN THE COST OF THE PIPE.
26. CONTRACTOR TO EXCAVATE FOR STRUCTURES OR PIPE TRENCH AS SHOWN IN THE PLANS AND DETAILS. ALL UNSUITABLE MATERIAL EXCAVATED SHALL BE DISPOSED LEGALLY AND AT A LOCATION SUPPLIED BY THE CONTRACTOR. ALL UNSUITABLE MATERIAL BENEATH PROPOSED STRUCTURES OR PIPES SHALL BE REMOVED AND BACKFILLED WITH CLEAN SUITABLE SOIL, APPROVED BY ENGINEER, TO THE PROPER ELEVATION.
27. SWPPP – PRIOR TO CONSTRUCTION, CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL DEVICES PER FDOT 2010, INDEX 102.
28. EXISTING DRAINAGE IS TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR TO USE BEST MANAGEMENT PRACTICES IN MAINTAINING ALL EXISTING DRAINAGE CLEAN AND FREE FROM SOIL EROSION, MILLINGS, AND ANY CONSTRUCTION DEBRIS.

# DRAINAGE NOTES

1. WHEN PROPOSED DRAINAGE STRUCTURES ARE TO BE CONNECTED TO EXISTING DRAINAGE PIPE, CONTRACTOR SHALL PROVIDE 5 LF OF PROPOSED PIPE MATCHING THE SIZE OF THE EXISTING PIPE. THE PIPES SHALL BE CONNECTED WITH A CONCRETE COLLAR PER FDOT INDEX 280.

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**1447 NW 129TH TERR.**
**SUNRISE, FL 33323**
**FL CA NO. 30711**

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Consulting Engineers CA 07528
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CWI No. 15110.00 www.civilworks.com

EOR: LINDA M. BELL, P.E.
FLORIDA P.E. #38542


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UNIVERSITY OF Miami

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**GENERAL NOTES**

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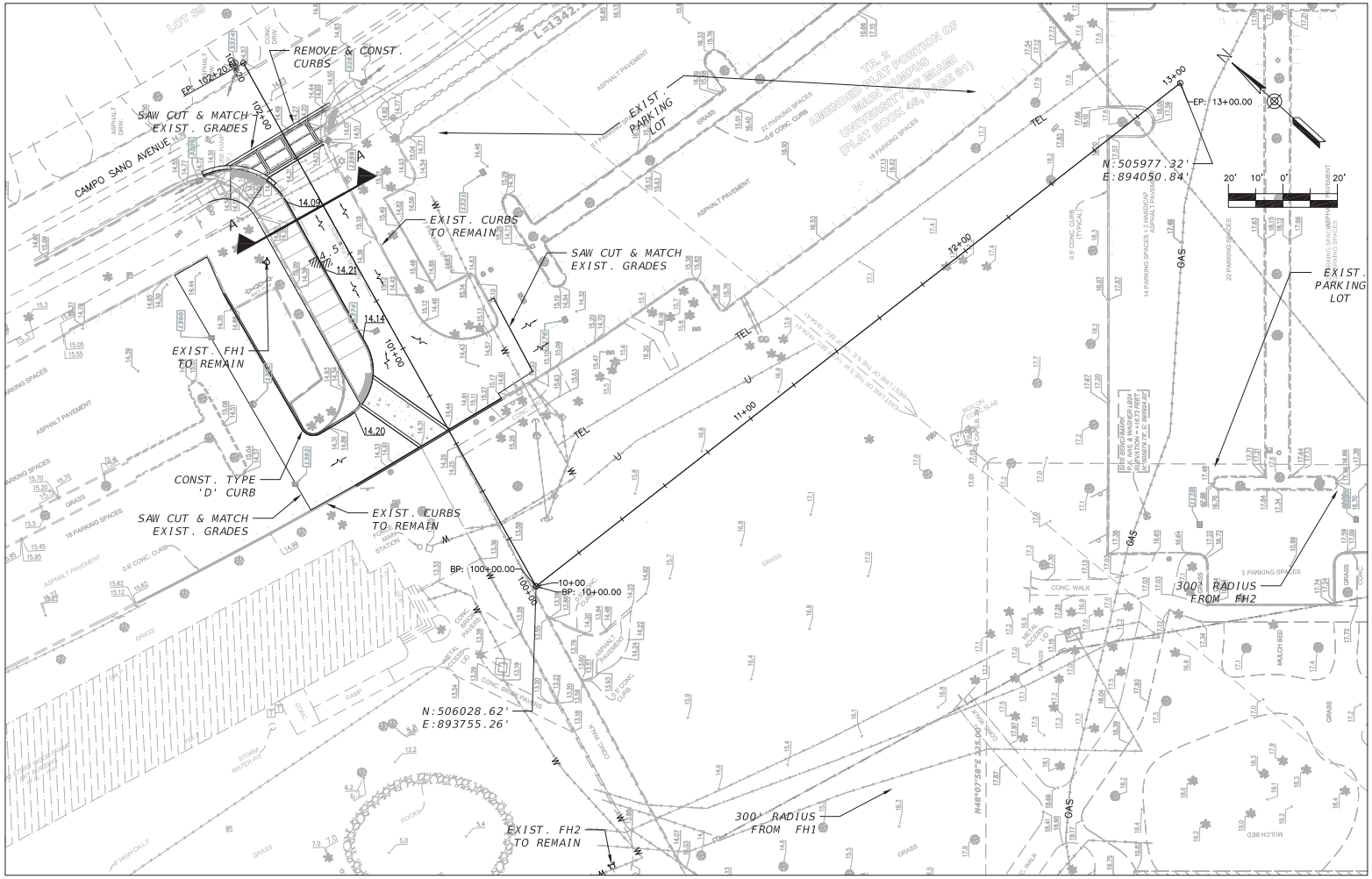
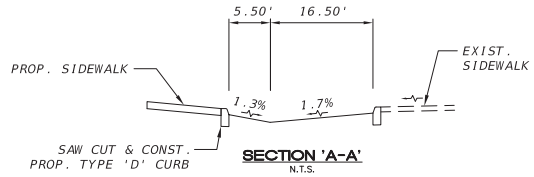



## LEGEND

17.5 16.58 EXISTING GRADE

17.00 PROP. GRADE AT EDGE OF PAVEMENT

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PAVING, GRADING, AND DRAINAGE PLAN

SHEET NUMBER

CG-03.02

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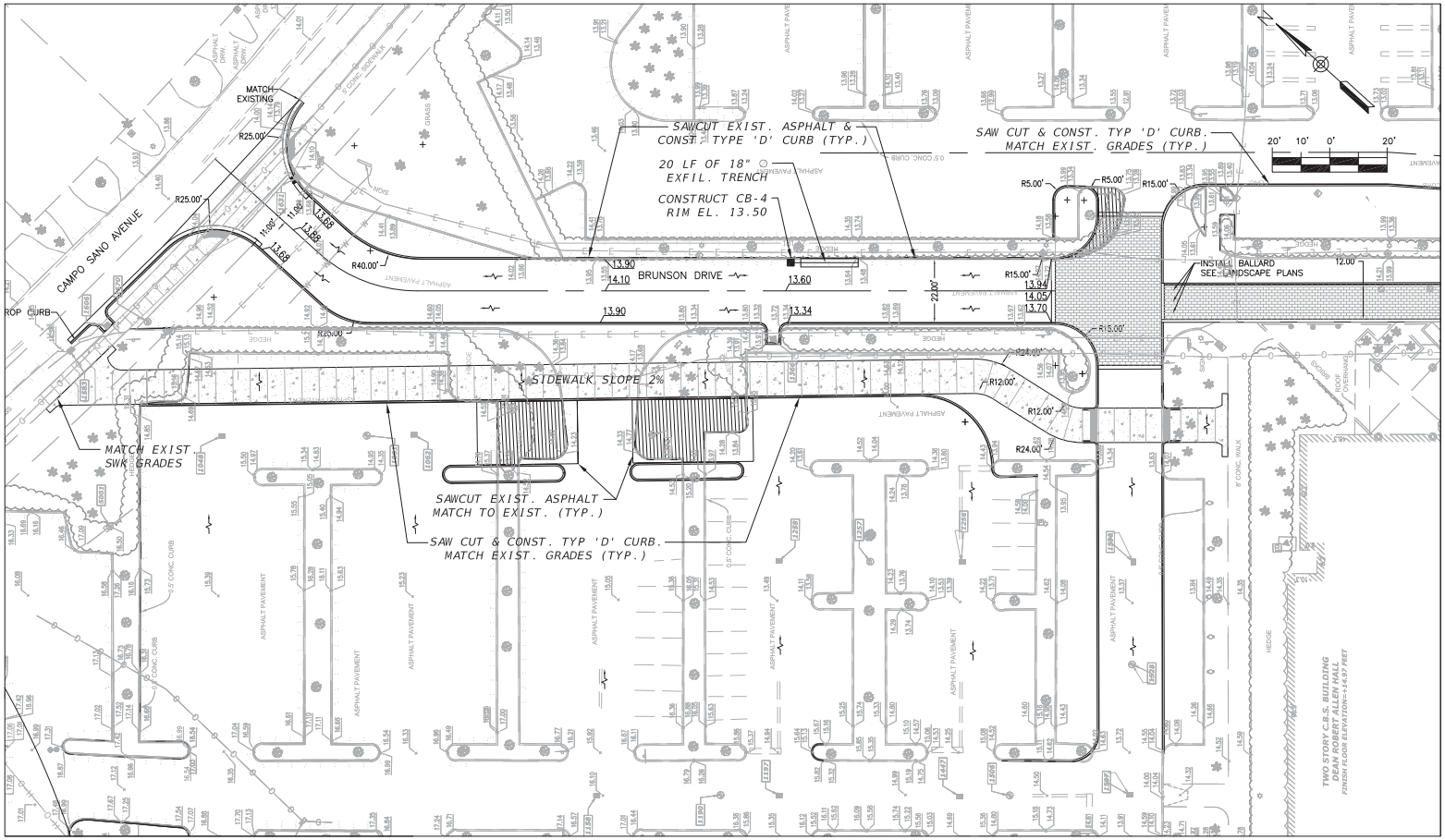


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SHEET CG-03.04 - MATCH LINE


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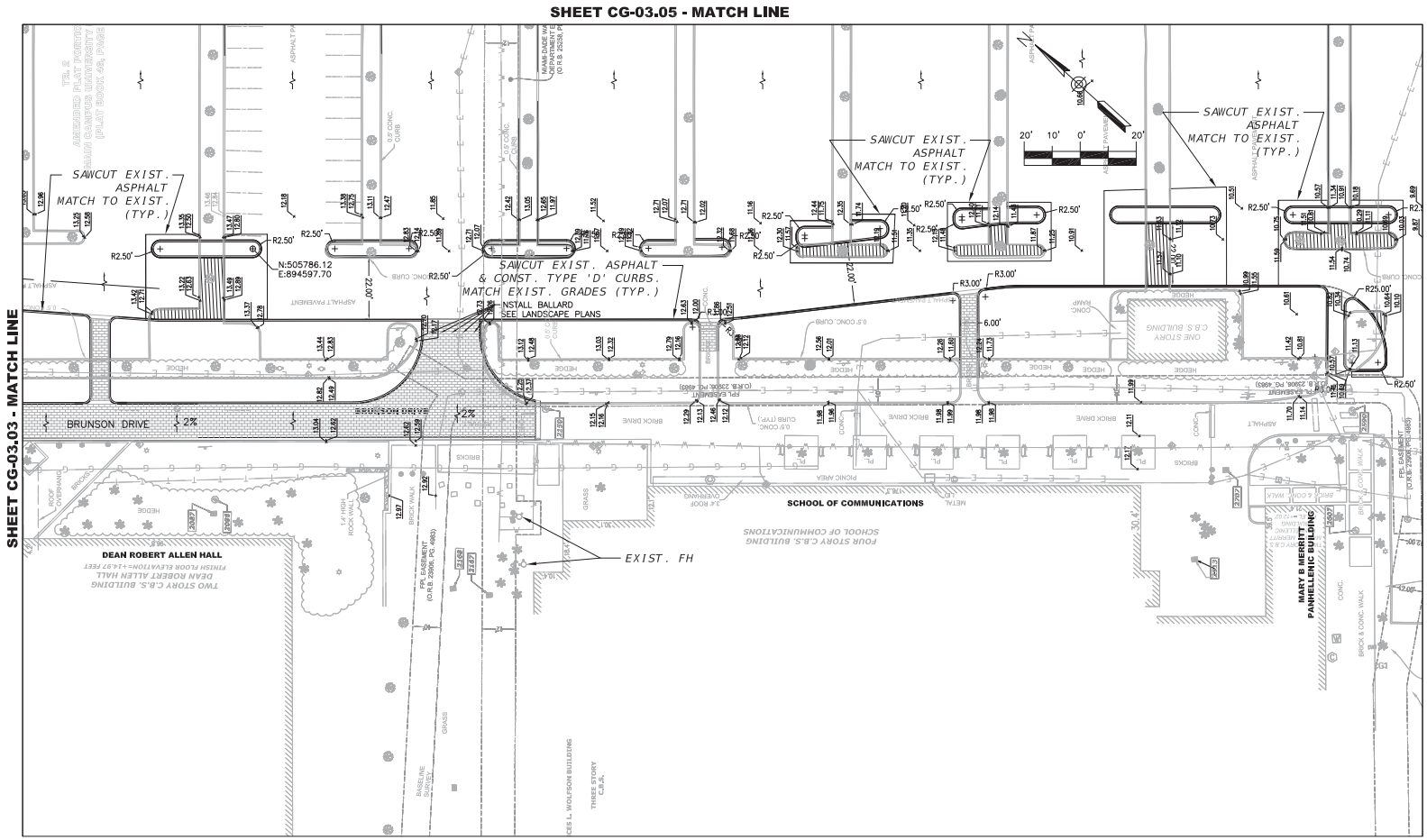



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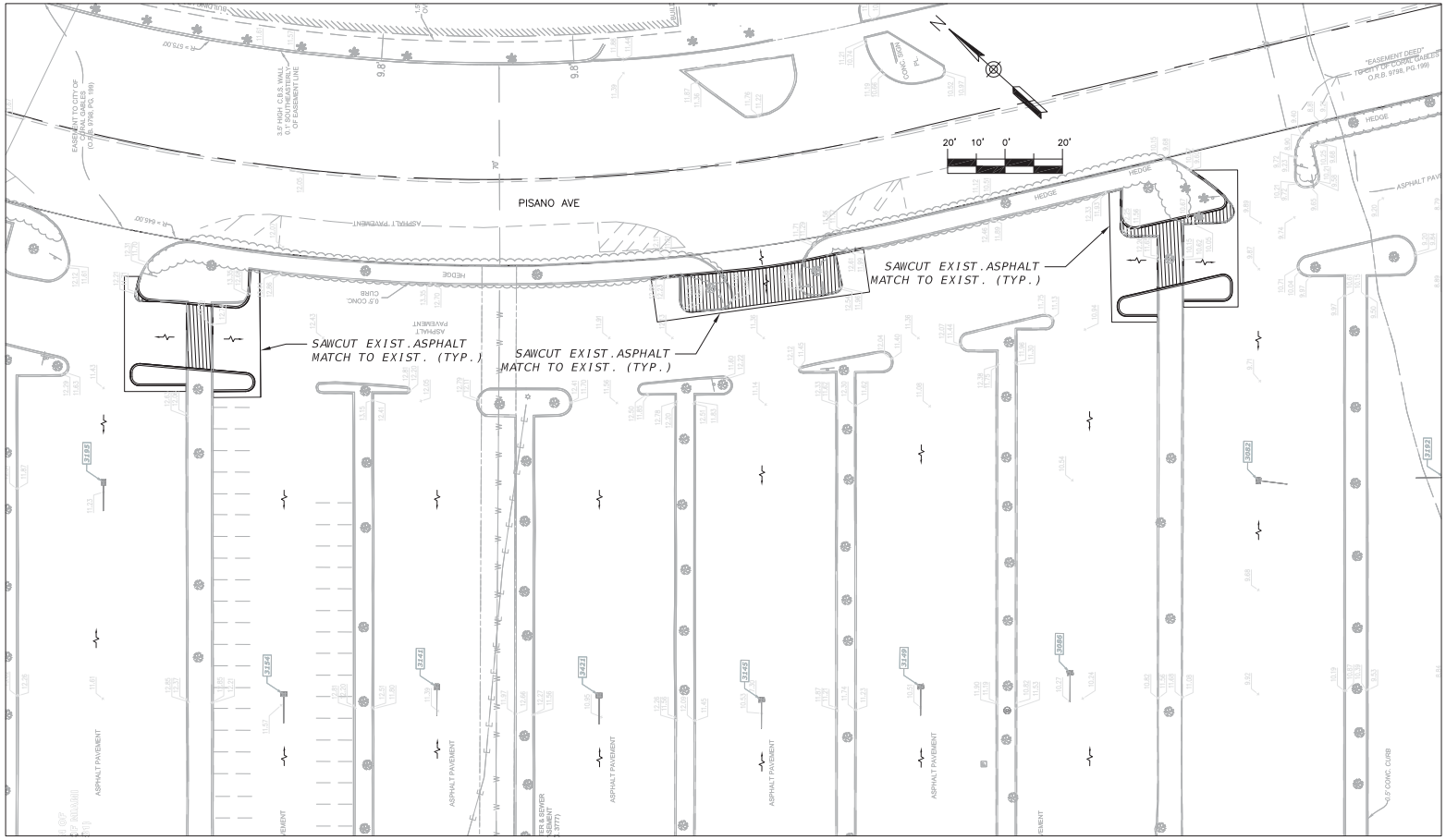


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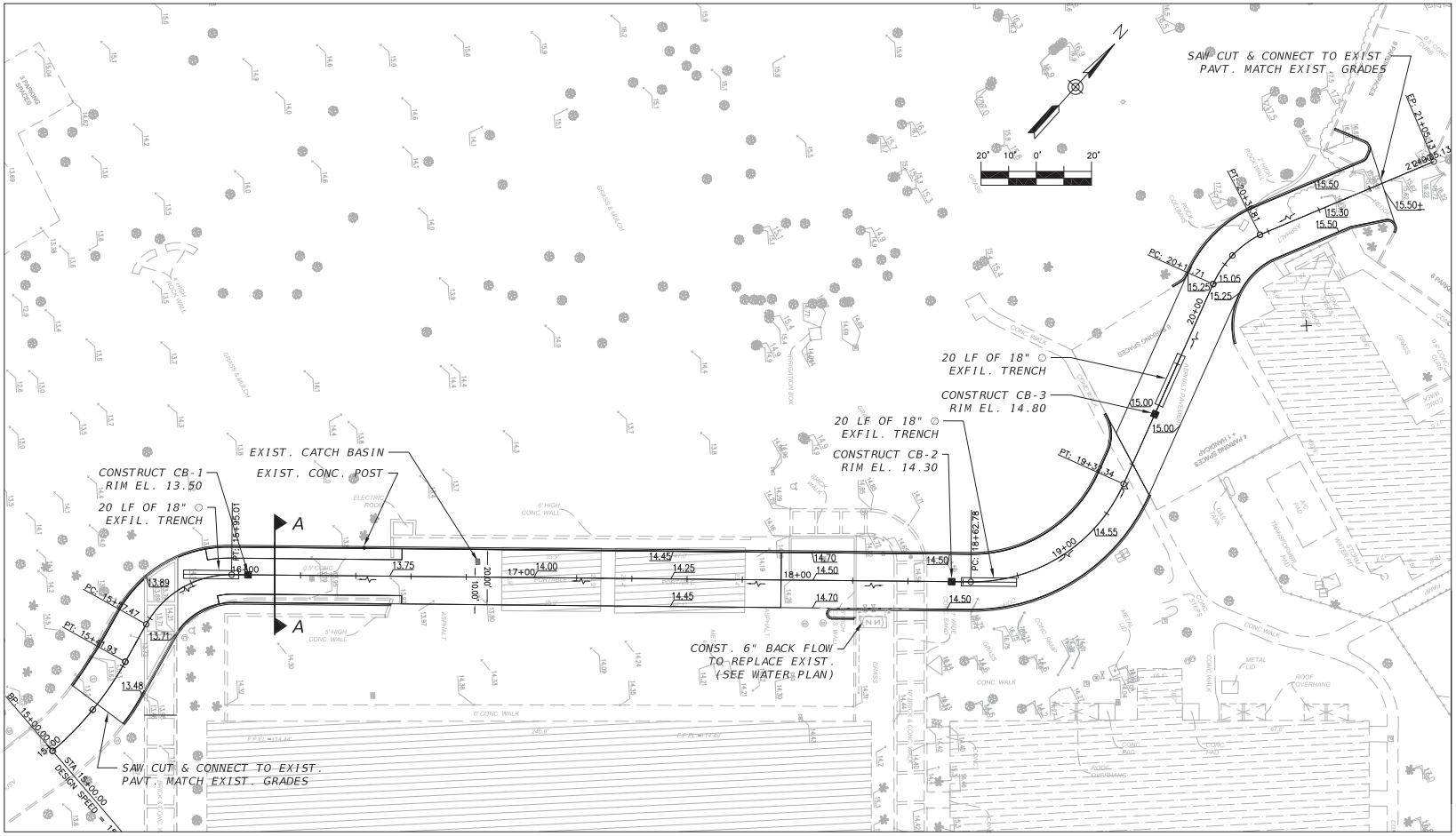



## LEGEND

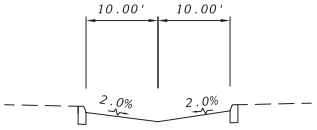
- EXISTING GRADES
- PROP. GRADE AT EDGE OF PAVEMENT
- PROP. CATCH BASIN
- PROP. EXFILTRATION TRENCH WITH 18" ⊙ PIPE

## PAVEMENT DESIGN

2" ASPHALT PAVEMENT SP 9.5
8" LIMEROCK BASE (LBR 100)
12" COMPACTED SUBGRADE (LBR 40)

## NOTES

ALL PROP. ELEVATIONS ARE AT EDGE OF PAVEMENT UNLESS OTHERWISE STATED




SECTION 'A-A'
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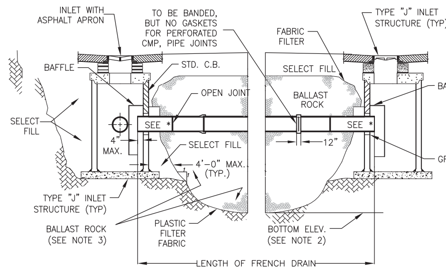



## LONGITUDINAL SECTION

NOTES:

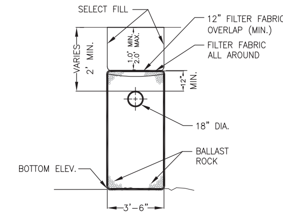
1. PLASTIC FILTER FABRIC (AT EA. SIDE, TOP, AND BOTTOM) SHALL BE USED AS NOTED ON PLANS AND/OR AS DIRECTED BY THE ENGINEER.
2. THE BOTTOM OF THE EXFILTRATION TRENCH SHALL BE 15.00' BELOW EXIST. GROUND ELEVATION, UNLESS FIELD CONDITIONS WARRANT OTHERWISE.
3. AFTER THE BALLAST ROCK HAS BEEN PLACED TO THE PROPER ELEVATION, IT SHALL BE CAREFULLY WASHED DOWN WITH CLEAN WATER IN ORDER TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF IT DOES TAKE PLACE, ADDITIONAL BALLAST ROCK WILL BE ADDED TO RESTORE THE BALLAST ROCK TO THE PROPER ELEVATION, SO THAT THE EXFILTRATION TRENCH CAN BE COMPLETED IN ACCORDANCE WITH THE DETAILS.
4. INVERT ELEVATION TO BE AS SHOWN IN PLAN.

* NO SLOTS OR PERFORATIONS ON THIS LENGTH OF PIPE

## EXFILTRATION DETAIL (MDPW SD 1.1)

N.T.S.

INLET GRATES PER MDPW SD 2.3
USF 4700 HINGED FRAME + 6223 GRATE, OR APPROVED EQUAL.




## TRANSVERSE SECTION

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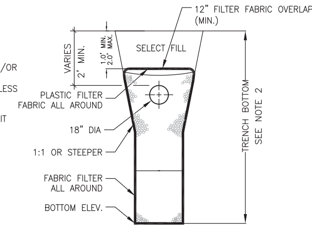


## ALT. TRANS. SECTION

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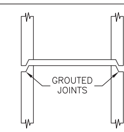
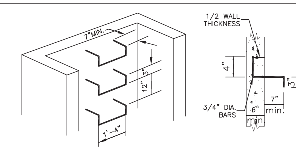
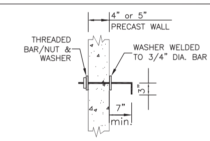



## CONSTRUCTION JOINT (OPTIONAL)




## LADDER BAR DETAILS

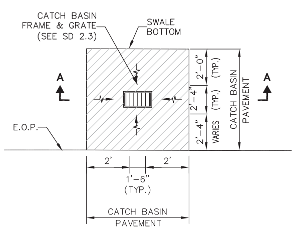
NOTE:
LADDER BARS SHALL BE INSTALLED IN BOXES 10' IN DEPTH OR GREATER.



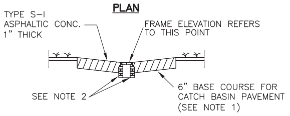

## INSTALLATION IN PRECAST UNITS

NOTES:

1. CAST TOP SLAB TO FIT WALL USED.
2. TONGUE AND GROOVE REINFORCED CONCRETE PIPE A.S.T.M DESIGNATION CLASS C 76 CLASS III.
3. BOTTOM SLAB MAY BE PRECAST OR POURED-IN-PLACE. PLAN 'B' REINFORCING MUST BE USED WHEN ROUND RISER IS POURED INTEGRAL WITH BOTTOM.
4. PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 3".
5. USE 3,000 PSI CONCRETE. (MINIMUM).
6. MORTAR SHALL BE AS SPECIFIED IN FDOT SPECIFICATIONS.
7. A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.
8. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR THE POLLUTION CONTROL STRUCTURE AND ACQUIRE OWNER APPROVAL PRIOR TO ORDERING/FABRICATING.
9. TYPE P OR J BOTTOMS SHALL BE BE USED PER MDPW SD 2.6
10. FOR STRUCTURES W/ 2 BAFFLES, MIN. SIZE SHALL BE 54" ROUND OR RECTANGULAR.




PLAN



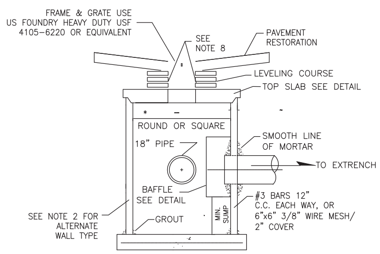

SECTION A-A

**NOTES:**

1. 6" REINF. CONCRETE SLAB MAY BE SUBSTITUTED FOR 6" BASE COURSE. REINFORCING STEEL TO BE APPROVED BY ENGINEER
2. A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.

## CATCH BASIN ASPHALT APRON DETAIL

N.T.S.




TYPICAL SECTION

## PRECAST CATCH BASIN

N.T.S.

NOTES:

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3. BOTTOM SLAB MAY BE PRECAST OR POURED-IN-PLACE. PLAN 'B' REINFORCING MUST BE USED WHEN ROUND RISER IS POURED INTEGRAL WITH BOTTOM.
4. PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 3".
5. USE 3,000 PSI CONCRETE. (MINIMUM).
6. MORTAR SHALL BE AS SPECIFIED IN FDOT SPECIFICATIONS.
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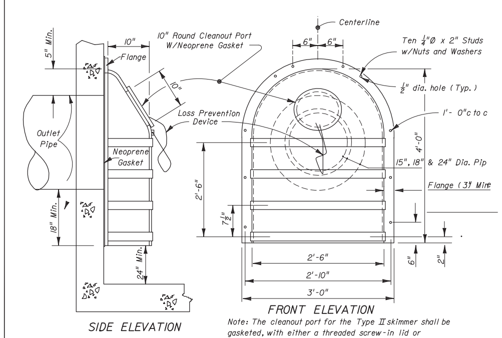
10. FOR STRUCTURES W/ 2 BAFFLES, MIN. SIZE SHALL BE 54" ROUND OR RECTANGULAR.

NOTES:

1. ALL MAINTENANCE OF TRAFFIC SHALL COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS AND THE CITY OF CORAL GABLES PUBLIC WORKS DEPT. WHICHEVER IS MORE STRINGENT SHALL APPLY.
2. ALL WORK SHALL CONFORM TO CURRENT MIAMI-DADE COUNTY DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES & THE CITY OF CORAL GABLES PUBLIC WORKS.
3. REPLACE ALL DISTURBED SURFACES TO MATCH PRE-EXISTING CONDITIONS, COST TO BE INCIDENTAL TO THE WORK.
4. DISPOSE OF SURPLUS MATERIALS IN A LEGAL MANNER AT AN APPROVED SITE & LEAVE THE SITE CLEAN AND READY FOR USE.
5. CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE BOXES AND OTHER FACILITIES TO PROPER GRADES BASED ON IMPROVEMENTS AS PART OF THIS WORK.
6. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE SIZES, LOCATIONS, AND ELEVATIONS OF ALL EXISTING UTILITIES AND UNDERGROUND STRUCTURES PRIOR TO THE START OF CONSTRUCTION.
7. CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE SHEATHING, SHORING, BARRICADES, FLASHERS, AND ANY OTHER PROCEDURE AND OR EQUIPMENT NECESSARY TO PREVENT BODILY INJURY OR PROPERTY DAMAGE RESULTING FROM THE PROPOSED WORK. ALL COSTS ARE INCIDENTAL TO THE WORK.
8. CONTRACTOR SHALL FURNISH ENGINEER WITH SIX (6) SETS OF SHOP DRAWINGS AND/OR MANUFACTURER'S SUBMITTALS FOR ALL (CIVIL) MATERIALS FURNISHED (PIPE, COUPLINGS, MANHOLE RING AND COVER, STRUCTURES, ETC.). EACH SHOP DRAWING SHALL HAVE THE CONTRACTOR'S SEAL, SIGNATURE, AND DATE. CONTRACTOR SHALL NOT ORDER ANY EQUIPMENT AND/OR MATERIALS UNTIL HE HAS RECEIVED WRITTEN APPROVAL OF THE SHOP DRAWINGS FROM THE ENGINEER.
9. ENGINEER'S REVIEW OF SHOP DRAWINGS SUBMITTED BY THE CONTRACTOR SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE REVIEW WILL NOT INCLUDE CONTRACTOR'S CONSTRUCTION METHODS, NOR WILL IT CONFIRM THAT THE DIMENSIONS OF THE ITEMS FURNISHED WILL FIT WITH OTHER ITEMS FURNISHED OR CONSTRUCTED. THAT RESPONSIBILITY WILL LIE SOLELY WITH THE CONTRACTOR.
10. - WORK PERFORMED WILL NOT BE CONSIDERED COMPLETE UNTIL THE FOLLOWING DOCUMENTS ARE RECEIVED AND ARE FOUND ACCEPTABLE BY THE ENGINEER:
10.a. - CONTRACTOR'S WAIVER AND RELEASE OF LIEN;
10.b. - "AS-BUILT" PLANS SHOWING SPECIFIC LOCATIONS, DEPTH OF EXFILTRATION TRENCH, FINISHED PAVEMENT ELEVATIONS, CATCH BASIN INLET ELEVATIONS, ETC., OF ALL INSTALLED FACILITIES AS LOCATED BY A FLORIDA LICENSED LAND SURVEYOR, ALONG WITH TWO (2) HARDCOPIES OF THE "AS-BUILT" WHICH HAVE BEEN SIGNED AND SEALED BY A FLORIDA REGISTERED SURVEYOR AND ENDORSED BY THE CONTRACTOR, ALONG WITH A CD CONTAINING THE "AS-BUILT" PLANS IN CAD AND PDF FORMAT.
11. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WATER AND SEWER CONTRACTOR AND WITH OTHER UTILITY AND BUILDING TRADES WORKING ON THIS PROJECT.
12. ALL PREVIOUS EXISTING DRAINAGE/UNDERGROUND UTILITIES SHALL BE REMOVED PRIOR TO CONSTRUCTION.
13. ALL PREVIOUS EXISTING DRAINAGE/UNDERGROUND UTILITIES CONNECTED TO EXISTING SHALL BE CLEANED AND INSPECTED PRIOR AND AFTER CONNECTION.
14. ALL PROPOSED MATERIAL FOR NEW EXFILTRATION TRENCH PIPING SHALL BE INDICATED ON THE PLAN. ALL PIPING SHALL BE HDPE PIPE.




TYPE II SKIMMER

## SKIMMER DETAILS PER FDOT 2015 INDEX 241

N.T.S.

McINERNEY, INC.
1447 NW 129TH TERR.
SUNRISE, FL 33323
FL CA NO. 30711

CWI
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Consulting Engineers CA 07528
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CWI No. 15110.00 www.civilworks.com

EOR: LINDA M. BELL, P.E.
FLORIDA P.E. #38542

UNIVERSITY OF MIAMI - INTERNAL CIRCULATION ROAD - PHASE 2

UNIVERSITY OF Miami

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REVISIONS

| NO. | DESCRIPTION | DATE |
| --- | --- | --- |
| | | |

DATE ISSUED: 12/16/2016
REVIEWED BY:
DRAWN BY:
DESIGNED BY:

SHEET TITLE

PAVING AND DRAINAGE DETAILS

SHEET NUMBER

CG-03.07

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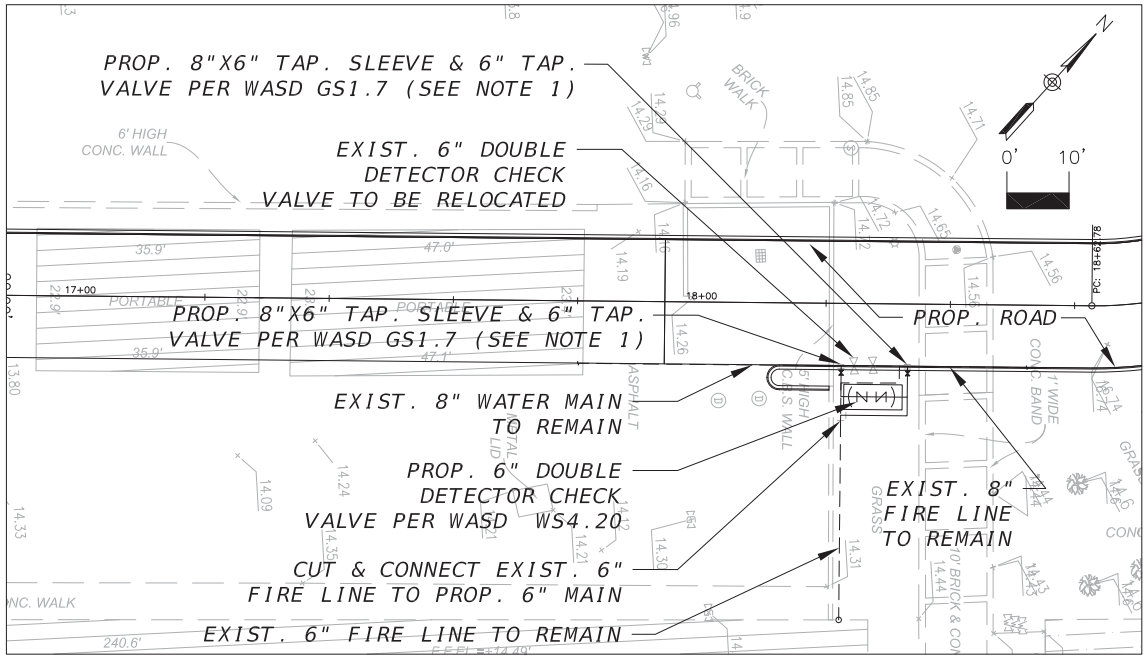
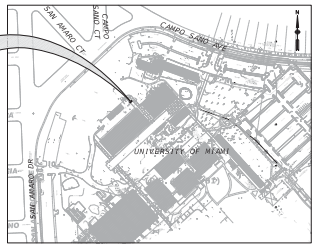
12/15/2016 9:45:19 AM, COMPUTER-53, 11x17




VALVE LOCATION




## LOCATION MAP

SCALE: 1" = 300'

LEGAL DESCRIPTION:
XXXXX

## INDEX OF SHEETS


CG-03.08: DETECTOR CHECK VALVE RELOCATION PLAN
CG-03.09: NOTES


DRY RUN

RELOCATION FOR DCV ID#:
UNIV. OF MIAMI
1320 CAMPASANO
KNIGHT PHYSICS
IRP, 3 FIRE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REVISIONS

| NO. | DESCRIPTION | DATE |
|---|---|---|
| | | |

DATE ISSUED: 12/16/2016
REVIEWED BY:
DRAWN BY:
DESIGNED BY: DRAINAGE PLAN

SHEET TITLE
DETECTOR CHECK VALVE RELOCATION
PLAN

SHEET NUMBER
CG-03.08

\\COMPUTER-15\Server16\Projects\16114 - UM\Working Directory\Water.dwg

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 MATERIALS.
2. COVER OVER WATER OR SEWER FORCE MAINS SHALL BE 4'-0" MIN.
3. 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.
4. ALL FORCE MAIN SERVICE CONNECTIONS INTO PRESSURE TRANSMISSION MAINS SHALL HAVE A SHUT OFF VALVE AND CHECK VALVE AT THE POINT OF ENTRY.
5. ALL GRAVITY SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DEPARTMENT STANDARDS.
6. ALL WATER METERS WILL BE INSTALLED BY THE MIAMI-DADE WATER AND SEWER DEPARTMENT PROVIDING THE APPROPRIATE CHARGES HAVE BEEN PREPAID.
7. FIRE HYDRANT REQUIREMENTS (NUMBER AND LOCATION) SHALL BE AS REQUIRED BY THE MIAMI-DADE COUNTY FIRE DEPARTMENT OR THE APPROPRIATE FIRE AGENCY WITH INSTALLATION IN ACCORDANCE WITH DEPARTMENT STANDARDS.
8. CONTRACTOR MUST CALL M-DWASD INSPECTION DIVISION TO ARRANGE FOR A PRECONSTRUCTION MEETING 2 FULL BUSINESS DAYS PRIOR TO PROPOSED START OF CONSTRUCTION. CONTACT ONE CALL CENTER 48 HRS PRIOR TO EXCAVATION.
9. 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.
10. 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.
   a. EASEMENTS, IF REQUIRED.
   b. CONTRACTOR'S WAIVER AND RELEASE OF LIEN.
   c. ABSOLUTE BILL OF SALE.
   d. i. CONTRACTOR'S LETTER OF WARRANTY (I.E., LETTER AGREEMENT).
      ii. DEVELOPER'S CONTRACT BOND (I.E. CONTRACT AGREEMENT).
   e. "RECORD DRAWING" PRINTS (24"x36") SHOWING SPECIFIC LOCATIONS, DEPTH, ETC. OF ALL WATER AND SEWER FACILITIES AS LOCATED BY A LICENSED SURVEYOR & 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). Submittal of final CAD files required.
   f. H.R.S. LETTER OF RELEASE REQUIRED FOR ALL WATER PROJECTS.
   g. BILL OF SALE SKETCH (8 1/2"x 11") FOR WATER AND SEWER, SEPARATELY.
11. 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.
12. 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.
13. 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 SUPERVISION OF THE INSPECTOR.

| ITEM | CROSS REF. | SPEC. REF. |
|---|---|---|
| | | |

| ISSUE DATE | APPROVED BY |
|---|---|
| 03/01/2010 | V.F.C |
| 07/20/2016 | D.V. |

MIAMI-DADE WATER & SEWER DEPARTMENT

STANDARD DETAIL

STANDARD REQUIREMENTS WATER AND SEWER CONSTRUCTION

GS 0.5 SHEET 1 OF 2

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1. AT THE COMPLETION OF ANY WATER AND SEWER JOB EITHER DONATION OR CONTRACT, THE CONTRACTOR SHALL SUBMIT:
   a. RECORD DRAWINGS PRINTS WHICH HAVE BEEN SIGNED AND SEALED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER (QTY. OF PRINTS AS REQUIRED BY THE DEPARTMENT).
2. "RECORD DRAWING" FORMAT:
   a. 24"x 36" PRINTS
   b. PDF FILE
   c. CADD FILE (DWG OR DXF) ROTATED AND TRANSLATED TO STATE PLANE COORDINATES NAD 83 FLORIDA EAST ZONE
   d. THE WORDS "RECORD DRAWING" IN LARGE LETTERS
   e. TITLE BLOCK WITH DEPARTMENT DS, DW OR ER NUMBER AND PERTINENT INFORMATION
   f. PREFERRED SCALE TO BE 1"=40' HORIZONTALLY AND 1"=4' VERTICALLY*
   g. STREET NOMENCLATURE
   h. SEPARATE RECORD DRAWINGS FOR WATER AND SEWER
   i. SEPARATE WATER AND SEWER PROFILE
   j. STATIONING STARTING 0+00 AT PERMANENT REREFENCE POINT (I.E. ℄, §, ETC.) OR AS SHOWN ON DESIGN PERMIT PLANS, AND TO RUN CONTINUOUSLY TO END OF MAIN
   k. EASEMENTS, IF ANY TIED TO PERMANENT REFERENCE POINT
   l. IDENTIFY ALL CONTROL LINES (I.E. BLDG. LINE, PROPERTY LINE, R/W, ETC.)
   m. ALL "PROPOSED" INFORMATION TO BE REMOVED FROM PRINTS, LEAVING ONLY RECORD DRAWING INFORMATION REFLECTED IN DRAWINGS
3. WATER "RECORD DRAWINGS" MUST INCLUDE:
   a. 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.
   b. 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.
4. SEWER "RECORD DRAWINGS" MUST INCLUDE:
   a. 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.
   b. THE NORTHERLY AND EASTERLY COORDINATES ON ALL FIELD OBTAINED MEASUREMENTS AND PROVIDED ON ALL RECORD DRAWINGS SUBMITTALS.
   c. 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.
5. FORCE MAIN "RECORD DRAWINGS" SAME AS WATER MAIN.
6. 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 PERMITTED, BUT MUST BE APPROVED BY THE DEPARTMENT PRIOR TO PREPARATION OF DRAWINGS.

| ITEM | CROSS REF. | SPEC. REF. |
|---|---|---|
| | | |

| ISSUE DATE | APPROVED BY |
|---|---|
| 03/11/2009 | V.F.C |
| 07/20/2016 | D.V. |

MIAMI-DADE WATER & SEWER DEPARTMENT

STANDARD DETAIL

"RECORD DRAWING" REQUIREMENTS

GS 0.5 SHEET 2 OF 2

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## (NOT PART OF M-DWASD NOTES NOR APPROVAL)
## REGULATORY AND ECONOMIC RESOURCES

RER NOTES ON WATER-SEWER INSTALLATION

1. A PREFERRED HORIZONTAL DISTANCE (OUTSIDE TO OUTSIDE) OF 10 FEET OR MINIMUM OF 6 FEET SHALL BE MAINTAINED BETWEEN GRAVITY OR PRESSURE SEWER PIPES AND WATER MAINS. THE HORIZONTAL SEPARATION CAN BE REDUCED TO A MINIMUM OF 3 FEET ONLY FOR GRAVITY SEWER PIPES WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER. WHEN THE ABOVE SPECIFIED HORIZONTAL DISTANCE CRITERIA CANNOT BE MET DUE TO AN EXISTING UNDERGROUND FACILITY CONFLICT, SMALLER SEPARATIONS ARE ALLOWED IF:

   ·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.

2. 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 GRAVITY SEWERS WHERE THE SEWER PIPE IS CROSSING 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. WHEN THE ABOVE SPECIFIED VERTICAL DISTANCE CRITERIA CANNOT BE MET DUE TO AN EXISTING UNDERGROUND FACILITY CONFLICT, SMALLER SEPARATIONS ARE ALLOWED IF:

   ·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.

3. THE CONTRACTOR SHALL VERIFY NATURE, DEPTH, AND CHARACTER OF EXISTING UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.

4. ALL OTHER PUBLIC OR PRIVATE UTILITY FACILITIES SHALL BE CONSTRUCTED AT LEAST 5 FEET FROM ANY WATER AND SEWER MAIN AS MEASURED FROM THE OUTSIDE BELL OF THE WATER OF THE UTILITY PIPE.

5. WHEN THE 5 FEET SEPARATION BETWEEN PROPOSED AND EXISTING LINE IS NOT POSSIBLE, THE CONTRACTOR SHALL HAND DIG OR EXPOSE THE WATER AND SEWER PIPES BEFORE PROCEEDING WITH POWER EQUIPMENT EXCAVATION.

6. IN NO CASE SHALL A CONTRACTOR INSTALL UTILITY PIPES, CONDUITS, CABLES, ETC. IN THE SAME TRENCH PARALLEL AND ABOVE AN EXISTING WATER OR SEWER PIPE EXCEPT WHERE THEY CROSS. ANY DEVIATION FROM NOTES 3, 4 AND 5 SHALL BE APPROVED IN WRITING BY THE RESPONSIBLE WATER AND SEWER UTILITY.

7. IN HIGHLY CONGESTED AREAS, WHERE EITHER WATER OR SEWER FACILITIES ARE EXISTING OR THE SEPARATION REQUIREMENTS CANNOT BE MET, SPECIAL CONSIDERATION MAY BE GIVEN SUBJECT TO SUBMITTAL OF DOCUMENTATION SHOWING THAT THE PROPOSED ALTERNATIVE WILL RESULT IN AN EQUIVALENT LEVEL OF RELIABILITY AND PUBLIC HEALTH PROTECTION.

8. GRAVITY SANITARY SEWERS CONSTRUCTED WITHIN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE PVC-900 OR DUCTILE IRON PIPE THE MAXIMUM ALLOWABLE EXFILTRATION, INFILTRATION, OR LEAKAGE FOR GRAVITY SANITARY SEWERS CONSTRUCTED WITHIN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE FIFTY (50) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY FOR RESIDENTIAL LAND USE AND TWENTY (20) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY FOR NON-RESIDENTIAL LAND USE WITH NO ALLOWANCES FOR MANHOLES OR LATERALS. THE MAXIMUM ALLOWABLE EXFILTRATION, INFILTRATION, OR LEAKAGE IN GRAVITY SANITARY SEWERS CONSTRUCTED OUTSIDE A PUBLIC WELLFIELD PROTECTION AREA SHALL BE ONE HUNDRED (100) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY. THE DURATION OF ALL TESTS SHALL BE A MINIMUM OF 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.

9. FORCE MAIN SEWERS CONSTRUCTED IN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE EITHER DUCTILE IRON OR REINFORCED CONCRETE PRESSURE SEWER PIPES.

   ·FOR DUCTILE IRON PIPE EXFILTRATION RATE SHALL NOT BE GREATER THAN THE ALLOWABLE LEAKAGE RATE SPECIFIED IN AMERICAN WATER WORKS ASSOCIATION STANDARD (AWWAS) C600-82 AT A TEST PRESSURE OF 100 PSI.

   ·FOR REINFORCED CONCRETE PRESSURE SANITARY SEWER EXFILTRATION RATE SHALL NOT BE GREATER THAN HALF (1/2) THE ALLOWABLE LEAKAGE RATE SPECIFIED IN AWWA C600-82 AT A TEST PRESSURE OF 100 PSI.

10. A NON-RESETTABLE ELAPSED TIME METER SHALL BE INSTALLED AT EACH PUMP TO RECORD THE TOTAL NUMBER OF OPERATING HOURS OF THE STATION.

## (NOT PART OF M-DWASD NOTES NOR APPROVAL)
## ENGINEER GENERAL NOTES AND SPECIFICATIONS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL LOCATIONS, DIMENSIONS, ELEVATIONS AND THE LOCATIONS OF ALL UNDERGROUND STRUCTURES AND UTILITIES PRIOR TO THE START OF CONSTRUCTION. THE LOCATIONS SHOWN ON THE PLANS ARE NOT GUARANTEED ACCURATE OR CORRECT BY THE KNOWN UTILITY COMPANIES.

2. THE CONTRACTOR SHALL NOTIFY THE MDWASD, THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT, THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION (IF APPLICABLE), AND THE PROJECT ENGINEER AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION AND REQUIRED INSPECTIONS.

3. PIPE INSTALLATION, CLEANING, FLUSHING, TESTING AND DISINFECTION AS PER M-DWASD STANDARDS.

4. AS-BUILT DRAWINGS TO BE PROVIDED BY A LAND SURVEYOR REGISTERED TO PRACTICE IN THE STATE OF FLORIDA. CERTIFIED AS-BUILTS MUST BE SUBMITTED TO AND ACCEPTED BY THE DEPARTMENT AND THEIR ENGINEER PRIOR TO FINAL CERTIFICATION BY THE ENGINEER OF RECORD.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE ENGINEER OF RECORD WITH COPIES OF THE BACTERIOLOGICAL ANALYSES AND DEPARTMENT PRESSURE TEST REPORTS.

6. SURFACE RESTORATION, PAVEMENT REPLACEMENT, SIDEWALK REPLACEMENT, TRENCH BACKFILLING AND COMPACTION SHALL COMPLY TO THE LATEST STANDARDS AND SPECIFICATIONS AS SET FORTH BY THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT.

7. ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM, 1929.

8. THERE MAY BE OTHER EXISTING UTILITIES IN THE AREA WHICH ARE NOT SHOWN ON THE PLANS.

9. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF AND COMPLY WITH ALL FEDERAL, STATE, COUNTY AND CITY LAWS, BY-LAWS, ORDINANCES AND REGULATIONS WHICH CONTROL THE ACTION OR OPERATION OF THOSE ENGAGED OR EMPLOYED IN THE WORK OR WHICH AFFECT MATERIALS USED. PARTICULAR ATTENTION IS CALLED TO THE SAFETY REGULATIONS PROMULGATED BY THE STATE OF FLORIDA DEPARTMENT OF LABOR AND EMPLOYMENT SECURITY.

10. OCCUPATIONAL SAFETY AND HEALTH REQUIREMENTS: THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY FOR THE PROTECTION OF LIFE, HEALTH AND GENERAL OCCUPATIONAL WELFARE OF ALL PERSONS, INCLUDING EMPLOYEES OF THE CONTRACTOR, THE COUNTY AND THE OWNER, UNTIL THE WORK REQUIRED UNDER THE CONTRACT HAS BEEN COMPLETED. THE CONTRACTOR SHALL COMPLY AT ALL TIMES WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, PROVISIONS AND POLICIES GOVERNING SAFETY AND HEALTH, INCLUDING TITLE 29, CODE OF FEDERAL REGULATIONS, PART 1926, OCCUPATIONAL SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION INCLUDING ANY SUBSEQUENT REVISIONS AND UPDATES.

11. CONSTRUCTION PER MIAMI-DADE WATER AND SEWER DEPARTMENT STANDARDS AND SPECIFICATIONS.

12. MAINTAIN 10' SEPARATION BETWEEN WATER AND SEWER LINES.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISIONS, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH THE MUTCD, DEPARTMENT MANUAL, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) ROADWAY AND TRAFFIC DESIGN STANDARDS. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESETTING OR REPLACING OF ALL TRAFFIC CONTROL AND INFORMATION SIGNAGE, AS WELL AS PAVEMENT MARKINGS REMOVED OR DAMAGED DURING CONSTRUCTION PERIOD.

14. CONTRACTOR TO PROVIDE MAINTENANCE BOND REQUIRED BY M-DWASD.

## (NOT PART OF M-DWASD NOTES NOR APPROVAL)
## WATER MAIN VERTICAL SEPARATIONS

THE FOLLOWING ARE REQUIREMENTS PER DEPARTMENT OF HEALTH

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 OR PRESSURE SEWERS, WASTEWATER FORCE MAINS OR RECLAIMED WATER.

WATER MAIN HORIZONTAL SEPARATIONS

SEPARATIONS SHALL BE MEASURED OUTSIDE EDGE TO OUTSIDE EDGE

BETWEEN WATER MAINS AND STORM SEWERS, STORM WATER 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 TO ANY PART OF ON-SITE SEWER TREATMENT OR DISPOSAL SYSTEM.
"ALL PIPES AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH THE LATEST EDITION OF THE FLORIDA ADMINISTRATIVE CODE (F.A.C. 62-555.320(21)(b)3) USING BLUE AS A PREDOMINANT COLOR.
UNDERGROUND METAL OR CONCRETE PIPE WILL HAVE BLUE STRIPES APPLIED TO THE PIPE WALL. PIPE STRIPING WILL BE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE LONG AXIS OF THE PIPE AND ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE , AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE.

## *NOTE*

METERS WILL NOT BE INSTALLED IN THIS PROJECT UNTIL ALL REQUIRED BACKFLOW DEVICES HAVE BEEN INSTALLED AND CERTIFIED BY ALL APPROPRIATE AGENCIES


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CWI
Civil Works, Inc.
Consulting Engineers CA 07528
8491 N.W. 17th Street, Suite 108
Doral, FL 33126 (305)591-4123
CWI No. 15110.00 www.civilworks.com

EOR: LINDA M. BELL, P.E.
FLORIDA P.E. #38542


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**DETECTOR CHECK VALVE RELOCATION**

**NOTES**

SHEET NUMBER

**CG-03.09**

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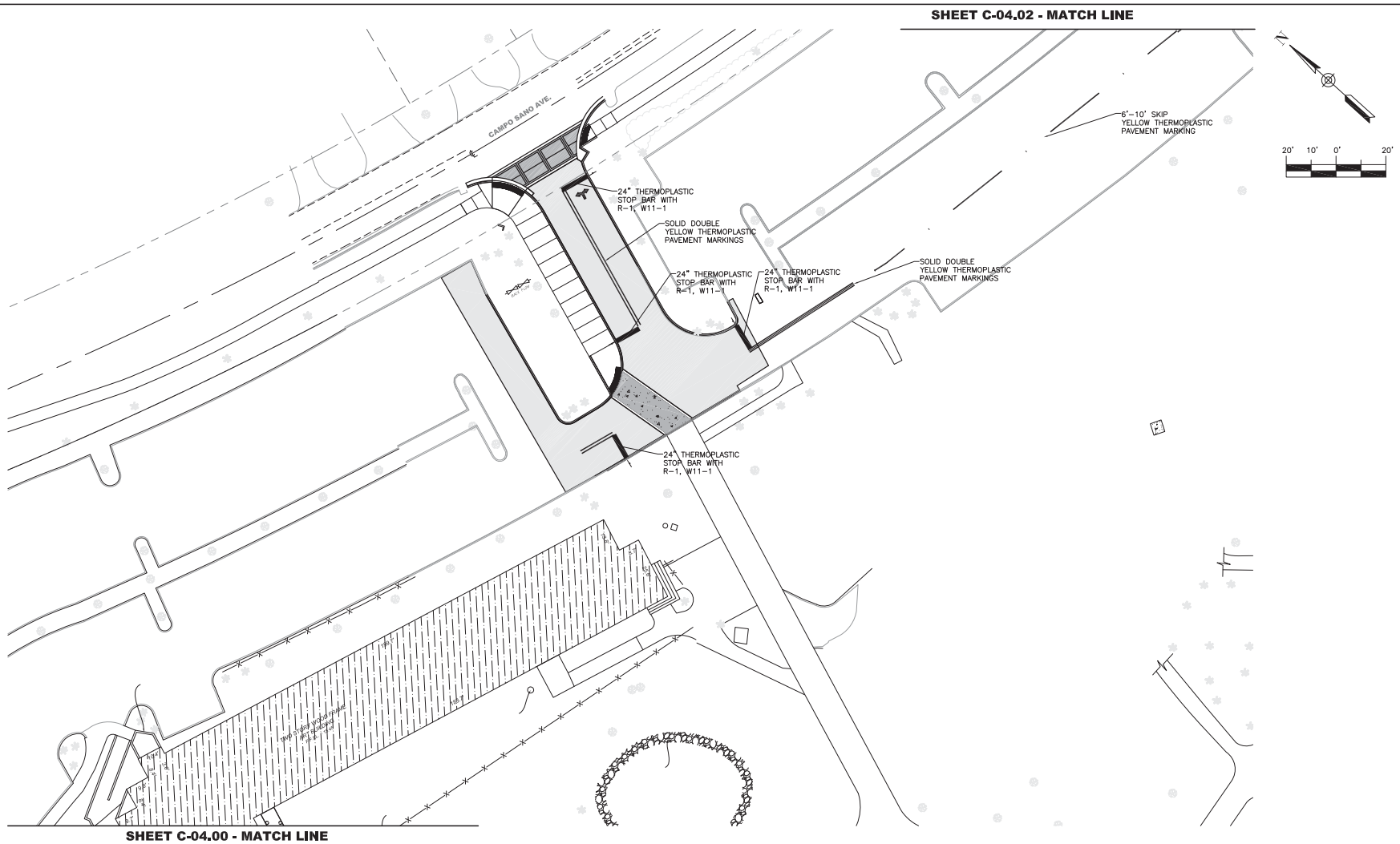


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FL REGISTRATION NO. 71383

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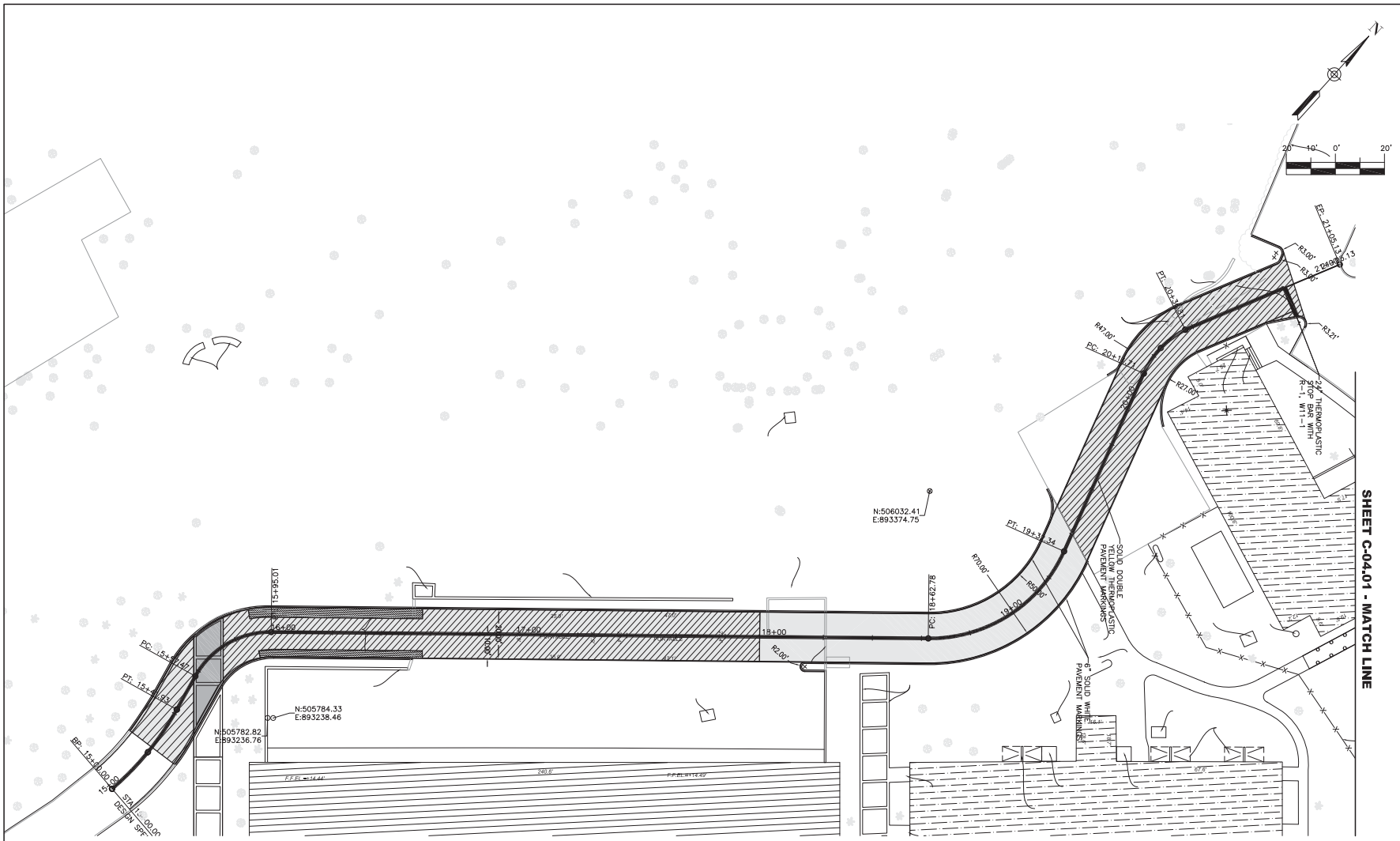


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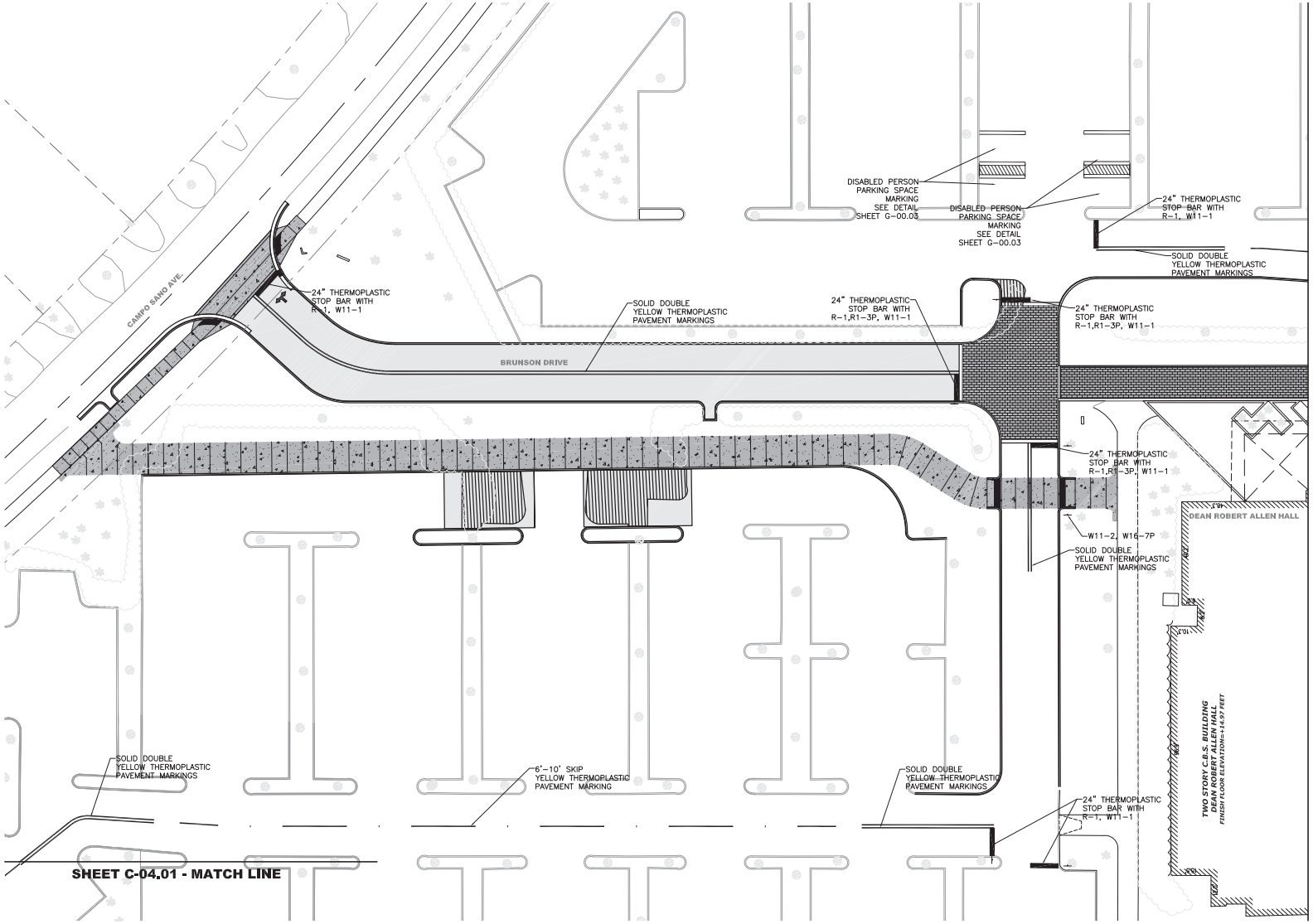


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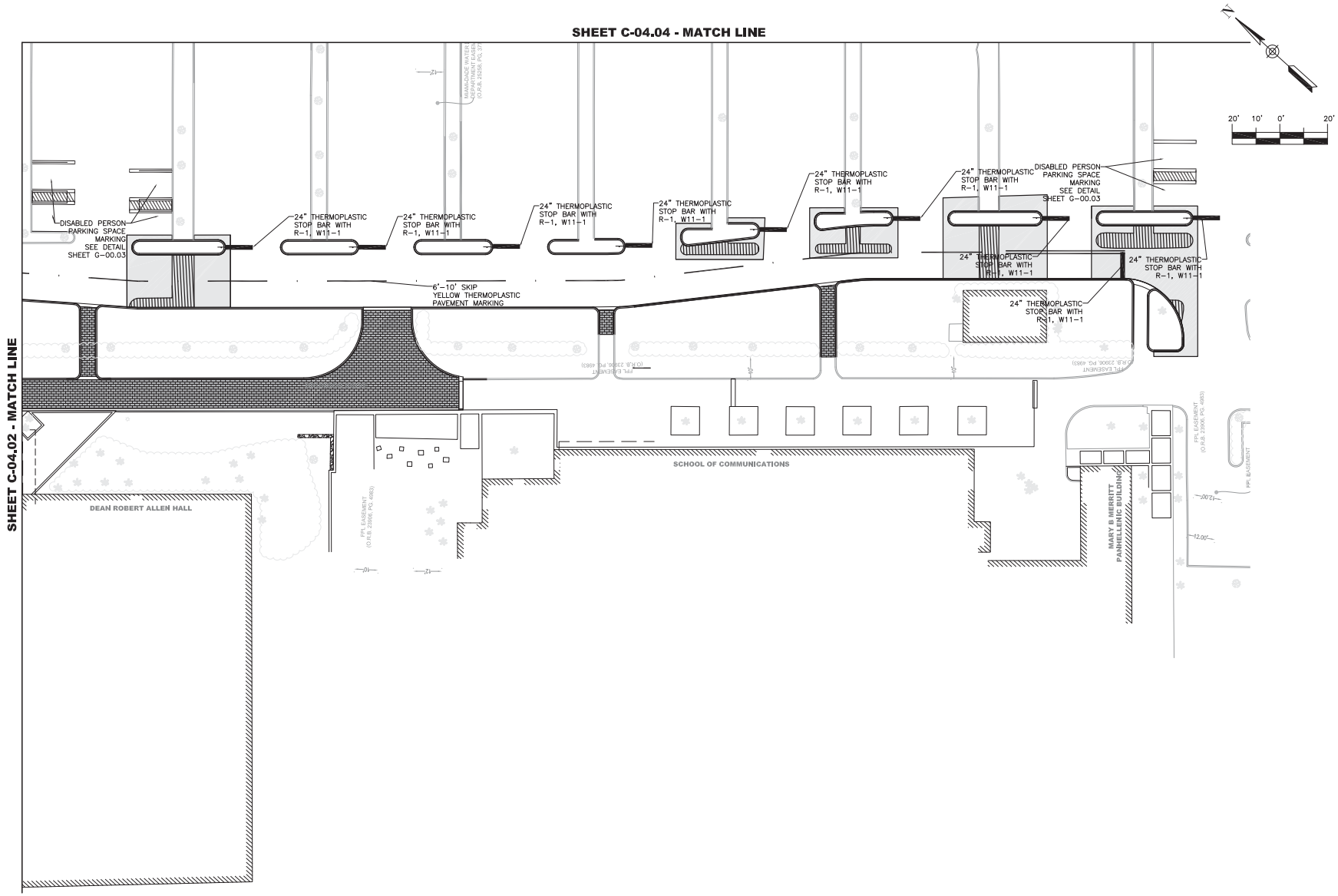



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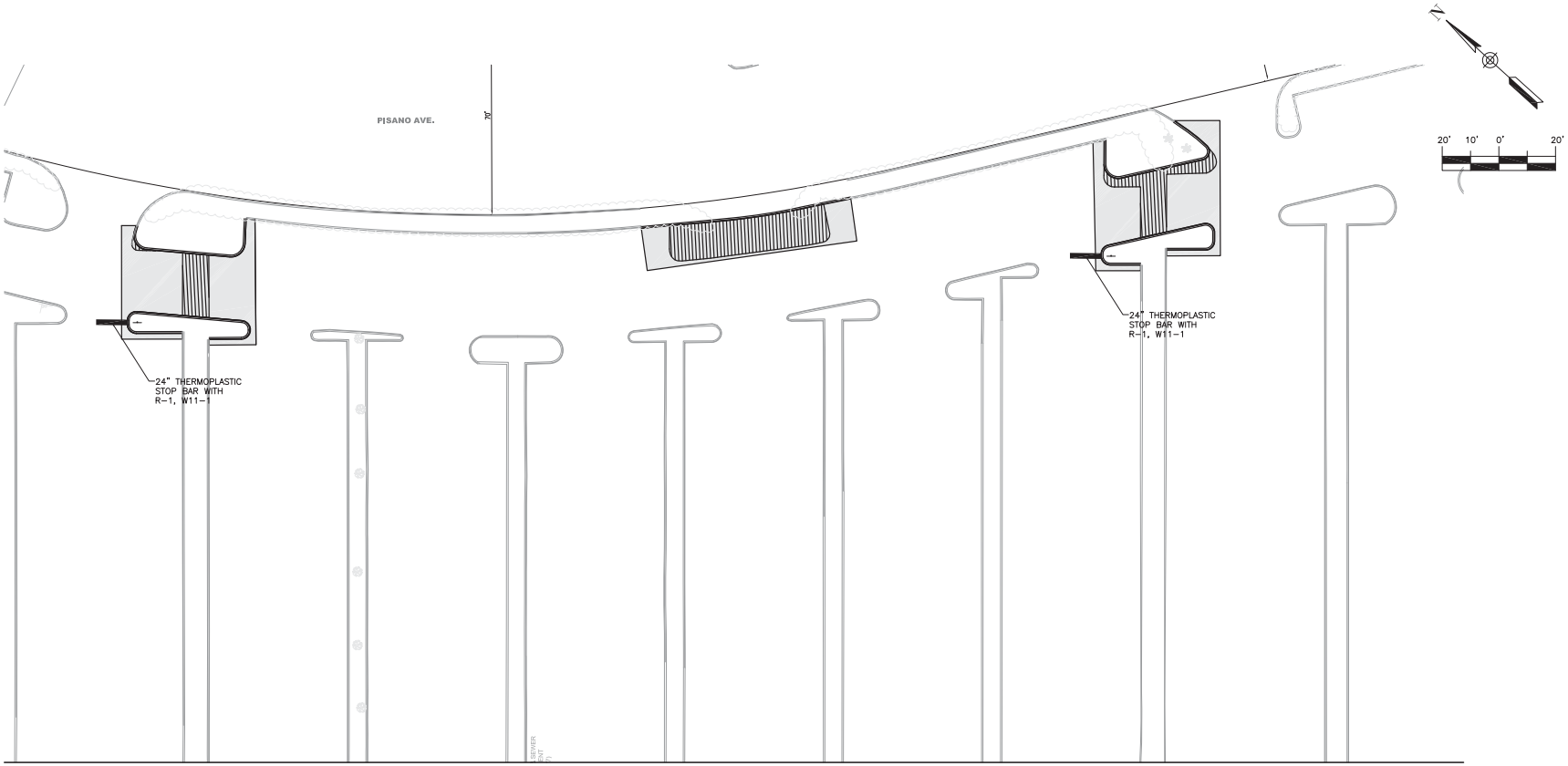


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SHEET NUMBER

**C-04.04**

**PERMIT SET**

DISPOSITION COLOR LEGEND

EXISTING TO REMAIN | TO BE TRANSPLANTED | TO BE REMOVED

0' 8' 16' 24' 40' 80'

ROBERT PARSLEY F.A.I.A.
FL REG. NO. LA0000705

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FL CA NO. 30711

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ROBERT PARSLEY A.S.L.A.
LA 000705
6800 NW 11 STREET MIAMI, FL 33147
PHONE: 305 669 0110 FAX: 305 669 0120

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LANDSCAPE DISPOSITION PLAN

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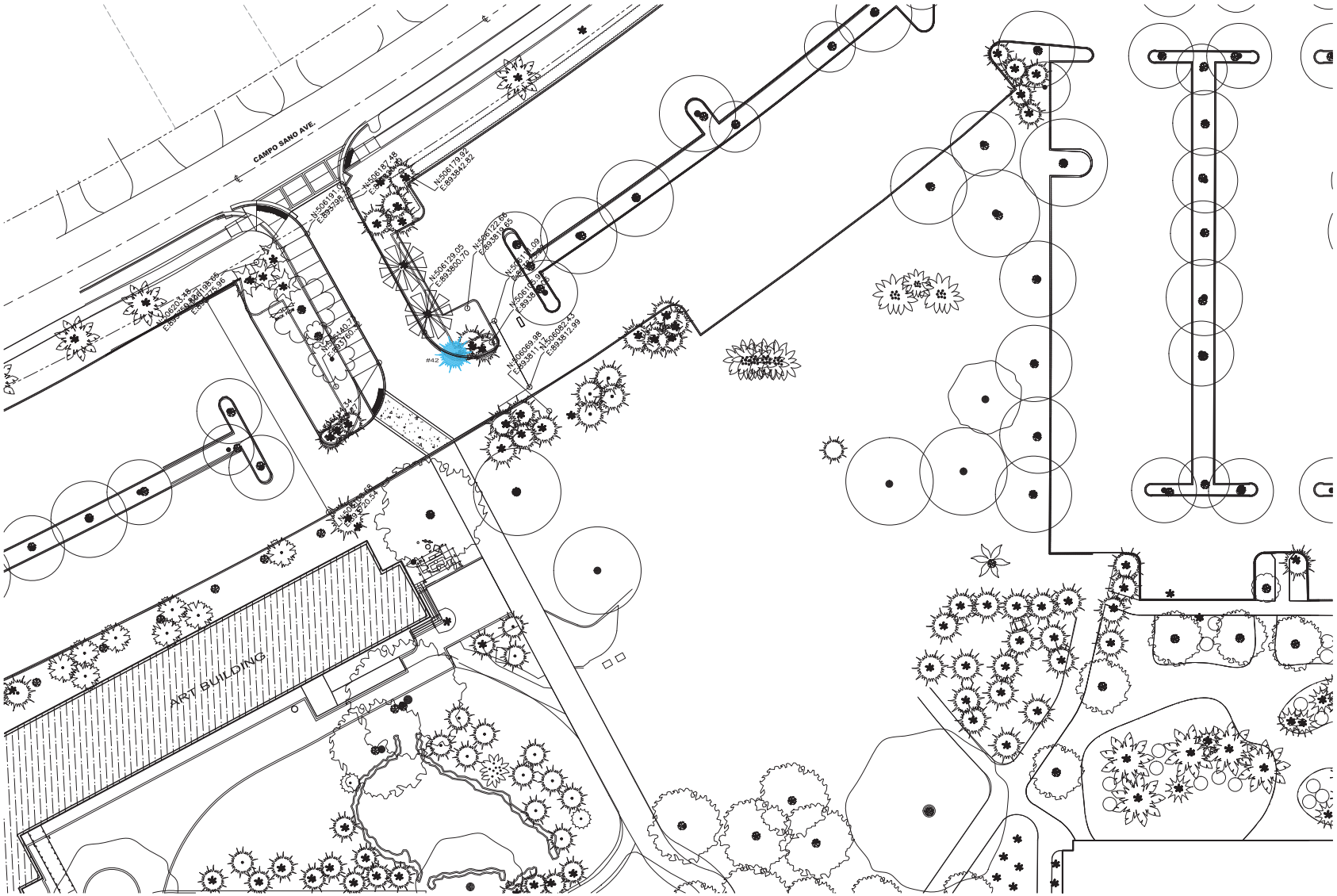


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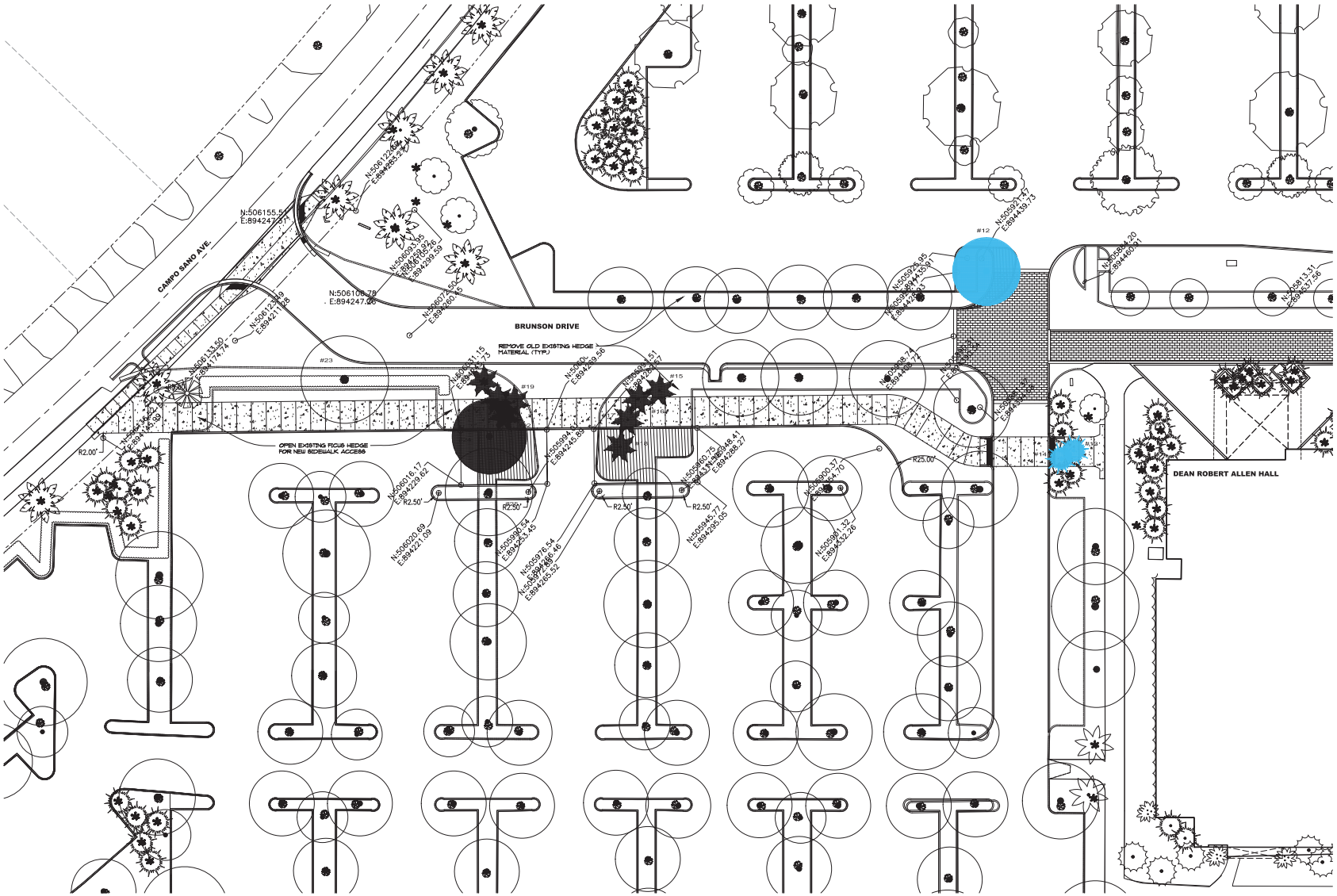


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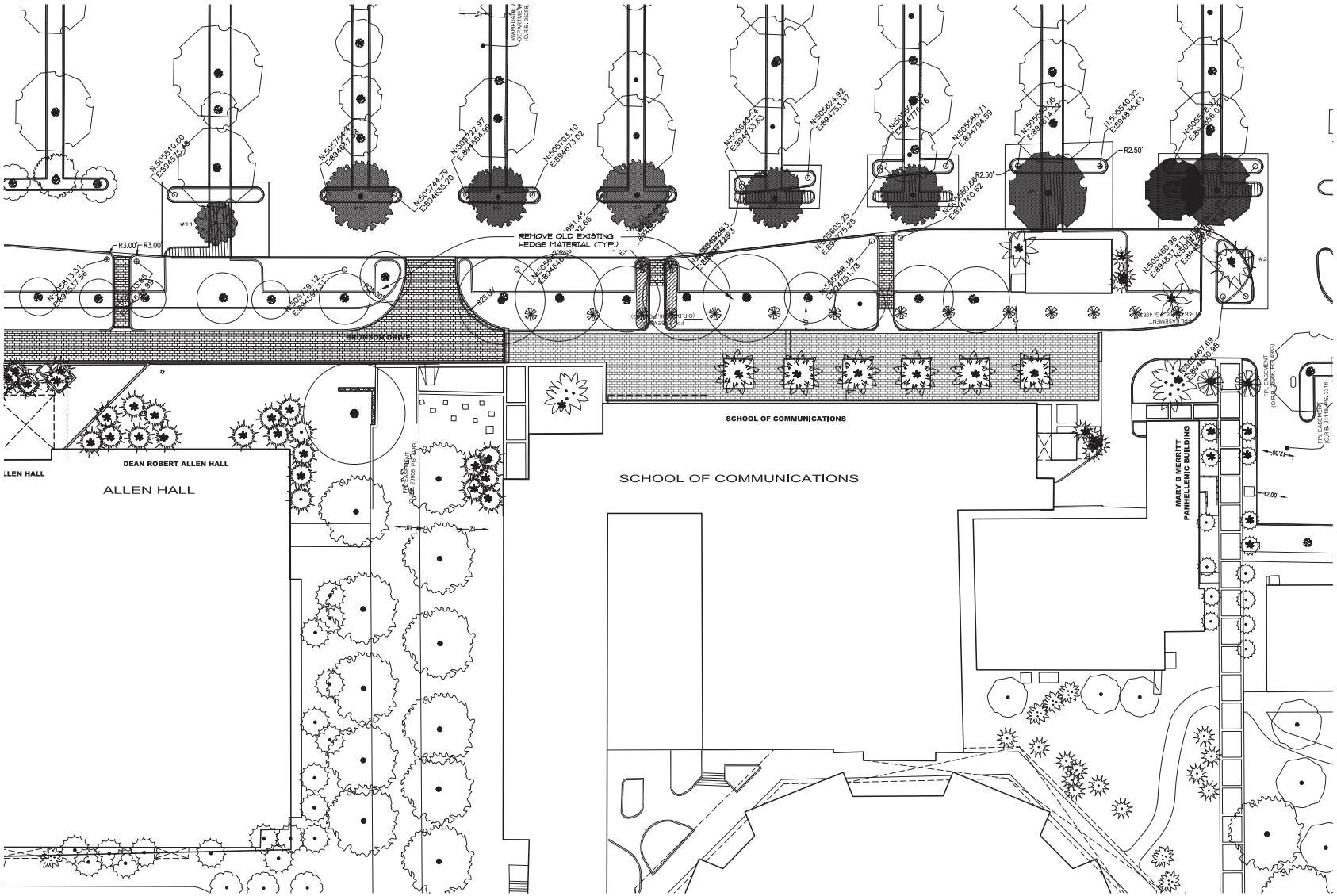


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LANDSCAPE DISPOSITION PLAN

SHEET NUMBER
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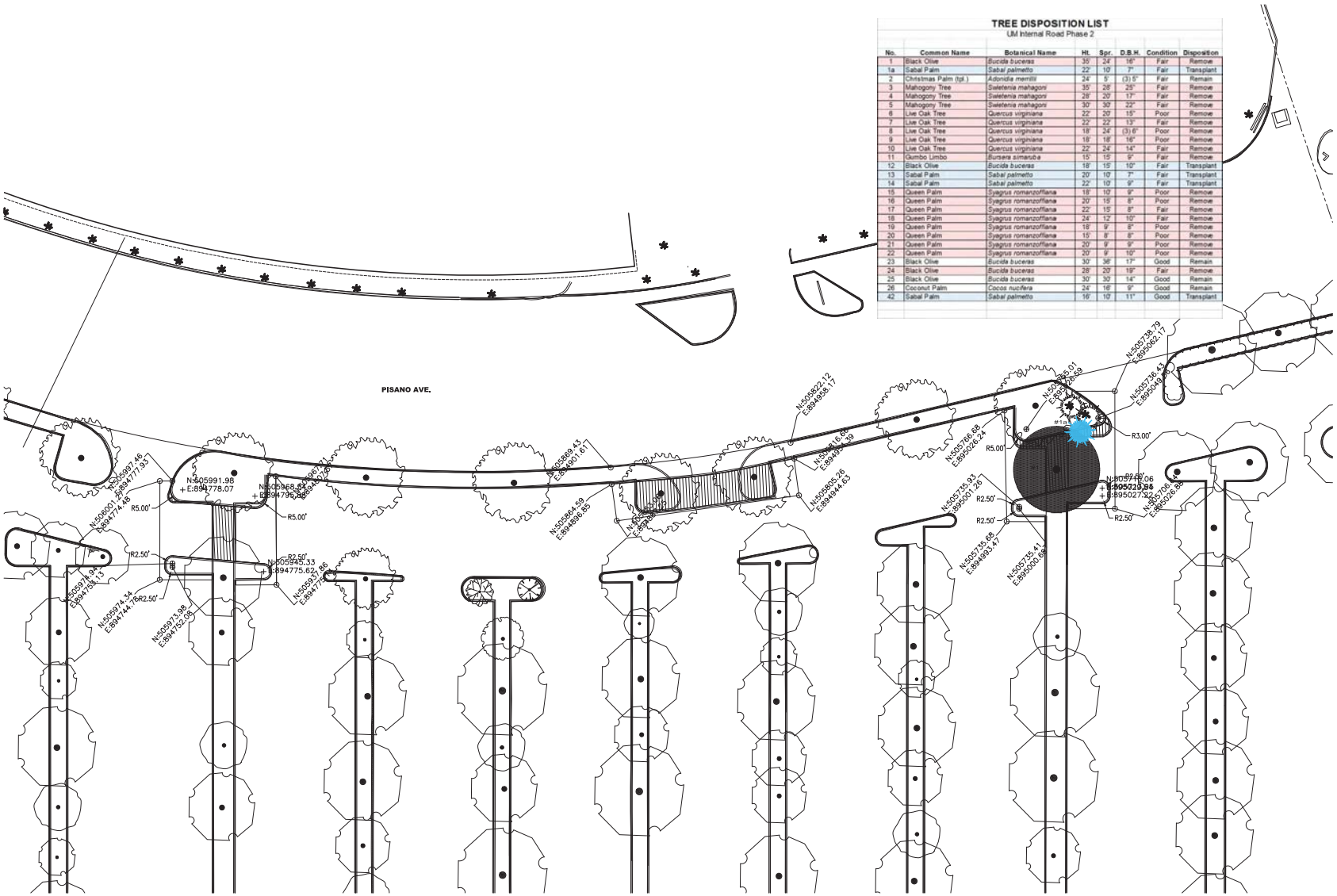
## TREE DISPOSITION LIST

UM Internal Road Phase 2

| No. | Common Name | Botanical Name | Ht. | Spr. | D.B.H. | Condition | Disposition |
|---|---|---|---|---|---|---|---|
| 1 | Black Olive | *Bucida buceras* | 35' | 24' | 16" | Fair | Remove |
| 1a | Sabal Palm | *Sabal palmetto* | 22' | 10' | 7" | Fair | Transplant |
| 2 | Christmas Palm (typ.) | *Adonidia merrillii* | 24' | 5' | (3) 5" | Fair | Remain |
| 3 | Mahogony Tree | *Swietenia mahagoni* | 35' | 28' | 25" | Fair | Remove |
| 4 | Mahogony Tree | *Swietenia mahagoni* | 28' | 20' | 17" | Fair | Remove |
| 5 | Mahogony Tree | *Swietenia mahagoni* | 30' | 30' | 22" | Fair | Remove |
| 6 | Live Oak Tree | *Quercus virginiana* | 22' | 20' | 15" | Poor | Remove |
| 7 | Live Oak Tree | *Quercus virginiana* | 22' | 22' | 13" | Fair | Remove |
| 8 | Live Oak Tree | *Quercus virginiana* | 18' | 24' | (3) 6" | Poor | Remove |
| 9 | Live Oak Tree | *Quercus virginiana* | 18' | 18' | 16" | Poor | Remove |
| 10 | Live Oak Tree | *Quercus virginiana* | 22' | 24' | 14" | Fair | Remove |
| 11 | Gumbo Limbo | *Bursera simaruba* | 15' | 15' | 9" | Fair | Remove |
| 12 | Black Olive | *Bucida buceras* | 18' | 15' | 10" | Fair | Transplant |
| 13 | Sabal Palm | *Sabal palmetto* | 20' | 10' | 7" | Fair | Transplant |
| 14 | Sabal Palm | *Sabal palmetto* | 22' | 10' | 9" | Fair | Transplant |
| 15 | Queen Palm | *Syagrus romanzoffiana* | 18' | 10' | 9" | Poor | Remove |
| 16 | Queen Palm | *Syagrus romanzoffiana* | 20' | 15' | 8" | Poor | Remove |
| 17 | Queen Palm | *Syagrus romanzoffiana* | 22' | 15' | 8" | Fair | Remove |
| 18 | Queen Palm | *Syagrus romanzoffiana* | 24' | 12' | 10" | Fair | Remove |
| 19 | Queen Palm | *Syagrus romanzoffiana* | 18' | 9' | 8" | Poor | Remove |
| 20 | Queen Palm | *Syagrus romanzoffiana* | 15' | 8' | 8" | Poor | Remove |
| 21 | Queen Palm | *Syagrus romanzoffiana* | 20' | 9' | 9" | Poor | Remove |
| 22 | Queen Palm | *Syagrus romanzoffiana* | 20' | 9' | 10" | Poor | Remove |
| 23 | Black Olive | *Bucida buceras* | 30' | 36' | 17" | Good | Remain |
| 24 | Black Olive | *Bucida buceras* | 28' | 20' | 19" | Fair | Remove |
| 25 | Black Olive | *Bucida buceras* | 30' | 30' | 14" | Good | Remain |
| 26 | Coconut Palm | *Cocos nucifera* | 24' | 16' | 9' | Good | Remain |
| 42 | Sabal Palm | *Sabal palmetto* | 16' | 10' | 11" | Good | Transplant |

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10444 N.W. 53 STREET MIAMI, FL 33178
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LANDSCAPE DISPOSITION PLAN

SHEET NUMBER

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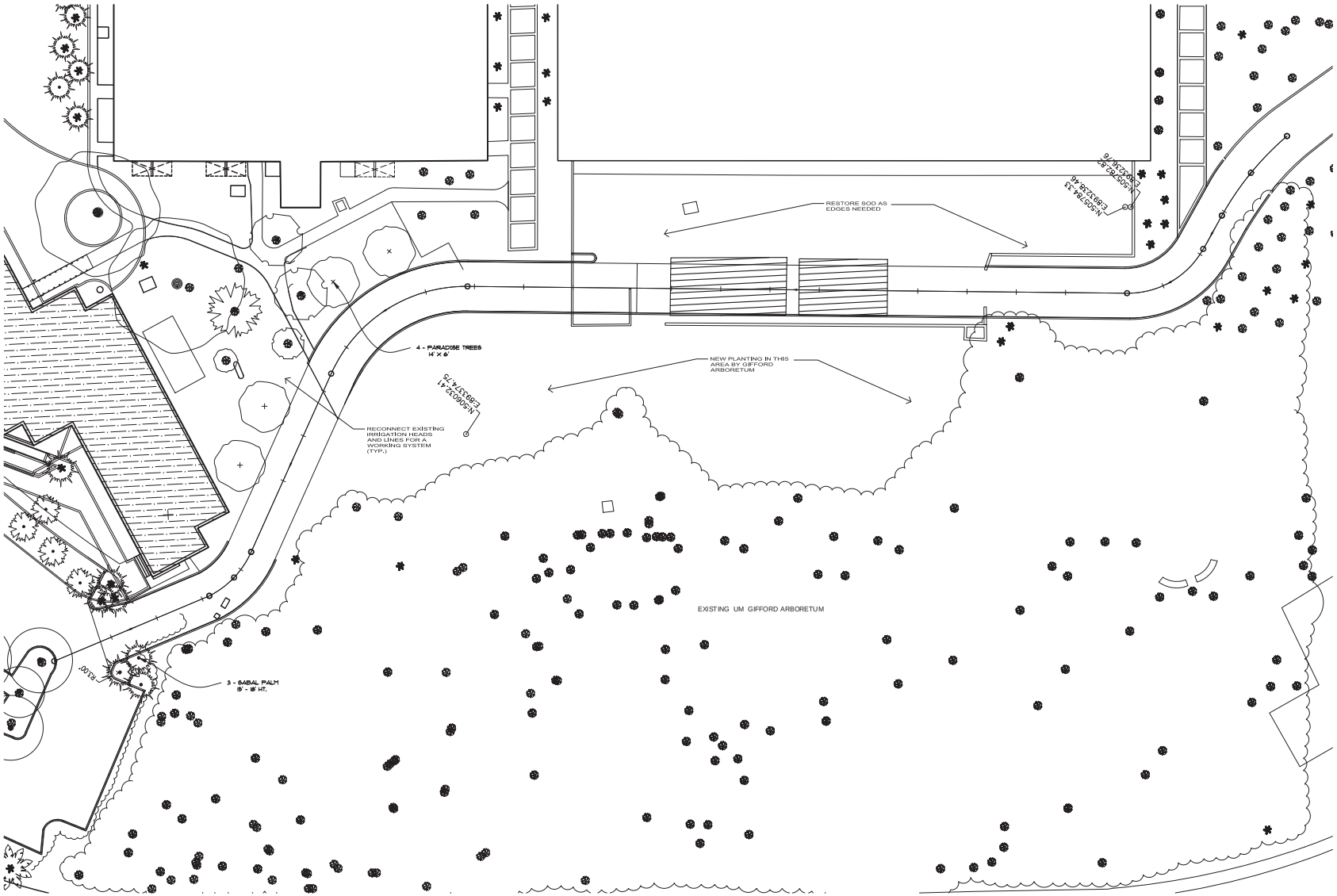


PLANTING LEGEND

EXISTING | TRANSPLANTS | NEW TREES

0' 8' 16' 24' 40' 80'

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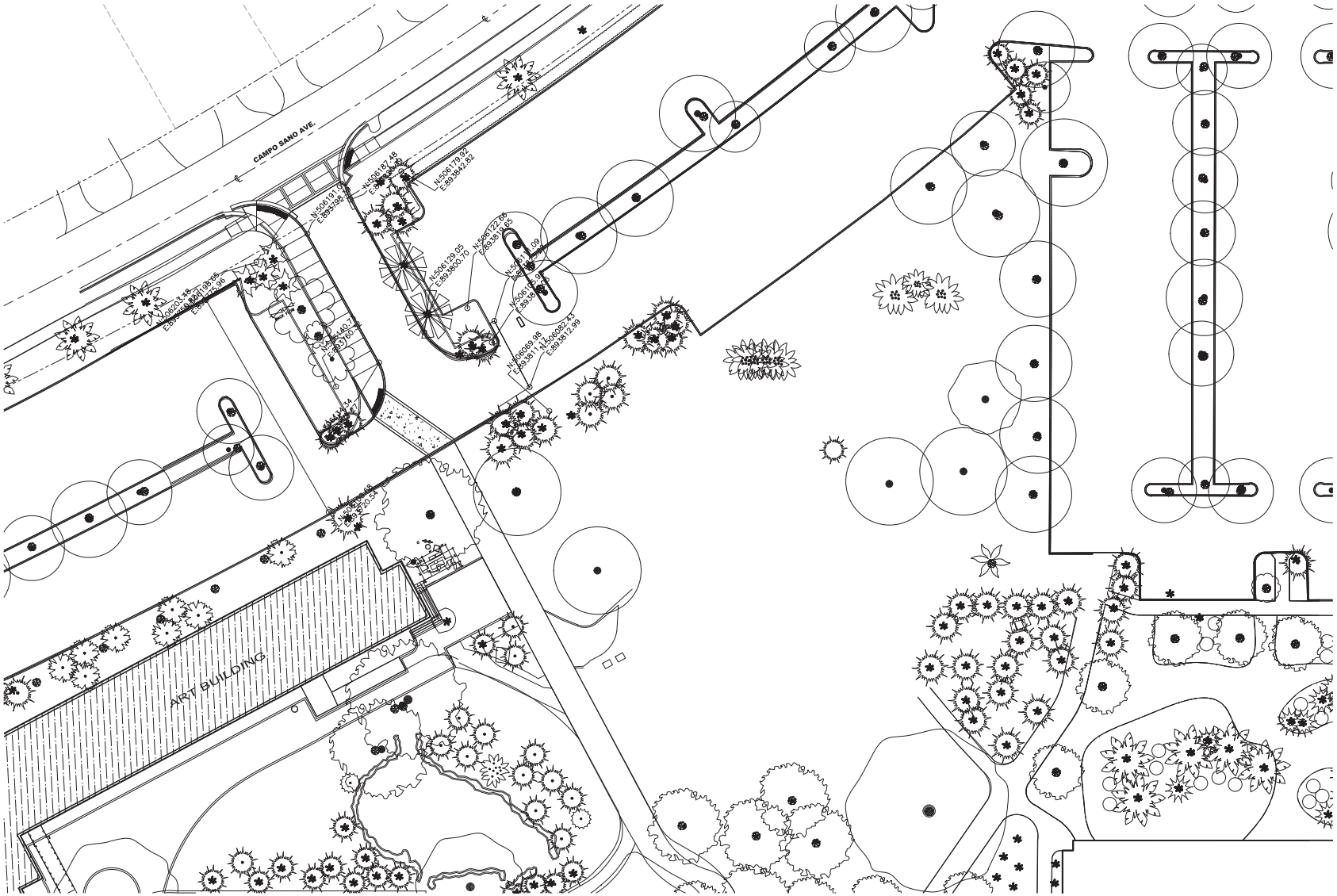


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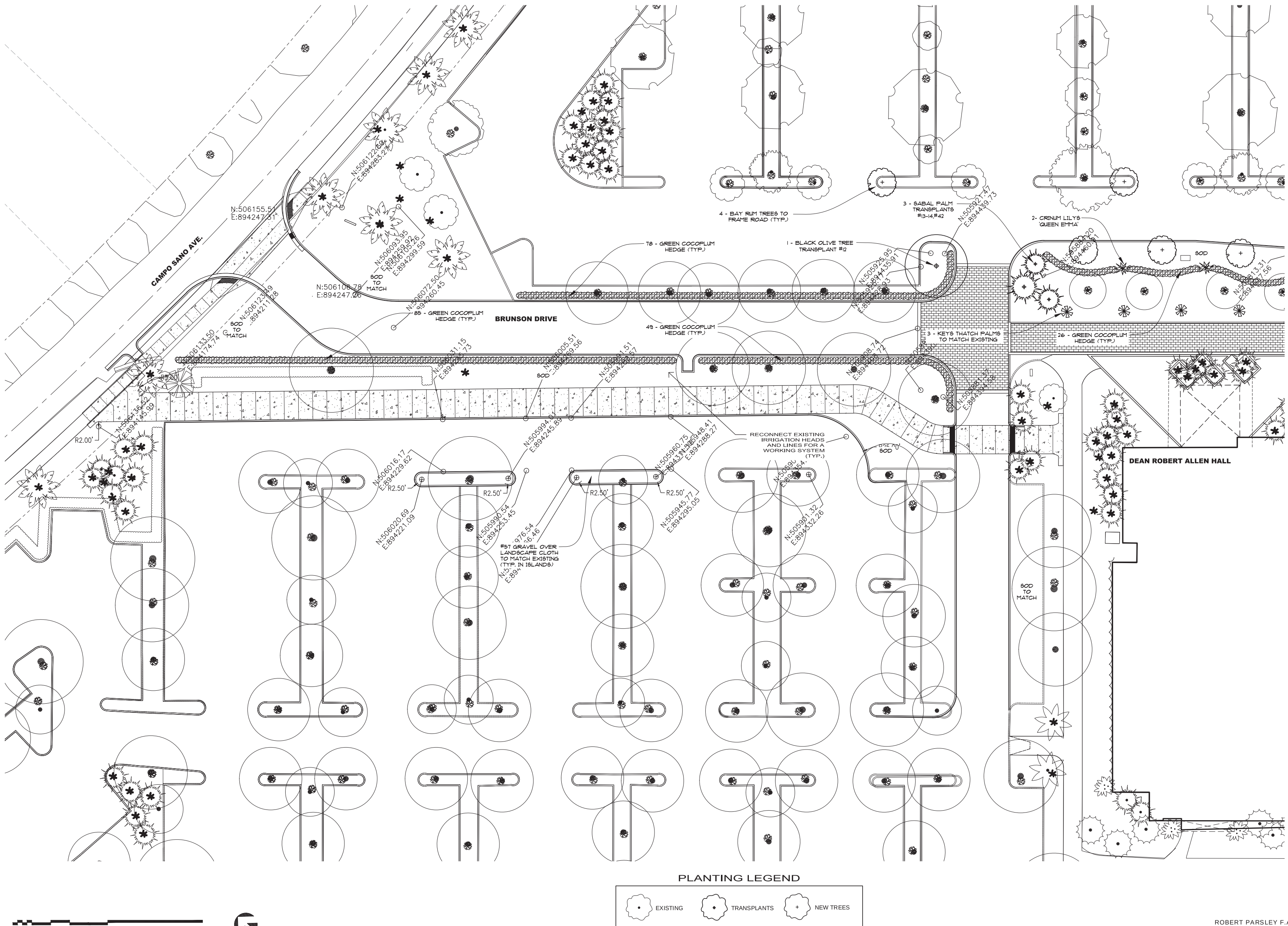


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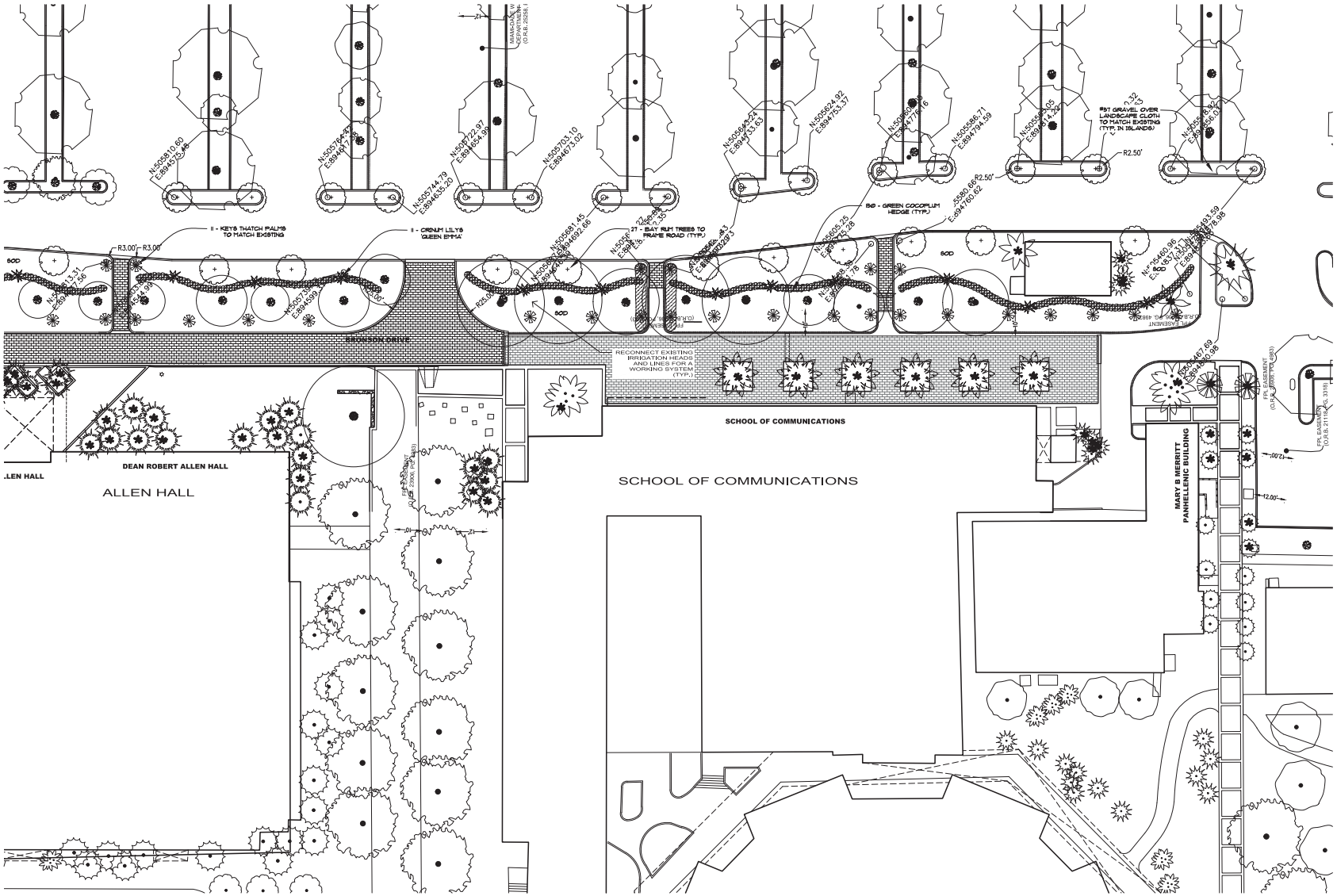


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## PLANT LIST

UM Internal Road Phase 2

| QTY. | COMMON NAME | BOTANICAL NAME | SIZE/SPECS |
|---|---|---|---|
| TREES AND PALMS | | | |
| 31 | Bay Rum Trees | *Pimenta racemosa* | 12'-13' x 5'-6' |
| 14 | Keys Thatch Palms* | *Thrinax morrisii* | 6' x 7', 25 gal. |
| 15 | Paradise Trees* | *Simarouba glauca* | 14' x 6', 45 gal. |
| 3 | Sabal Palms* | *Sabal palmetto* | 12'-20' o.a. |
| 3 | Silver Buttonwood Trees* | *Conocarpus erectus sericeus* | 12' x 5', 45 gal. |
| SHRUBS, GROUNDCOVER AND VINES | | | |
| 388 | Green Cocoplum* | *Chrysobalanus icaco* | 3 Gal., 24" o.c. |
| 13 | Crinum Lily 'Queen Emma' | *Solandra guttata* | 15 gal. |
| 15 | Ficus Hedge | *Ficus benjamina* | 15 gal. 6' ht. |
| * | Denotes South Florida Native species | | |

NOTES

If there are any discrepancies between quantities on plan versus quantities from plant list, the plans take precedence.

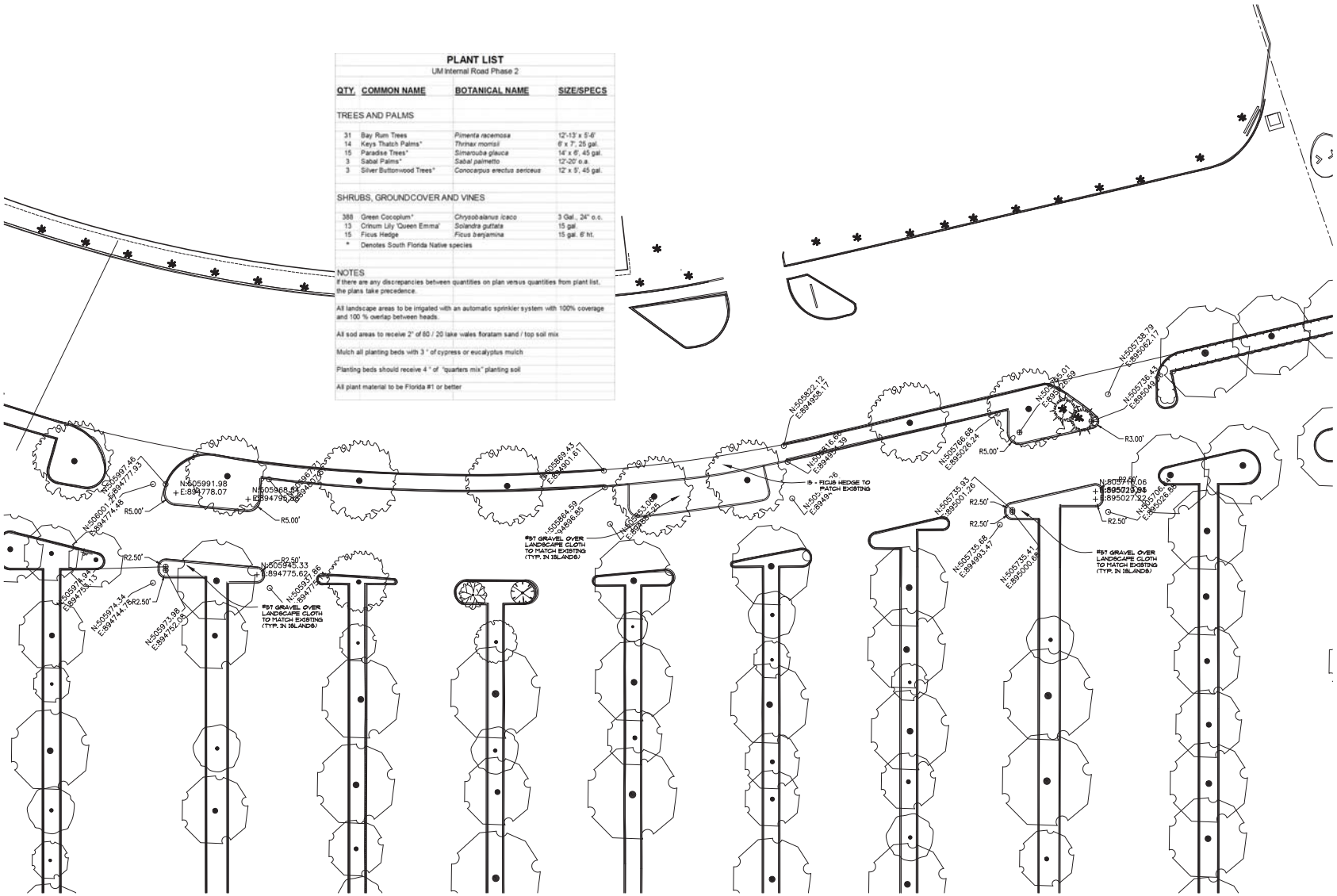
All landscape areas to be irrigated with an automatic sprinkler system with 100% coverage and 100 % overlap between heads.

All sod areas to receive 2" of 80 / 20 lake wales floratam sand / top soil mix

Mulch all planting beds with 3 " of cypress or eucalyptus mulch

Planting beds should receive 4 " of "quarters mix" planting soil

All plant material to be Florida #1 or better




PLANTING LEGEND

EXISTING | TRANSPLANTS | NEW TREES

0 8' 16' 24' 40' 80'

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DESIGNED BY:

SHEET TITLE

LANDSCAPE PLANTING PLAN

SHEET NUMBER

L-00.04

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## ELECTRICAL GENERAL NOTES

1. THE SCOPE OF WORK SHALL CONSIST PRIMARILY OF BUT NOT LIMITED TO THE FOLLOWING:

   A. PROVIDE AND INSTALL LED LIGHTING SYSTEM AND ELECTRICAL POWER FOR THE UNIVERSITY OF MIAMI NEW ROADWAY FOR A COMPLETE WORKING SYSTEM IN PLACE AS SHOWN ON DRAWINGS.

2. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR TO INSTALL THE ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS. ITEMS NOT SHOWN BUT OBVIOUSLY NECESSARY FOR COMPLETION OF THE WORK SHALL BE INCLUDED.
3. THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL SAFETY CODE, LOCAL CODES, FLORIDA BUILDING CODE AND MIAMI DADE COUNTY CODES.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INSPECTIONS AND APPROVALS AND TO INCLUDE ALL FEES AS PART OF THEIR BID IF NOT OTHERWISE NOTED.
5. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE ENGINEER AND OWNER.
6. THE CONTRACTOR SHALL, BEFORE SUBMITTING THEIR BID, VISIT THE SITE OF THE PROJECT AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS. NO ALLOWANCE WILL BE MADE FOR EXISTING CONDITIONS OR FAILURE OF THE CONTRACTOR TO OBSERVE THEM.
7. CONTRACTOR SHALL NOTIFY OWNER 48 HOURS IN ADVANCE OF ANY WORK THAT REQUIRES A POWER SHUTDOWN. CONTRACTOR SHALL PROVIDE A WORKING SCHEDULE IN WRITING TO OWNER SHOWING THE PROPOSED SCHEDULE OF WORK WITH THE ANTICIPATED TIME DURATIONS.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH ALL LOCAL UTILITIES, INCLUDING THE POWER AND TELEPHONE UTILITIES TO MEET ALL OF THEIR INSTALLATION REQUIREMENTS. ALL FEES, LABOR, EQUIPMENT OR MATERIALS NECESSARY TO MEET THESE REQUIREMENTS IS TO BE INCLUDED IN THE BID. THE CONTRACTOR SHALL OBTAIN, DELIVER AND INSTALL ALL CONDUITS, PULL-BOXES AND EQUIPMENT AS REQUIRED BY THE UTILITIES TO MEET THEIR SPECIFICATIONS.
9. ALL EQUIPMENT AND MATERIAL SHALL BE UNUSED AND U.L. LISTED. ALL REFERENCES TO A PARTICULAR MANUFACTURER ARE GIVEN ON AN "APPROVED ALTERNATE" BASIS.
10. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL SYSTEMS INSTALLED OR MODIFIED UNDER THIS PROJECT AND REPAIR OR REPLACE ALL DEFECTIVE WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER.
11. ALL EQUIPMENT FURNISHED AND INSTALLED BY THE CONTRACTOR SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF OWNER ACCEPTANCE.
12. ALL CONDUCTORS SHALL BE COPPER WITH XHHW INSULATION. NO ALUMINUM ALLOWED UNLESS SPECIFICALLY INDICATED ON DRAWINGS.
13. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL ELECTRICAL SPECIAL SYSTEMS EQUIPMENT AND MATERIAL AND SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING CIRCUIT BREAKERS, CONDUIT, CONDUCTORS, LIGHTING ASSEMBLIES, GROUND ROD, GROUNDING, JUNCTION BOX, CHANNEL AND ETC..
14. ALL CONTROL PANELS SHALL BE CONSTRUCTED BY A UL 508A APPROVED PANEL VENDOR AND SHALL BARE A UL 508A LABEL ON THE PANEL.
15. THE DRAWINGS ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUIT RUNS. THESE ARE TO BE COORDINATED WITH THE OTHER TRADES SO THAT CONFLICTS ARE AVOIDED PRIOR TO INSTALLATIONS.
16. ALL LOCATIONS OF EQUIPMENT, PANELS ETC. ARE SHOWN FOR ILLUSTRATION PURPOSES. CONTRACTOR SHALL VERIFY AND COORDINATE EXACT LOCATION AND SIZE WITH ALL SUBCONTRACTORS AND EQUIPMENT SUPPLIERS PRIOR TO ANY INSTALLATION AND THEN INSTALL AS SUCH WITH CORRESPONDING CONDUIT STUB-UPS.
17. SEE OTHER DISCIPLINE DRAWINGS FOR COORDINATION OF ALL DRAWINGS. ANY CONFLICTS SHALL BE BROUGHT TO THE ENGINEER'S/OWNER'S ATTENTION AND MOVEMENT OF CONDUITS OR OTHER ELECTRICAL EQUIPMENT SHALL BE ACCOMPLISHED WITHOUT ANY ADDITIONAL COST FOR THE OWNER.
18. LOCATIONS OF MANHOLES, HANDHOLES AND PULL BOXES ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH EXISTING AND NEW PIPING OR CONDUIT AND ADJUST ACCORDINGLY.
19. NOT ALL CONDUITS SHOWN ON RISER AND ONE-LINE DIAGRAMS ARE SHOWN ON BUILDING LAYOUTS. CONTRACTOR SHALL SUPPLY ALL CONDUITS AND CABLES AS SHOWN ON RISER AND ONE-LINE DIAGRAMS.
20. ALL CIRCUITS SHALL BE IDENTIFIED IN JUNCTION BOXES, PULL BOXES, CONTROL PANELS, MINI-POWER ZONES, SWITCHBOARDS, PANELBOARDS, LIGHTING POLES, CONTROLLERS AND SERVICE POINTS. IDENTIFICATION SHALL MATCH PANELBOARD SCHEDULES.
21. EXPOSED RUNS OF CONDUITS SHALL BE INSTALLED WITH RUNS PARALLEL OR PERPENDICULAR TO WALLS, STRUCTURAL MEMBERS OR INTERSECTIONS OF VERTICAL PLANES AND CEILINGS, WITH RIGHT ANGLE TURNS CONSISTING OF SYMMETRICAL BENDS OR PULL BOXES AS INDICATED ON THE DRAWINGS. BENDS AND OFFSETS SHALL BE AVOIDED WHERE POSSIBLE.
22. CONDUCTOR PULLING TENSIONS SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATION. CONTRACTOR SHALL INSTALL PULL BOXES TO MEET MANUFACTURER'S REQUIREMENTS.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUIT AND WIRING INSTALLATION FOR ALL VENDOR PROVIDED EQUIPMENT (PACKAGE SYSTEMS). IF THE SHOP DRAWINGS DIFFER FROM THE DESIGNED FACILITIES, THE CONTRACTOR SHALL REDESIGN THE FACILITIES AND SUBMIT THE REVISED DESIGN FOR THE ENGINEER'S/OWNER'S APPROVAL ALONG WITH THE SHOP DRAWINGS. THERE SHALL BE NO ADDITIONAL COST TO THE OWNER FOR THE REDESIGN NOR FOR ANY ADDITIONAL CONDUITS AND WIRING. DURING SUBMITTAL THE CONTRACTOR SHALL VERIFY ALL SUPPLIED BREAKER SIZES FOR ALL PACKAGED SYSTEMS AND MODIFY ALL BREAKERS IN PANELBOARDS ACCORDINGLY WITHOUT ANY ADDITIONAL COST TO THE OWNER.
24. ALL EXCAVATIONS FOR CONDUITS, HANDHOLES, MANHOLES AND PULLBOXES NEAR EXISTING PIPING, CONDUIT AND EQUIPMENT SHALL BE HAND EXCAVATED AND COORDINATED WITH ENGINEER AND OWNER.
25. MINIMUM DEPTH FROM TOP OF DUCTBANKS OR CONDUITS TO FINISHED GRADE SHALL BE 24" UNLESS OTHERWISE NOTED.
26. COLORED WARNING TAPE 6" WIDE SHALL BE INSTALLED 12" BELOW FINISHED GRADE DIRECTLY ABOVE ALL UNDERGROUND YARD CONDUITS ACCORDING TO THE FOLLOWING SCHEDULE:
    POWER: RED
    ALL OTHER CONDUITS: GREEN
27. CONTRACTOR SHALL RESTORE SIDEWALKS, PARKING LOTS, ROADWAYS, SOD AND SPRINKLER SYSTEM TO MATCH EXISTING, AFTER THE COMPLETION OF THE CONDUIT AND PULLBOX INSTALLATION.
28. GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH NEC, ARTICLE 250. THE GROUNDING SYSTEM TEST SHALL NOT EXCEED A 48 HOUR SPAN DRY RESISTANCE OF 25 OHMS. ADDITIONAL GROUNDING TO MEET THIS REQUIREMENT SHALL BE INSTALLED AT NO EXTRA COST. GROUNDING AND BONDING CONNECTIONS SHALL NOT BE PAINTED. ALL GROUNDING CONNECTIONS SHALL BE EXOTHERMIC UNLESS SPECIFICALLY INDICATED OTHERWISE.
29. AN EQUIPMENT GROUND WIRE SIZED PER NEC SHALL BE PULLED IN ALL ELECTRICAL CONDUITS, POWER AND CONTROL, WHETHER OR NOT INDICATED ON THE PLANS.
30. ALL ENCLOSURES, TJB, WIREWAY, PULL BOXES ETC. SHALL CONTAIN A GROUNDING BUS. CONNECT ALL RACEWAY BONDS TO THIS BUS VIA GROUNDING BUSHING AND EXTEND BONDING JUMPER FROM THIS BUS TO THE ENCLOSURE.
31. ALL CONDUITS PENETRATING RATED FIRE WALLS OR RATED FIRE FLOORS SHALL BE INSTALLED WITH U.L. APPROVED DEVICES TO MAINTAIN THE FIRE RATING OF THE WALL OR FLOOR PENETRATED.
32. PROVIDE CONDUIT DUCT SEAL AT ALL CONDUIT ENDS.
33. ALL SPARE CONDUITS SHALL BE SEALED WITH A CAP AT BOTH ENDS AND A PULL STRING INSTALLED WITH IDENTIFICATION ON BOTH ENDS.
34. TYPEWRITTEN PANEL SCHEDULES SHALL BE INSTALLED IN EACH PANELBOARD, AND TYPEWRITTEN TERMINAL BLOCK SCHEDULES IN EACH CONTROL CABINET.
35. AS PART OF THE ELECTRICAL SUBMITTAL, CONTRACTOR SHALL PROVIDE A LAYOUT OF THE ELECTRICAL ROOM SHOWING SIZES OF ALL EQUIPMENT AND THIER SPATIAL RELATIONSHIPS.
36. CONTRACTOR SHALL BALANCE PANELBOARD LOADS AT THE END OF THE PROJECT.
37. SCHEDULE 40 PVC SHALL BE USED UNDERGROUND. ALL ABOVE GROUND CONDUITS SHALL BE EMT IN AIR CONDITIONED AREAS. MINIMUM CONDUIT SIZE SHALL BE 3/4".
38. COMBINING OF NEUTRAL CONDUCTORS SHALL NOT BE ALLOWED.
39. THE CONTRACTOR MAY COMBINE CONDUCTORS TO LIMIT THE NUMBER OF CONDUITS LEAVING THE PANELBOARD. CONTRACTOR SHALL DERATE THE WIRES AS PER NEC AND INCREASE THE SIZE OF THE WIRES ACCORDINGLY.
40. FEEDER CONDUCTORS ARE SIZED FOR MAXIMUM VOLTAGE DROP OF 2 PERCENT AT DESIGN LOAD PER THE FLORIDA BUILDING CODE, DIVISION 13-405.7.3.1.
41. BRANCH CIRCUIT CONDUCTORS ARE SIZED FOR MAXIMUM VOLTAGE DROP OF 3 PERCENT AT DESIGN LOAD PER THE FLORIDA BUILDING CODE, DIVISION 13-405.7.3.2.

## ELECTRICAL LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| —●— | PROVIDE AND INSTALL NEW SCHEDULE 40 P.V.C. CONDUIT IN EARTH/NEW PAVEMENT/NEW SIDEWALK. SEE SITE PLAN AND RISERS FOR SIZE AND QUANTITY OF CONDUIT AND CONDUCTORS. |
| ■● | SINGLE LUMINAIRE ON NEW PRECAST CONCRETE POLE WITH NEW PULLBOX INSTALLED IN EARTH, 90W LED FIXTURE, 15' MOUNTING HEIGHT, MANUFACTURER CREE, BETA LEDWAY STREET LIGHT FIXTURE, MODEL #STR-LWY-2MB-___-07-E-UL-525-57K FULL CUTOFF, 5700K COLOR TEMPERATURE, COLOR OF FIXTURE AND ARMS (MODEL#SB-19) SHALL BE RAL 6012, SEE DETAILS FOR ADDITIONAL INFORMATION. |
| | NEW SERVICE POINT. SEE DETAILS FOR ADDITIONAL INFORMATION. |
| E | NEW 11" X18" MINIMUM I.D SIZE ELECTRICAL PULLBOX. SEE DETAILS FOR ADDITIONAL INFORMATION. |
| | PROPOSED GATE ARM |
| —●— | EXISTING CONDUIT |

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DESIGNED BY: ALC

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ELECTRICAL GENERAL NOTES

SHEET NUMBER

E-01.01

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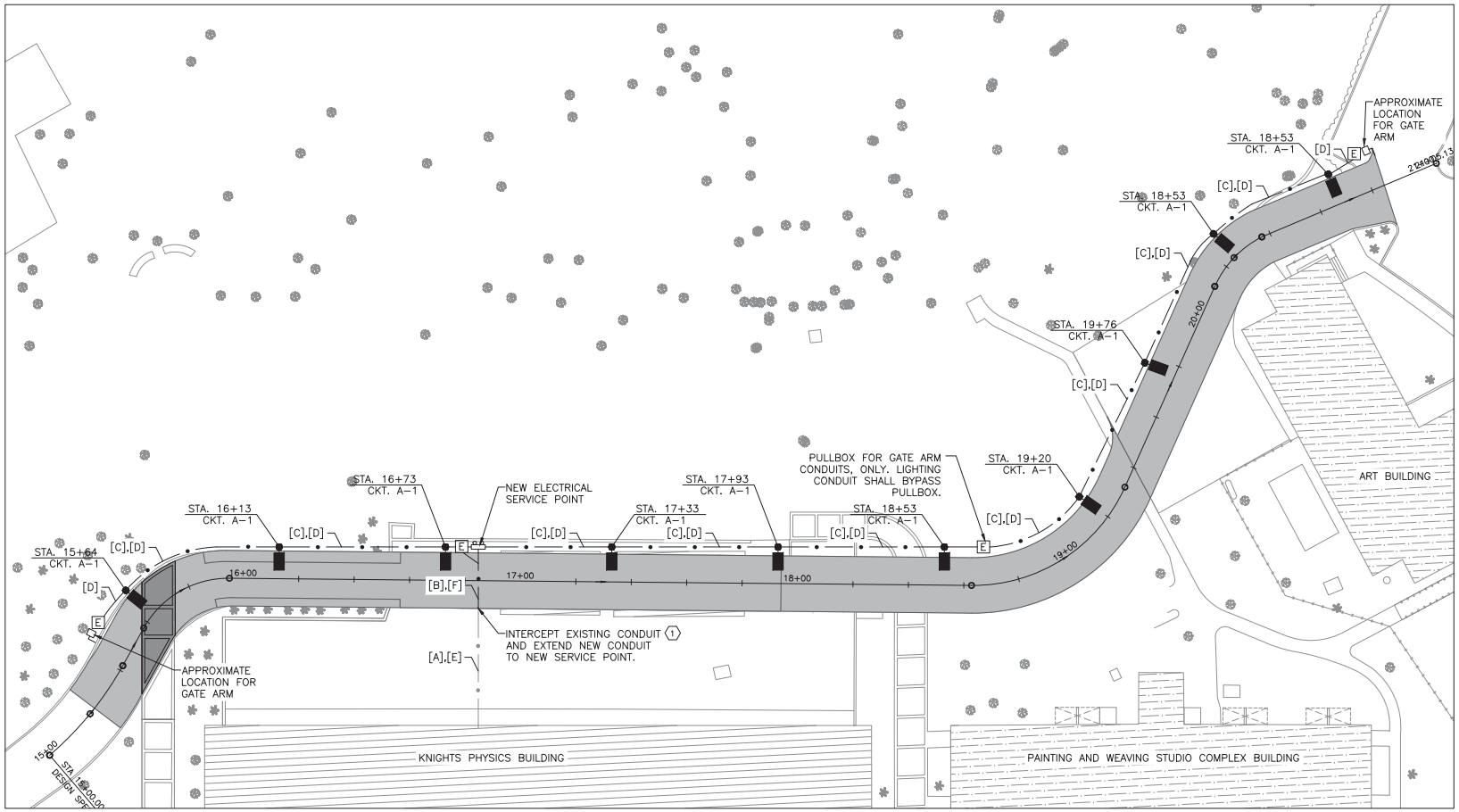


## ELECTRICAL SITE PLAN

SCALE: 1" = 20'

## ELECTRICAL SITE PLAN NOTES:

1. EXISTING TRAILERS AT PROJECT SITE TO BE REMOVED PRIOR TO CONSTRUCTION. CONTRACTOR SHALL UTILIZE AND EXTEND EXISTING CONDUIT SYSTEM AND POWER SOURCE FROM PHYSICS BUILDING TO POWER THE NEW SERVICE POINT, COMPLETE. CONTRACTOR SHALL HAND EXCAVATE AND LOCATE EXISTING CONDUIT SYSTEM, INTERCEPT AND EXTEND TO NEW SERVICE POINT. CLEAN OUT AND DEWATER THE EXISTING CONDUIT SYSTEM. CONTRACTOR SHALL INCLUDE THE DEWATERING IN THE LINE ITEM COST FOR THE NEW CONDUIT.

## CIRCUIT ID:

[A] = 3#6, 1#10G, EXISTING 2" CONDUIT
[B] = 3#6, 1#10G, 2" CONDUIT
[C] = 1#8, 1#8N, 1#8G, 1" CONDUIT, 1-1" CONDUIT SPARE
[D] = 1#8, 1#8N, 1#8G, 1" CONDUIT, 1-2" CONDUIT SPARE**
[E] = EXISTING 2" CONDUIT(COMMUNICATION)
[F] = 2" CONDUIT(COMMUNICATION)

**= CONDUITS DEDICATED FOR GATE ARM WILL BYPASS EACH LIGHT FIXTURE PULLBOX.

N

20' 10' 0' 20'

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ELECTRICAL SITE PLAN

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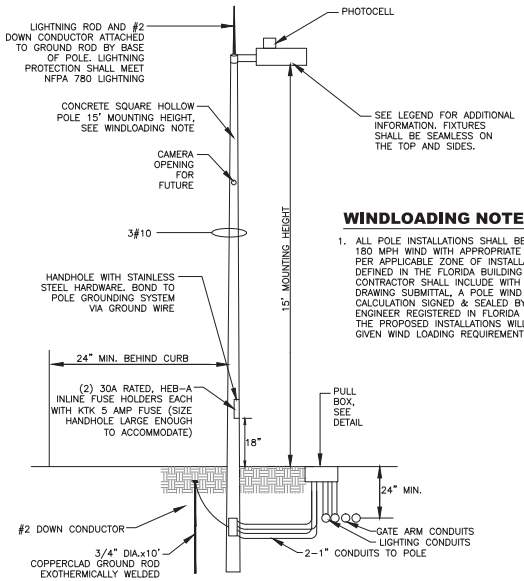
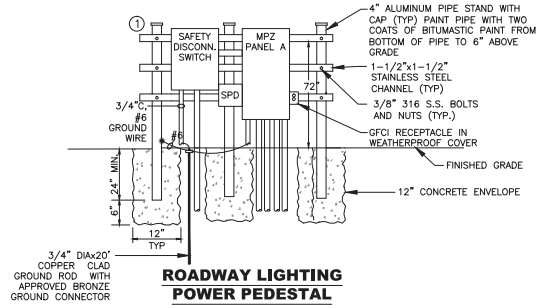



## PARKING LOT LIGHTING SINGLE FIXTURE AND POLE DETAIL

NOT TO SCALE

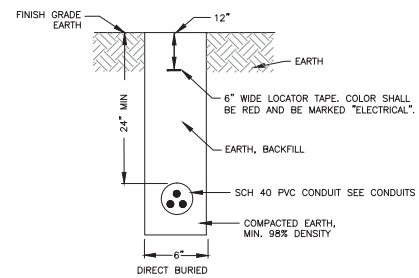
### WINDLOADING NOTE:

1. ALL POLE INSTALLATIONS SHALL BE SUITABLE FOR 180 MPH WIND WITH APPROPRIATE GUST FACTOR PER APPLICABLE ZONE OF INSTALLATION AS DEFINED IN THE FLORIDA BUILDING CODE. THE CONTRACTOR SHALL INCLUDE WITH THE SHOP DRAWING SUBMITTAL, A POLE WIND LOADING CALCULATION SIGNED & SEALED BY A STRUCTURAL ENGINEER REGISTERED IN FLORIDA SHOWING THAT THE PROPOSED INSTALLATIONS WILL MEET THE GIVEN WIND LOADING REQUIREMENT.




## ROADWAY LIGHTING POWER PEDESTAL

NOT TO SCALE

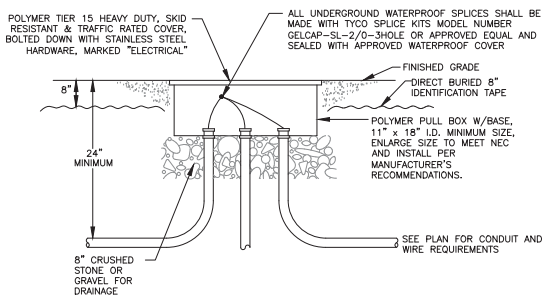



## TYPICAL DIRECT BURIED CONDUIT DETAIL

NOT TO SCALE

### KEY NOTES:

1. CONTRACTOR SHALL ADJUST THE SIZE OF THE PEDESTAL AT NO ADDITIONAL COST TO THE OWNER TO ACCOMMODATE THE EQUIPMENT SIZES.
2. CONTRACTOR SHALL PROVIDE GROUNDING AND BOND ALL METAL SUPPORTS AND EQUIPMENT TO NEW GROUNDING SYSTEM.




## PULL BOX DETAIL

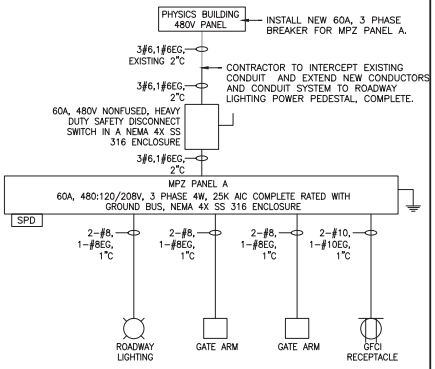
NOT TO SCALE

**MPZ PANEL A SCHEDULE**

| BUS AMPS A | BUS AMPS B | BUS AMPS C | CIRCUIT NAME | POLES | AMPS | BUS A B C | | AMPS | POLES | CIRCUIT NAME | BUS AMPS A | BUS AMPS B | BUS AMPS C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | | | ROADWAY LIGHTNG | 1 | 20 | 1 | 2 | 60 | 3 | SECONDARY MAIN BREAKER | | | |
| | 12 | | GATE ARM | 1 | 20 | 3 | 4 | I | I | I | | | |
| | | 12 | GATE ARM | 1 | 20 | 5 | 6 | I | I | I | | | |
| 1.5 | | | GFI RECEPTACLE | 1 | 20 | 7 | 8 | 1 | 20 | SPARE | | | |
| | | | SPARE | 1 | 20 | 9 | 10 | 1 | 20 | SPARE | | | |
| | | | SPACE | 1 | 20 | 11 | 12 | 1 | 20 | SPARE | | | |
| | | | SPARE | 1 | 20 | 13 | 14 | 20 | 3 | SPD | | | |
| | | | SPARE | 1 | 20 | 15 | 16 | I | I | I | | | |
| | | | SPACE | 1 | 20 | 17 | 18 | I | I | I | | | |

TOTAL AMPS: BUS A 10.5 BUS B 12 BUS C 12 KVA 9.9648

| | | | | |
|---|---|---|---|---|
| RATED VOLTAGE ☐ 120/208 ☐ 240/480 ■ 480:120/208 | Branch Poles ☐4 ☐8 ☐12 ■18 | | | Transformer size (KVA): ☐5 ☐7.5 ■15 |
| RATED AMPS ■100 ☐225 ☐400 ☐ | Cabinet: ■Surface ☐Flush | | | PRIMARY VOLTAGE 480V 3 PHASE |
| NEUTRAL BUS ■100% ☐150% ☐200% | ■GROUND BUS | ■HINGED DOOR | ■KEYED DOOR LATCH | LOCATION: UM PHYSICS BUILDING |
| CIRCUIT BREAKER (BOLT IN) BRANCH DEVICES | ■SPD | Enclosure Type | ☐Nema 1 ☐Nema 3R ■Nema 4X | |
| ☐MAIN LUGS ONLY | MAIN 40 AMPS ■BREAKER | SECONDARY 60 AMPS ■BREAKER | ☐ _____ TO BE GFI | |
| PANEL BOARD MUST BE RATED TO INTERRUPT A SHORT CIRCUIT OF 25,000 AMPS SYMETRICAL | | | | |
| | | COPPER BUSSES | MAIN LUGS | SET SIZE: |




## MPZ PANEL A ELECTRICAL RISER DIAGRAM

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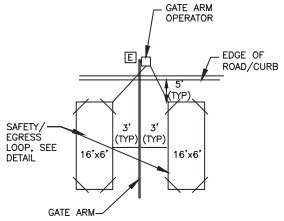
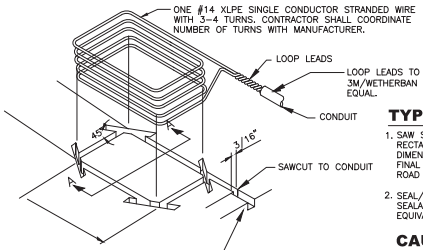



**TYPICAL GATE ARM INSTALLATION-PLAN VIEW**

NOT TO SCALE



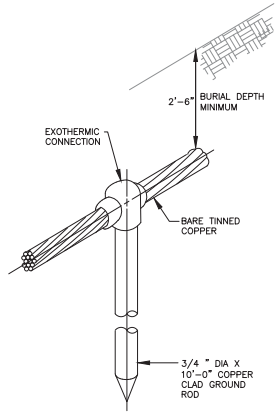

**PERSPECTIVE VIEW OF DETECTOR LOOP AND SAW SLOT**

## TYPICAL LAYOUT FOR LOOP:

1. SAW SLOT 3/16" WIDE x 1-1/2" DEEP. MAKE RECTANGULAR SHAPE TO SPECIFIED LOOP DIMENSIONS PLUS SLOT FOR LEAD CONDUIT. FINAL DIMENSIONS DEPENDENT ON WIDTH OF ROAD AND GATE.
2. SEAL/GROUT WITH NO. 202 WETHERBAN SEALANT. A PRODUCT OF 3M CO. OR EQUIVALENT.

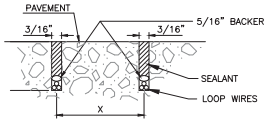
## CAUTION

DO NOT FRACTURE WIRE INSULATION. LOOPS SHORTED TO GROUND WILL CAUSE MALFUNCTION. WHEN PLACING WIRE IN THE SLOT, DO NOT USE SCREWDRIVER OR OTHER SHARP TOOLS.




**GROUND ROD DETAIL**

NOT TO SCALE




**SECTION A-A**

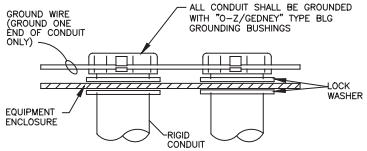
WITH WIRE PLACEMENT

## NOTES:

1. LOOP LEADS ARE LIMITED TO 100 FEET.
2. LOOP LEADS MUST HAVE TEN (10) TWISTS PER FOOT.
3. LOOP & LOOP LEADS MUST BE LOCATED AT LEAST 18" FROM ANY ELECTRICAL POWER SERVICE OR RUNS AND/OR STEEL PLATFORMS.
4. LOOP LEADS MUST BE IN SEPARATE CONDUIT BETWEEN LOOP AND DETECTOR.THEY MUST NOT SHARE CONDUIT WITH OTHER WIRING OR LEADS FROM OTHER LOOPS.
5. USE #14 XLPE SINGLE CONDUCTOR STRANDED WIRE.
6. ALL WIRE TO BE CONTINUOUS WITHOUT SPLICING.

**TYPICAL DETECTOR LOOP LAYOUT**

NOT TO SCALE




**CONDUIT GROUNDING**

NOT TO SCALE

AMY L. CHAMPAGNE-BAKER
FL REGISTRATION NO. 73735

McINERNEY, INC.
1447 NW 129TH TERR.
SUNRISE, FL 33323
FL CA NO. 30711

HILLERS ELECTRICAL ENGINEERING, INC.
23257 STATE ROAD 7, SUITE 100
BOCA RATON, FL 33428
(561) 451-9165
(561) 451-4886 FAX
LICENSE NO: EB 0006877

**UNIVERSITY OF MIAMI - INTERNAL CIRCULATION ROAD - PHASE 2**

UNIVERSITY OF Miami

**1535 LEVANTE AVE.**
**CORAL GABLES, FL 33146**

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SUNSHINE STATE ONE CALL OF FLORIDA, INC.

**REVISIONS**

| NO. | DESCRIPTION | DATE |
|---|---|---|
| | | |

**DATE ISSUED: 12/16/2016**
**REVIEWED BY: JWK**
**DRAWN BY: DEU**
**DESIGNED BY: ALC**

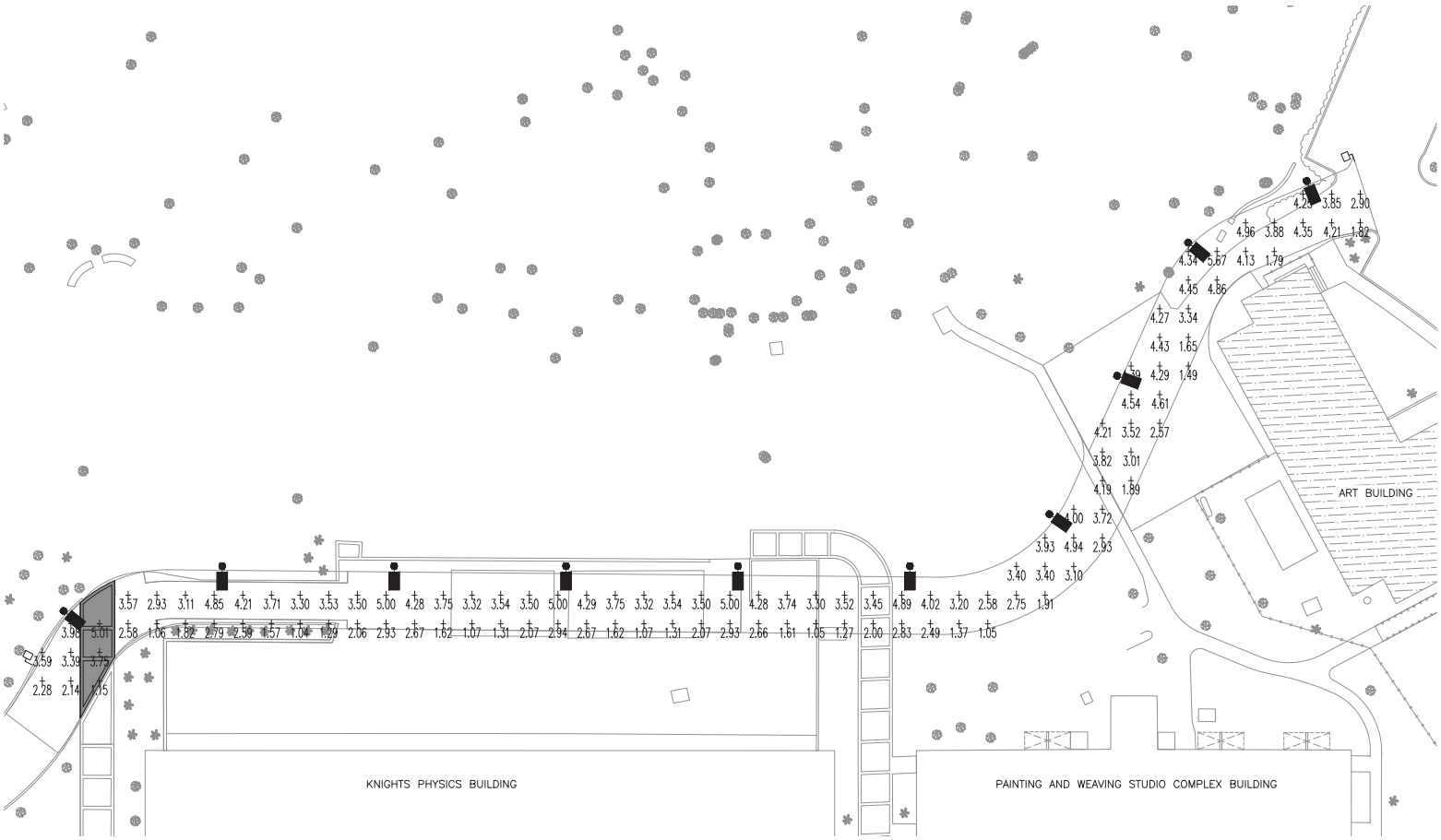
SHEET TITLE

**ELECTRICAL DETAILS**

SHEET NUMBER

**E-03.01**

**PERMIT SET**




## ELECTRICAL SITE PLAN

SCALE: 1" = 20'

## PHOTOMETRIC DATA

| CALC. POINT | AVE | MAX | MIN | MAX/MIN | AVE/MIN |
|---|---|---|---|---|---|
| 10'x10' + | 3.16 | 5.67 | 1.04 | 5.44 | 3.04 |

LIGHTING CRITERIA FOR A ROADWAY PER CORAL GABLES CAMPUS BUILDING STANDARDS IS A MINIMUM OF 1 FOOT-CANDLE AND NOT TO EXCEED A 12:1 MAXIMUM TO MINIMUM FOOT-CANDLE RATIO.

N

20' 10' 0' 20'

AMY L. CHAMPAGNE-BAKER
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SHEET TITLE

**ELECTRICAL PHOTOMETRIC PLAN**

SHEET NUMBER

**E-04.01**

**PERMIT SET**

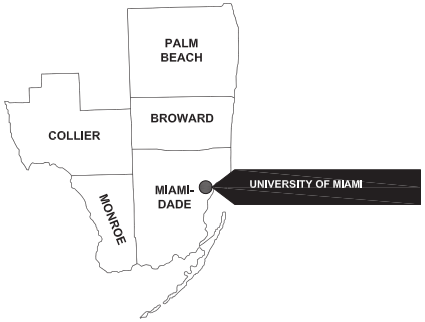
# Pisano Improvements – Existing Conditions

# Pisano Improvements – Existing Conditions

# Pisano Improvements – Existing Conditions

**PERMIT SET**
**DECEMBER 2016**

# UNIVERSITY OF MIAMI
# PISANO STREETSCAPE




**VICINITY MAP**
NTS

PREPARED FOR:
**UNIVERSITY OF MIAMI**
1535 LEVANTE AVENUE
CORAL GABLES, FLORIDA 33146

**PROJECT LOCATION**
NTS

CONSULTANT
**McINERNEY, INC.**
1447 NW 129TH TERRACE
SUNRISE, FL 33323
PHONE: 954-281-9393
LICENSE NO: CA 30711

PERMIT SET

BRIAN P. MCINERNEY, PE
FL. REGISTRATION NO. 71383

| Sheet No. | Description |
|---|---|
| General Sheets | |
| G 00.01 | Cover |
| G 00.02 | Index of Drawings |
| G 00.03 | General Notes and Details |
| G 00.04 | Key Plan |
| Civil Sheets | |
| C 01.00 | Demolition Plan |
| C 01.02 | Demolition Plan |
| C 02.01 | Geometry Plan |
| C 02.02 | Geometry Plan |
| C 02.03 | Typical Section and Details |
| C 02.04 | Curb Details |
| C 02.05 | Curb Details |
| C 02.06 | Curb Ramp Details |
| C 02.07 | Curb Ramp Details |
| C 02.08 | Curb Ramp Details |
| CG 03.01 | General Notes |
| C 04.00 | Marking Plan |
| C 04.01 | Marking Plan |
| C 04.02 | Marking Plan |
| C 04.03 | Marking Plan |
| C 04.04 | Marking Plan |

BRIAN P. McINERNEY
FL REGISTRATION NO. 71383

McINERNEY, INC.
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FL CA NO. 30711

UNIVERSITY OF MIAMI

PISANO STREETSCAPE

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DRAWN BY: BPM
DESIGNED BY: BPM

SHEET TITLE

SHEET INDEX

SHEET NUMBER

G-00.02

PERMIT SET

## GENERAL NOTES

1. EXISTING CONDITIONS SURVEY PERFORMED "BY OTHERS". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERITY ALL EXISTING CONDITIONS, UTILITIES. TOPOGRAPHY, ALL FINDINGS ARE TO BE RECORDED AND TURNED OVER TO THE OWNER PRIOR TO THE END OF CONSTRUCTION.

PRE–CONSTRUCTION

1. CONTRACTOR TO FILE A TICKET WITH SUNSHINE ONE CALL AND PERFORM POSITIVE RESPONSE PRIOR TO EXCAVATION ACTIVITIES. ONE CALL TICKET IS TO BE MAINTAINED FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
2. CONTRACTOR TO PROVIDE A PRE–CONSTRUCTION VIDEO OF THE AREAS OF CONSTRUCTION AND PROVIDE TO OWNER.
3. CONTRACTOR TO PROVIDE BASELINE SCHEDULE TO OWNER WITHIN 10 DAYS OF EXECUTION OF CONTRACT.

INSPECTIONS

1. IN ADDITION TO THE ATTENDEES REQUIRED BY THE GOVERNMENTAL AGENCIES THE CONTRACTOR IS TO INVITE OWNER AND ENGINEER IN WRITING TO WITNESS THE FOLLOWING INSPECTIONS 48 HOURS IN ADVANCE.
   - 1.1. STORM DRAINAGE
   - 1.2. SANITARY
   - 1.3. WATER
   - 1.4. STABILIZED SUBGRADE
   - 1.5. LIMEROCK
   - 1.6. PORTLAND CEMENT CONCRETE/HMAC PAVEMENT
     - 1.6.1. INITIAL PLACEMENT
     - 1.6.2. FINAL INSPECTION
   - 1.7. TREE RELOCATION/PRUNING
   - 1.8. LIGHTING

TEMPORARY FACILITIES

1. CONTRACTOR IS TO MAINTAIN ALL UTILITIES IN OPERATION UNLESS APPROVED BY THE GOVERNING OWNER/OPERATOR OF THE UTILITY AND BY THE UNIVERSITY OF MIAMI.
2. SHOULD A UTILITY BE APPROVED TO BE TAKEN OUT OF SERVICE TEMPORARILY, THE CONTRACTOR IS TO PROVIDE A FULL SCHEDULE OF WORK TO TAKE PLACE FROM THE TIME THE UTILITY IS TAKE OFF LINE TO ITS RETURN TO FULL OPERATION. ANY DELAYS TO ITS RETURN TO FULL OPERATION SHALL BE SHARED WITH THE OWNER WITHIN 12 HOURS OF KNOW DELAY.

MAINTENANCE OF TRAFFIC

1. IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN TRAFFIC DURING THE DURATION OF CONSTRUCTION. SHOULD FULL OR PARTIAL PAVEMENT SURFACE CLOSURES BE REQUIRED CONTRACTOR IS TO PREPARE A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE REQUIREMENTS OUTLINED IN THE FDOT DESIGN STANDARDS AND THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. A TWO WEEK NOTIFICATION TO THE PUBLIC INFORMATION OFFICE/OWNER IS REQUIRED IF CLOSURES ARE REQUIRED.
3. EXISTING OPERATIONAL PAVEMENTS ARE TO REMAIN CLEAN OF DUST AND DEBRIS THROUGH OUT THE CONSTRUCTION PROJECT.

RECORD DOCUMENTS

1. CONTRACTOR IS TO MAINTAIN ACCURATE AND PRECISE RED LINE CONSTRUCTION "AS BUILTS" FOR THE DURATION OF CONSTRUCTION
2. EITHER ORIGINALS OR COLOR COPIES OF THESE RED LINE "AS BUILTS" SHALL BE TURNED OVER TO THE OWNER AT THE COMPLETION OF CONSTRUCTION.
3. THE CONTRACTOR SHALL ALSO MAINTAIN SURVEYED "AS BUILTS" WITHIN 0.01' VERTICALLY AND 0.05' HORIZONTALLY. ALL VIRTICAL SURVEY SHALL BE RECORDED IN NGVD 29. ALL HORIZONTAL SHALL BE RECORDED IN FLORIDA EAST STATE PLACE NAD 83. PROGRESS "AS BUILTS SHALL BE KEPT UP TO DATE AND TURNED OVER TO THE OWNER BI–MONTHLY.
4. CONTRACTOR SHALL RECORD THE TOP ELEVATION OF THE FOLLOWING TO THE OWNER AND ENGINEER PRIOR TO PLACING THE NEXT LIFT OF PAVEMENT CONSTRUCTION
   - 4.1. WATER/SANITARY/STORM DRAIN PIPE AND STRUCTURE INVERT ELEVATIONS (RIM ELEVATIONS PRIOR TO FINAL LIFT PAVEMENT PLACEMENT
   - 4.2. VERTICAL AND HORIZONTAL UTILITY CROSSINGS
   - 4.3. FINISHED STABILIZED SUBGRADE
   - 4.4. FINISHED LIMEROCK/BASE
   - 4.5. FINISHED HMAC/PORTLAND CEMENT CONCRETE

PROJECT SITE CONDITIONS

1. PROJECT SITE IS TO BE MAINTAINED IN A CLEAN AND ORGANIZED MANNER.
2. EQUIPMENT IS TO BE PARKED IN A SAFE CONFIGURATION NIGHTLY AND KEPT OUT OF ALL CLEAR ZONES. EQUIPMENT IS TO NOT BE PARKED IN PUBLIC RIGHT–OF–WAY OVER NIGHT WITHOUT PRIOR APPROVAL.
3. CONTRACTOR TO PROVIDE DUMPSTER AND TRASH CANS FOR DISPOSAL OF ONSITE DEBRIS. LOCATION OF DUMPSTER TO BE APPROVED BY THE OWNER PRIOR TO PLACING DUMPSTER.

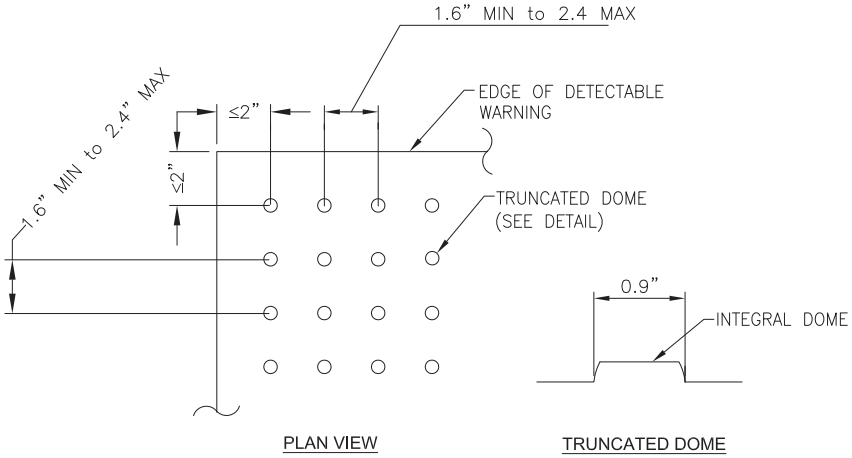
AUTHORITY
EXISTING CONDITIONS SURVEY PERFORMED BY OTHERS" SIGNED IN SEALED SURVEY
CAN BE PROVIDED BY THE UNIVERSITY OF MIAMI PRIOR TO CONSTRUCTION

PROJECT CLOSEOUT

1. PRIOR TO DEMOBILIZATION AND FOLLOWING FINAL PAVING ACTIVITIES CONTRACTOR SHALL CLEAN STORM DRAINAGE STRUCTURES AFFECTED BY THE CONSTRUCTION ACTIVITIES, DIRECTLY AND INDIRECTLY. WHEN DRAINAGE PIPING INVOLVES PRIOR CONSTRUCTION WITH A DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS CONTRACTOR SHALL CLEAN THE NEXT DRAINAGE STRUCTURE OUTSIDE THE CONSTRUCTION LIMITS.
2. CONTRACTOR SHALL TURN OVER OPERATIONS AND SERVICE MANUALS FOR ANY INSTALLED PUMPS/APPLIANCES/LIGHTING.
3. THE CONTRACTOR SHALL RESTORE ALL STAGING AREAS AND TRAILER COMPOUNDS TO THEIR ORIGINAL STATE PRIOR TO PROJECT CLOSE OUT.
4. FOLLOWING FINAL RESTORATION ACTIVITIES IT IS THE CONTRACTORS RESPONSIBILITY TO SCHEDULE A FINAL WALK THROUGH FOR FINAL ACCEPTANCE.

STORM WATER POLLUTION PREVENTION PLAN

1. THE CONTRACTOR SHALL DEVELOP AND MAINTAIN A STORM WATER POLLUTION PREVENTION PLAN PRIOR TO, AND DURING SOIL DISTURBING ACTIVITIES. THIS PLAN SHALL MEET THE MINIMUM REQUIREMENTS OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ANY GOVERNING MUNICIPAL AGENCY.




PLAN VIEW

TRUNCATED DOME

CURB RAMP DETECTABLE WARNING

N.T.S.

BRIAN P. McINERNEY
FL REGISTRATION NO. 71383


McINERNEY, INC.
1447 NW 129TH TERR.
SUNRISE, FL 33323
FL CA NO. 30711


UNIVERSITY OF MIAMI

PISANO STREETSCAPE

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DATE ISSUED: 12/16/2016
REVIEWED BY: BPM
DRAWN BY: BPM
DESIGNED BY: BPM

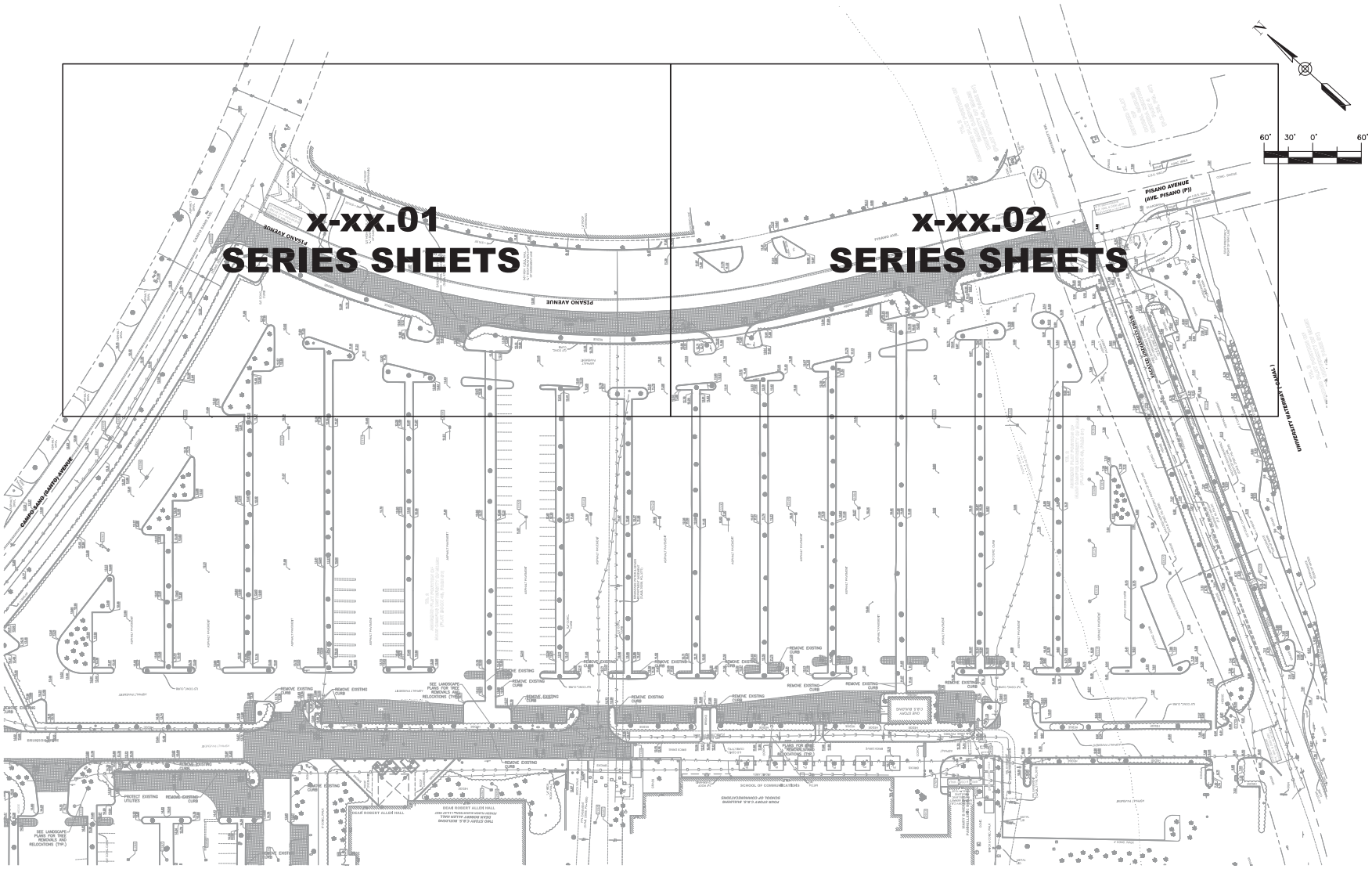
SHEET TITLE

GENERAL NOTES

SHEET NUMBER

G-00.03

PERMIT SET




NOTES:

1. EXISTING CONDITIONS SURVEY PERFORMED "BY OTHERS" SIGNED IN SEALED SURVEY CAN BE PROVIDED BY THE UNIVERSITY OF MIAMI PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO REVIEW EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND PROVIDE CONCURRENCE TO PROVIDED INFORMATION.

BRIAN P. McINERNEY
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PROJECT KEY PLAN

SHEET NUMBER

G-00.04

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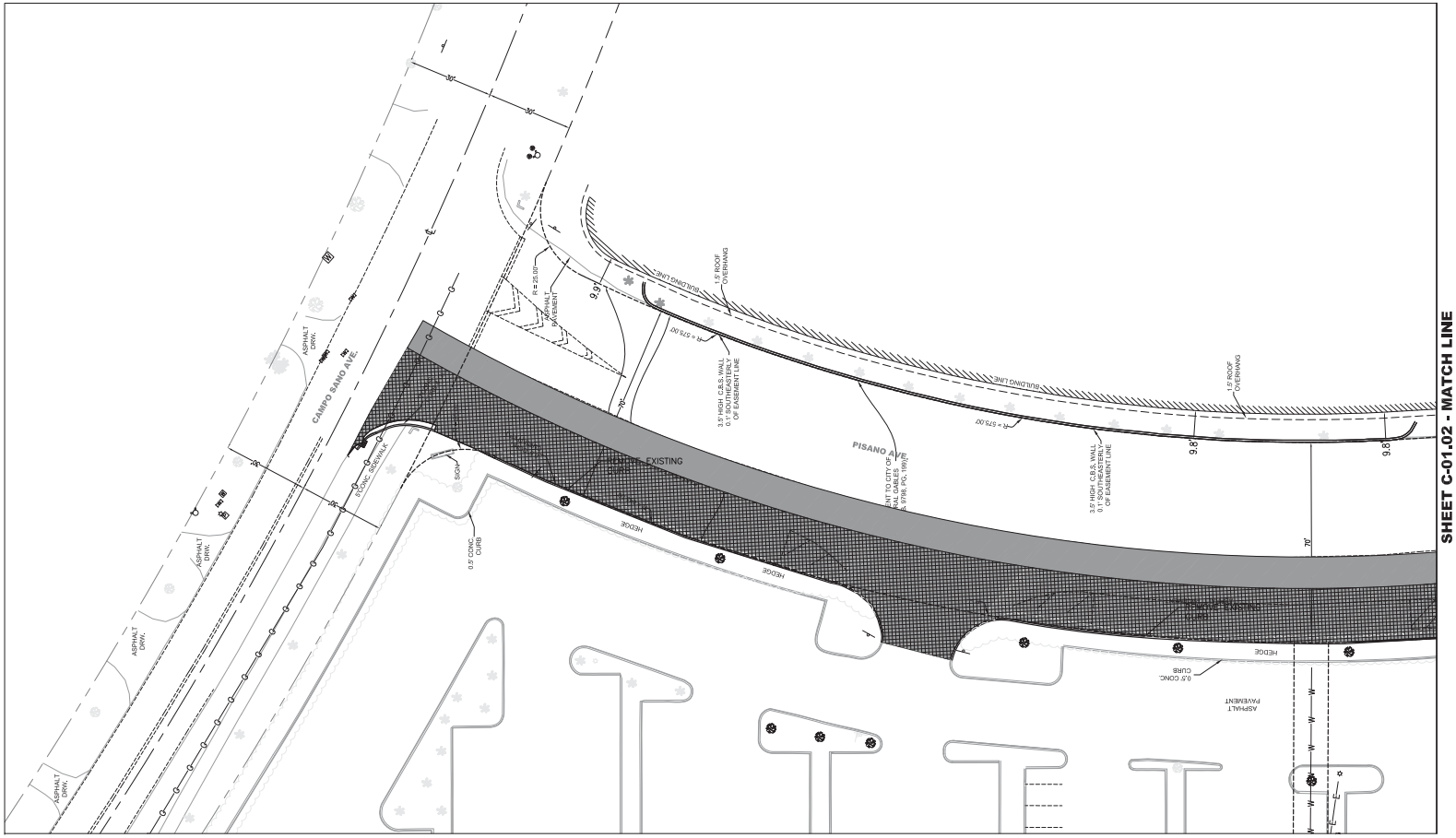


SHEET C-01.02 - MATCH LINE

## LEGEND

- REMOVE EXISTING ASPHALT PAVEMENT, COMPACT, AND GRADE EXISTING LIMEROCK
- REMOVE EXISTING ASPHALT PAVEMENT SECTION
- REMOVE EXISTING ASPHALT PAVEMENT SECTION TO TOP OF PROPOSED STABILIZED SUBGRADE
- REMOVE EXISTING CONCRETE PAVEMENT

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DRAWN BY:
DESIGNED BY:

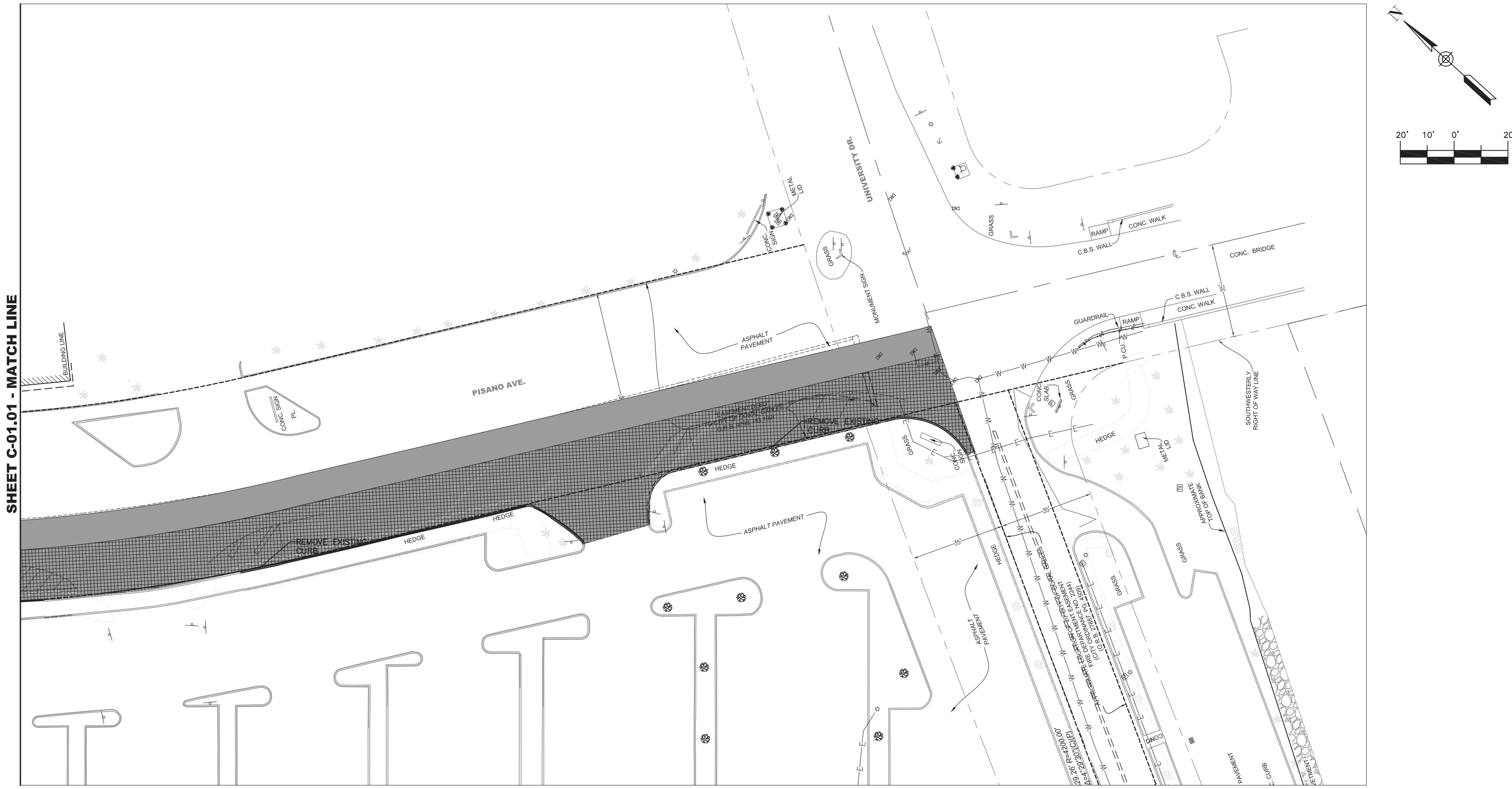
SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

C-01.01

PERMIT SET




## LEGEND

- REMOVE EXISTING ASPHALT PAVEMENT, COMPACT, AND GRADE EXISTING LIMEROCK
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**UNIVERSITY OF MIAMI**

**PISANO STREETSCAPE**

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DRAWN BY:
DESIGNED BY:

SHEET TITLE

**DEMOLITION PLAN**

SHEET NUMBER

**C-01.02**

**PERMIT SET**

**CITY OF CORAL GABLES, FLORIDA**

**ORDINANCE NO. 2016-56**

AN ORDINANCE OF THE CITY COMMISSION OF CORAL GABLES AMENDING THE CITY OF CORAL GABLES AND UNIVERSITY OF MIAMI DEVELOPMENT AGREEMENT, ADOPTED BY ORDINANCE NO. 2010-31 ON 09.28.10, PURSUANT TO ZONING CODE ARTICLE 3, DIVISION 19, ENTITLED "DEVELOPMENT AGREEMENTS", FOR THE UNIVERSITY OF MIAMI, CITY OF CORAL GABLES CAMPUS, AMENDING PARAGRAPH 19 OF THE DEVELOPMENT AGREEMENT ("INTERNAL ROAD AND ACCESS") THAT GOVERNS INTERNAL CIRCULATION ON THE CORAL GABLES CAMPUS, MODIFYING THE SCOPE AND SCHEDULE OF PHASE II OF THE INTERNAL ROAD, PROVIDING FOR CONDITIONS OF APPROVAL, PROVIDING FOR ENFORCEMENT, PROVIDING FOR A REPEALER PROVISION, SEVERABILITY CLAUSE, AND PROVIDING FOR AN EFFECTIVE DATE. (LEGAL DESCRIPTION ON FILE)

**WHEREAS,** an application was submitted requesting an amendment to the City of Coral Gables and University of Miami Development Agreement, adopted by Ordinance No. 2010-31 on September 28, 2010, pursuant to Zoning Code Article 3, Division 19, entitled "Development Agreements", for the University of Miami, City of Coral Gables Campus, amending Paragraph 19 of the Development Agreement that governs internal circulation on the Coral Gables campus, to modify Phase II of the Internal Road; and

**WHEREAS,** the University explained and justified the modifications to Phase II of the Internal Road in the Phase II Internal Road Modification Justification Report ("Justification Report") prepared by the professional engineering firm of Keith and Schnars, revised January 29, 2016; and

**WHEREAS**, the modification to Phase II of the Internal Road is justified to reflect the University's substantial progress in reducing traffic in the portion of the campus perimeter north of Lake Osceola through its use of integrated mobility strategies described in the Justification Report; and

**WHEREAS**, after notice of public hearing duly published and notification of all property owners of record within one thousand (1000) feet of the property, a public hearing was held before the Planning and Zoning Board on December 9, 2015, at which hearings all interested persons were afforded the opportunity to be heard; and

**WHEREAS,** at a public hearing held on December 9, 2015, the Planning and Zoning Board recommended approval of the amendment to the University of Miami Development Agreement with conditions (vote: 6-0); and

**WHEREAS,** the City Commission held a public hearing on April 12, 2016 at which hearing all interested persons were afforded an opportunity to be heard and this application for an amendment to the Development Agreement was approved on first reading (vote: 5-0); and

**WHEREAS,** the City Commission held a public hearing on November 15, 2016 at which hearing all interested persons were afforded an opportunity to be heard and this application for an amendment to the Development Agreement was approved on second reading (vote:4-1);

**NOW, THEREFORE, BE IT ORDAINED BY THE COMMISSION OF THE CITY OF CORAL GABLES:**

**SECTION 1.** The foregoing "WHEREAS" clauses are hereby ratified and confirmed as being true and correct and hereby made a specific part of this Ordinance upon adoption hereof.

**SECTION 2.** The City finds that the amendment to the development agreement is justified by the Justification Report, consistent with the City's comprehensive plan, and furthers the health, safety, and welfare of the City of Coral Gables.

**SECTION 3.** The University shall construct Phase II of the Internal Road as follows:

3.1 The route for Phase II shall be constructed in accordance with the document titled "Revised Approach to Phase II of the Internal Road" attached hereto as Exhibit A which expressly supersedes and repeals any prior iteration of an internal circulation plan referred to as the Internal Road.

3.2 The scope of work for Phase II connecting the parking lots shall be constructed in accordance with the plan entitled "Figure 9 Proposed Modification to Phase II Internal Road" prepared by Keith and Schnars, dated January 29, 2016, attached hereto as Exhibit B.

3.3 The University shall prepare and submit construction documents for improvements to install sidewalk, trees, and lamppost lighting along the western side of the public right-of-way on Pisano Avenue from Campo Sano to University Drive; no changes to the sidewalk shall be included along Campo Sano by the University nor the intersections of Pisano Avenue and Campo Sano, nor Pisano Avenue and University Drive.

3.4 Any and all prior conditions of approval attached to the University's obligation to construct the Internal Road are hereby rescinded except as set forth herein.

**SECTION 4.** The City of Coral Gables and University of Miami Development Agreement, adopted by Ordinance No. 2010-31 on September 28, 2010 is hereby amended as follows:

**19. Internal Road and Access.**

a. Ordinance #2007-16, passed and adopted March 27, 2007 (UMCAD 2006), and the concurrent declaration of Covenants and Restrictions, recorded on October 3, 2007 in the public records at OR Book 25968, Pages 4593-4609, are hereby amended as follows:

i. for submitting construction plans for the entire Internal Road to:
   a. December 31, 2016, or
   b. The issuance of a building permit for any 2006 UMCAD amendments located north of Lake Osceola, or

c. the issuance of a building permit for UMCAD 2006 Amendment H4, or
d. the issuance of a building permit for UMCAD 2006 Amendment H22, whichever occurs first.

ii. for the completion of the construction of the closure/relocation/consolidation of access drives and the realignment of the existing Miller Road to south of the arboretum to:
a. December 31, 2016, or
b. City approval/acceptance of a certificate of occupancy for 2006 UMCAD Amendment H21, whichever occurs first;

iii. for the completion of the Internal Road to:
a. December 31, 2017, or
b. City approval/acceptance of a certificate of occupancy for 2006 UMCAD Amendment H4, or
c. City approval/acceptance of a certificate of occupancy for 2006 UMCAD Amendment H22, whichever occurs first.

iv. Any surface parking spaces displaced or affected by the construction of the modified Internal Road shall be replaced one-for-one anywhere on campus.

b. Construction of the Internal Road is subject to the following conditions:

i. The construction documents for the improvements in the campus and in the right of way area of Pisano Avenue shall be submitted for review and approval pursuant to applicable city regulations. Submittal of construction plans for these improvements and completion of these improvements shall follow the Internal Road deadlines outlined in Section 19 of the Development Agreement dated September 28, 2010 between the City of Coral Gables and the University of Miami, and as modified by this Development Agreement Amendment request.

ii. The University shall fund construction costs for specific public realm improvements to be designed and constructed by the City based upon input from City Staff, the surrounding residential community and the University up to $250,000 ("Public Realm Improvements").

a. The Public Realm Improvements shall be designed and constructed by the City to benefit the surrounding residential community at locations adjacent to the University's campus.

b. The University shall tender payment to fund the Public Realm Improvements when presented by the City with written request for payment with the appropriate contract/work order for the construction of the Public Realm Improvements.

c. This condition – and the University's obligation to fund the Public Realm Improvements – shall expire within ten (10) years of the date of the date of the

adoption of this Ordinance No. 2016-56, unless extended in writing by the mutual consent of the parties.

d. Based upon public input received during the public outreach process, no changes to the existing sidewalk and lighting shall occur on San Amaro Drive from Memorial Drive to Campo Sano Avenue west of the Gifford Arboretum.

iii. The University will identify pedestrian/bicycle pathway connections internally on campus comprised of both current and new segments as needed to provide connectivity from Memorial Drive to University Drive including Brunson Drive.

iv. The University will install signage, wayfinding, maps, and labels of the Gifford Arboretum's unique plant species. Installation of these features shall follow the Internal Road deadlines outlined in Section 19 of the Development Agreement dated September 28, 2010 between the City of Coral Gables and the University of Miami, and as modified by the Development Agreement Amendment request.

v. Commission approval is required for a special treatment sidewalk, decorative pavers, landscaping, irrigation, street lighting, landscaping lighting, and any other encroachments into, onto, under and over the right of way. The above encroachments shall be approved by City resolution and a Hold Harmless agreement shall be executed.

vi. Incorporate Silva cell planters or structural soil into the landscape plans for all trees planted within the public right-of-way.

vii. The University shall maintain the existing bridge crossing from University Drive south over the canal to accommodate pedestrian connectivity as well as emergency police vehicles.

viii. The University shall construct a service road connecting Phase I and Phase II of the Internal Road along the north side of the Knight Physics Building and south of the Gifford Arboretum in a manner that does not impact the existing Arboretum. Construction of this service road connection shall follow the Internal Road deadlines outlined in Section 19 of the Development Agreement dated September 28, 2010 between the City of Coral Gables and the University of Miami, and as modified by the Development Agreement Amendment request.

ix. The University shall expand the Arboretum to include a portion of that land previously occupied by the University's wood art studio. Expansion of the Arboretum shall follow the Internal Road deadlines outlined in Section 19 of the Development Agreement dated September 28, 2010 between the City of Coral Gables and the University of Miami, and as modified by the Development Agreement Amendment request.

**SECTION 5.** All rights, actions, proceedings and contracts of the City, including the City Commissioners, the City Manager, or any of its departments, boards or officers undertaken pursuant to the existing code provisions, shall be enforced, continued, or completed, in all respects, as though begun or

executed hereunder.

**SECTION 6.** All ordinances or parts of ordinances that are inconsistent or in conflict with the provisions of this Ordinance are repealed.

**SECTION 7.** If any section, part of section, paragraph, clause, phrase or word of this Ordinance is declared invalid, the remaining provisions of this Ordinance shall not be affected.

**SECTION 8.** This development permit by the City of Coral Gables does not in any way create any right on the part of an applicant to obtain a permit from a county, state or federal agency. Likewise, this development permit does not create any liability on the part of the City of Coral Gables for issuance of the permit if the applicant fails to obtain requisite approvals or fulfill the obligations imposed by a county, state or federal agency, or if the applicant undertakes actions that result in a violation of county, state or federal law. In addition, as a condition of this approval, all county, state and federal permits must be obtained before commencement of the development.

**SECTION 9.** This ordinance shall become effective upon the date of its passage and adoption herein.

PASSED AND ADOPTED THIS FIFTEENTH DAY OF NOVEMBER, A.D., 2016.
(Moved: Keon / Seconded: Quesada)
(Yeas: Slesnick, Keon, Quesada, Cason)
(Majority: (4-1) Vote)
(Nays: Lago)
(Agenda Item: E-1)

APPROVED:

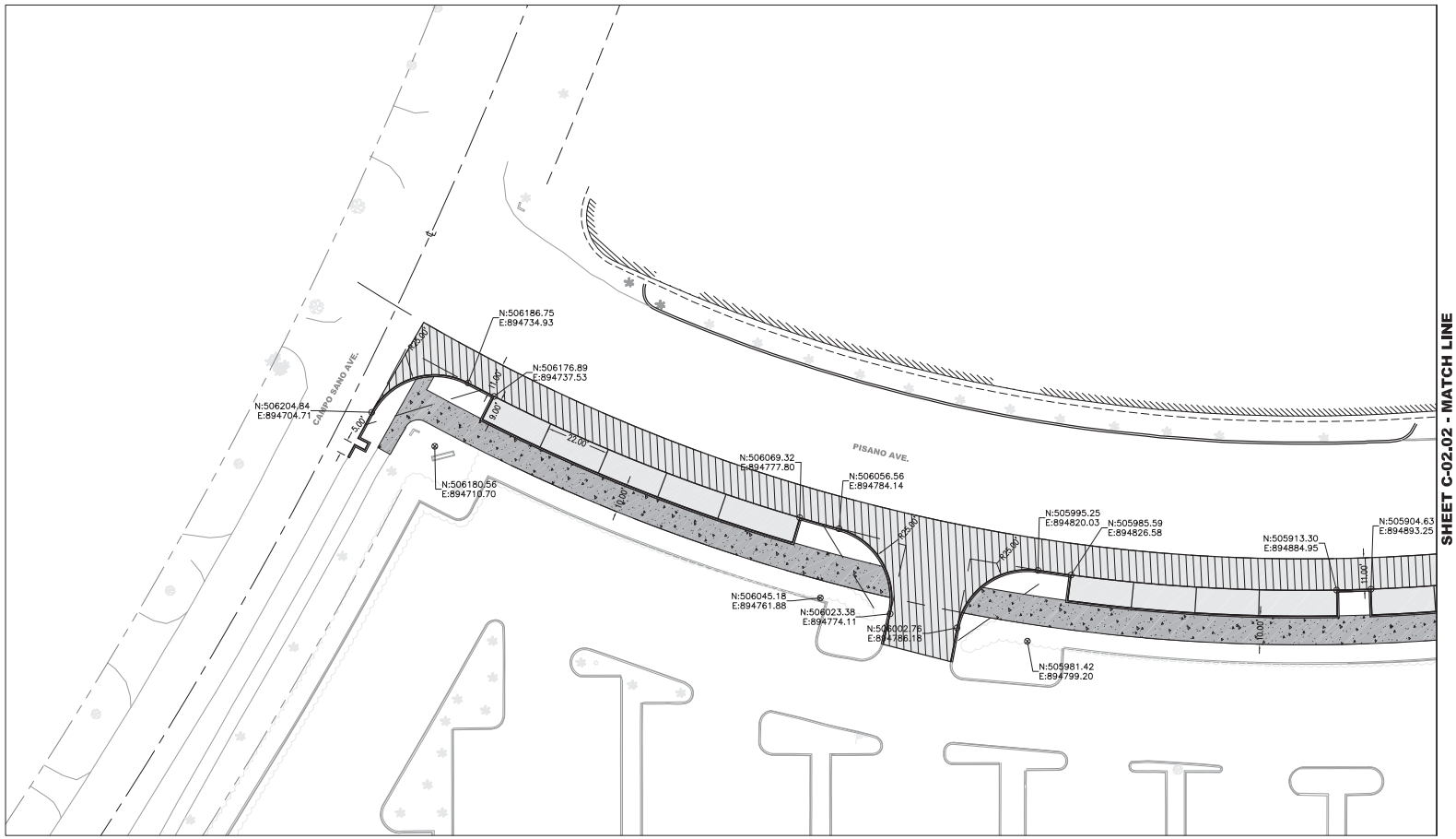
JIM CASON
MAYOR

ATTEST:

WALTER J. FOEMAN
CITY CLERK

APPROVED AS TO FORM
AND LEGAL SUFFICIENCY:

CRAIG E. LEEN
CITY ATTORNEY




## LEGEND

- FULL DEPTH PAVEMENT RECONSTRUCTION
- MILL EXISTING PAVEMENT AT 1" DEPTH AND REPLACE WITH 1" ASPHALT OVERLAY
- PROPOSED TEXTURED CONCRETE PAVEMENT
- PROPOSED CONCRETE SIDEWALK AT SIX INCH DEPTH

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FL REGISTRATION NO. 71383

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FL CA NO. 30711

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REVISIONS

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|---|---|---|
| | | |

DATE ISSUED: 12/16/2016
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DRAWN BY:
DESIGNED BY:

SHEET TITLE

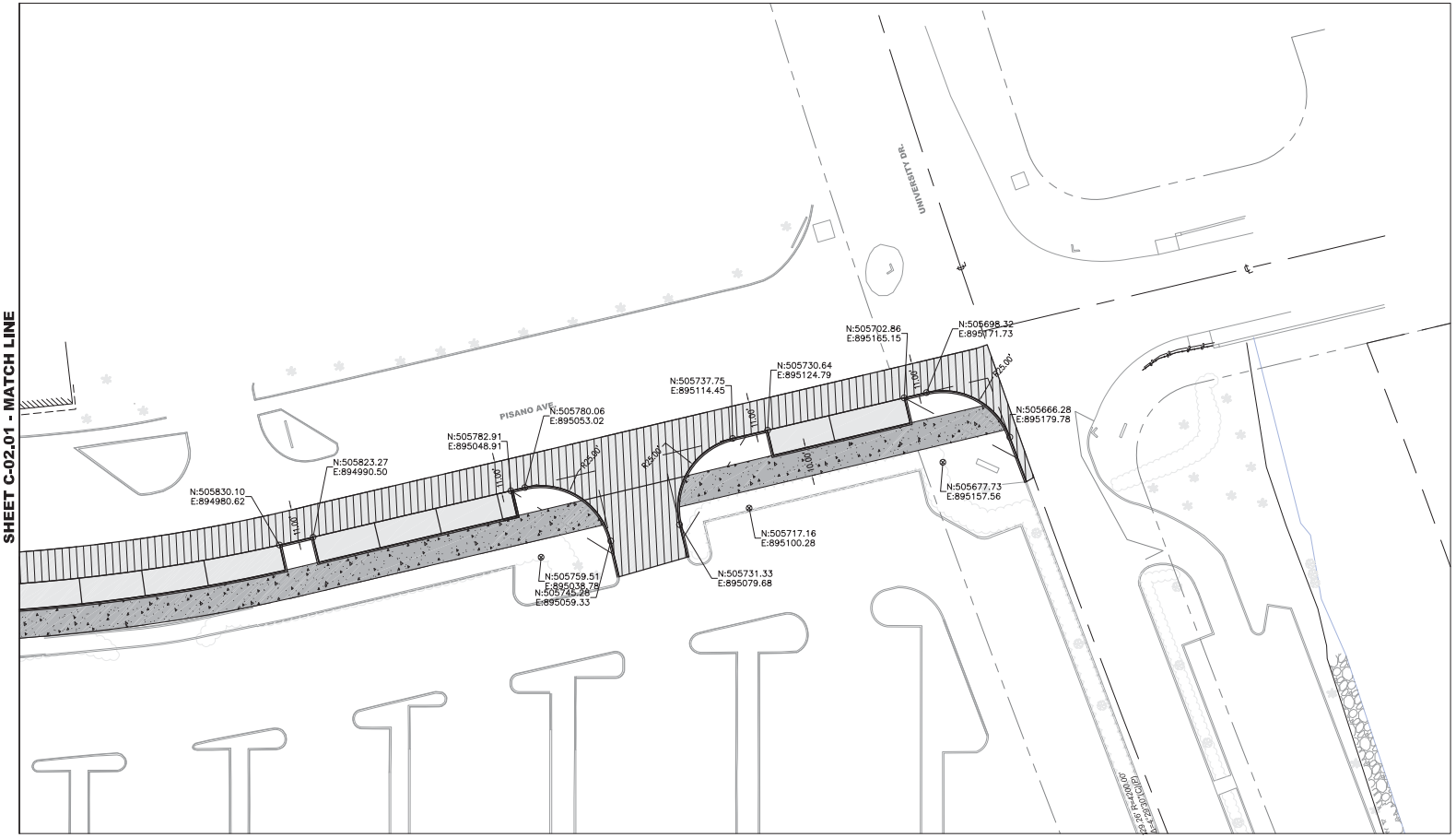
GEOMETRY PLAN

SHEET NUMBER

C-02.01

PERMIT SET

SHEET C-02.01 - MATCH LINE

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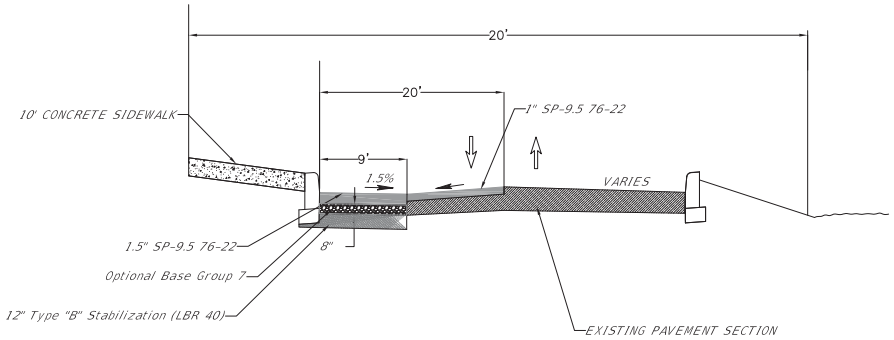
GEOMETRY PLAN

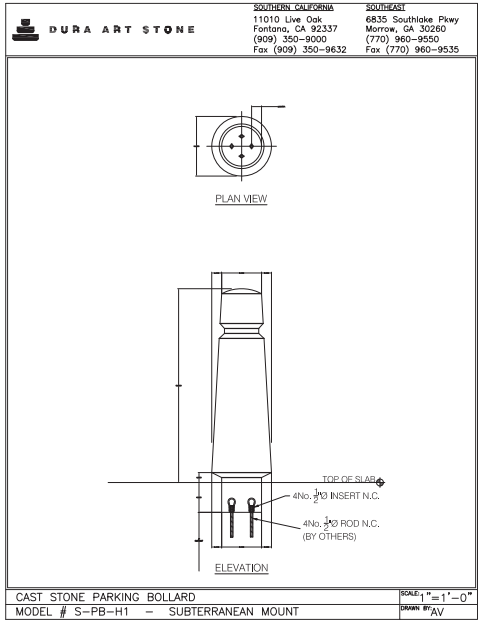
SHEET NUMBER

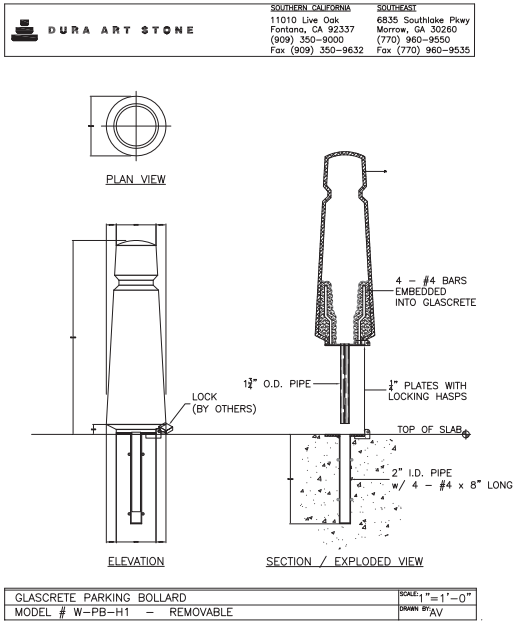
C-02.02

PERMIT SET




PISANO FLEXIBLE PAVEMENT TYPICAL SECTION

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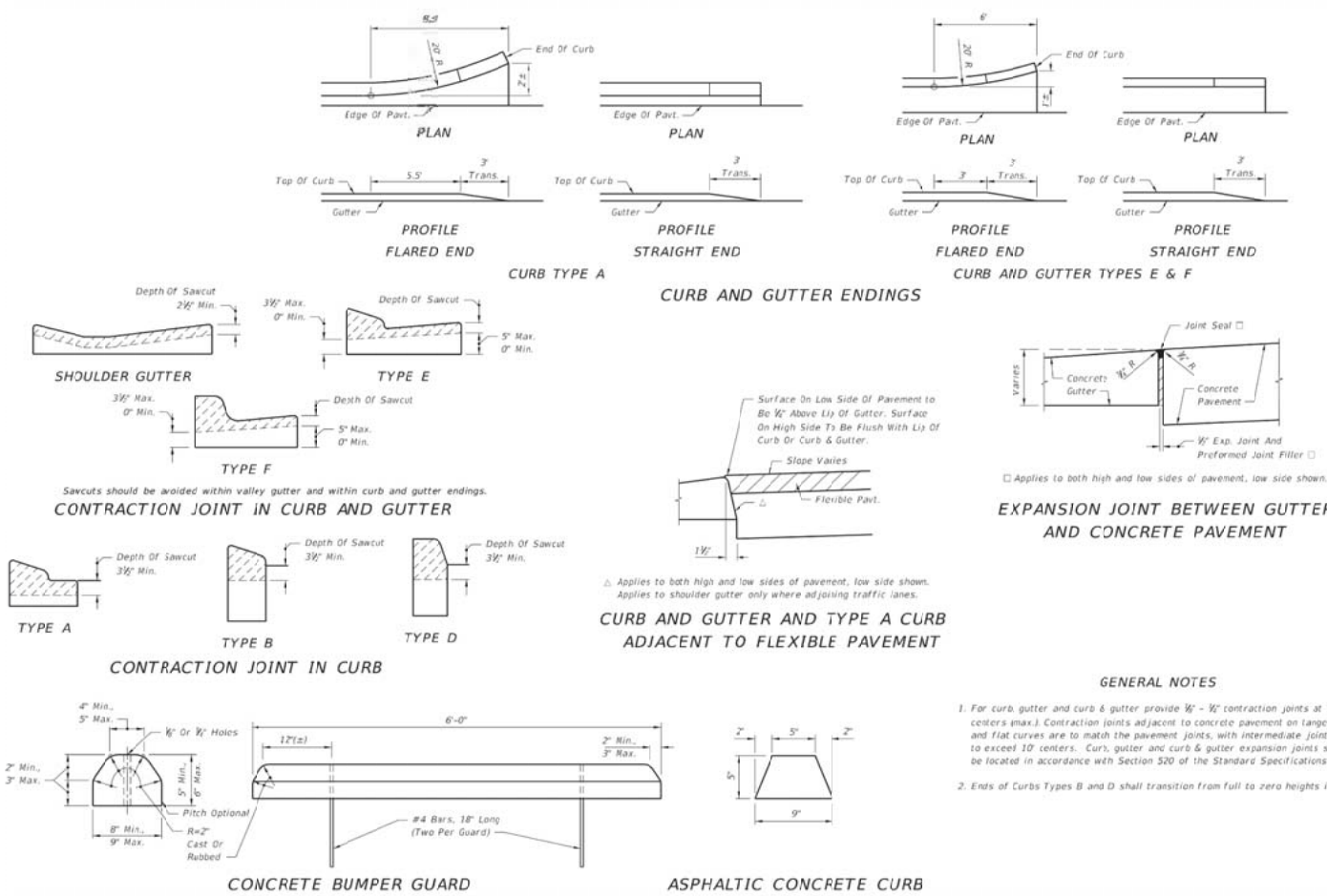
**TYPICAL SECTION AND DETAILS**

SHEET NUMBER

**C-02.03**

**PERMIT SET**




## GENERAL NOTES

1. For curb, gutter and curb & gutter provide ½" - ¾" contraction joints at 10' centers (max.). Contraction joints adjacent to concrete pavement on tangents and flat curves are to match the pavement joints, with intermediate joints not to exceed 10' centers. Curb, gutter and curb & gutter expansion joints shall be located in accordance with Section 520 of the Standard Specifications.
2. Ends of Curbs Types B and D shall transition from full to zero heights in 3'.

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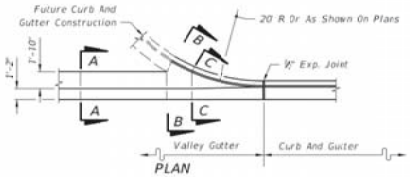
CURB DETAILS

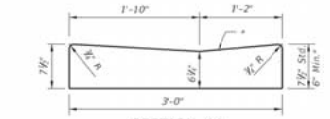
SHEET NUMBER

C-02.04

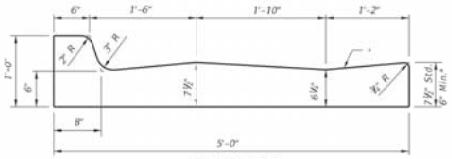
PERMIT SET



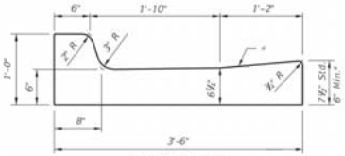

PLAN




SECTION AA




SECTION BB



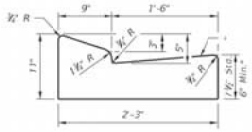

SECTION CC

VALLEY GUTTER

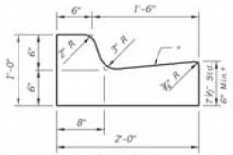
* When used on high side of roadways, the cross slope of the gutter shall match the cross slope of the adjacent pavement. The thickness of the lip shall be 6", unless otherwise shown on plans.

◪ Rotate entire section so that gutter cross slope matches slope of adjacent circulating roadway pavement.

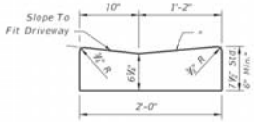
For use adjacent to concrete or flexible pavement. For details depicting




TYPE E

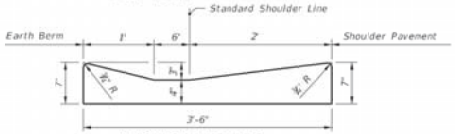



TYPE F

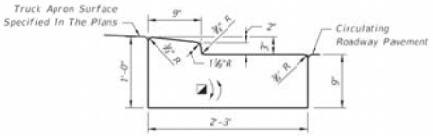



Note: To be paid for as parent curb.

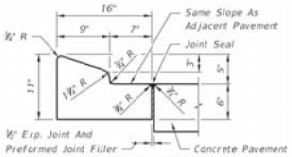
DROP CURB




SHOULDER GUTTER

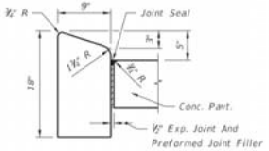



TRAFFIC BEARING SECTION FOR USE IN ROUNDABOUT CENTRAL ISLAND CONSTRUCTION

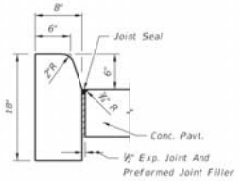



For details depicting usage adjacent to flexible pavement, see diagram right.

TYPE A




TYPE B




TYPE D

Note: For use adjacent to concrete or flexible pavement, concrete shown. Expansion joint, preformed joint filler and joint seal are required between curbs and concrete pavement only, see Sheet 2.

CONCRETE CURB

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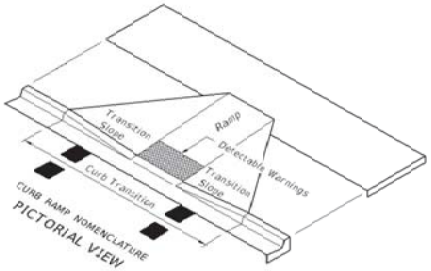
SHEET TITLE

CURB DETAILS

SHEET NUMBER

C-02.05

PERMIT SET




## LEGEND

Detectable Warnings

## GENERAL NOTES

1. Sidewalk curb ramps shall be constructed at locations that will provide continuous unobstructed pedestrian circulation path to pedestrian areas elements and facilities within the right of way and to accessible pedestrian routes on adjacent sites. Curbed facilities with sidewalks and those without sidewalks are to have curb ramps constructed for all intersections and turnouts with curbed returns. To accommodate curb ramps, partial curb returns are to extend to the limits prescribed in Index No. 511. Ramps constructed at locations without sidewalks are to have a landing constructed at the top of each ramp, see LANDINGS FOR CURB RAMPS WITHOUT SIDEWALKS.

2. When altering existing pedestrian facilities, where existing restricted conditions preclude the accommodation of a ramp slope of 1:12, a ramp slope between 1:12 and 1:10 is permitted for a rise of 6" maximum. Where compliance with the requirements for cross slope cannot be fully met, the minimum feasible cross slope shall be provided. Ramp slopes are not required to exceed 15' in length.

3. If sidewalk curb ramps are located where pedestrians must walk across the ramp, then provide transition slopes to the ramp; otherwise a sidewalk curb may be required.

4. All sidewalks, ramps, and landings with a cross slope of 0.02 shown in this Index are 0.02 maximum. All ramp slopes shown in this Index as 1:12 are 1:12 maximum. Landings shall have slopes less than or equal to 0.02 in any direction.

5. Grade breaks at the top and bottom of ramps shall be parallel to each other and perpendicular to the direction of the ramp slope.

6. Where a sidewalk curb ramp is constructed within existing curb, curb and gutter and/or sidewalk, the existing curb or curb and gutter shall be removed to the nearest joint beyond the curb transition or to the extent that no remaining section of curb or curb and gutter is less than 5' long. Existing sidewalks shall be removed to the nearest joint beyond the transition slope or to the extent that no remaining section of sidewalk is less than 5' long. For CONCRETE SIDEWALK details refer to Index 310.

7. Sidewalk curb ramp alpha-identifications are for reference purposes (plans, permits, etc.). Alpha-identifications CR-I and CR-J were intentionally omitted.

8. Detectable warnings shall extend the full width of the ramp and to a depth of 2'. Detectable warnings shall be constructed in accordance with Specification Section 527. For the layout of detectable warnings, refer to the TYPICAL PLACEMENT OF DETECTABLE WARNINGS details. Detectable warnings shall not be provided on transition slopes.

9. When detectable warnings are placed on a slope greater than 5%, domes shall be aligned with the centerline of the ramp; otherwise domes are not required to be aligned.

10. Detectable warnings shall be required on sidewalks at:
    a. Intersecting roads.
    b. Median Crossings greater than or equal to 6' in width.
    c. Railroad Crossings.
    d. Signalized driveways.

11. Detectable Warnings – Acceptance Criteria:
    a. Color and texture shall be complete and uniform.
    b. 90% of individual truncated domes shall be in accordance with the Americans with Disabilities Act Standards for Transportation Facilities, Section 705.
    c. There shall be no more than 4 non-compliant domes in any one square foot.
    d. Non-compliant domes shall not be adjacent to other non-compliant domes.
    e. Surfaces shall not deviate more than 0.10" from a true plane.

12. Detectable warnings shall be installed no greater than 5' from the back of curb or edge of pavement.

13. Detectable warnings shall not be installed over grade breaks.

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CURB RAMP DETAILS

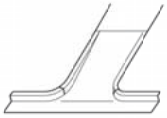
SHEET NUMBER

C-02.06

PERMIT SET

PICTORIAL VIEW

CR-D



PICTORIAL VIEW

CR-E

PICTORIAL VIEW

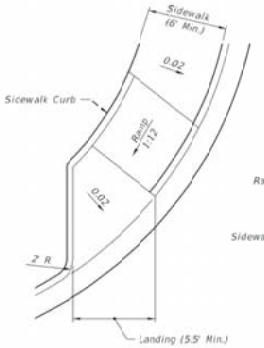
CR-F

PICTORIAL VIEW

CR-G

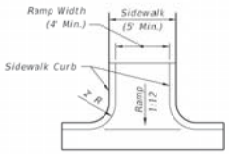
PICTORIAL VIEW

CR-H



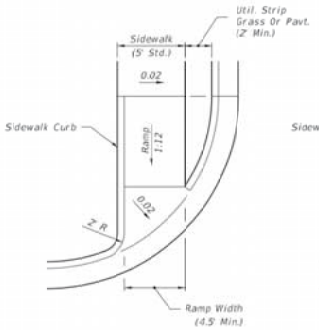

PLAN VIEW

CR-D



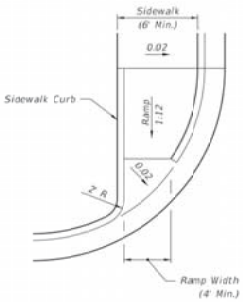

PLAN VIEW

CR-E



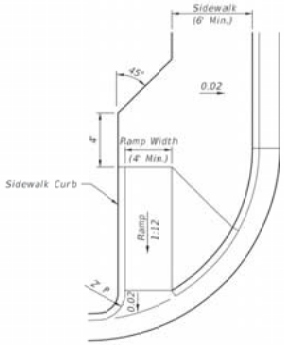

PLAN VIEW

CR-F




PLAN VIEW

CR-G




PLAN VIEW

CR-H

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CURB RAMP DETAILS

SHEET NUMBER

C-02.07

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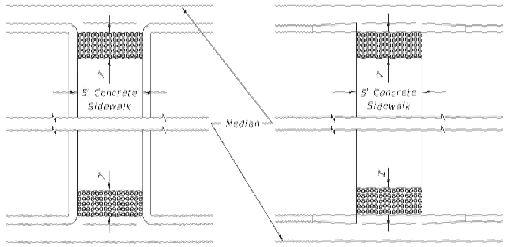
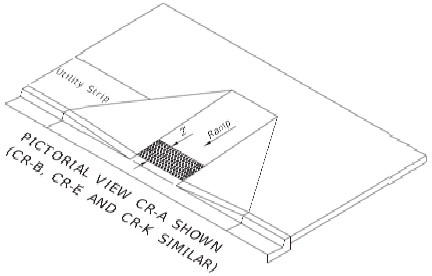


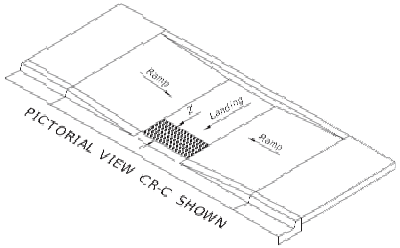

PLAN VIEW

PLAN VIEW - (ALTERNATE DETAIL)

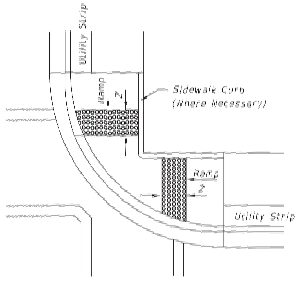
MEDIAN CROSSING



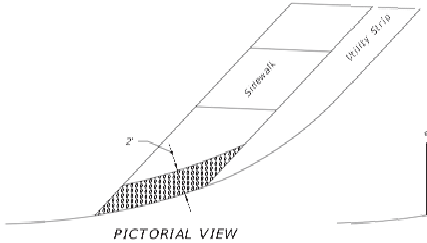

PICTORIAL VIEW CR-A SHOWN
(CR-B, CR-E AND CR-K SIMILAR)



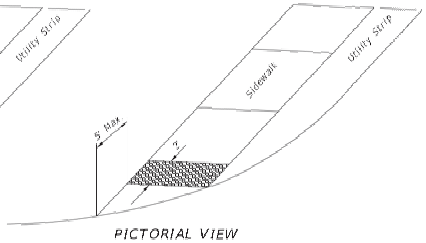

PICTORIAL VIEW CR-C SHOWN



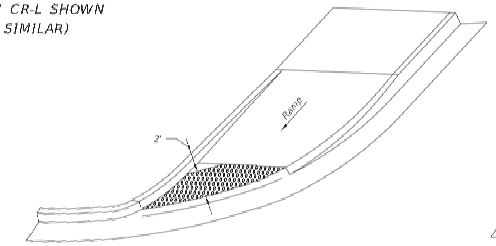

PLAN VIEW CR-L SHOWN
(CR-D SIMILAR)



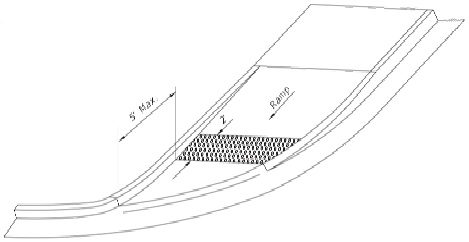

PICTORIAL VIEW
FLUSH SHOULDER
(OPTION A)




PICTORIAL VIEW
FLUSH SHOULDER
(OPTION B)




PICTORIAL VIEW CR-G SHOWN
(OPTION A) (CR-F AND CR-H SIMILAR)




PICTORIAL VIEW CR-G SHOWN
(OPTION B) (CR-F AND CR-H SIMILAR)

TYPICAL PLACEMENT OF DETECTABLE WARNINGS

BRIAN P. MCINERNEY
FL REGISTRATION NO. 71383

McINERNEY, INC.
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FL CA NO. 30711

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REVISIONS

| NO. | DESCRIPTION | DATE |
|---|---|---|
| | | |

DATE ISSUED: 12/16/2016
REVIEWED BY: BPM
DRAWN BY: BPM
DESIGNED BY: BPM

SHEET TITLE

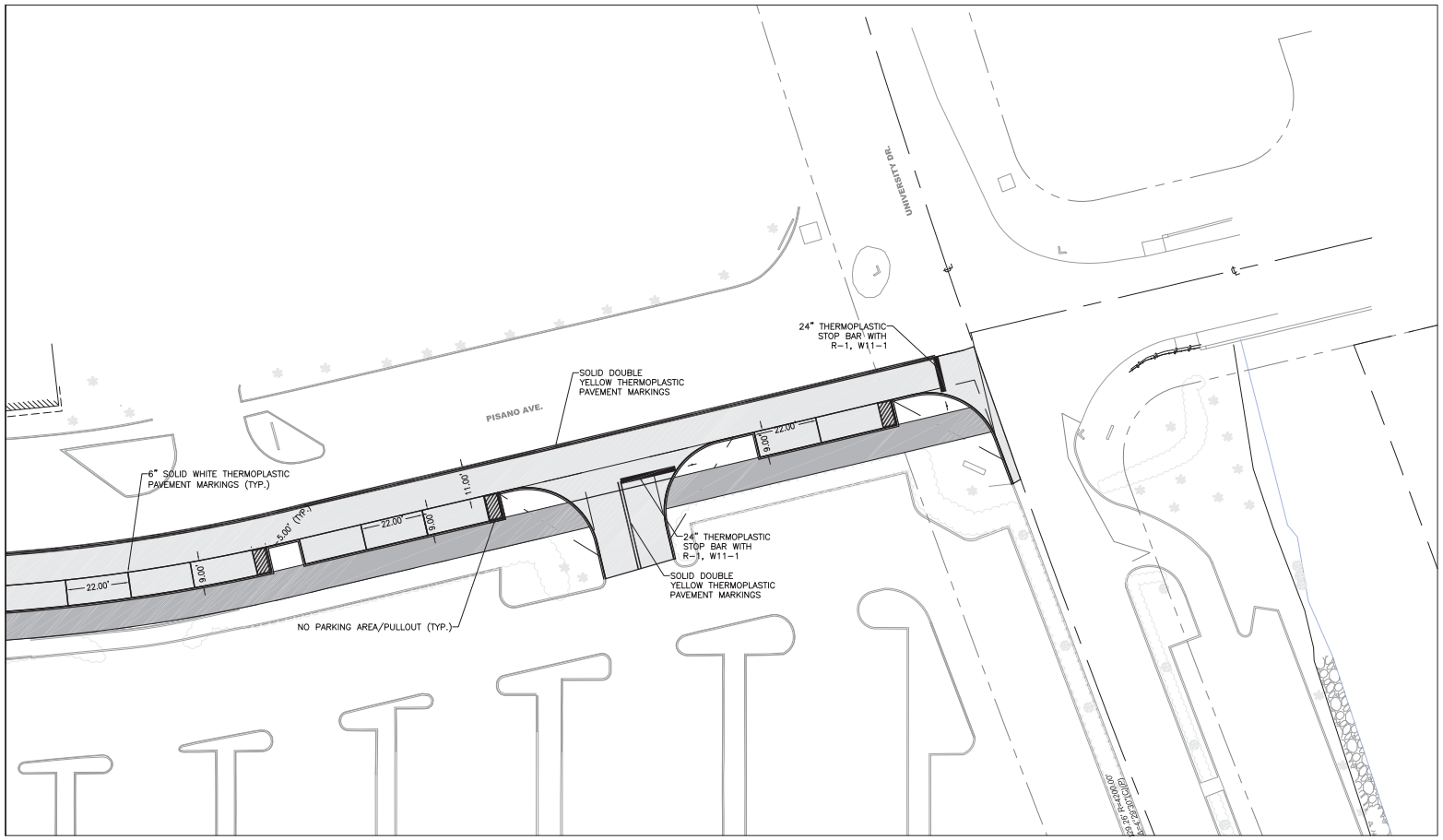
CURB RAMP DETAILS

SHEET NUMBER

C-02.08

PERMIT SET

SHEET C-04.01 - MATCH LINE

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DATE ISSUED: 12/16/2016
REVIEWED BY:
DRAWN BY:
DESIGNED BY:

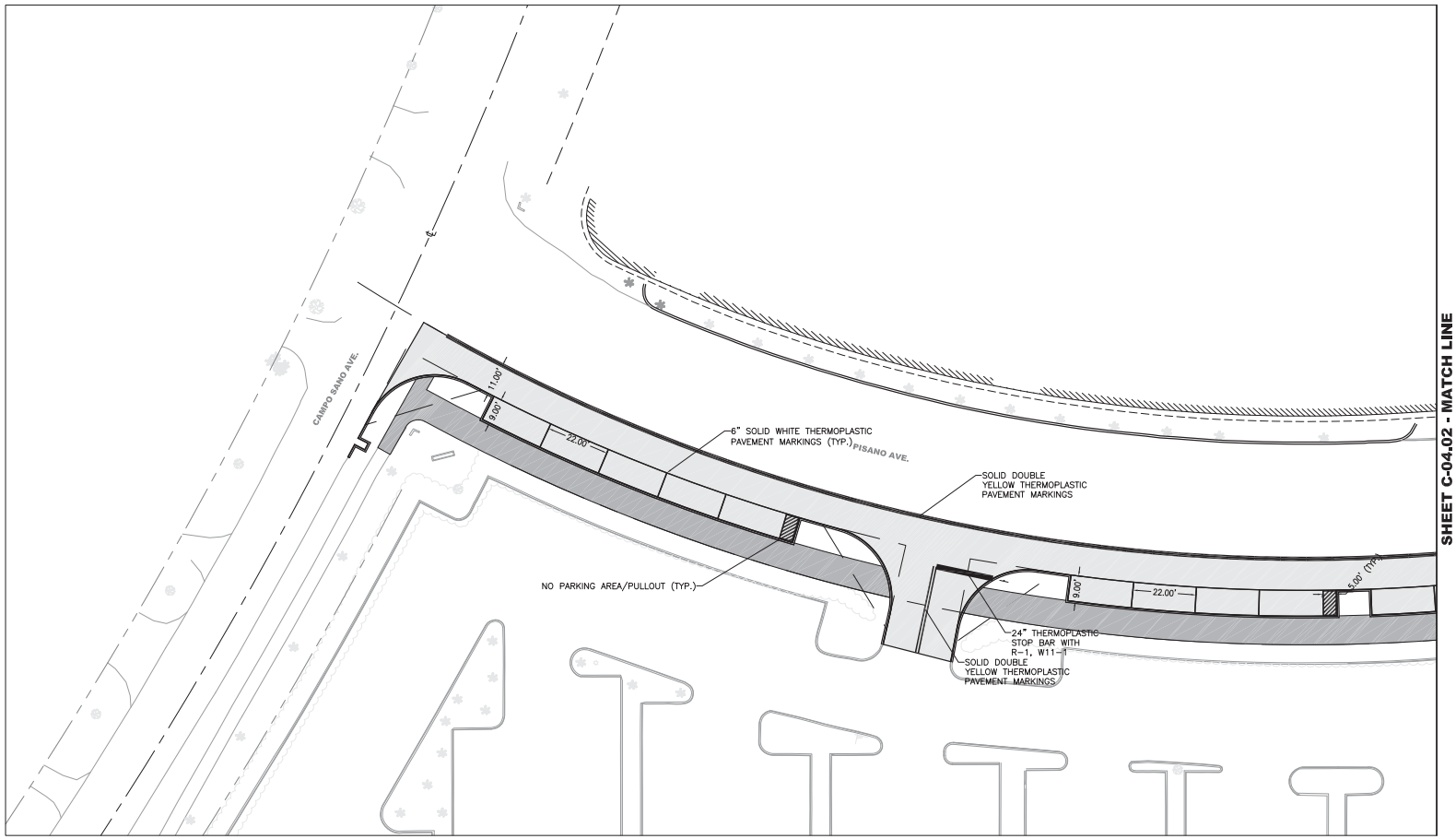
SHEET TITLE

PAVEMENT MARKING PLAN

SHEET NUMBER

C-04.02

PERMIT SET




SHEET C-04.02 - MATCH LINE

20' 10' 0' 20'

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DATE ISSUED: 12/16/2016
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SHEET TITLE

PAVEMENT MARKING PLAN

SHEET NUMBER

C-04.01

PERMIT SET

## Contact Information

**University of Miami**
**Development Review Committee**
**Internal Road – Phase II**

### Owner

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