CONSTRUCTION DRAWINGS
MARCH 22, 2010

Dr. Paul Vogel Community Park

7920 West Drive, North Bay Village, FL 33141

PREPARED FOR:

The City of North Bay Village
1666 Kennedy Causeway : Suite 700
North Bay Village, FL 33141
Phone: (305) 756-7171

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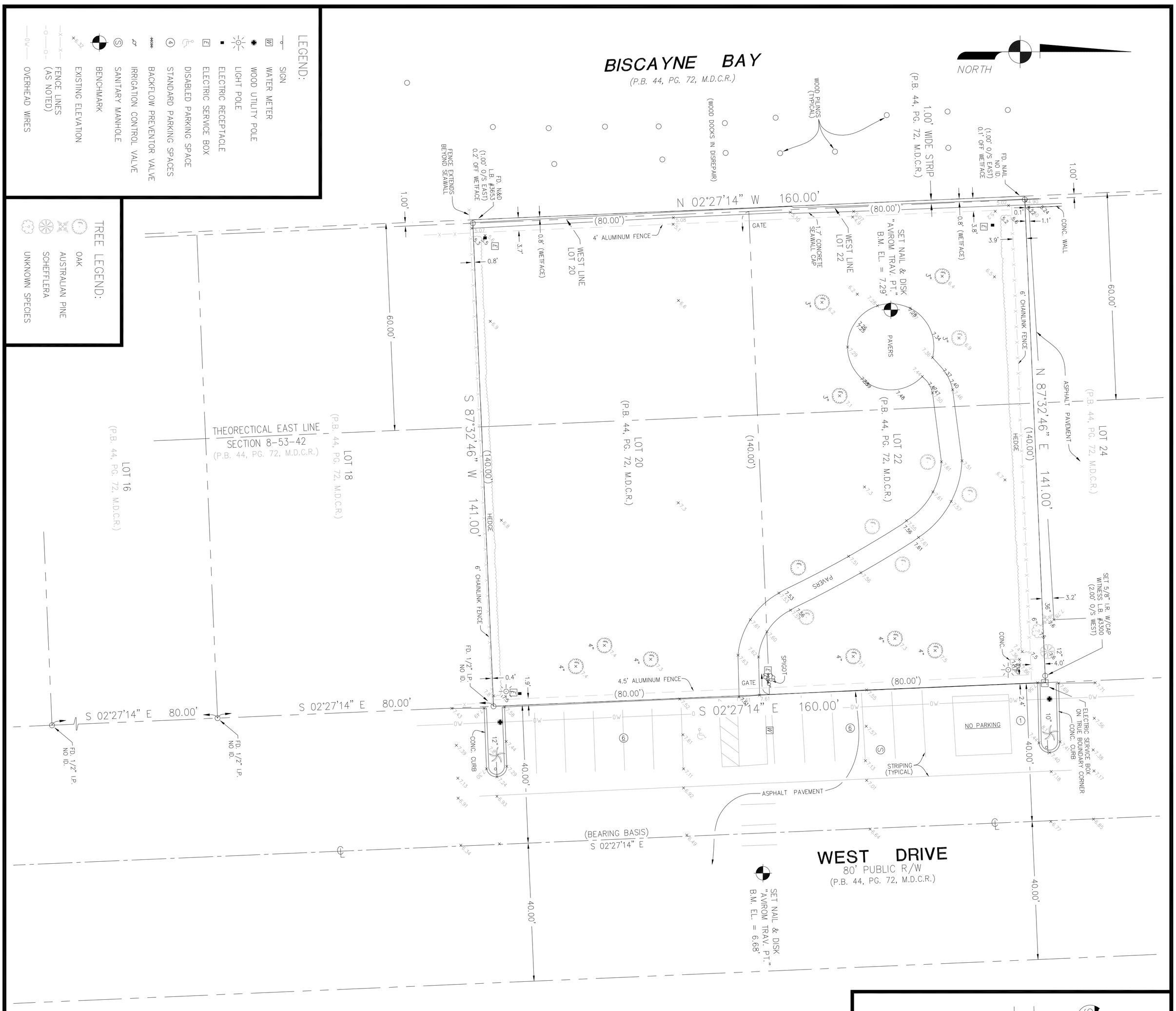
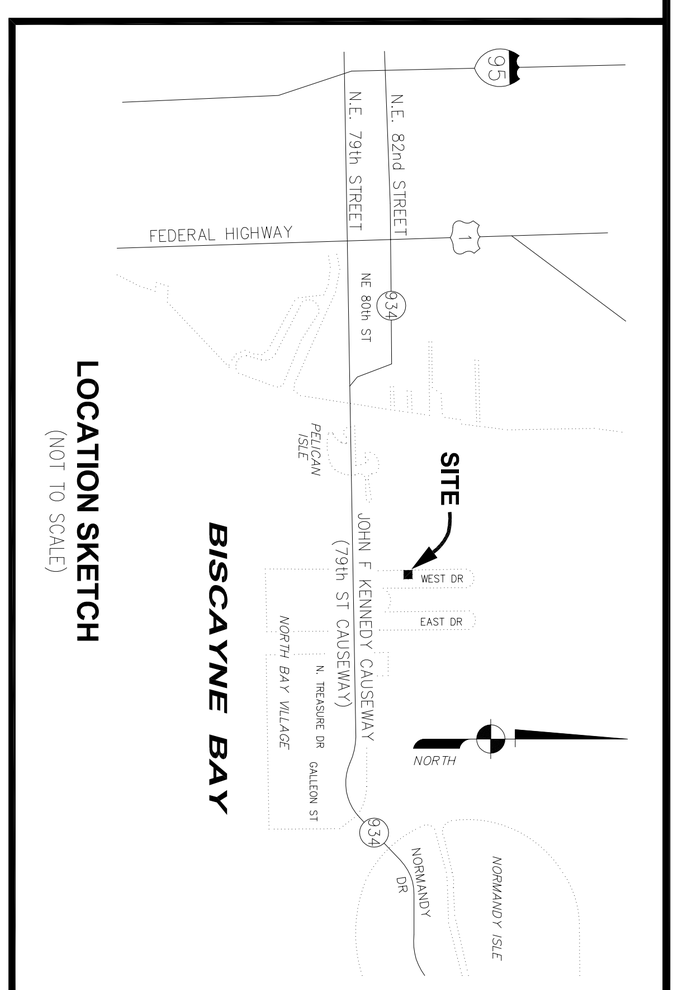


LEGEND:

- SIGN
- WATER METER
- WOOD UTILITY POLE
- LIGHT POLE
- ELECTRIC RECEPTACLE
- ELECTRIC SERVICE BOX
- DISABLED PARKING SPACE
- STANDARD PARKING SPACES
- BACKFLOW PREVENTOR VALVE
- IRRIGATION CONTROL VALVE
- SANITARY MANHOLE
- BENCHMARK
- EXISTING ELEVATION
- FENCE LINES (AS NOTED)
- OVERHEAD WIRES

TREE LEGEND:

- OAK
- AUSTRALIAN PINE
- SCHEFFLERA
- UNKNOWN SPECIES



LOCATION SKETCH
(NOT TO SCALE)

SURVEYOR'S REPORT:

1. Reproductions of this Sketch are not valid without the signature and the original raised seal of a Florida licensed surveyor and mapper.
2. No Title Opinion or Abstract to the subject property has been provided. It is possible that there are Deeds, Easements, or other instruments (recorded or unrecorded) which may affect the subject property. No search of the Public Records has been made by the Surveyor.
3. The land description shown hereon was provided by the client.
4. No underground improvements were located.
5. Bearings shown hereon are referenced to Grid North on the current adjustment of the North American Datum of 1983 (NAD 83/90), of the Florida State Plane Coordinate System (Transverse Mercator Projection), East Zone, with the centerline of West Drive having a bearing of S 02°27'14" E.
6. Elevations shown hereon are based on the National Geodetic Vertical Datum of 1929 (NGVD 1929).
7. Benchmark Description: Benchmarks shown hereon are based on the National Geodetic Survey point "Causeway 2", Elevation = 16.91 feet (NGVD 1929).
8. The species of trees as shown hereon were identified to the best of knowledge and ability of the surveyor, without the benefit of an arborist or biologist. It is the responsibility of the end user to verify the identity of the species.
9. Property Address: 7920, West Dr., North Bay Village, FL 33141
10. Abbreviation Legend: B.M.= Benchmark; ℄ = Centerline; CONC.= Concrete; EL. = Existing Elevation; FD.= Found; ID.= Identification; I.P.= Iron Pipe; I.R.= Iron Rod; L.B.= Licensed Business; M.D.C.R.= Miami-Dade County Records; N&D= Nail and Disk; NGVD= National Geodetic Vertical Datum; O/S= Offset; P.B.= Plat Book; PG.= Page; P.L.S.= Professional Land Surveyor; TRAV. PT.= Traverse Point; W/CAP= With Surveyors Cap.

LAND DESCRIPTION:

Lot 20 and 22, HARBOR ISLAND, according to the plat thereof as recorded in Plat Book 44, Page 72, of the Public Records of Miami-Dade County, Florida; together with that certain one (1) foot wide strip lying contiguous to and adjoining the westerly boundary lines of the aforesaid Lots 20 and 22 and extending into Biscayne Bay; and together with any and all littoral and riparian rights appurtenant and appertaining to the aforesaid Lots 20 and 22 and the aforesaid one (1) foot strip.

Said lands lying and situate in Miami-Dade County, Florida, containing 22,560 square feet (0.518 acres) more or less.

CERTIFICATION:

I HEREBY CERTIFY that the attached Boundary Survey of the hereon described property is true and correct to the best of my knowledge and belief as surveyed in the field under my direction. I FURTHER CERTIFY that this Boundary Survey meets the Minimum Technical Standards set forth in Chapter 61G17-6, Florida Administrative Code, pursuant to Section 472.027, Florida Statutes. There are no above ground encroachments other than those shown hereon, subject to the qualifications noted hereon.

Date: _____

_____
DAVID ERIC BREAUX JR., P.L.S.
Florida Registration No. 5957
AVIROM & ASSOCIATES, INC.
L.B. No. 3300

JOB NO.	5662-14
SCALE	1" = 20'
DATE	11/30/09
BY	S.A.M.
CK'D.	D.E.B.
F.B.	1373 PG. 40
SHEET	1 OF 1

BOUNDARY & TOPOGRAPHIC SURVEY

LOTS 20 AND 22

HARBOR ISLAND
(P.B. 44, PG. 72, M.D.C.R.)

NORTH BAY VILLAGE,
MIAMI-DADE-COUNTY, FLORIDA

REVISIONS	DATE	F.B. / PG.	BY	CK'D

AVIROM & ASSOCIATES, INC.
SURVEYING & MAPPING
50 S.W. 2ND AVENUE, SUITE 102
BOCA RATON, FLORIDA 33432
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EXISTING FENCE EAST SIDE (West Drive)

EXISTING FENCE WEST SIDE (Bicayne Bay)

EXISTING FENCE NORTH & SOUTH SIDE

EXISTING PARKING SPACES

BERMELLO • AJAMIL
& PARTNERS • INC

Architecture Engineering Planning
Interior Design Landscape Architecture
2601 South Bayshore Drive
Miami FL 33133
(305) 859-2050 Fax (305) 860-3759

Revisions:

No.	Date	Description

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Community Park
CITY OF NORTH BAY VILLAGE
LANDSCAPE PLANS

Project. No.
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EXISTING
CONDITIONS
IMAGES

Sheet No. 2

GENERAL NOTES AND SPECIFICATIONS

GENERAL NOTES AND SPECIFICATIONS

I. APPLICABLE CODES:

A. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF NORTH BAY VILLAGE PUBLIC WORKS DEPARTMENT, MIAMI–DADE WATER AND SEWER DEPARTMENT AND ALL OTHER APPLICABLE LOCAL, STATE AND NATIONAL CODES.

B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH ALL THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 OR LATEST EDITION, AND ALL STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.

C. ALL ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON NATIONAL GEODETICAL VERTICAL DATUM OF 1929, (N.G.V.D.), UNLESS OTHERWISE NOTED.

D. EXISTING TOPOGRAPHIC AND CADASTRAL INFORMATION SHOWN ON THESE DRAWINGS ARE BASED ON THE TOPOGRAPHIC SURVEY PERFORMED BY AVIROM & ASSOCIATES, INC. DATED NOVEMBER 30, 2009

II. PRECONSTRUCTION RESPONSIBILITIES:

A. THE INFORMATION PROVIDED IN THESE PLANS IS TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT ANY INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED AND UPON WHICH THEIR BIDS WILL BE BASED.

B. UPON THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, THE OWNER AND THE ENGINEER OF RECORD.

C. THE CONTRACTOR SHALL CONTACT "SUNSHINE ONE–CALL OF FLORIDA" BY CALLING 1–800–432–4770 AT LEAST 48 HOURS PRIOR TO COMMENCING ANY EXCAVATION OR CONSTRUCTION IN ORDER TO PROVIDE FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.

D. THE CONTRACTORS SHALL COORDINATE WITH UTILITIES TO ARRANGE FOR RELOCATION AND TEMPORARY SUPPORT OF UTILITY FEATURES, ETC. AS NECESSARY TO COMPLETE THE WORK, IF APPLICABLE.

E. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ANY AND ALL EXISTING UTILITIES ON THIS PROJECT.

F. THE CONTRACTOR SHALL SECURE ALL UTILITY EASEMENTS (IF REQUIRED) TO BE SECURED PRIOR TO CONSTRUCTION.

G. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES AS SHOWN ON THE DRAWINGS WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE AT THE TIME PLANS WERE PREPARED BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC., WITHIN THE PROJECT AREA WHICH WERE INSTALLED AND CONSTRUCTED AFTER THE PREPARATION OF THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE FACILITIES SHOWN OR FOR ANY FACILITIES NOT SHOWN. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING FACILITIES, STRUCTURES AND OTHER FEATURES (WHETHER SHOWN ON THE PLANS OR NOT) AFFECTING THE WORK.

H. IF, UPON EXCAVATION, EXISTING CONDITIONS ARE FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD SO THAT APPROPRIATE MEASURES CAN BE TAKEN TO RESOLVE THE PROBLEM.

III. INSPECTION AND TESTING:

A. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AS WELL AS ANY OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.

B. THE CONTRACTOR SHALL GIVE THE ENGINEER OF RECORD AT LEAST 48 HOURS ADVANCE NOTICE OF, AND THE ENGINEER OF RECORD MUST BE PRESENT TO WITNESS, THE FOLLOWING:

1. LAMPING TEST OF THE SEWAGE COLLECTION SYSTEM.
2. INFILTRATION/EXFILTRATION TEST OF THE SEWAGE COLLECTION SYSTEM.
3. PRESSURE TESTING OF THE WATER DISTRIBUTION SYSTEM.
4. FINAL INSPECTION OF THE WATER, SEWER, PAVING, GRADING AND DRAINAGE.

C. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL APPLICABLE REGULATORY AGENCIES FOR INSPECTION REQUIREMENTS.

IV. SHOP DRAWINGS:

A. PRIOR TO THEIR CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD FOR THE FOLLOWING ITEMS: CATCH BASIN, STORM MANHOLES AND ALL OTHER DRAINAGE STRUCTURES, DRAINAGE PIPE, BALLAST ROCK, EXFILTRATION TRENCH FILTER FABRIC. IN ADDITION, SOME CITIES, COUNTIES, STATE AND/OR NATIONAL REGULATORY AGENCIES REQUIRE THEIR OWN INDIVIDUAL REVIEW AND APPROVAL. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL OTHER AGENCY SHOP DRAWING APPROVALS IF REQUIRED.

V. TEMPORARY FACILITES:

A. TEMPORARY FACILITIES:

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES, AND ELECTRICITY, DURING CONSTRUCTION.

2. THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE ACCESS ENTRANCE TO COMMERCIAL PROPERTIES AT ALL TIMES, IF APPLICABLE.

3. THE CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND DITCHES DURING ALL PHASES OF CONSTRUCTION, IF APPLICABLE.

4. THE CONSTRUCTIONS SITES SHALL BE PROTECTED AGAINST SILT RUNOFF TO ADJACENT PROPERTIES.

B. TRAFFIC REGULATION:

1. THE CONTRACTOR SHALL PROVIDE ALL WARNING SIGNALS, SIGNS, LIGHTS AND FLAGPERSONS AS NECESSARY FOR THE MAINTENANCE OF TRAFFIC WITHIN PUBLIC RIGHT–OF–WAYS IN ACCORDANCE WITH THE CITY OF NORTH BAY VILLAGE PUBLIC WORKS

2. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.

3. NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION OF THE CITY OF NORTH BAY VILLAGE PUBLIC WORKS DEPARTMENT .

VI. PROJECT CLOSEOUT:

A. CLEANING UP:

1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND UPON FINAL CLEAN–UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEPT BROOM CLEAN.

2. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT AND/OR EMPLOYEES TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS.

3. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, MAILBOXES, SIGNS AND ANY OTHER IMPROVEMENTS REMOVED DURING CONSTRUCTION WITH THE SAME TYPE OF MATERIAL AND TO THE CONDITION WHICH EXISTED PRIOR TO THE BEGINNING OF OPERATIONS.

4. WHERE MATERIAL OR DEBRIS HAVE WASHED OR FLOWED INTO, OR HAVE BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING THE PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.

B. ALL PROPERTY MONUMENTS OR PERMANENT REFERENCES, REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY A STATE OF FLORIDA REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.

D. PROJECT RECORD DOCUMENTS:

1. DURING THE DAILY PROGRESS OF THE JOB, THE CONTRACTOR SHALL RECORD ON HIS SET OF CONSTRUCTION DRAWINGS THE EXACT LOCATION, LENGTH AND ELEVATION OF ANY FACILITY NOT BUILT EXACTLY ACCORDING TO PLANS.

2. UPON COMPLETION OF DRAINAGE IMPROVEMENTS AND LIMEROCK BASE CONSTRUCTION (AND BEFORE PLACING ASPHALT PAVEMENT) THE CONTRACTOR SHALL FURNISH THE ENGINEER OF RECORD "AS–BUILT" PLANS FOR THESE IMPROVEMENTS, SHOWING THE LOCATIONS AND PERTINENT GRADES OF ALL DRAINAGE INSTALLATIONS AND THE FINISHED ROCK GRADES OF THE ROAD CROWN AND EDGES OF PAVEMENT AT 50 FEET INTERVALS.

3. UPON COMPLETION OF CONSTRUCTION, AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD ONE COMPLETE SET OF ALL "AS–BUILT" CONTRACT DRAWINGS. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS–BUILT" CONSTRUCTION CHANGES AND DIMENSIONS, LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS.

4. "AS–BUILT" INFORMATION ON WATER MAINS AND GRAVITY SEWERS MUST BE PROVIDED IN ACCORDANCE WITH MDWASD STANDARD AS–BUILT REQUIREMENTS.

5. ALL "AS–BUILT" INFORMATION SHALL BE CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR.

VII. EARTHWORK AND COMPACTION:

A. EARTHWORK AND COMPACTION SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE CITY OF NORTH BAY VILLAGE SPECIFICATIONS.

VIII. STORM DRAINAGE:

A. GENERAL:

1. CATCH BASIN GRATES AND RIM ELEVATIONS AS SHOWN ON PLANS SHALL BE ADJUSTED TO CONFORM TO NEW OR EXISTING GRADES.

2. DISTANCES AND LENGTHS SHOWN ON PLANS AND PROFILE DRAWINGS ARE REFERENCED TO THE CENTER OF STRUCTURES.

3. ALL STORM DRAINAGE MATERIALS AND INSTALLATION SHALL CONFORM TO THE APPLICABLE CITY OF NORTH BAY VILLAGE SPECIFICATIONS.

4. THE CONTRACTOR SHALL PROTECT COMPLETED DRAINAGE STRUCTURES AND EXFILTRATION SYSTEM CONTAMINATION OF SILT AND CONSTRUCTION DEBRIS. PLACE PLYWOOD ON OR FILTER FABRIC BETWEEN THE FRAME AND INLET GRATE UNTIL CONSTRUCTION OPERATIONS ARE FINISHED.

IX. PAVING:

A. GENERAL:

1. ALL UNDERGROUND UTILITIES SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF LIMEROCK BASE.

2. ALL EXISTING PAVEMENT, CUT OR DAMAGED BY CONSTRUCTION SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.

3. ALL ROAD CROSSINGS ARE OPEN CUT UNLESS OTHERWISE NOTED ON THE DRAWINGS.

4. WHERE ANY PROPOSED PAVEMENT IS TO BE CONNECTED TO EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE SAW CUT.

BERMELLO • AJAMIL & PARTNERS • INC
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2601 South Bayshore Drive
Miami FL 33133
(305) 859-2050 Fax (305) 860-3759

STATE OF FLORIDA
JACK YOUNG, P.E.
PROFESSIONAL ENGINEER

JACK YOUNG, P.E.
FLORIDA LICENSE #45646

Revisions:

No.	Date	Description

Project Name:

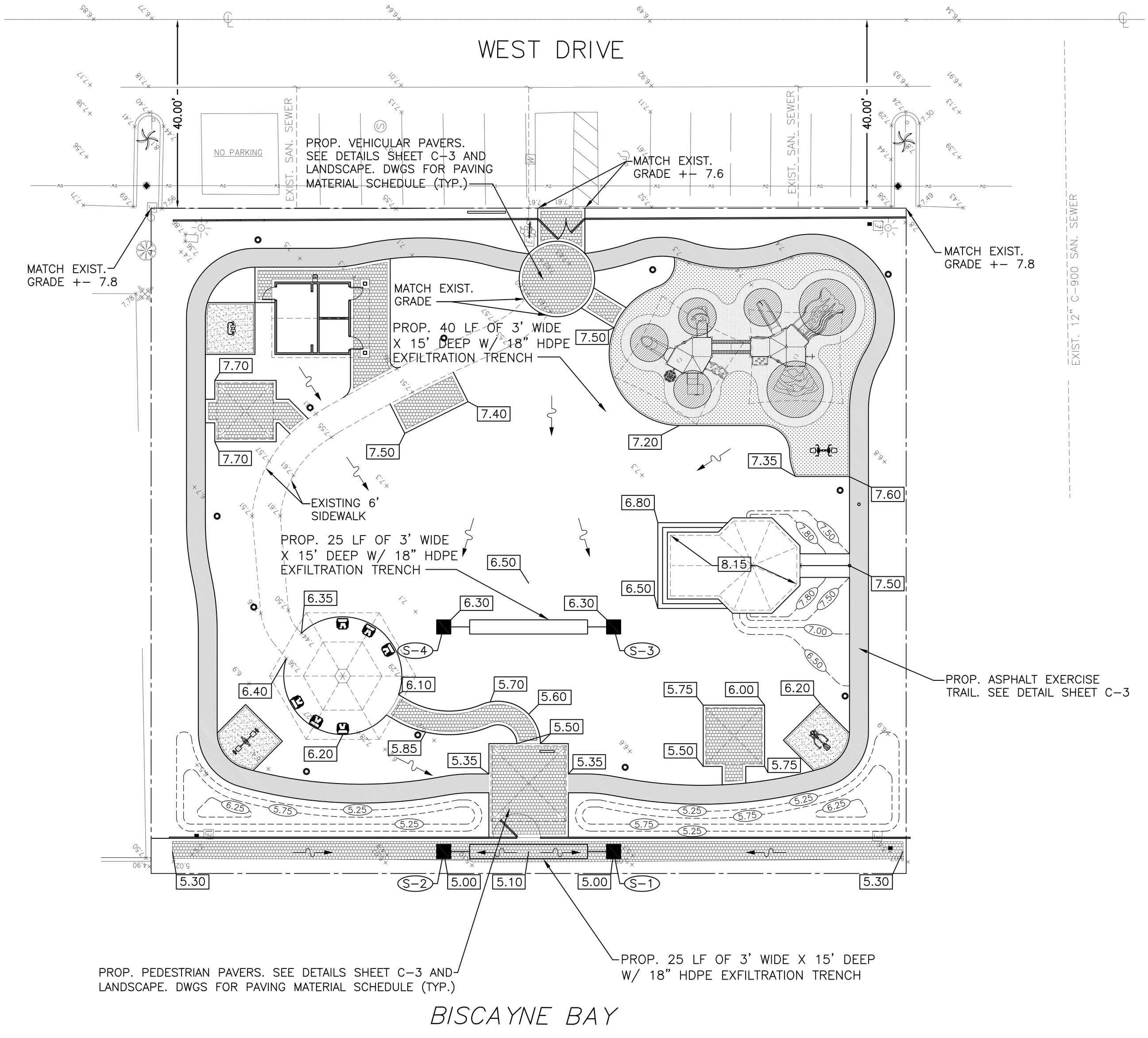
Dr. Paul Vogel Community Park
CITY OF NORTH BAY VILLAGE
LANDSCAPE PLANS

Project. No.
Scale:
Date: March 22, 2010
Drawn:
Checked:
CADD File:

Drawing Title:

GENERAL NOTES

Sheet No. C-1



GRAPHIC SCALE IN FEET (0 5 10 20)

LEGEND

- PROPOSED ASPHALT EXERCISE TRAIL
- S-1 PROP. DRAINAGE STRUCTURE
- 7.78 EXISTING ELEVATION
- 7.50 PROPOSED ELEVATION
- 6.25 PROP. GRADING CONTOUR

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Project. No.
Scale: 1" = 10'
Date: March 22, 2010
Drawn:
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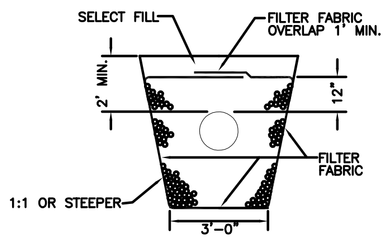
CADD File:

Drawing Title:

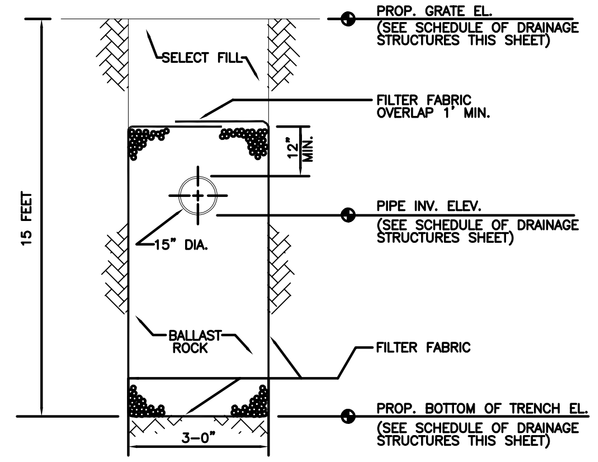
PAVING, GRADING & DRAINAGE

Sheet No. C-2

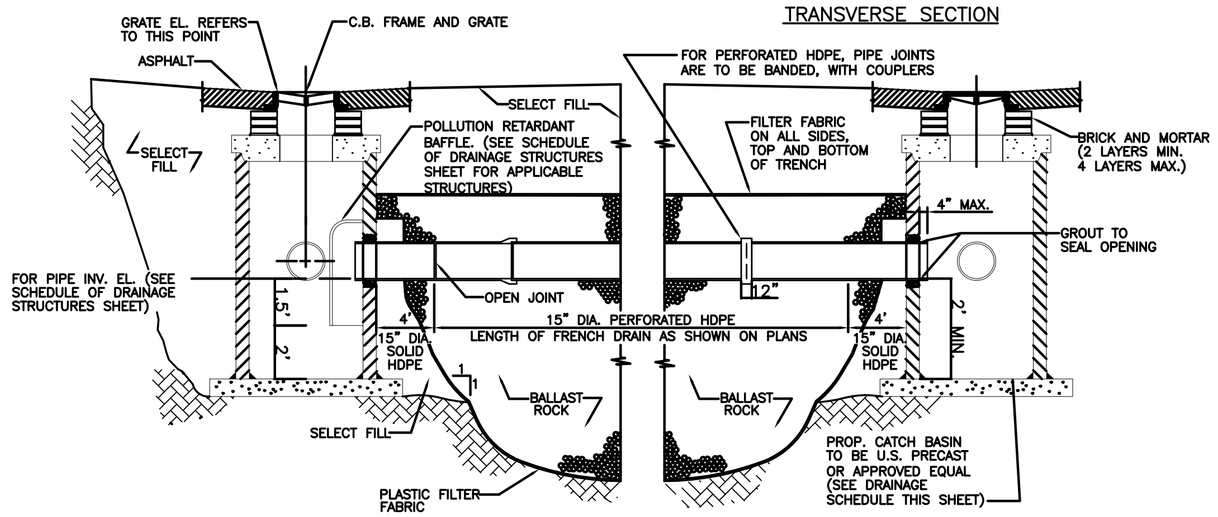


ALT. TRANS. SECTION*

*MAY BE USED IN AREAS WHERE TRENCH WALLS WILL NOT STAND VERTICAL, OR WHERE CAVE-IN BELOW THE WATER TABLE IS LIKELY TO OCCUR. TO BE USED AT THE ENGINEER'S DISCRETION.



TRANSVERSE SECTION

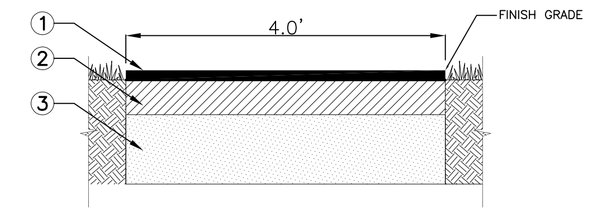


LONGITUDINAL SECTION

NOTE
AFTER THE BALLAST ROCK HAS BEEN PLACED TO THE PROPER ELEVATION IT SHALL BE CAREFULLY WASHED DOWN WITH CLEAN WATER TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF SETTLEMENT DOES TAKE PLACE, ADDITIONAL BALLAST ROCK WILL BE ADDED TO RESTORE THE PROPER ELEVATION SO THAT THE EXFILTRATION TRENCH IS COMPLETED IN ACCORDANCE WITH THE DETAILS.

TYPICAL CATCH BASIN AND EXFILTRATION TRENCH DETAIL

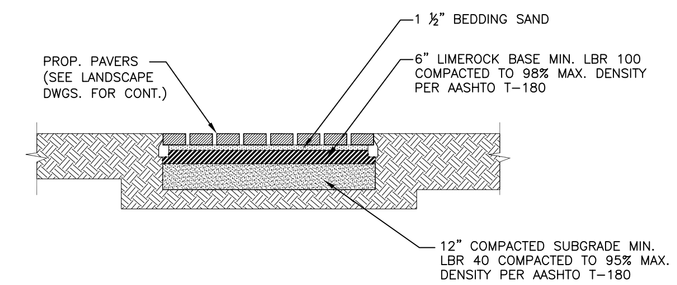
SCALE: N.T.S.



ASPHALT EXERCISE TRAIL DETAIL

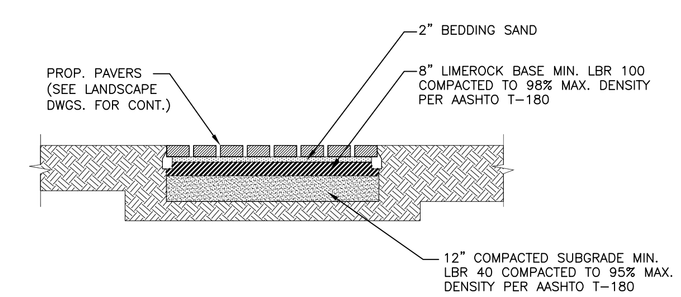
SCALE: N.T.S.

1. 1 1/2" THICK ASPHALTIC CONCRETE TYPE S-1.
2. 6" LIMEROCK BASE MIN. LBR 100 COMPACTED TO 98% MAX. DENSITY PER AASHTO T-180.
3. 12" COMPACTED SUBGRADE MIN. LBR 40 COMPACTED TO 95% MAX. DENSITY PER AASHTO T-180 .



PEDESTRIAN PAVER DETAIL

SCALE: N.T.S.



VEHICULAR PAVER DETAIL

SCALE: N.T.S.

DRAINAGE STRUCTURE SCHEDULE

NO.	TYPE & INSIDE DIMENSION	GRATE/RIM ELEVATION	PIPE INVERT ELEVATION								BOTTOM SLAB TOP ELEV.	PRB	REMARKS
			N	S	E	W	NE	NW	SE	SW			
S-1	CB (4.0' DIA.)	5.00		2.00							-1.50		TYPE C PER US PRECAST 3-9.4 WITH FRAME AND GRATE PER MDCPWD SD 2.3
S-2	CB (4.0' DIA.)	5.00	2.00								-1.50		TYPE C PER US PRECAST 3-9.4 WITH FRAME AND GRATE PER MDCPWD SD 2.3
S-3	CB (4.0' DIA.)	6.30	2.00								-1.50		TYPE C PER US PRECAST 3-9.4 WITH FRAME AND GRATE PER MDCPWD SD 2.3
S-4	CB (4.0' DIA.)	6.30		2.00							-1.50		TYPE C PER US PRECAST 3-9.4 WITH FRAME AND GRATE PER MDCPWD SD 2.3

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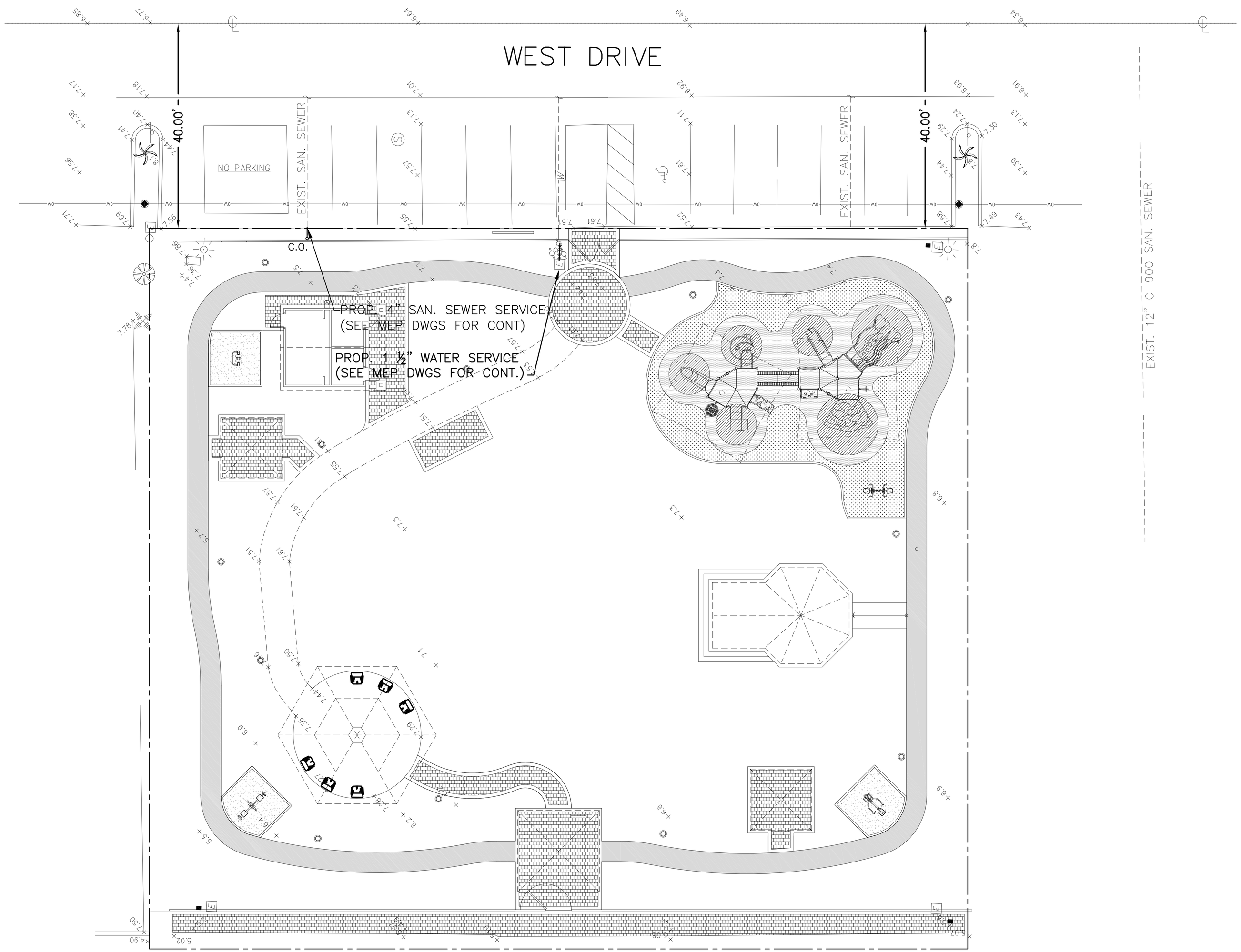
PAVING, GRADING & DRAINAGE DETAILS

Sheet No. C-3



0 5 10 20
GRAPHIC SCALE IN FEET

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STATE OF FLORIDA
JACK YOUNG, P.E.
PROFESSIONAL ENGINEER

JACK YOUNG, P.E.
FLORIDA LICENSE #45646

Revisions:

No.	Date	Description

Project Name:

Dr. Paul Vogel Community Park

CITY OF NORTH BAY VILLAGE

LANDSCAPE PLANS

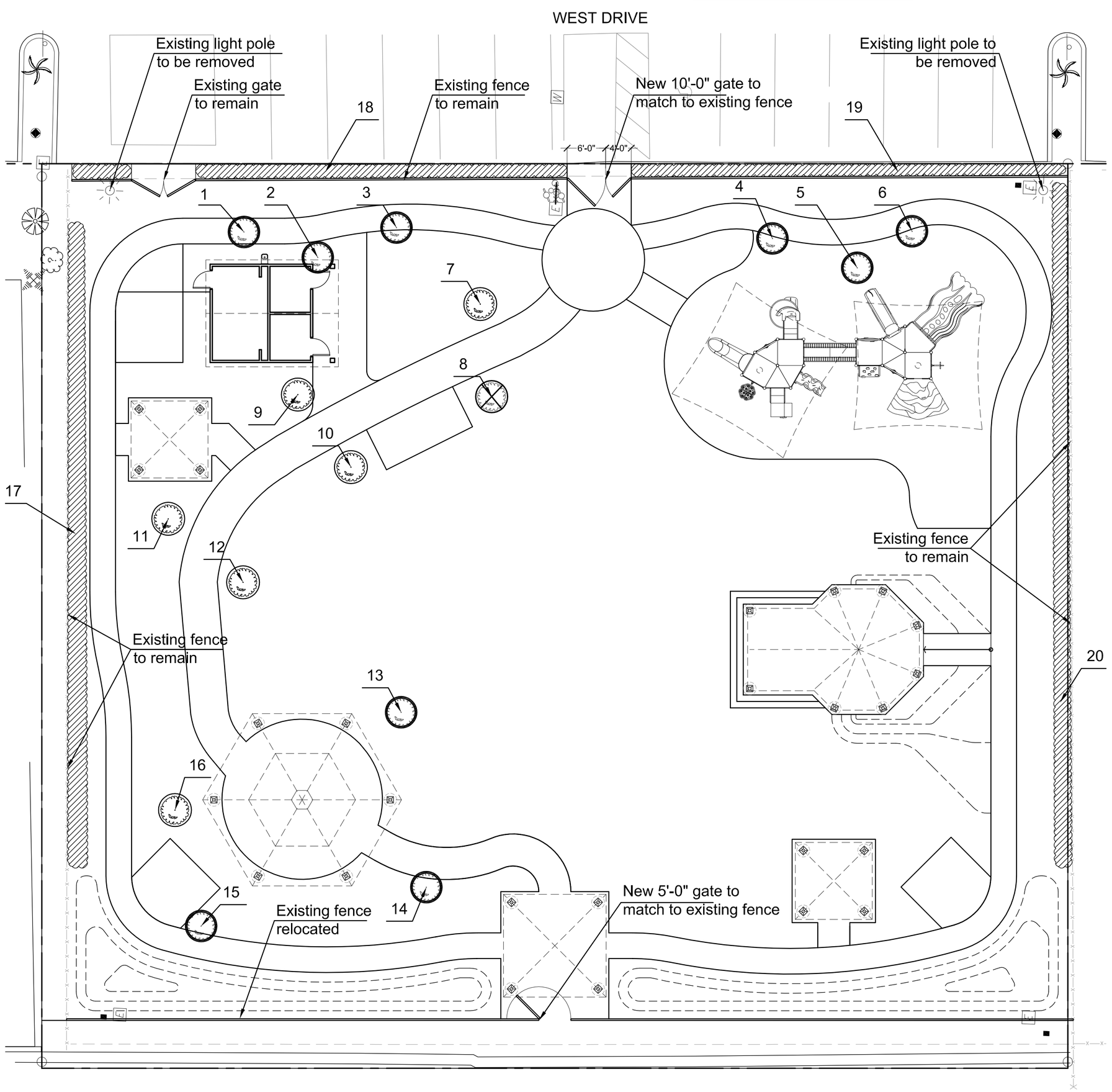
Project. No.
Scale: 1" = 10'
Date: March 22, 2010
Drawn:
Checked:
CADD File:

Drawing Title:

WATER & SEWER PLAN

NOTES
1. PROP. WATER SERVICE SHALL HAVE MIN. 3' OF COVER.
2. CONTRACTOR SHALL VERIFY LOCATION EXISTING SEWER LATERAL.

Sheet No. C-4



LEGEND

- Existing Tree To Be Transplanted
- Existing Tree To Be Removed
- Existing Tree To Remain

Note:
See Sheet L-2.0 for new location of transplanted trees.

1 EXISTING TREE AND LIGHT POLE DISPOSITION PLAN

L-1.0 SCALE: 3/32" = 1'-0"

1. Certified arborist is to be hired to supervise and direct all phases of transplanting trees and palms.
2. Trees to be relocated shall be root pruned a minimum of eight weeks prior to transplanting. Landscape Contractor shall maintain transplanted materials during construction period by watering, weeding, mowing, spraying, fertilizing, and pruning .
3. Landscape Contractor is responsible for verifying locations of all underground and overhead utilities and easements prior to commencing work. All Utility companies and/or the General Contractor shall be notified to verify utility locations prior to digging. Utility trenching is to be coordinated with the Landscape prior to beginning of project. The Owner or Landscape Architect shall not be responsible for damage to utility or irrigation lines.
4. The Landscape Contractor shall comply with all local and State codes and shall be responsible for obtaining all applicable permits.
5. Landscape Contractor shall regularly inspect the relocated materials to ensure compliance with standard horticultural practices.
6. The Landscape Contractor is responsible for guaranteeing the transplanted trees and palms for a period of one year. At the time of final inspection all transplanted trees and palms that are not in a healthy growing condition shall be replaced by the Landscape Contractor.
7. Root Pruning and Transplanting Operations: The Landscape Contractor shall take all precautions to minimize shock of root pruning and transplanting in accordance with standard arboriculture procedures including:

   A. The diameter of the root-pruning or transplanting circle shall be at a distance away from the trunk equal to 12 times each inch of trunk diameter at breast height.
   B. All small roots shall be cleanly cut with a sharp spade, a clean saw or chainsaw depending on the size of the root.
   C. Trees shall not be pruned at transplanting to compensate for root loss. Any trimming required shall be as per the International Society of Arboriculture Trimming Standards.
   D. For all palms except Sabal palmetto, the lower fronds shall be pruned leaving 9-11 fronds that can be tied without an extensive amount of weight that may damage the heart of the palm. The Sabal palmetto shall be have all fronds cut without damaging the bud.
   E. After root pruning trees, backfill roots to original existing grade with existing soil only.
   F. Provide a minimum of 3" mulch over backfill area to prevent weed growth, conserve moisture and prevent evaporation. Keep mulch 6" away from the tree.
   G. Provide tree protection as per Tree Protection Detail to ensure that the tree or root system is not damaged during the root-pruning period.
   H. After root pruning, during root regeneration period trees shall be watered as per standard horticultural practices.
   I. Immediately prior to transplanting tie the branches of the tree up to avoid damage.
   J. The root ball shall be wrapped with burlap to protect the soil around the roots and protect the roots from drying out at time of moving from the hole.
   K. Finish cutting of root ball for transplanting.
   L. Transplanting must occur within 24 hours after being dug for relocation. Plants should be kept in shade and the canopy kept moist.
   M. Digging and preparation of the new hole for the transplant shall be done prior to removing the tree from the existing location.
   N. The depth of the new hole shall be equal to the depth of the root ball and the width shall be equal to three times the width of the root ball. The Landscape Contractor is to verify that all new holes have appropriate percolation. Landscape Contractor is to report to the Landscape Architect if water percolation does not meet minimum requirements for healthy plant growth.
   O. Trees and palms shall be lifted from the ground with heavy equipment designed specifically for tree relocation so that the trunk and crown is not impacted and damaged by the equipment.
   P. The slings used to lift the trees and heavy weight palms shall be non-binding nylon type slings that are wrapped under the root ball to support the weight of tree or heavy palm. Slings shall not be solely wrapped around the trunk of the tree that can cause damage, girdling and result in decline and death of the tree.
   Q. The slings used to lift the lighter weight palms shall be non-binding nylon type slings that are wrapped around the trunk to support the weight of the palm. Padding the sling may be necessary so that the trunk or "boots" are not damaged,
   R. Trees shall be planted slightly higher than their original planting level prior to relocation. Palms shall be planted at the same elevation prior to relocation. The tree and palm shall be centrally positioned in the planting hole and set straight, plumb or normal to the growth pattern prior to transplanting.
   S. The trees and palms shall be backfilled with existing soil **free of deleterious material to plant growth.**
   T. Trees and palms shall be deep root watered to eliminate air pockets in the backfill mix prior to mulching.
   U. A 6" saucer shall be created around the edge of the plant pit to help hold water.
   V. Provide a minimum of 3" layer of mulch over saucer and backfill area outside saucer to prevent the weed growth, conserve moisture, and prevent evaporation. Keep mulch 6" away from the tree.
   W. Install tree and palm bracing as per attached details, to ensure stability of tree and palm during time period prior to and after transplanting.
   X. Over the guarantee period the Landscape Contractor is responsible for resetting any trees/palms that are not vertical when caused by winds less than 75 MPH.
   Y. After transplanting trees and palms, the Landscape Contractor shall be responsible for obtaining water and watering to maintain soil moisture during the guarantee period at a minimum of:
   First Month- daily; Second Month - 3 times per week; Third and Fourth Months - 2 times per week; Last Eight Months -1 time per week. For trees over 4" in caliper at the time of planting, the schedule should be: First 6 weeks - daily, from 1.5 months to 6 months-3 times per week, last 6 months - 1 time per week.

2 TREE AND PALM TRANSPLANTING NOTES

L-1.0 SCALE: N.T.S.

1. Before beginning work, the Landscape Contractor is required to meet with the Landscape Architect at the site to review all work procedures, access routes, storage areas, and tree protection measures.
2. Fences shall be erected to protect trees to be preserved. Fences define a specific protection zone for each tree or group of trees. Fences are to remain until all site work has been completed. Fences may not be relocated or removed without the written permission of the Landscape Architect.
3. Construction trailers, traffic and storage areas must remain outside fenced areas at all times.
4. All underground utilities and drain or irrigation lines shall be routed outside the tree protection zone. If lines must traverse the protection area, they shall be tunneled or bored under the tree.
5. No materials, equipment, spoil, or waste or washout water may be deposited, stored, or parked within the tree protection zone (fenced area).
6. Additional tree pruning required for clearance during construction must be performed by a qualified arborist and not by construction personnel.
7. Any herbicides placed under paving materials must be safe for use around trees and labeled for that use. Any pesticides used on site must be tree-safe and not easily transported by water.
8. If injury should occur to any tree during construction, it should be evaluated as soon as possible by the Landscape Contractor and the Landscape Architect should be notified immediately.
9. Any grading, construction, demolition, or other work that is expected to encounter tree roots must be monitored by the General Contractor and / or Landscape Contractor.
10. All trees shall be irrigated three times a week. Each irrigation procedure shall wet the soil within the tree protection zone to a depth of 30 inches.
11. Erosion control devices such as silt fencing, debris basins, and water diversion structures shall be installed to prevent siltation and/or erosion within the tree protection zone.
12. Before grading, pad preparation, or excavation for foundations, footings, walls, or trenching near trees the trees shall be root pruned 12 inches outside the tree protection zone by cutting all roots cleanly to a depth of 36 inches. Roots shall be cut manually by digging a trench and cutting exposed roots with a saw, vibrating knife, rock saw, narrow trencher with sharp blades, or other approved root-pruning equipment.
13. Any roots damaged during grading or construction shall be exposed to sound tissue and cut cleanly with a saw.
14. If temporary haul or access roads must pass over the root area of trees to be retained, a road bed of 6 inches of mulch or gravel shall be created to protect the soil. The road bed material shall be replenished as necessary to maintain a 6-inch depth.
15. Spoil from trenches, basements, or other excavations shall not be placed within the tree protection zone, either temporarily or permanently.
16. No burn piles or debris pits shall be placed within the tree protection zone. No ashes, debris, or garbage may be dumped or buried within the tree protection zone.
17. Maintain fire-safe areas around fenced areas. Also, no heat sources, flames, ignition sources, or smoking is allowed near mulch or trees.

3 TREE AND PALM PROTECTION NOTES

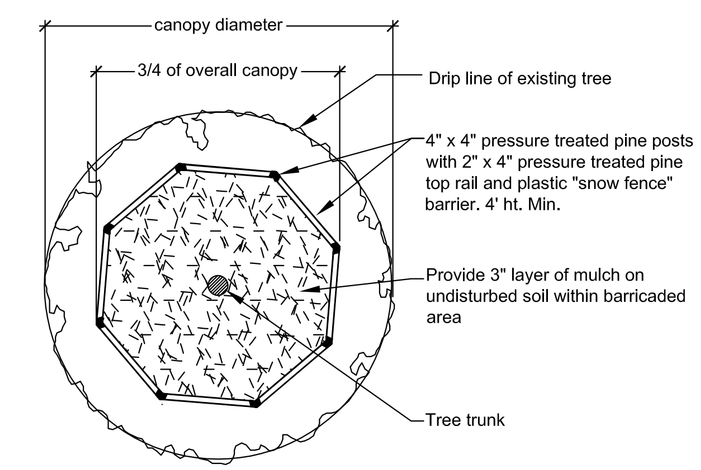
L-1.0 SCALE: N.T.S.

#	BOTANICAL NAME	COMMON NAME	HEIGHT	SPREAD	CALIPER	CONDITION	STATUS
1	Quercus virginiana	Live Oak	12'	6'	3 1/2"	Good	Transplant
2	Quercus virginiana	Live Oak	12'	6'	3 1/2"	Good	Transplant
3	Quercus virginiana	Live Oak	12'	6'	3 1/2"	Good	Transplant
4	Quercus virginiana	Live Oak	12'	6'	3 1/2"	Good	Transplant
5	Quercus virginiana	Live Oak	12'	6'	3 1/2"	Good	Transplant
6	Quercus virginiana	Live Oak	12'	6'	3 1/2"	Good	Transplant
7	Senna surattensis	Glaucous Cassia	8'	6'	2 1/2" Multi	Good	Remain
8	Senna surattensis	Glaucous Cassia	8'	6'	2 1/2" Multi	Poor	Remove
9	Senna surattensis	Glaucous Cassia	8'	6'	2 1/2" Multi	Good	Remain
10	Senna surattensis	Glaucous Cassia	8'	6'	2 1/2" Multi	Good	Remain
11	Senna surattensis	Glaucous Cassia	8'	6'	2 1/2" Multi	Good	Remain
12	Senna surattensis	Glaucous Cassia	8'	6'	2 1/2" Multi	Good	Remain
13	Quercus virginiana	Live Oak	8'	5'	2 1/2"	Fair	Transplant
14	Quercus virginiana	Live Oak	8'	5'	2 1/2"	Fair	Transplant
15	Quercus virginiana	Live Oak	8'	5'	2 1/2"	Fair	Transplant
16	Quercus virginiana	Live Oak	8'	5'	2 1/2"	Fair	Remain
17	Chrysalidocarpus lutescens	Areca Palm	7'	3'	N.A.	Hedged	Remain
18	Podocarpus macrophyllus	Podocarpus	2'	2'	N.A.	Hedged	Remain
19	Podocarpus macrophyllus	Podocarpus	2'	2'	N.A.	Hedged	Remain
20	Chrysalidocarpus lutescens	Areca Palm	8'	3'	N.A.	Hedged	Remain

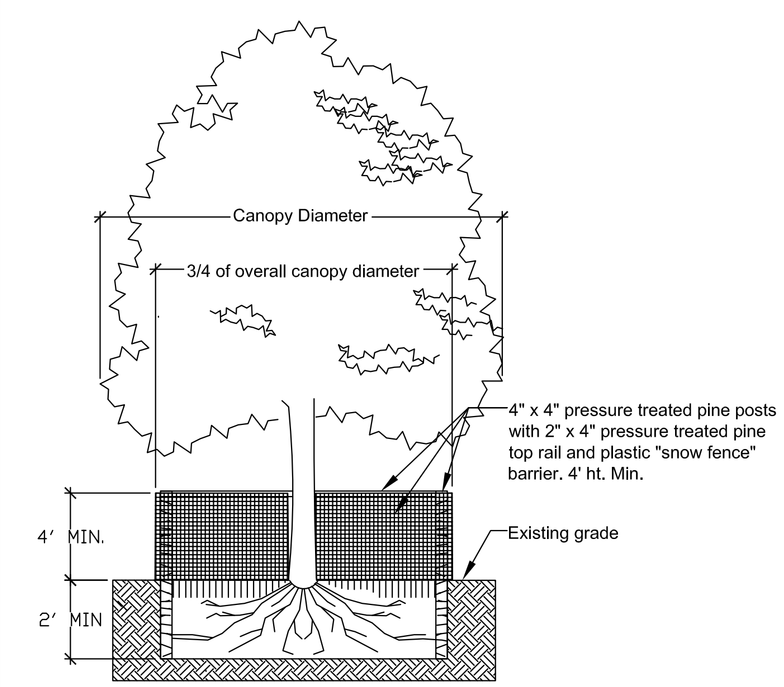
All Shrubs/Vegetation Not Shown On This Schedule Are To Be Removed.

4 EXISTING TREE DISPOSITION LIST

L-1.0 SCALE: N.T.S.



TREE PROTECTION DETAIL (PLAN)



TREE PROTECTION DETAIL (ELEVATION)

5 TREE PROTECTION DETAIL

L-1.0 SCALE: N.T.S.

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MONIKA S. GAMBLE R.L.A.
LA0001379
REGISTERED LANDSCAPE ARCHITECT

MONIKA S. GAMBLE R.L.A.
LA0001379

Revisions:

No.	Date	Description

Project Name:

Dr. Paul Vogel Community Park

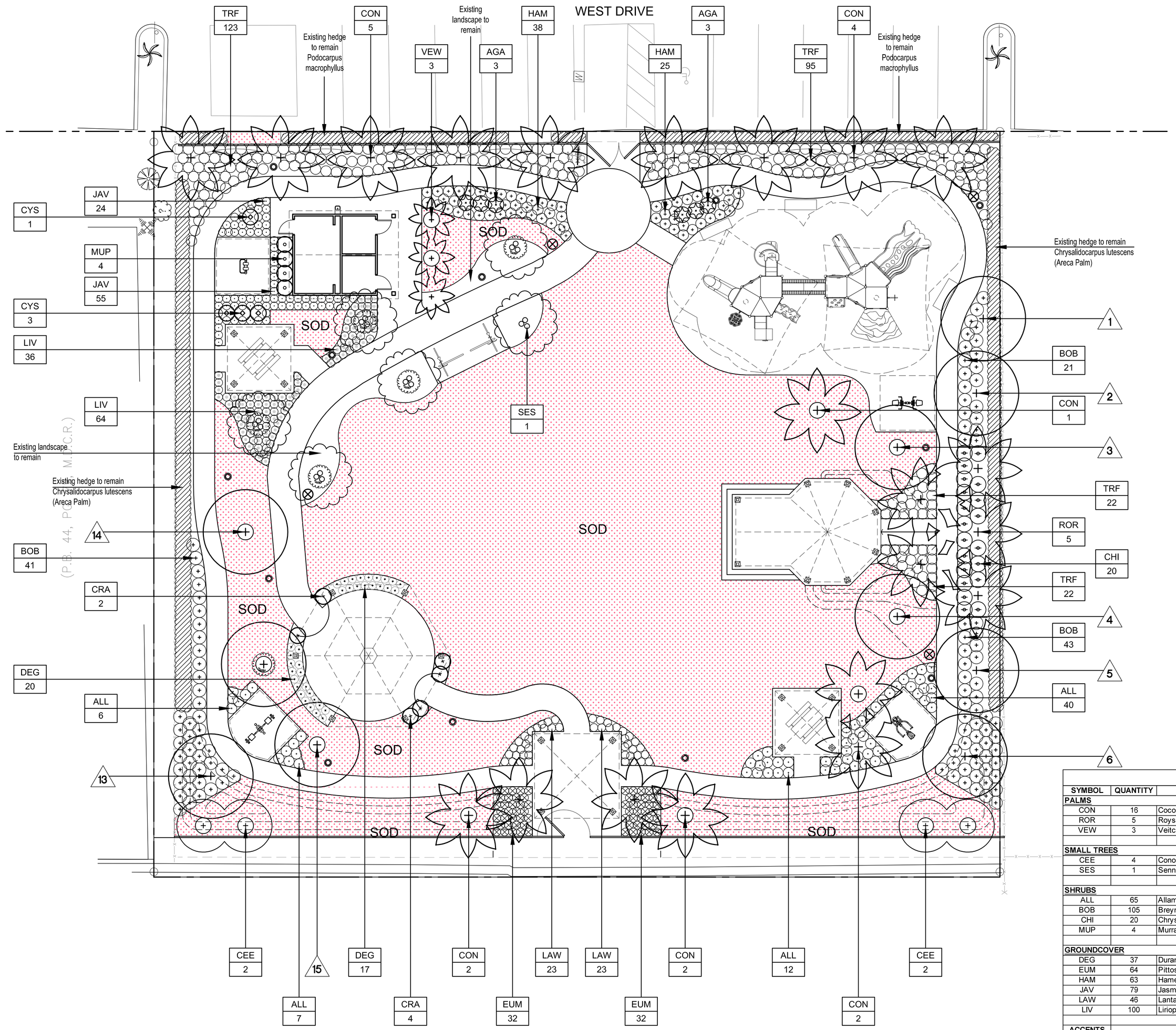
CITY OF NORTH BAY VILLAGE
LANDSCAPE PLANS

Project. No. 29064.000
Scale: As Shown
Date: March 22, 2010
Drawn: JV
Checked: RH, MG
CADD File: H:\PROJECTS\29064.Park NBV\Landscape Plans

Drawing Title:

EXISTING TREE DISPOSITION PLAN & LIGHT POLE REMOVAL

Sheet No. L-1.0



PLANT LIST									
SYMBOL	QUANTITY	SCIENTIFIC NAME	COMMON NAME	CALIPER	HEIGHT	CANOPY	CONTAINER	SPACING	NOTES
PALMS									
CON	16	Cocos nucifera	Coconut Palm	12"-14"	22'-24'	20'-22'	B&B	As Shown	
ROR	5	Roystonea regia	Cuban Royal Palm	12"-18"	22'-24'	18'-20'	B&B	As Shown	
VEW	3	Veitchia winin	Winin Palm	8"-12"	14'-16'	10'-12'	B&B	As Shown	
SMALL TREES									
CEE	4	Conocarpus erectus 'sericeus'	Silver Buttonwood	2"-3"	10'-12'	8'-10'	B&B	As Shown	
SES	1	Senna surattensis	Glaucous Cassia	2"-3"	14'-16'	8'-10'	25 Gal	As Shown	Sun
SHRUBS									
ALL	65	Allamanda neriifolia	Bush Allamanda		18"-24"	18"-24"	3 Gal	24 " O.C	
BOB	105	Breynia disticha 'Snow-on-the Mountain'	Breynia		24"-36"	24"-36"	3 Gal	42 " O.C	
CHI	20	Chrysobalanus icaco	Cocoplum		24"-36"	24"-36"	3 Gal	36 " O.C	
MUP	4	Murraya paniculata 'Lake View'	Orange Flowering Jasmine		48"-72"	36"-60"	7 Gal	36 " O.C	
GROUNDCOVER									
DEG	37	Duranta erecta 'Gold Mound'	Duranta		18"-24"	12"-18"	3 Gal	18 "O.C.	
EUM	64	Pittosporum tobira 'variegata'	Pittosporum		12"-18"	12"-18"	3 Gal	18 "O.C.	
HAM	63	Hamelia patens 'Dwarf'	Dwarf Firebush	NA	24"-36"	24"-36"	3 Gal	24 "O.C.	
JAV	79	Jasminum volubile	Wax Jasmine		18"-24"	18"-24"	3 Gal	18 "O.C.	
LAW	46	Lantana montevidiensis 'Trailing White'	Lantana		10"-12"	NA	1 Gal	18 "O.C.	
LIV	100	Liriope muscari 'Variegata'	Variegated Lilyturf		10"-12"	10"-12"	1 Gal	12 "O.C.	
ACCENTS									
AGA	6	Codiaeum variegatum 'Eleanor Roosevelt'	Croton		18"-24"	18"-24"	3 Gal	18 " O.C.	
CRA	6	Crinum agustum 'Queen Emma'.	Queen Emma Crinum		30"-36"	30"-36"	15 Gal		
CYS	4	Chamaedorea erumpens	Bamboo Palm	NA	28"-36"	28"-36"	10 Gal	As Shown	
TRF	262	Tripsacum floridanum	Dwarf Fakahatchee	NA	18"-24"	18"-24"	3 Gal	24 "O.C.	
SOD									
STS		Stenotaphrum secundatum 'Floratam'	St. Augustine Grass				Sod/SF		

Relocated Tree, see Sheet L-1.0 for original location .

NOTE:
- Contractor to confirm location of existing tree and notify Landscape Architect if in conflict with proposed sidewalk / paving
- The City shall maintain Coconut Palms so that the Coconuts are not a hazard.

1 **PLANTING PLAN**
L-2.0 SCALE: 3/32" = 1'-0"

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CADD File: H:\PROJECTS\29064.Park NBV\Landscape Plans
Drawing Title:

PLANTING PLAN

Sheet No. L-2.0

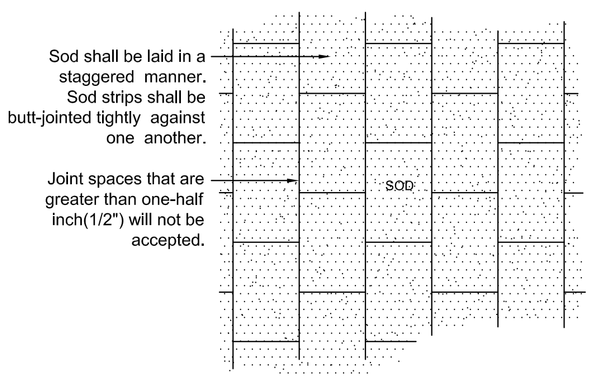
GENERAL NOTES

- Landscape Contractor is responsible for verifying locations of all underground and overhead utilities and easements prior to commencing work. All Utility companies and/or the General Contractor shall be notified to verify utility locations prior to digging. Utility trenching is to be coordinated with the Landscape plans prior to beginning of project. The Owner or Landscape Architect shall not be responsible for damage to utility or irrigation lines.
- Landscape Contractor shall examine the site and become familiar with conditions affecting the installation prior to submitting bids. Failure to do so shall not be considered cause for future extras or complaints.
- Landscape Contractor is responsible for verifying all plant quantities prior to bidding and within (7) seven calendar days of receipt of these plans shall notify the Landscape Architect in writing of any and all discrepancies. In case of discrepancies planting plans shall take precedence over plant list.
- No substitutions are to be made without prior consent of the Landscape Architect. Plant material supply is the responsibility of the Landscape Contractor, and he/she shall take steps to insure availability at time of planting.
- All plant material shall meet or exceed the size on the plant list. In all cases meeting the height and the spread specifications shall take precedence over container size.
- All planted areas to be outfitted with automatic irrigation system providing 100% coverage and 50% overlap. A rain sensor must be part of the irrigation system.
- Landscape contractor to provide finish grade 3" lower than FFE of all hardscapes, i.e. roads, walks, curbs, pavers, etc., to accommodate 3" layer of mulch in Planting Beds.
- All permitting and fees to be the responsibility of the Contractor.

PLANTING NOTES

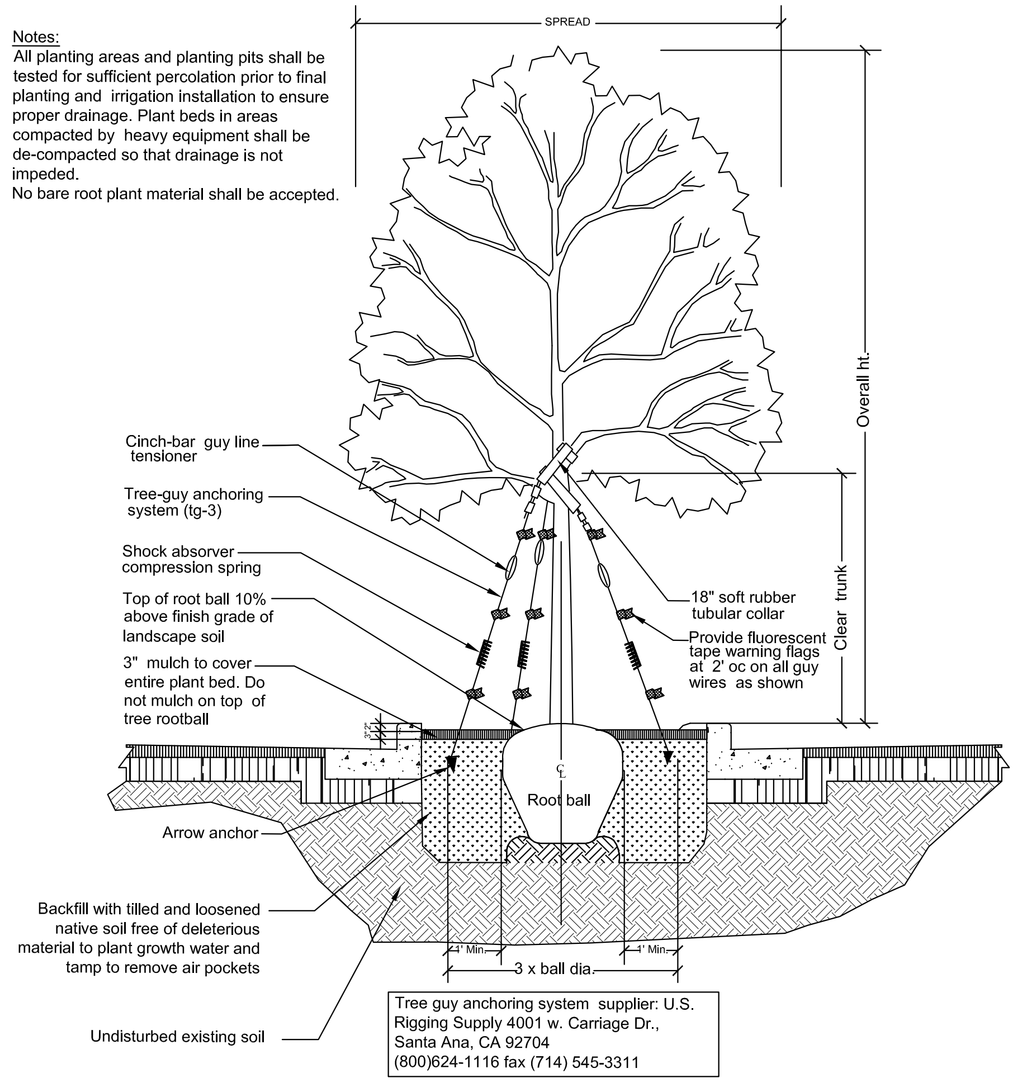
- Landscape Contractor shall furnish and install all trees, palms, shrubs, groundcover, sod, planting soil, herbicide, preemergence herbicide, seed, and mulch.
- Landscape Contractor shall guarantee all plant material for a period of one year from the day of final acceptance by the Landscape Architect.
- All plant material shall be Florida #1 or better, as defined in the Grades and Standards for Nursery Plants, Part I and II by the State of Florida Department of Agriculture.
- Landscape Contractor is responsible for scheduling a nursery visit for Landscape Architect to approve all trees, palms and shrubs prior to delivery to the project site.
- Landscape Contractor shall coordinate his work with that of the Irrigation and Landscape Lighting Contractor.
- The Landscape Contractor shall treat plant areas with preemergence herbicide after weeds and grass have been removed. Landscape Contractor shall wait (7) seven days after preemergence treatment prior to planting.
- Backfill shall be the existing surface soil, free from subsoil, objectionable weeds, litter, sods, stiff clay, stones, stumps, roots, trash, toxic substances, mortar, cement, or any other material which may be harmful to plant growth or hinder planting operations. Poorly drained soil shall not be used.
- All soil mix in plant beds for ground covers, shrubs, palms and trees shall be as per details. All other areas shall be dressed with a minimum of 4" topsoil.
- All planting areas and planting pits shall be tested for sufficient percolation prior to final planting and irrigation installation to ensure proper drainage. Plant beds in parking lots and in areas compacted by heavy equipment shall be de-compacted so that drainage is not impeded.
- All synthetic burlap, string, cords or wire baskets shall be removed before trees are planted. All synthetic tape shall be removed from branches and trunks prior to final acceptance. The top 1/3 of the burlap shall be removed or tucked into the plant pit before the trees are backfilled.
- Landscape Contractor is responsible for mulching all plant beds and planters with a minimum 3" layer of natural color Eucalyptus or Enviromulch immediately after planting. In no case shall Cypress mulch be used.
- All Trees/Palms in sod areas are to receive a 36"/48" diameter mulched saucer at the base of the trunk respectively.
- Landscape Contractor shall guy and stake all trees and palms as per specifications and details. No nails, screws or wiring shall penetrate the outer surface of trees and palms. All guying and staking shall be removed twelve months after planting.
- All palm and tree guy wires and bracing are to be flagged for visibility, for their duration. All unattended and unplanted tree pits shall be properly barricaded and flagged during construction.
- All broken branches and clear trunk branches on trees are to be pruned according to ANSI A-300 Guidelines for Tree Pruning.
- Stake all trees and palms for approval by Landscape Architect prior to installation.
- All planted areas except ground covers shall have a minimum of 3" of specified mulch. Measurement to be made after compaction.
- Soil depth under plant beds to be a minimum of 2' excluding 4" of top soil
- Soil depth under sod areas to be a minimum of 1' excluding 4" of top soil

1 PLANTING NOTES
L-2.1 SCALE: N.T.S.



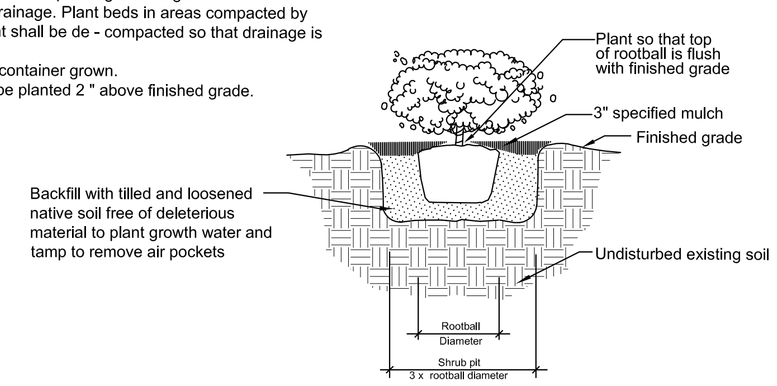
2 SOD PLANTING DETAIL
L-2.1 SCALE: N.T.S.

Notes:
All planting areas and planting pits shall be tested for sufficient percolation prior to final planting and irrigation installation to ensure proper drainage. Plant beds in areas compacted by heavy equipment shall be de-compacted so that drainage is not impeded.
No bare root plant material shall be accepted.



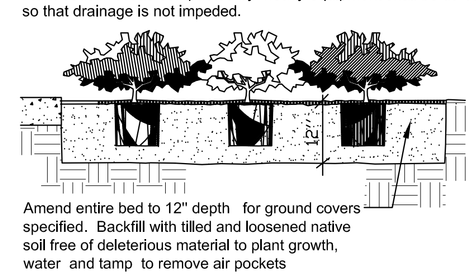
3 LARGE TREE PLANTING DETAIL
L-2.1 SCALE: N.T.S.

Note:
All planting areas and planting pits shall be tested for sufficient percolation prior to final planting and irrigation installation to ensure proper drainage. Plant beds in areas compacted by heavy equipment shall be de - compacted so that drainage is not impeded.
All shrubs to be container grown.
All shrubs shall be planted 2 " above finished grade.

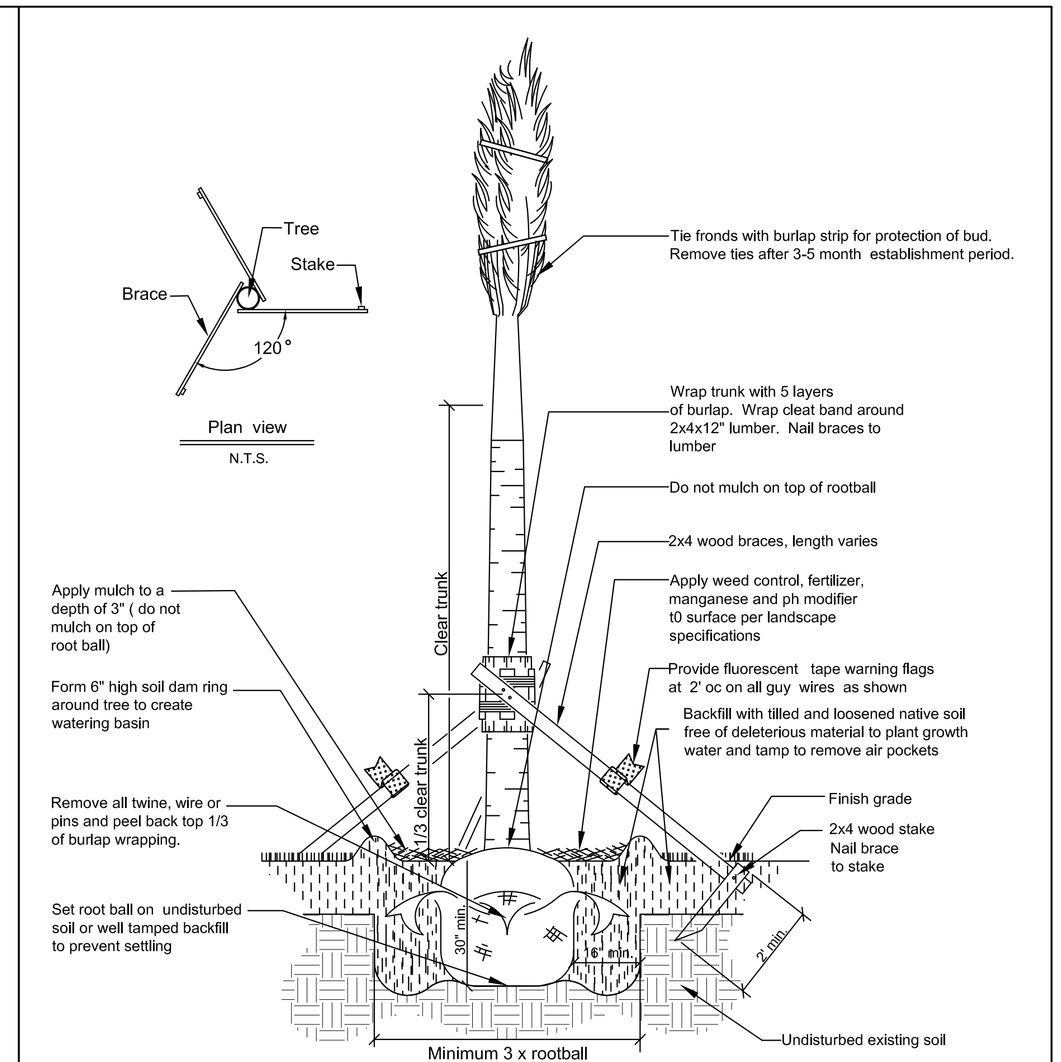


4 SHRUBS PLANTING DETAIL
L-2.1 SCALE: N.T.S.

Note:
All planting areas and planting pits shall be tested for sufficient percolation prior to final planting and irrigation installation to ensure proper drainage. Plant beds in areas compacted by heavy equipment shall be de-compacted so that drainage is not impeded.



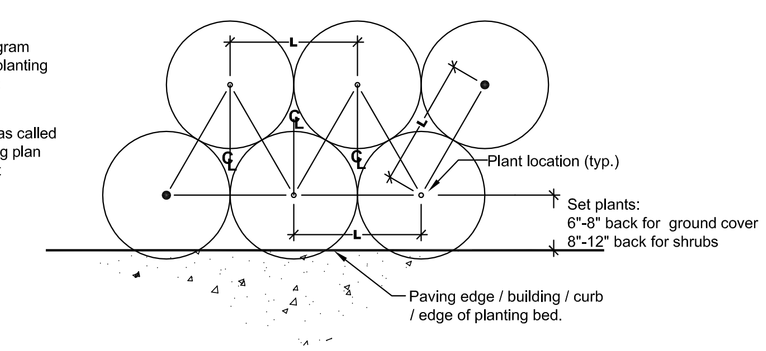
5 GROUND COVER PLANTING DETAIL
L-2.1 SCALE: N.T.S.



6 PLANTING DETAILS
L-2.1 SCALE: N.T.S.

Note:
Spacing diagram refers to all planting unless noted otherwise

L= Spacing as called for in planting plan and plant list



7 TRIANGULAR PLANTING DETAIL
L-2.1 SCALE: N.T.S.

All plantings shall be fertilized with agriform 20*10*5 planting tablets at the time of their installation and prior to completion of pit backfilling. Agriform planting tablets shall be placed uniformly around the root mass at a depth that is between the middle and the bottom of the root mass.

Application rates

21 gram tablet						10 gram	5 gram
1 gal. Can plants	3 gal. Can plants	5 gal. Can plants	7 gal. Can plants	Large tubs or b&b trees	Mature palms	Well rooted liners	Small ground-covers or perennials
1 tablet	2 tablet	3 tablet	4 tablet	Trees, 3 tablets for each 1/2" of caliper. Shrubs, 1 tablet for each 1' of height.	10 tablets per palm	1 to 2 tablets	1 tablet

Agriform 20*10*5 planting tablets as manufactured by:
Sierra Chemical Company 1001 Yosemite
Drive Milpitas, CA 95055

The landscape architect may make a random sampling of plant pits to determine uniformity of application.

8 FERTILIZER SCHEDULE
L-2.1 SCALE: N.T.S.

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2601 South Bayshore Drive
Miami FL 33133
(305) 859-2050 Fax (305) 860-3759

STATE OF FLORIDA
MONIKA S. GAMBLE R.L.A.
LA0001379
REGISTERED LANDSCAPE ARCHITECT

MONIKA S. GAMBLE R.LA.
LA0001379

Revisions:

No.	Date	Description

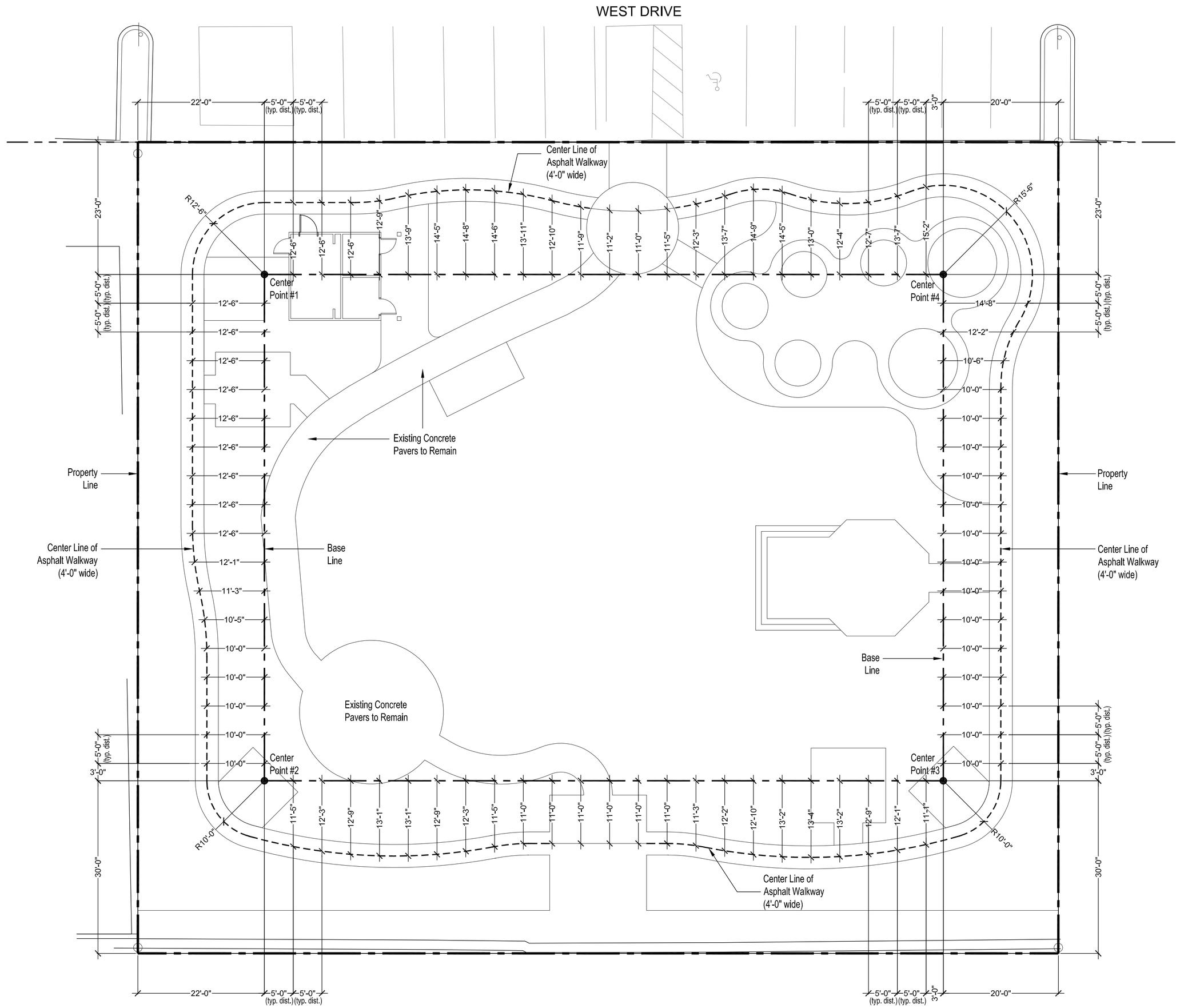
Project Name:

Dr. Paul Vogel Community Park
CITY OF NORTH BAY VILLAGE
LANDSCAPE PLANS

Project. No. 29064.000
Scale: As Shown
Date: March 22, 2010
Drawn: JV
Checked: RH, MG
CADD File: H:\PROJECTS\29064.Park NBV\Landscape Plans
Drawing Title:

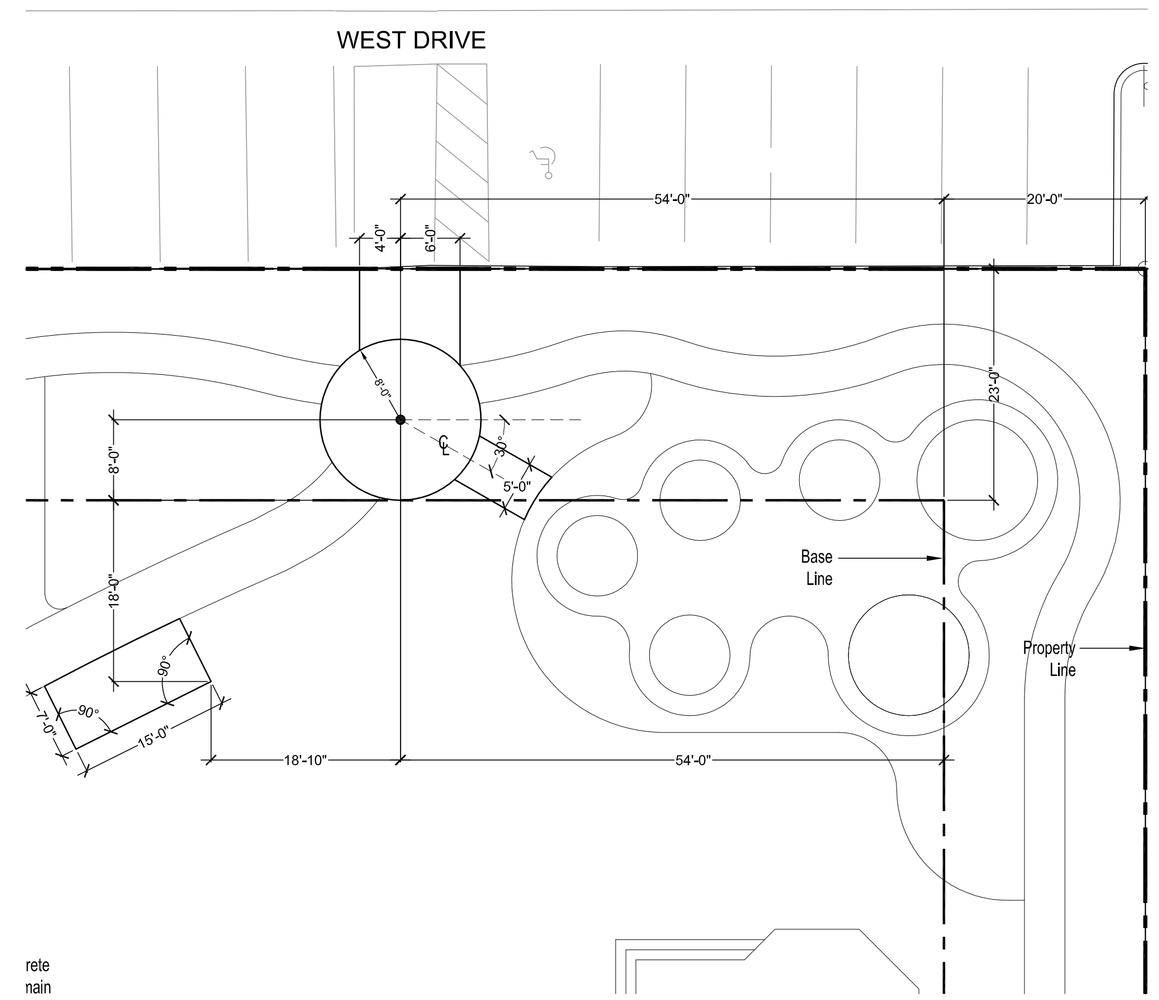
PLANTING DETAILS

Sheet No. L-2.1



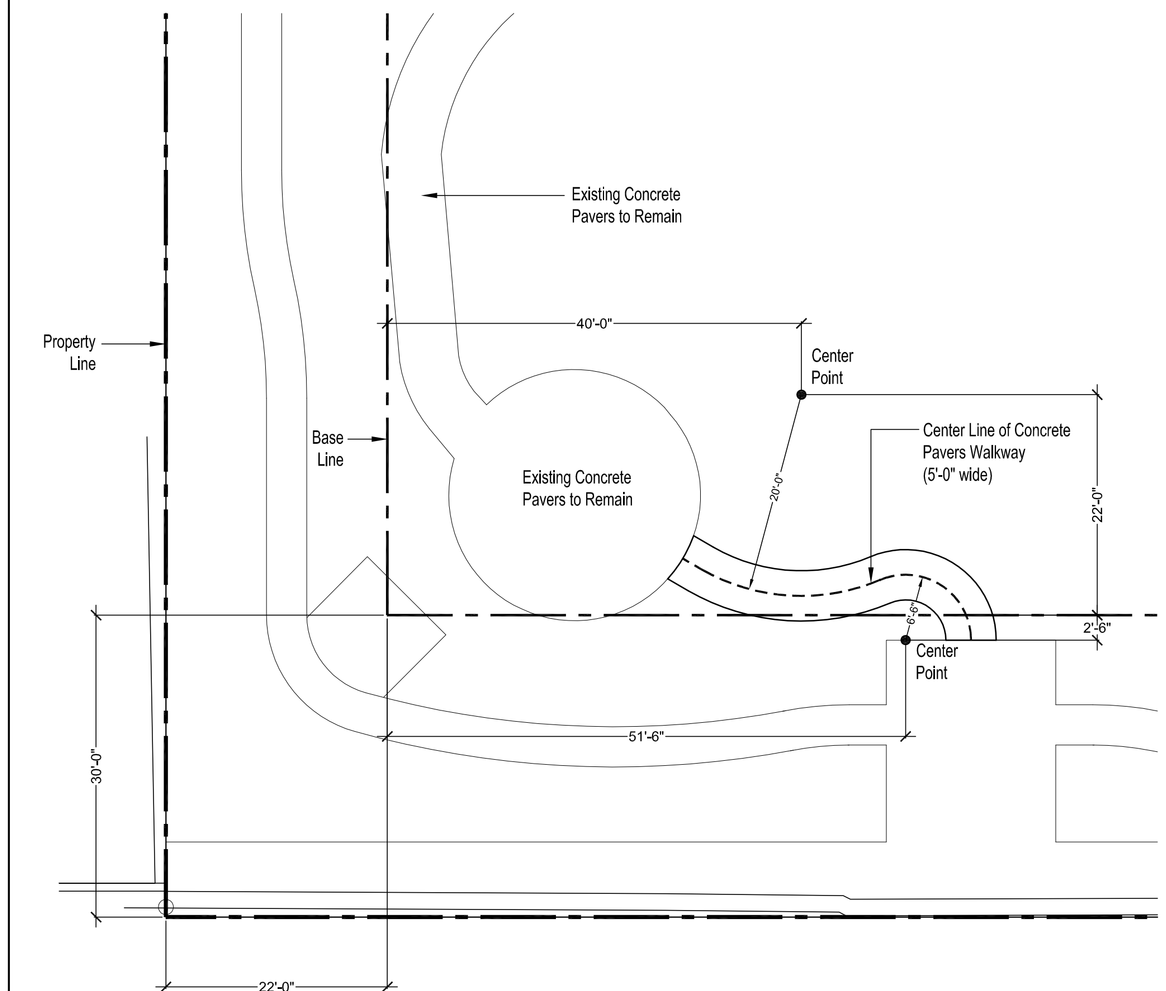
1 ASPHALT WALKWAY LAYOUT PLAN

L-3.0 SCALE: 3/32" = 1'-0"



2 ENTRANCE AREA LAYOUT PLAN

L-3.0 SCALE: 3/32" = 1'-0"



3 CONCRETE PAVERS WALKWAY LAYOUT PLAN

L-3.0 SCALE: 3/32" = 1'-0"

General notes:

1. Contractor shall field verify all information prior to initiating work.
2. Contractor shall notify all necessary utility companies 48 hours minimum prior to digging for verification of all underground utilities, and other obstruction and coordinate with Owner's Representative prior to initiating operations.
3. Report any discrepancies between the construction drawings and field conditions to the Owner's Representative immediately.

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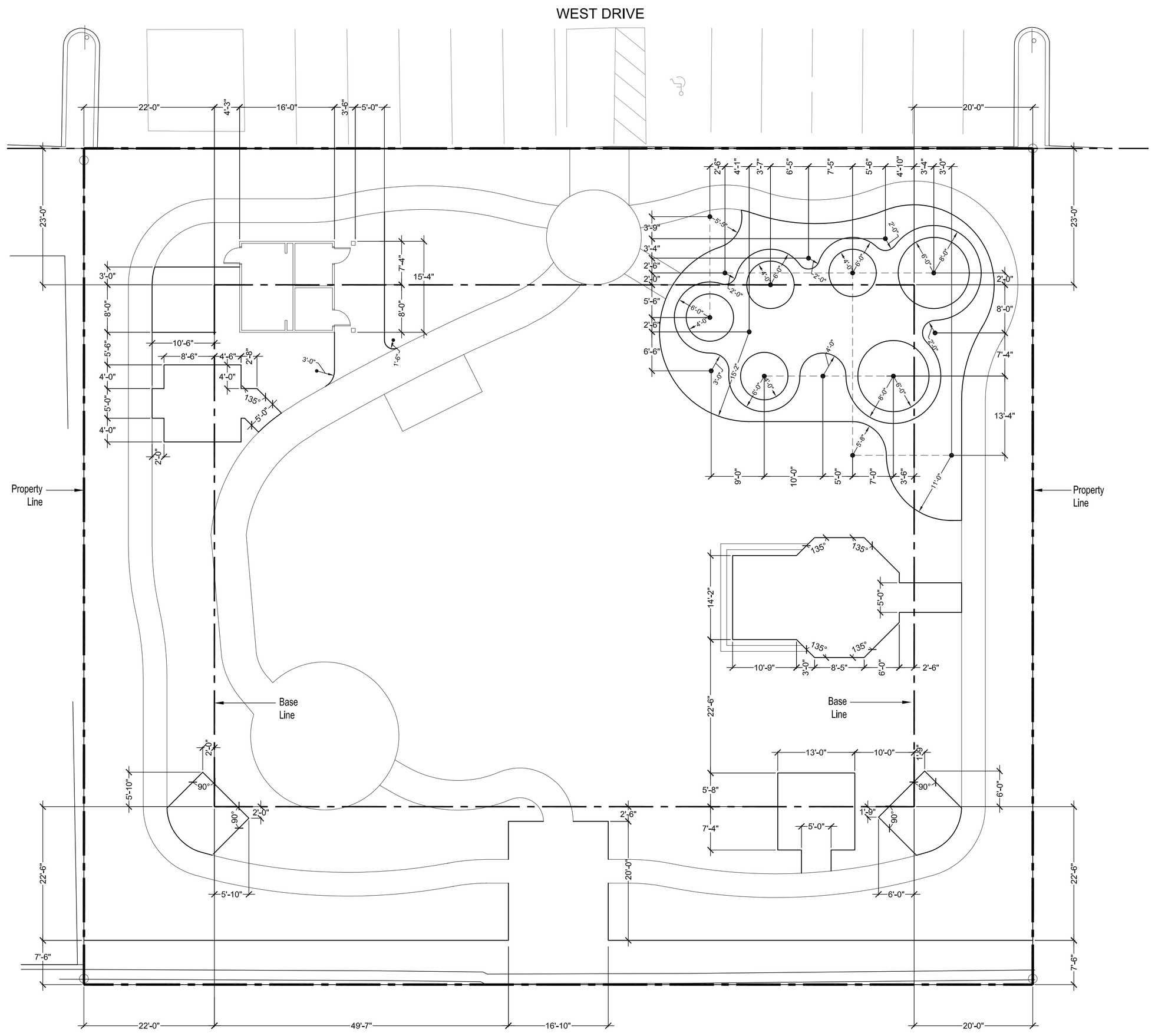
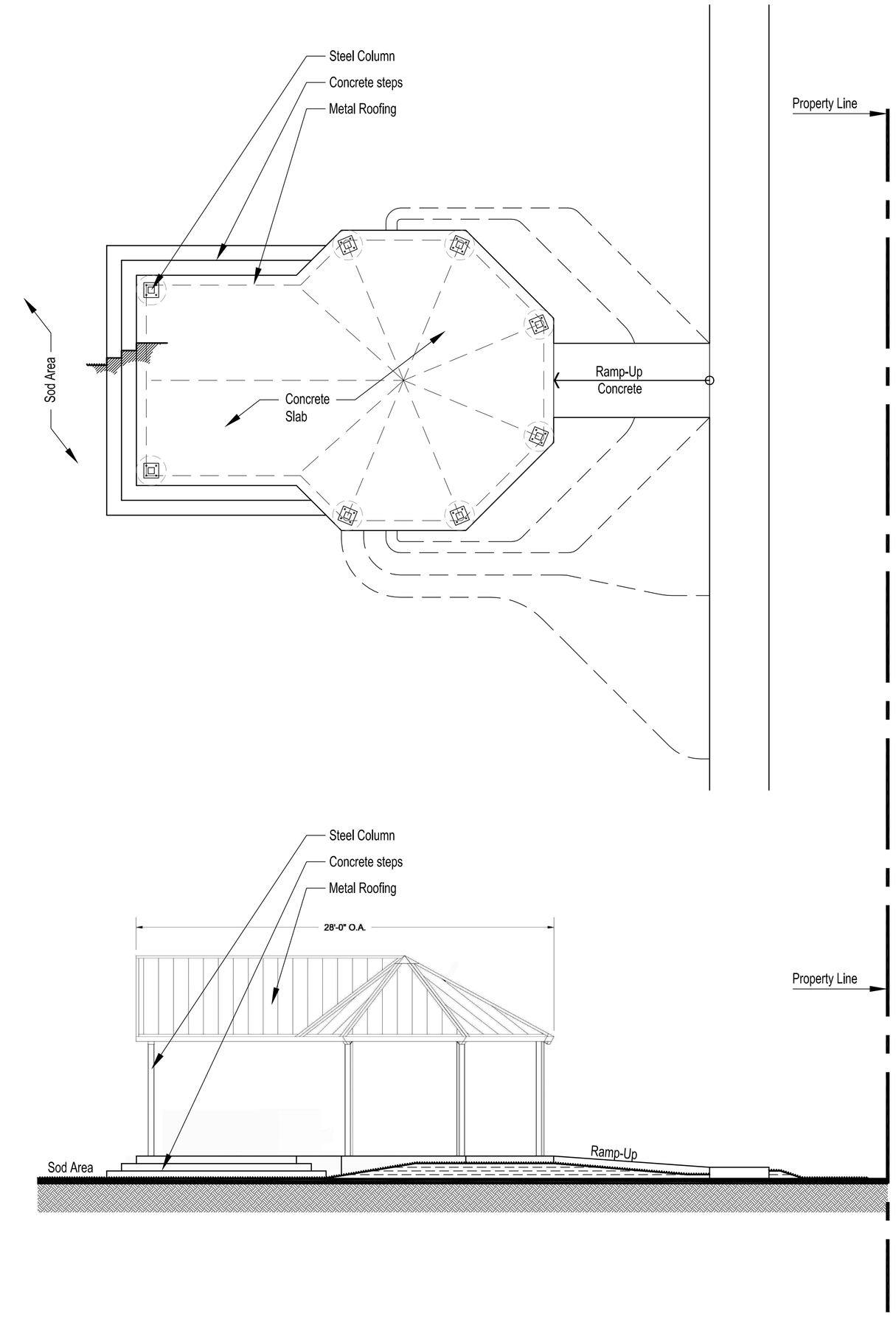
LAYOUT PLAN

Sheet No. L-3.0





General notes:

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3. Report any discrepancies between the construction drawings and field conditions to the Owner's Representative immediately.

1	LAYOUT PLAN		2	PERFORMANCE SHELTER DETAIL
L-3.1	SCALE: 3/32" = 1'-0"		L-3.1	SCALE: 3/16" = 1'-0"

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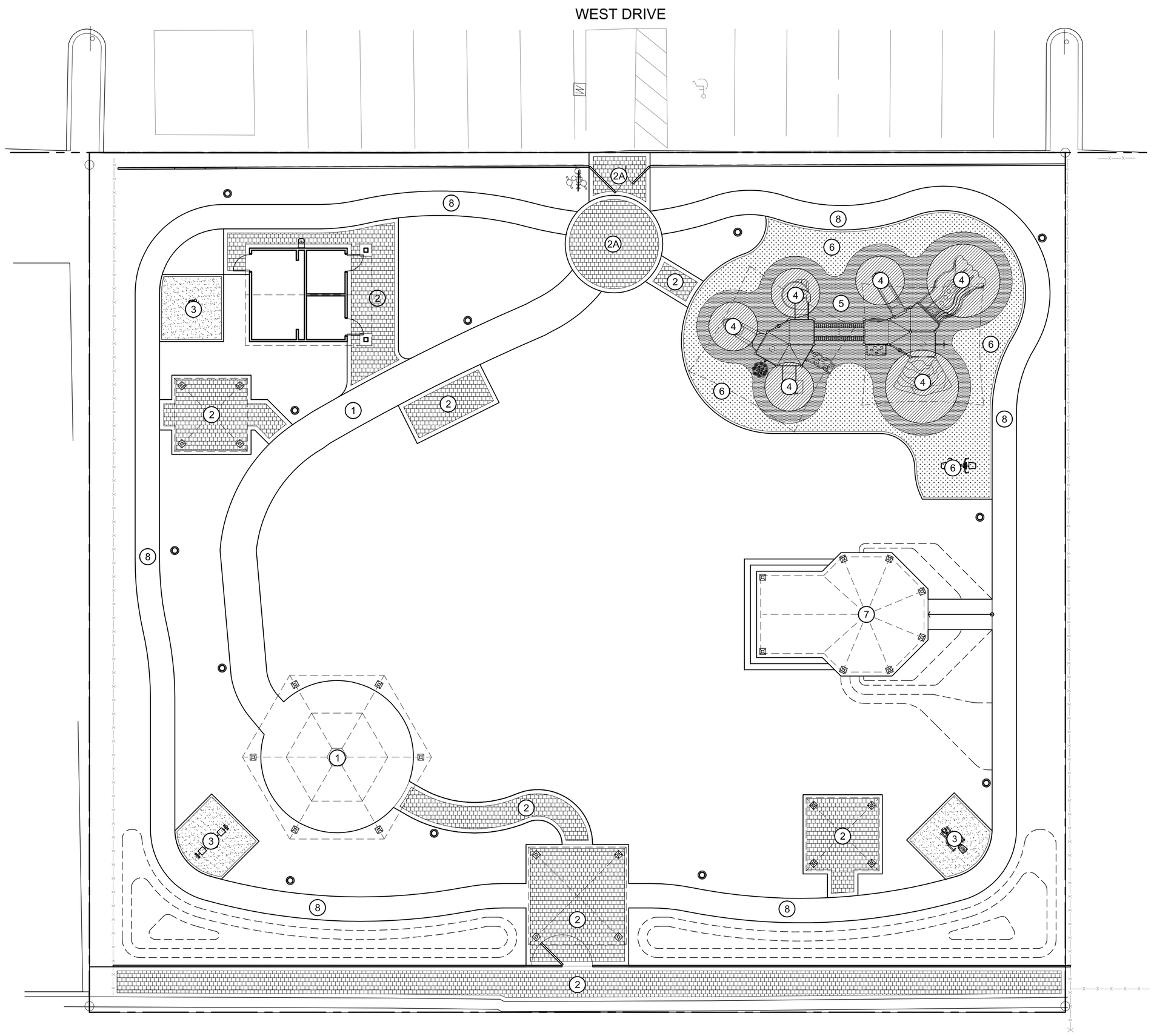
Sheet No. L-3.1

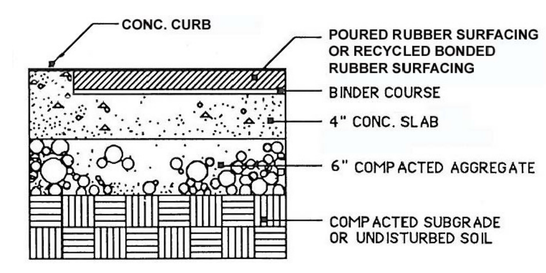


1	PAVING PLAN
L-4.0	SCALE: 3/32" = 1'-0"

PAVING MATERIAL SCHEDULE

NUMBER	SPECIFICATION	CONTACT
1	Existing Concrete Pavers to Remain	
2	8" x 8" x $2^{3/8"}$ and 4" x 8" x $2^{3/8"}$ Concrete Paver, Color and Pattern to Match existing pavers	Hanson Paver Products 1590 North Andrews Avenue Pompano Beach, Fl 33069 Jose E. Gonzalez Territory Manager 954.972.7400
2A	8" x 8" x $3^{1/8"}$ and 4" x 8" x $3^{1/8"}$ Concrete Paver, Color and Pattern to Match existing pavers	
3	GT-Impax Recycled Bonded Rubber Surfacing (Color: Tri-Color) / $2^{3/8"}$ min. thick over 4" thick concrete slab with Continuous 4" Wide Concrete Curb	drp Dominica Recreation Products Phone: 800-432-0162 Roy May Ext. 116 roym@gametime.com
4	GT-Impax - Poured Rubber Surfacing - 6' CFH (Color: Terra Cotta) / over 4" thick concrete slab	
5	GT-Impax - Poured Rubber Surfacing - 6' CFH (Color: Beige) / over 4" thick concrete slab	
6	GT-Impax - Poured Rubber Surfacing - 6' CFH (Color: Light Blue) / over 4" thick concrete slab with Continuous 4" Wide Concrete Curb	
7	Poured regular concrete w/medium broom or baking soda finish. Provide control joints and expansion joints. (see civil dwgs for details)	
8	Asphalt paving on Compacted Aggregate Base (500' / 0.1 mile Exercise Trail), (see civil dwgs for details)	

2	PAVING SCHEDULE
L-4.0	SCALE: N.T.S.



NOTE:
For additional information refer to Manufacture

3	RUBBER SURFACE DETAIL
L-4.0	SCALE: N.T.S.

NOTE:
For paving details refer to Civil Engineering drawings.

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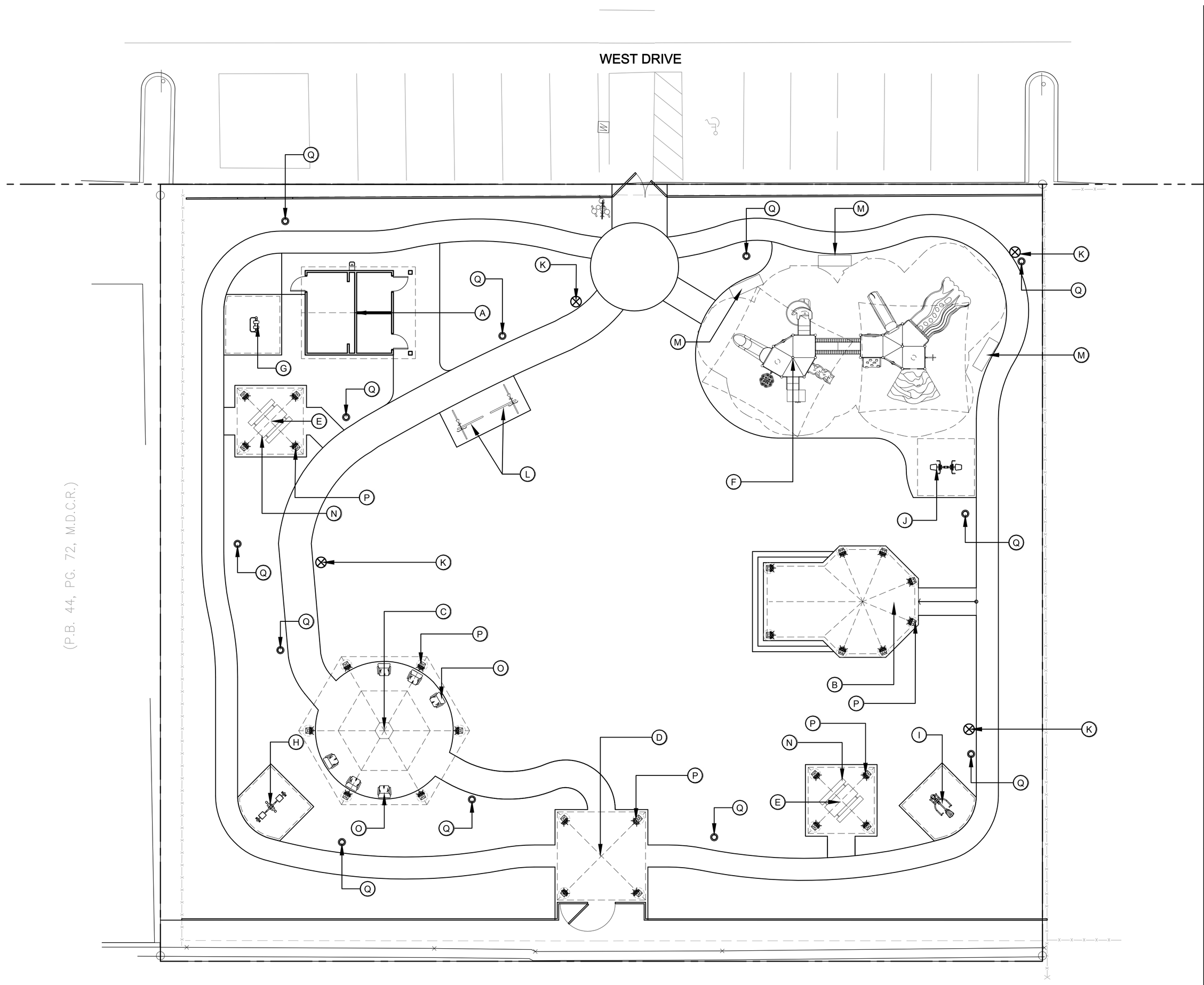
PAVING PLAN

Sheet No. L-4.0



SITE FURNITURE & LIGHTING SCHEDULE

SYMBOL	QUANTITY	TYPE	SPECIFICATIONS	CONTACT	COLOR
A	1	Prefabricated unisex restroom with storage	Prefabricated men and women restroom with storage, 16'-0" x 15'-4", covered entry and drinking fountain pedestal, stainless steel plumbing fixtures, air only had dryers, lights automatically turn off, automatically "No Touch" plumbing fixture and door opener's, anti-microbial stainless steel surface, antigraffiti exterior coat. Note: Building to have DCA (Department of Community Affairs) product certification for a premanufactured building in Miami-Dade County.	**The Public Restrooms Company** www.PublicRestroomCompany.com 888.888.2060 Fax 888.888.1448 Katie Kaufman	Roofing: Ash Gray metal, Exterior: split face concrete.
B	1	Performance Shelter	#CA2820, 28' X 20' Custom Cambria, 6:12 Roof Pitch, (8) Column Design, Syp Tongue and Groove Roof Decking, 26 Gauge Standing Seam Metal Roof, Laser Cut Lattice.	**KORKAT** Rep (Daytona) 947 Beville Rd. Suite 15 S. Daytona, FL 32119 Phone: (386) 322-7789 Fax: (386) 322-4289 erin@ettflorida.com www.korkat.com	Regal White Powder Coat Finish Steel Frame & Regal Blue Metal Roof
C	1	Hexagonal Shelter	#8031, 31' Hexagonal Steel Duo Top Shelter, 4:12 Roof Pitch, 7'6" Eave Height, (6) Column Design, 24 Gauge Standing Seam Metal Roof, Laser Cut Lattice, Powder Coat Finish.		
D	1	Lookout Shelter	#8116P, 16' Pittsburgh Square Shelter, 6:12 Roof Pitch, 7'6" Eave Height, (4) Column Design, 24 Gauge Standing Seam Metal Roof, Laser Cut Lattice, Powder Coat Finish		
E	2	Picnic Shelter	#8450, 12' X 12' Hipped Mini Shelter, (2) Post Design, 6:12 Roof Pitch, 24 Gauge Standing Seam Metal Roof, Powder Coat Finish		Regal White Powder Coat Finish Steel Frame & Ash Gray Metal Roof
F	1	Playground	GameTime / PowerScape Playground / Modified Climb n'Slide # 85236 Aluminum Uprights/ with two (2) 20'x20' SunBlox Fabric Sail Roof Built-in.	**drp** Dominica Recreation Products Phone: 800-432-0162 Roy May Ext. 116 roym@gametime.com	Metal Posts (Yellow), Accent Metal (Yellow), Plastic (Blue), Deck (Blue), MegaRock (Granite), Fabric SunBlox Roof (Lower Turquoise) and Upper Royal Blue)
G	1	Exercise Station	Cardio Walker / M:13167		Metal Posts (Blue), Accent Metal (Beige)
H	1	Exercise Station	Seated Chest Press / M:13164		
I	1	Exercise Station	Seated Leg Press / M:13165		
J	1	Exercise Station	Rowing Machine / M:13163		
K	4	Trash Receptacle	UltraPlay, Park Furnishings, Surface Mount, Trash Receptacle Model: LX-36RB Rain Bonnet with Cable / Powder Coated Finish.		Dark Grey
L	2	Bike Rack	UltraPlay, Park Furnishings, 5' Loop Bike Rack / Capacity 7 / Model: 5805 / Inground Mount / Powder Coated Finish.		Dark Grey
M	3	Bench	UltraPlay, Park Furnishings, Surface Mount, Hamilton Bench Model: 92C-S6 / Powder Coated Finish.		Dark Grey
N	2	Picnic Table	UltraPlay, Park Furnishings, Surface Mount, Single Pedestal Picnic table Model: 337-CDR6.		Cedar- Reclycled Plastic & Dark Grey
O	6	Rocking Chair	Captiva Adirondack Rocker Chair - 4625 SKU# XSH1025 / with cable	Shine Company Inc. EveryRockingChair.com	Light Blue
P	26	Ceiling Wash	Allscape / FL-12 / 26 CF / 120 / BK	The MLS Group 7035A SW 47th Street Miami, Florida 33155 Tel.: (305) 666-4210 ext. 118 Roy Bustillo, LC	Black
Q	12	Area Light	Lumec / LEN4-90W49LED4K-3-208-LEDB-BKTX-14GY3TX		GY3TX Textured Medium Grey

1	SITE FURNITURE + LIGHTING PLAN
L-5.0	SCALE: 3/32" = 1'-0"

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Revisions:

No.	Date	Description
1	May 18, 2010	Derm / Fire Review Comments

Project Name:

Dr. Paul Vogel Community Park

CITY OF NORTH BAY VILLAGE

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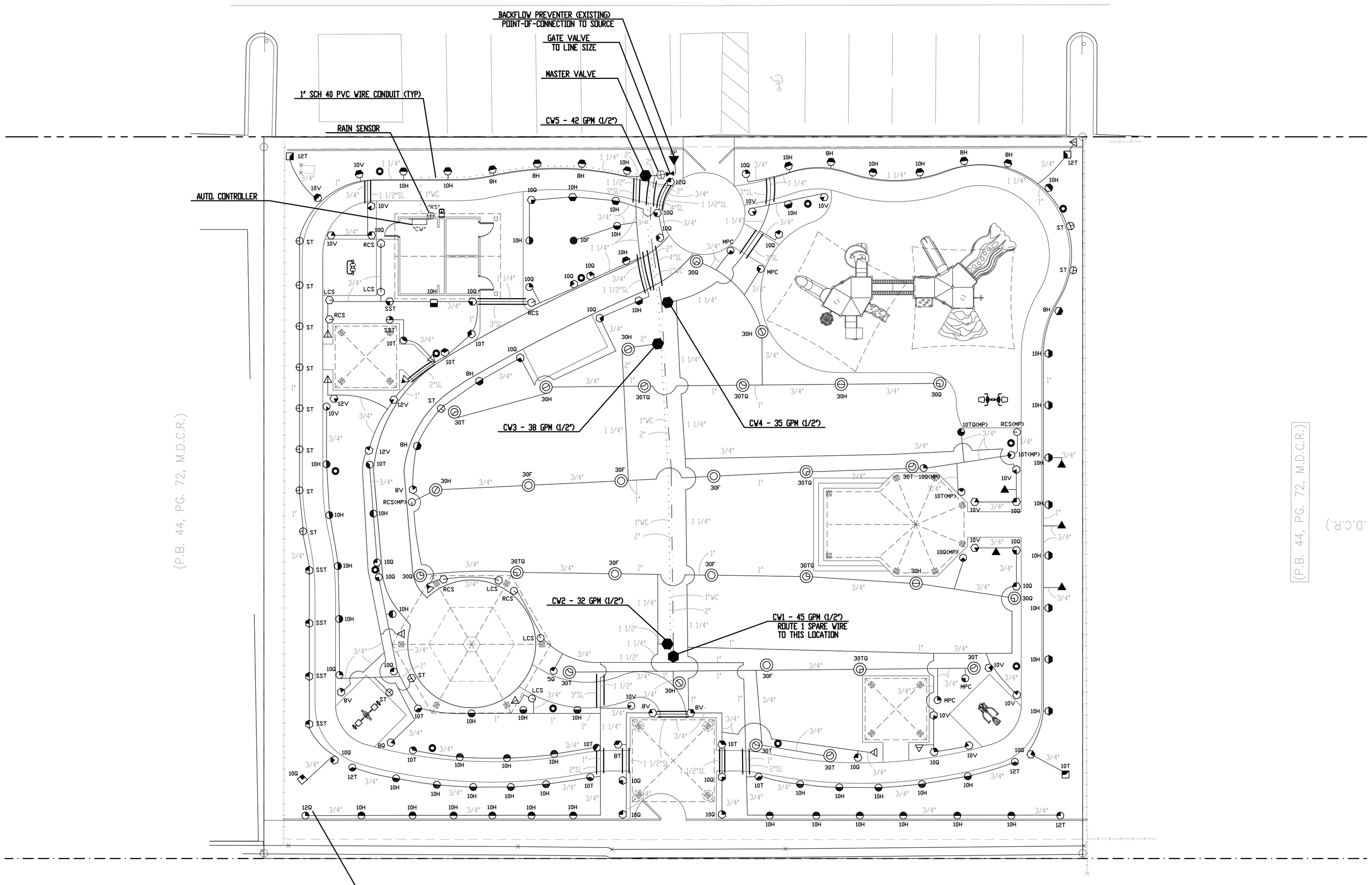
SITE FURNITURE & LIGHTING PLAN

Sheet No. L-5.0



RECOMMENDED NOZZLE (TYP)
SELECT AND ADJUST ON SITE
TO INSURE PROPER COVERAGE
AND APPLICATION RATE

TYPICAL ZONE SUMMARY
CV - CONTROLLER
1 - STATION
45 - EST. WATER USE
1 1/2" - VALVE SIZE

1	IRRIGATION PLAN
L-6.0	SCALE: 3/32" = 1'-0"

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IRRIGATION PLANS

Project. No.
Scale:
Date: March 22, 2010
Drawn:
Checked:
CADD File:

Drawing Title:

IRRIGATION PLAN

Sheet No. IR-1.0

LEGEND

SYMBOL	MODEL NO.	DESCRIPTION	* EST. QUANTITY
	570S-FB-100PC	TORO FLOOD BUBBLER	05
	570S-SB-90	TORO STREAM BUBBLER	01
	570S-SB-180	TORO STREAM BUBBLER	03
	570S-SB-2S-180	TORO STREAM BUBBLER	04
10Q	570S-10Q	TORO SHRUB SPRAY	01
10T	570S-10T	TORO SHRUB SPRAY	01
10H	570S-10H	TORO SHRUB SPRAY	01
12T	570S-12T	TORO SHRUB SPRAY	02
5Q	570Z-6P-XF-5Q	TORO 6' POP-UP SPRAY/SPRAY NOZZLE	01
10V	570Z-6P-XF-10V	TORO 6' POP-UP SPRAY/SPRAY NOZZLE	03
10Q	570Z-6P-XF-10Q	TORO 6' POP-UP SPRAY/SPRAY NOZZLE	05
10T	570Z-6P-XF-10T	TORO 6' POP-UP SPRAY/SPRAY NOZZLE	06
10H	570Z-6P-XF-10H	TORO 6' POP-UP SPRAY/SPRAY NOZZLE	36
10F	570Z-6P-XF-10F	TORO 6' POP-UP SPRAY/SPRAY NOZZLE	01
12T	570Z-6P-XF-12T	TORO 6' POP-UP SPRAY/SPRAY NOZZLE	04
RCS	570Z-6P-XF-4RCS	TORO 6' POP-UP SPRAY/SPRAY NOZZLE	02
LCS	570Z-6P-XF-4LCS	TORO 6' POP-UP SPRAY/SPRAY NOZZLE	01
SST	570Z-6P-XF-4SST	TORO 6' POP-UP SPRAY/SPRAY NOZZLE	01
ST	570Z-6P-XF-4SSST	TORO 6' POP-UP SPRAY/SPRAY NOZZLE	10
8V	570Z-12P-XF-8V	TORO 12' POP-UP SPRAY/SPRAY NOZZLE	03
8Q	570Z-12P-XF-8Q	TORO 12' POP-UP SPRAY/SPRAY NOZZLE	01
8T	570Z-12P-XF-8T	TORO 12' POP-UP SPRAY/SPRAY NOZZLE	01
8H	570Z-12P-XF-8H	TORO 12' POP-UP SPRAY/SPRAY NOZZLE	07
10V	570Z-12P-XF-10V	TORO 12' POP-UP SPRAY/SPRAY NOZZLE	10
10Q	570Z-12P-XF-10Q	TORO 12' POP-UP SPRAY/SPRAY NOZZLE	22
10T	570Z-12P-XF-10T	TORO 12' POP-UP SPRAY/SPRAY NOZZLE	04
10H	570Z-12P-XF-10H	TORO 12' POP-UP SPRAY/SPRAY NOZZLE	19
12V	570Z-12P-XF-12V	TORO 12' POP-UP SPRAY/SPRAY NOZZLE	03
12Q	570Z-12P-XF-12Q	TORO 12' POP-UP SPRAY/SPRAY NOZZLE	01
RCS	570Z-12P-XF-4RCS	TORO 12' POP-UP SPRAY/SPRAY NOZZLE	03
LCS	570Z-12P-XF-4LCS	TORO 12' POP-UP SPRAY/SPRAY NOZZLE	02
SST	570Z-12P-PRX-4SST	TORO 12' POP-UP SPRAY/SPRAY NOZZLE	05
ST	570Z-12P-PRX-4SSST	TORO 12' POP-UP SPRAY/SPRAY NOZZLE	02
10QMP)	570Z-6P-XF-MP1000HT-90	TORO 6' POP-UP SPRAY/MP ROTOR NOZZLE	01
10TQMP)	570Z-6P-XF-MP1000HT-120	TORO 6' POP-UP SPRAY/MP ROTOR NOZZLE	02
10TQUMP)	570Z-6P-XF-MP1000HT-270	TORO 6' POP-UP SPRAY/MP ROTOR NOZZLE	01
MPC	570Z-6P-HT-MPCORNER	TORO 6' POP-UP SPRAY/MP ROTOR NOZZLE	04
RCSQMP)	570Z-6P-HT-MPRCS515	TORO 6' POP-UP SPRAY/MP ROTOR NOZZLE	02
30Q	570Z-6P-XF-MP3000HT-90	TORO 6' POP-UP SPRAY/MP ROTOR NOZZLE	04
30T	570Z-6P-XF-MP3000HT-120	TORO 6' POP-UP SPRAY/MP ROTOR NOZZLE	07
30H	570Z-6P-XF-MP3000HT-180	TORO 6' POP-UP SPRAY/MP ROTOR NOZZLE	06
30TQ	570Z-6P-XF-MP3000HT-270	TORO 6' POP-UP SPRAY/MP ROTOR NOZZLE	06
30F	570Z-6P-XF-MP3000HT-360	TORO 6' POP-UP SPRAY/MP ROTOR NOZZLE	06
	252-26-06	TORO 1 1/2' SOLENOID VALVE	06
"CV"	TMC-424E-ID-8	TORO AUTOMATIC CONTROLLER (8 STATION)	01
"RS"	TWRS	TORO RAIN SENSOR	01
NOT SHOWN		PAIGE UF WIRE #14 AWG VALVE CONTROL #12 AWG VALVE COMMON	AS REQUIRED
NOT SHOWN		SCH 40 GALVANIZED STEEL	AS REQUIRED
		SCH 40 PVC MAIN LINE LATERALS SLEEVES SHRUB RISERS	AS REQUIRED
NOT SHOWN		PVC FITTINGS WIRE CONDUIT	
		GATE VALVE (TO LINE SIZE)	01
		VALVE BOX	06
		GROUDING LOCATION	01
BP		BACKFLOW PREVENTER	EXISTING

NOTE: ABOVE QUANTITIES ARE FOR COMPARISON ONLY.
CONTRACTOR SHALL VERIFY PRIOR TO SUBMITTING BID.

ZONE SUMMARY CHART

STA NO.	VALVE	PLANT TYPE	SPRINKLER TYPE	VALVE SIZE	WATER DEMAND	*TIME	RUN	WEEKLY USAGE
1	CW1	SOD	SPRAY	1 1/2'	45 GPM	60 MIN/WK	2,700	GAL/WK
2	CW2	SOD	MP ROTOR	1 1/2'	32 GPM	180 MIN/WK	5,760	GAL/WK
3	CW3	SOD	MP ROTOR	1 1/2'	38 GPM	180 MIN/WK	6,840	GAL/WK
4	CW4	SHRUB	SPRAY	1 1/2'	35 GPM	60 MIN/WK	2,100	GAL/WK
5	CW5	SHRUB	SPRAY	1 1/2'	42 GPM	60 MIN/WK	2,520	GAL/WK
6-8	SPARE							
							19,920	GAL/WK

* TO APPLY 1.5 IN/WK

IRRIGATION NOTES & SPECIFICATIONS

AUTOMATIC IRRIGATION SYSTEM
WATER DEMAND / ZONE — REFER TO PLAN
WATER SOURCE — CITY WATER
PRESSURE REQUIRED — 50 PSI

GENERAL

IRRIGATION SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES, CONTRACT DRAWINGS, AND CONTRACT SPECIFICATIONS.

IRRIGATION DESIGN BASED ON "PLANTING PLAN" DATED FEBRUARY 2010. CONTRACTOR SHALL REFER TO THIS PLAN TO COORDINATE SPRINKLER LOCATIONS AND PIPE ROUTING WITH NEW AND EXISTING PLANT LOCATIONS.

THIS IRRIGATION PLAN SHALL BE USED AS A GUIDE ONLY. CONTRACTOR SHALL INSTALL IRRIGATION TO MATCH ON SITE CONDITIONS AND TO OVERCOME THE INHERENT INACCURACIES THAT RESULT WHEN DESIGNING FROM BASE PLANS SCALED AT 3/32"=1'0".

THIS IRRIGATION HAS BEEN DESIGNED AS A TYPICAL BLOCK VALVE TYPE USING TORO SPRAY SPRINKLERS, IN-LINE VALVES, AND CONTROL SYSTEM. WATER CONSERVATION EQUIPMENT SHALL BE INSTALLED.

THE SOURCE SHALL BE AN EXISTING 1 1/2" CITY WATER METER. CONTRACTOR SHALL VERIFY THAT CITY PRESSURE IS MAINTAINED ABOVE 50 PSI WHEN IRRIGATION IS PROGRAMMED TO OPERATE.

BACKFLOW PREVENTION SHALL BE INSTALLED TO MEET LOCAL CODE REQUIREMENTS FOR CROSS CONNECTION CONTROL. THE BACKFLOW PREVENTER IS EXISTING.

A MASTER VALVE SHALL BE INSTALLED AT THE SOURCE TO DEPRESSURIZE THE MAIN LINE WHEN THE SYSTEM IS NOT IN USE. THIS VALVE SHALL BE ACTIVATED BY THE CONTROLLER.

CONTRACTOR IS ADVISED TO VISIT THE SITE TO BECOME FAMILIAR WITH ON SITE CONDITIONS, AND TO REFER TO THE PLAN FOR ADDITIONAL INFORMATION.

TO ENSURE PROPER OPERATION, PRESSURE REQUIRED, SOURCE SIZE, VALVE SIZES, ZONE CAPACITIES, SPRINKLER SPACING, PIPE AND WIRE SIZES, INSTALLATION NOTES AND DETAILS, AND SPECIFICATIONS SHALL BE FOLLOWED AS SHOWN.

PIPING

PIPE ROUTING IS SCHEMATIC ONLY AND SHALL BE ADJUSTED FOR ON SITE CONDITIONS.

PIPE SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND PIPE MANUFACTURER'S INSTRUCTIONS.

PIPE ROUTED UNDER HARDSCAPED AREAS SHALL BE SLEEVED IN SCH 40 PVC. EACH SLEEVE SHALL: (1) BE BURIED TO A MINIMUM DEPTH OF 18", (2) BE TWO PIPE SIZES LARGER THAN CARRIER PIPE, AND (3) EXTEND 3' BEYOND HARDSCAPED AREA ON EACH END. CONTRACTOR SHALL VERIFY THE SIZE, DEPTH AND LOCATION OF ALL EXISTING SLEEVES.

PIPE AND FITTINGS INSTALLED ABOVE GRADE AT THE BACKFLOW PREVENTER SHALL BE SCH 40 GALVANIZED STEEL. ALL OTHER PIPE AND FITTINGS SHALL BE SCH 40 TYPE 1120 PVC.

PIPE SIZED TO LIMIT FLOW VELOCITIES TO 5 FEET/SECOND AND TO LIMIT FRICTION LOSS IN THE PIPING NETWORK.

PIPE SHALL BE INSTALLED AT SUFFICIENT DEPTH BELOW GROUND TO PROTECT IT FROM HAZARD SUCH AS VEHICULAR TRAFFIC OR ROUTINE OCCURRENCES WHICH OCCUR IN THE NORMAL USE AND MAINTENANCE OF THE PROPERTY. DEPTHS OF COVER SHALL MEET OR EXCEED SCS CODE 430-DD. REFER TO THE APPLICABLE DETAIL FOR ADDITIONAL INFORMATION.

BACKFILL SHALL BE OF SUITABLE MATERIAL, FREE OF ROCKS, STONES, AND OTHER DEBRIS THAT WOULD DAMAGE IRRIGATION SYSTEM COMPONENTS.

A GATE VALVE SHALL BE INSTALLED FOR ISOLATION. THIS VALVE SHALL BE TO LINE SIZE AND INSTALLED IN A VALVE BOX. POROUS MATERIAL SHALL BE INSTALLED PER BOX TO PROMOTE DRAINAGE.

SPRINKLERS

SPRINKLER LOCATIONS ARE SCHEMATIC ONLY AND SHALL BE ADJUSTED FOR LANDSCAPING, SITE LIGHTING, PREVAILING WIND, UTILITIES, ETC., TO ENSURE PROPER COVERAGE WITH MINIMAL UNDESIRABLE OVERTHROW. A PRIME OBJECTIVE SHALL BE TO ELIMINATE UNDESIRABLE OVERTHROW.

SPRINKLERS SHALL BE TORO 570 SERIES. SIX INCH POP-UP TYPE SHALL BE INSTALLED IN AREAS LANDSCAPED WITH SOD AND MULCH, 12" POP-UP TYPE SHALL BE INSTALLED IN AREAS LANDSCAPED WITH GROUND COVER AND LOW SHRUBS. SHRUB HEADS SHALL BE INSTALLED IN AREAS LANDSCAPED WITH TALL SHRUBS, AND BUBBLERS SHALL BE INSTALLED AT ROYAL PALMS AND IN NARROW LANDSCAPED AREAS.

POP-UP SPRINKLERS LOCATED IN SOD AND LOW GROUND COVER SHALL BE INSTALLED ON PVC SWING JOINTS CONSISTING OF MARLEX STREET ELBOWS AND SCH 80 NIPPLES.

POP-UP SPRINKLERS LOCATED IN LOW SHRUBS SHALL BE INSTALLED ON PVC SWING JOINTS WITH 1/2" SCH 40 PVC RISERS TO A HEIGHT SO SPRINKLERS ARE CONCEALED FROM VIEW EXCEPT DURING USE.

SHRUB HEADS AND BUBBLERS SHALL BE INSTALLED ON 1/2 SCH 40 PVC RISERS. SHRUB HEADS SHALL BE INSTALLED TO A STANDARD HEIGHT OF 6" ABOVE PLANTS AND SHALL BE LOCATED WITHIN PLANTS TO CONCEALED FROM VIEW. BUBBLERS SHALL BE INSTALLED AT THE BASE OF TALL SHRUBS AND PALMS FOR LOW LEVEL WATERING. RISERS SHALL BE BLACK TO BE LESS VISIBLE.

EACH SPRAY HEAD SHALL BE EQUIPPED WITH THE APPROPRIATE MPR NOZZLE AND X-FLOW FEATURE.

SPRINKLERS SHALL BE INSTALLED AND MAINTAINED AT THE PROPER HEIGHT TO ELIMINATE THE CHANCE OF INJURY AND TO MINIMIZE OVERTHROW ONTO PAVEMENT.

ADJUSTMENT FEATURES OF SPRINKLERS SPECIFIED SHALL BE UTILIZED TO ENSURE PROPER COVERAGE WITH MINIMAL UNDESIRABLE OVERTHROW. LOW ANGLE, FLAT SPRAY, AND ADJUSTABLE ARC NOZZLES SHALL BE USED TO MINIMIZE OVERTHROW.

SPRINKLERS LOCATED ADJACENT TO HARDSCAPED AREAS SHALL BE INSTALLED AWAY FROM HARDSCAPED AREAS TO MINIMIZE OVERTHROW AND THE CHANCE OF DAMAGE BY VEHICLES, PEDESTRIANS, AND LAWN MAINTENANCE PERSONNEL. AS A GENERAL RULE, POP-UP SPRAY HEADS SHALL BE INSTALLED IN 4" AND SHRUB HEADS AND 12" POP-UP HEADS SHALL BE INSTALLED IN 12". REFER TO INSTALLATION DETAILS FOR MORE INFORMATION.

CONTROL SYSTEM

A TORO TMC SERIES 24 VOLT ELECTRIC CONTROL SYSTEM HAS BEEN SPECIFIED. ONE 8 STATION CONTROLLER SHALL ACTIVATE FIVE IN-LINE VALVES AND A MASTER VALVE. ONE IN-LINE VALVE SHALL BE CONTROLLED PER STATION. A RAIN SENSOR SHALL BE INSTALLED TO CONSERVE WATER.

CONTROLLER SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND MANUFACTURER'S INSTRUCTIONS. PROPER GROUNDING FOR PROTECTION FROM LIGHTNING SHALL BE ESTABLISHED.

CONTROLLER LOCATION SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE. A 110 VAC ELECTRIC SOURCE IS REQUIRED AT EACH LOCATION.

CONTROL LINES FROM AUTOMATIC CONTROLLER TO IN-LINE AUTOMATIC VALVES SHALL BE #14 AWG UNDERGROUND FEED TYPE WHICH SHALL BE: (1) INSTALLED IN ACCORDANCE WITH LOCAL CODES, (2) INSTALLED IN WIRE CONDUIT THROUGHOUT, (3) BURIED TO THE DEPTH OF THE MAIN LINE, (4) COLOR CODED TO FACILITATE TROUBLESHOOTING, AND (5) SPLICED MOSTLY AT VALVE LOCATIONS. SPLICES SHALL BE MADE WATERPROOF USING APPROVED METHODS. SPARE WIRES SHALL BE ROUTED FROM THE CONTROLLER IN ALL DIRECTIONS TO THE FARTHEST VALVES CONTROLLED.

AN INDIVIDUAL CONTROL WIRE SHALL BE ROUTED TO EACH VALVE AND VALVES WHICH OPERATE SIMULTANEOUSLY SHALL BE TEED TOGETHER AT THE CONTROLLER.

AUTOMATIC VALVE LOCATIONS ARE SCHEMATIC ONLY AND SHALL BE ADJUSTED FOR ON SITE CONDITIONS. EACH VALVE SHALL BE INSTALLED IN A VALVE BOX. A MINIMUM OF ONE CUBIC FOOT OF GRAVEL SHALL BE PROVIDED PER BOX TO PROMOTE DRAINAGE.

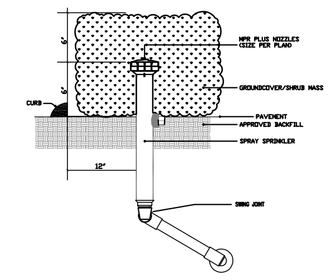
WATER CONSERVATION EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. THE RAIN SENSOR SHALL BE PLACED ON A STATIONARY STRUCTURE, MINIMUM OF 5' CLEARANCE FROM OTHER OUTDOOR EQUIPMENT, FREE AND CLEAR OF ANY TREE CANOPY OR OTHER OVERHEAD OBSTRUCTION, AND ABOVE THE HEIGHT OF SPRINKLER COVERAGE.

TIMING AND PRECIPITATION

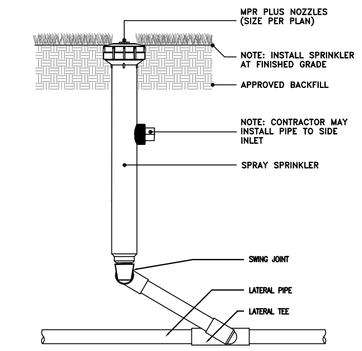
TIMING OF EACH STATION SHALL BE SET IN THE FIELD TO MATCH LOCAL REQUIREMENTS. REFER TO ZONE SUMMARY CHART FOR RECOMMENDED RUN TIMES TO APPLY 1.5 INCHES/WEEK.

PROGRAMMING

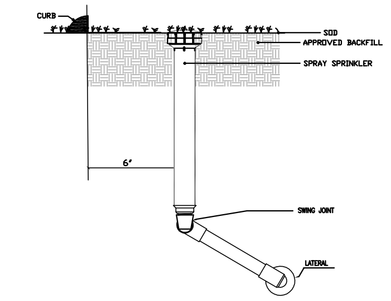
SYSTEM SHALL BE PROGRAMMED TO INSURE IRRIGATION IS COMPLETED WITHIN THE GUIDELINES FOR PHASE II WATER RESTRICTIONS.



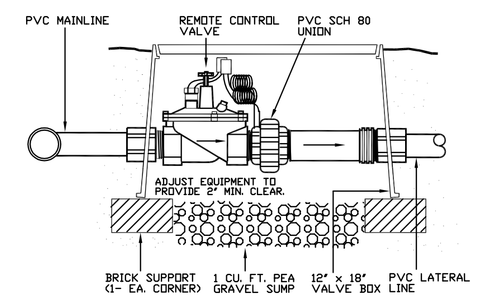
SPRINKLER LOCATION DETAIL (12" POP-UP)
NOT TO SCALE



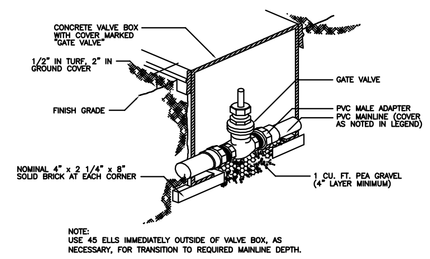
12" POP-UP SPRINKLER ON PVC SWING JOINT
NOT TO SCALE



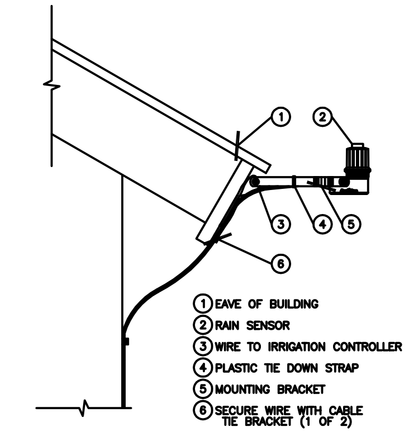
SPRINKLER LOCATION DETAIL (6" POP-UP)
NOT TO SCALE



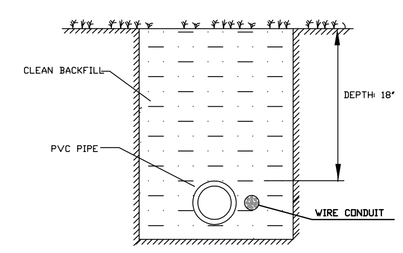
REMOTE CONTROL VALVE DETAIL
NOT TO SCALE



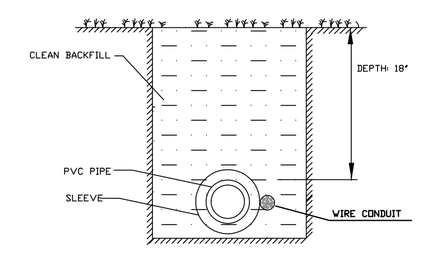
GATE VALVE DETAIL
NOT TO SCALE



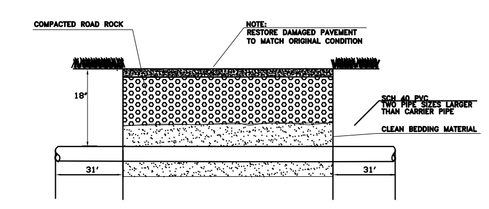
RAIN SENSOR
NOT TO SCALE



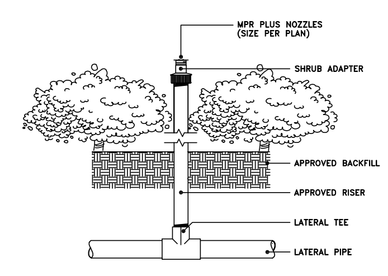
TRENCHING DETAIL
NON-VEHICLE TRAFFIC AREA
NOT TO SCALE



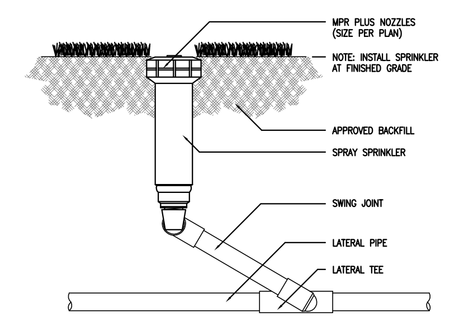
TRENCHING DETAIL
VEHICLE TRAFFIC AREA
NOT TO SCALE



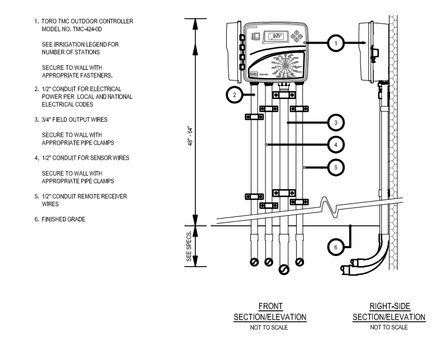
PIPE SLEEVE DETAIL
NOT TO SCALE



SHRUB/BUBBLER SPRINKLER
NOT TO SCALE



POP-UP SPRINKLER ON PVC SWING JOINT
NOT TO SCALE



TORO TMC-424 CONTROLLER
NOT TO SCALE

BERMELLO • AJAMIL & PARTNERS • INC
Architecture Engineering Planning
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Revisions:

No.	Date	Description

Project Name:

Dr. Paul Vogel Community Park
CITY OF NORTH BAY VILLAGE
IRRIGATION PLANS

Project. No.
Scale:
Date: March 22, 2010
Drawn:
Checked:
CADD File:

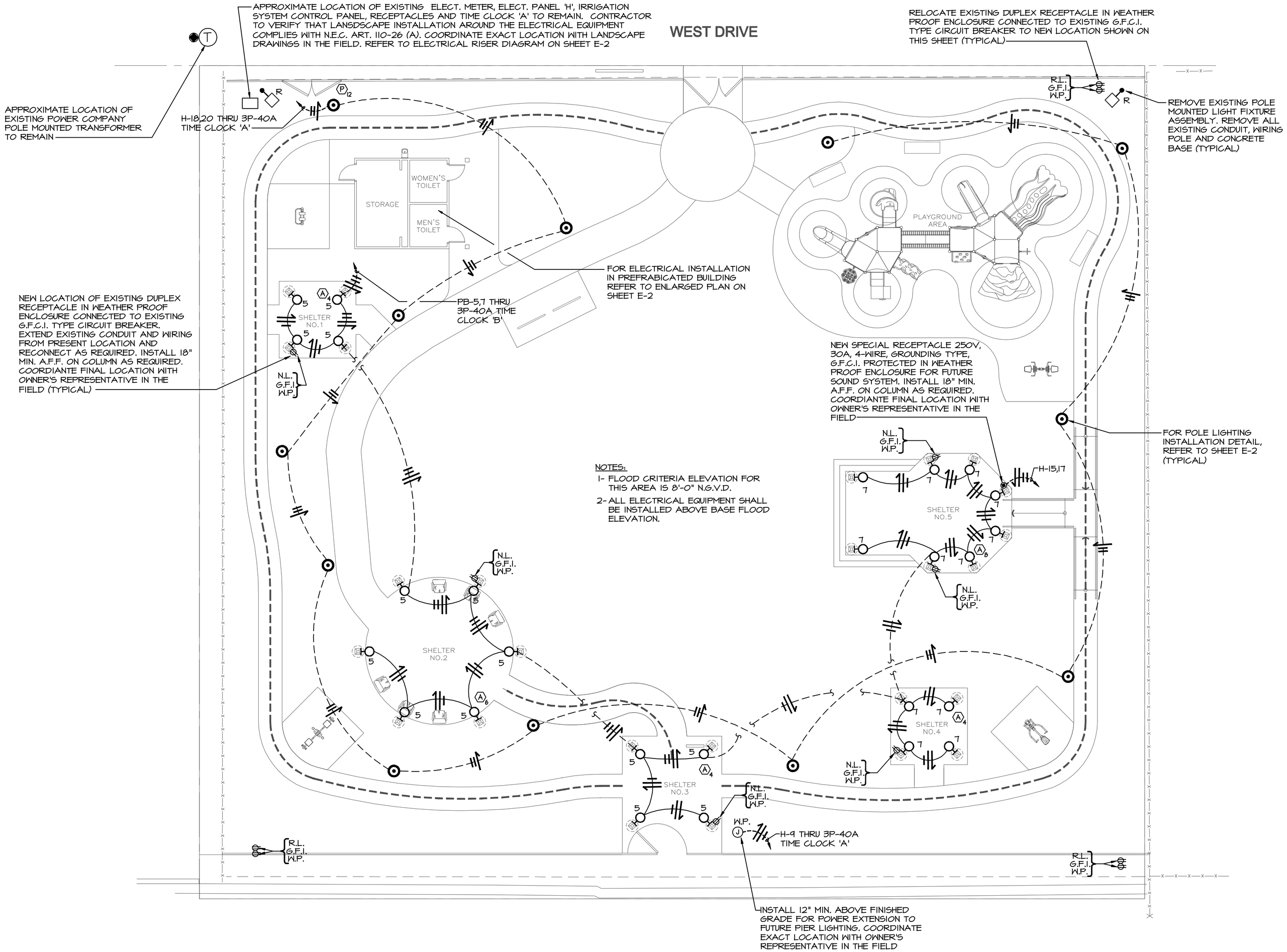
Drawing Title:

IRRIGATION NOTES AND DETAILS

Sheet No. IR-1.1

Photometric Calculation (See Note)					
Label	**Units**	**Avg**	**Max**	**Min**	**Max/Min**
Walkways	Fc	2.39	4.91	0.61	8.05

NOTE:
PHOTOMETRIC CALCULATION FOR WALKWAYS ILLUMINATION IS BASED ON LED LIGHT FIXTURE TYPE MANUFACTURED BY LUMEC CAT. NO. LEN4-40. REFER TO LANSCAPE SHEET L-5.0 FOR EXACT DESCRIPTION AND SPECIFICATION. CONTRATOR MUST INCLUDE WALKWAY PHOTOMETRIC CALCULATIONS WITH SHOP DRAWING SUBMITTAL FOR LIGHT FIXTURE TYPE 'P', IF CONTRACTOR DECIDES TO SUBSTITUTE THESE LIGHT FIXTURES TYPES.



ELECTRICAL SITE PLAN
SCALE: 1" = 10'-0"

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Revisions:

No.	Date	Description

Project Name:

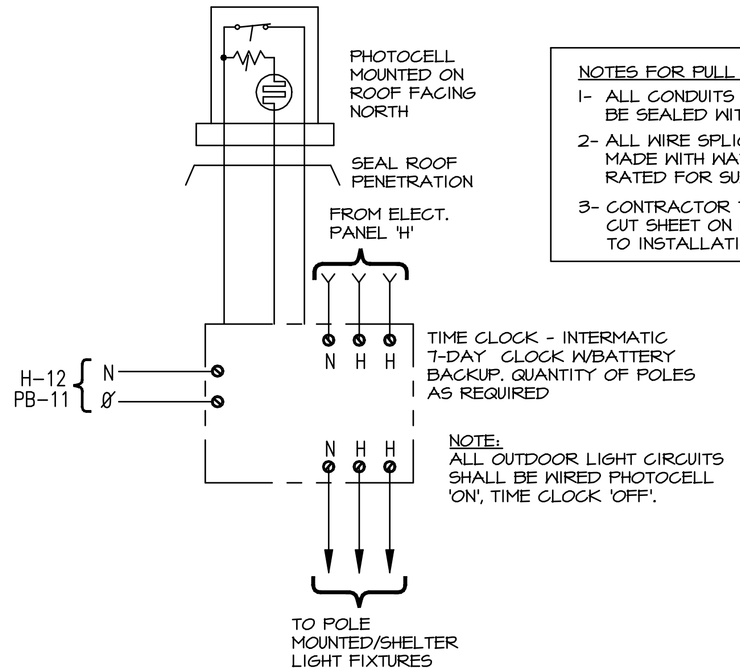
Dr. Paul Vogel Community Park
CITY OF NORTH BAY VILLAGE
LANDSCAPE PLANS

Comm. No. 29064.000
Scale: AS SHOWN
Date: March 22, 2010
Drawn: J.A.R.
Checked: N.V.
CADD File:

Drawing Title:

ELECTRICAL SITE PLAN

Sheet No. E-1

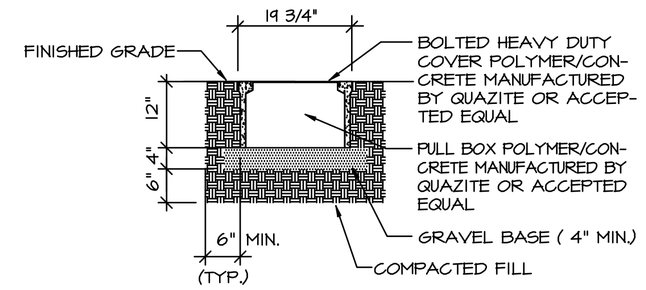


NOTE:
ALL OUTDOOR LIGHT CIRCUITS SHALL BE WIRED PHOTOCELL 'ON', TIME CLOCK 'OFF'.

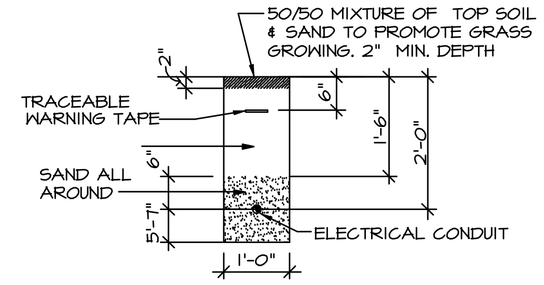
EXTERIOR LIGHTING WIRING DIAGRAM
N.T.S.

NOTES FOR PULL BOXES:

1- ALL CONDUITS INSIDE PULL BOXES SHALL BE SEALED WITH WATER TIGHT COMPOUND.
2- ALL WIRE SPLICING INSIDE PULL BOXES SHALL MADE WITH WATER-PROOF WIRE SPLICING CKTS. RATED FOR SUBMERSIBLE USE.
3- CONTRACTOR TO SUBMIT MANUFACTURER CATALOG CUT SHEET ON PRODUCT FOR APPROVAL PRIOR TO INSTALLATION.



PULL BOX SECTION
N.T.S.



NON-PAVED TRENCH SECTION
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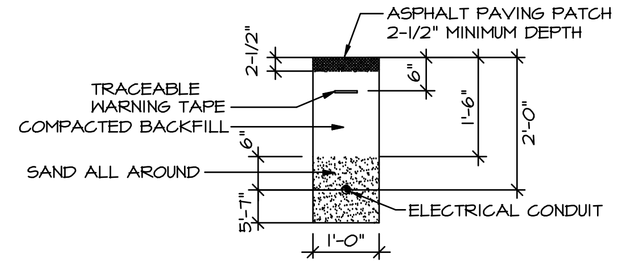
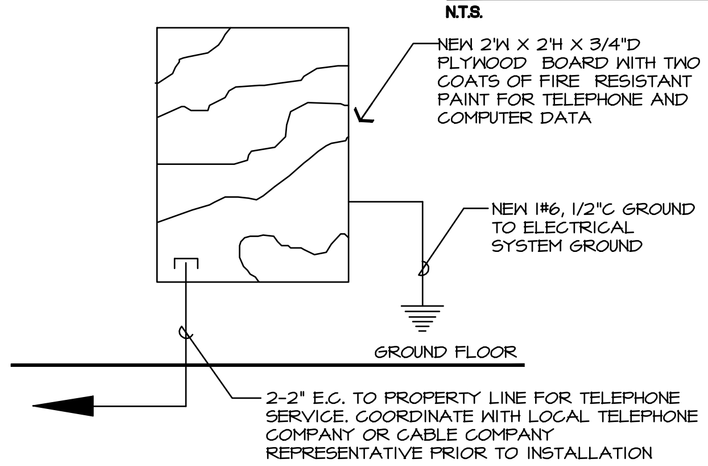
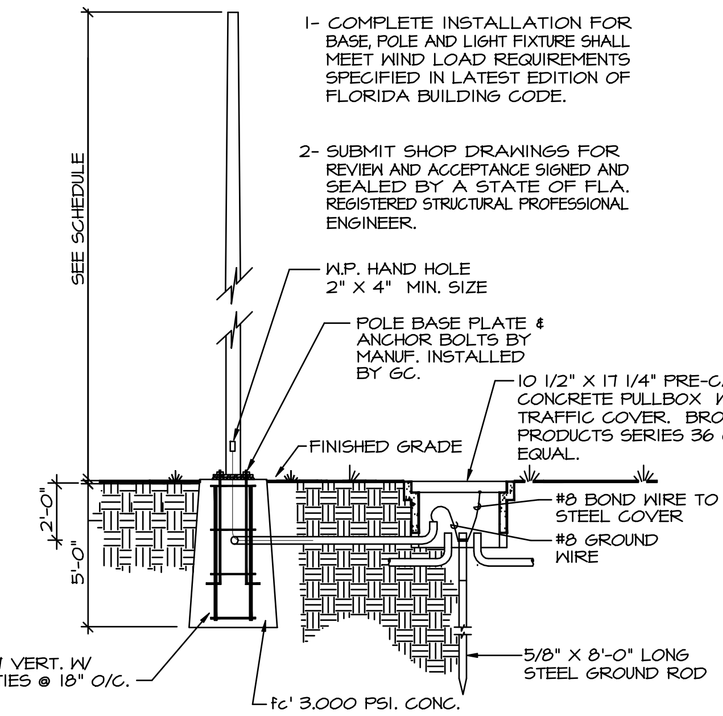


PAVED TRENCH SECTION
N.T.S.



TELEPHONE RISER DIAGRAM
N.T.S.



NOTES:

1- COMPLETE INSTALLATION FOR BASE, POLE AND LIGHT FIXTURE SHALL MEET WIND LOAD REQUIREMENTS SPECIFIED IN LATEST EDITION OF FLORIDA BUILDING CODE.
2- SUBMIT SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE SIGNED AND SEALED BY A STATE OF FLA. REGISTERED STRUCTURAL PROFESSIONAL ENGINEER.

LIGHTING STANDARD POLE DETAIL
N.T.S.

NOTES:

1- CONTRACTOR SHALL MODIFY ELECTRICAL INSTALLATION AS REQUIRED TO MATCH INFORMATION SHOWN ON ELECTRICAL RISER DIAGRAM.
2- MAIN CIRCUIT BREAKERS AND/OR MAIN DISCONNECT SWITCHES, ELECT. METER AND ELECTRICAL PANELS SHALL BE LOCATED ABOVE BASE FLOOD ELEVATION.
3- PROVIDE GROUNDING AND BONDING AT PREFABRICATED BUILDING IN ACCORDANCE TO N.E.C. ART. 250.32.

EXIST. PANEL 'H'

TYPE:
VOLTAGE: 120/240 VOLTS
SERVICE: 1Ø, 3W
MOUNTING: SURFACE (NEMA 3R ENCLOSURE)
(10,000 A.I.C.)
(ALL CIRCUITS 20A, 1P, EXCEPT AS NOTED)
MAIN BUS: 125 AMPS
NEUTRAL: 125 AMPS
MAINS: 2P-125A CKT. BRKR. (22K A.I.C.)
LOCATION: TOP

COND	WIRE	TOTAL V.A.	AMPS	POLE	LOAD SERVED	CKT. NO.	PHASE	CKT. NO.	LOAD SERVED	POLE	AMPS	TOTAL V.A.	WIRE	COND
EXISTING		500	20	1	EXIST. IRRIGATION PANEL	1		2	EXIST. RECEPT. **	1	20	800	EXISTING	
		800			EXIST. RECEPT. **	3		4	**			800		
		800			**	5		6	**			800		
		800			**	7		8	**			800		
1"	#8	800			PIER J. BOX */**	9		10	**			800		
1"	#6	6800	60	2	PANEL 'PB'	11		12	EXIST. TIME CLOCK 'A'			200		
						13		14	SPARE					
1"	#8	3600	30	2	SHELTER NO.3 **	15		16						
					SOUND SYST. RECEPT.	17		18	POLE LTG. *	2	20	1200	#10	1"
		SPACE				19		20						
						21		22	SPACE					
						23		24						
						25		26						
						27		28						
						29		30						

* CONTROLLED BY TIME SWITCH
** GROUND FAULT CIRCUIT INTERRUPTER
CONNECTED LOAD: 19.5 KVA
DEMAND LOAD: 3.0 KVA X 1.25 D.F. + 16.5 KVA = 20.2 KVA = 84.4 A/Ø

FEEDER: 3-3/0, 2"C (EXIST.)
FED FROM: EXIST. ELECT. METER

NOTE: CONTRACTOR SHALL MODIFY EXISTING PANELBOARD AS REQUIRED TO MATCH SCHEDULE SHOWN.

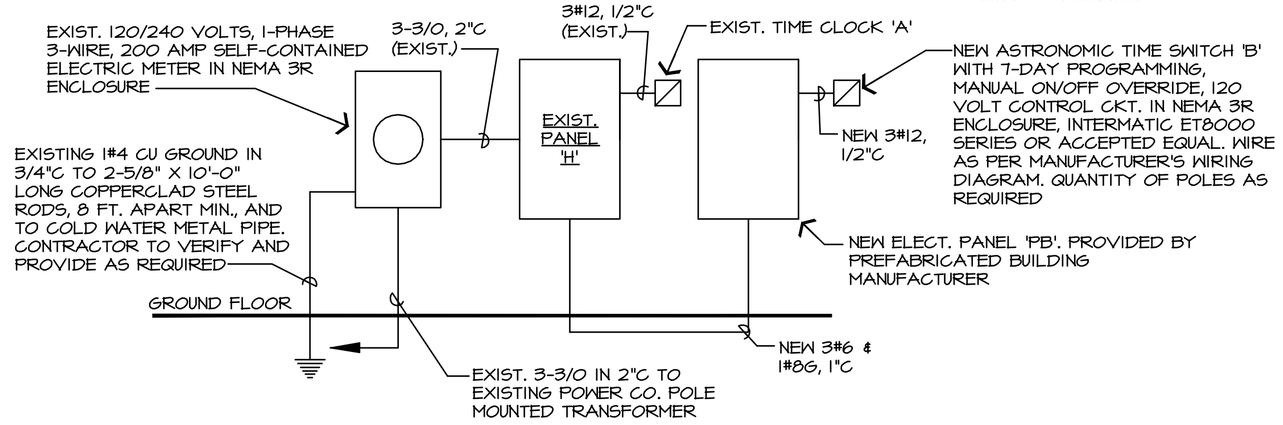
NEW PANEL 'PB'

TYPE: SQUARE 'D'
VOLTAGE: 120/240 VOLTS
SERVICE: 1Ø, 3W
MOUNTING: SURFACE
(10,000 A.I.C.)
(ALL CIRCUITS 20A, 1P, EXCEPT AS NOTED)
MAIN BUS: 100 AMPS
NEUTRAL: 100 AMPS
MAINS: 2P-60A CKT. BRKR. (22K A.I.C.)
LOCATION: BOTTOM

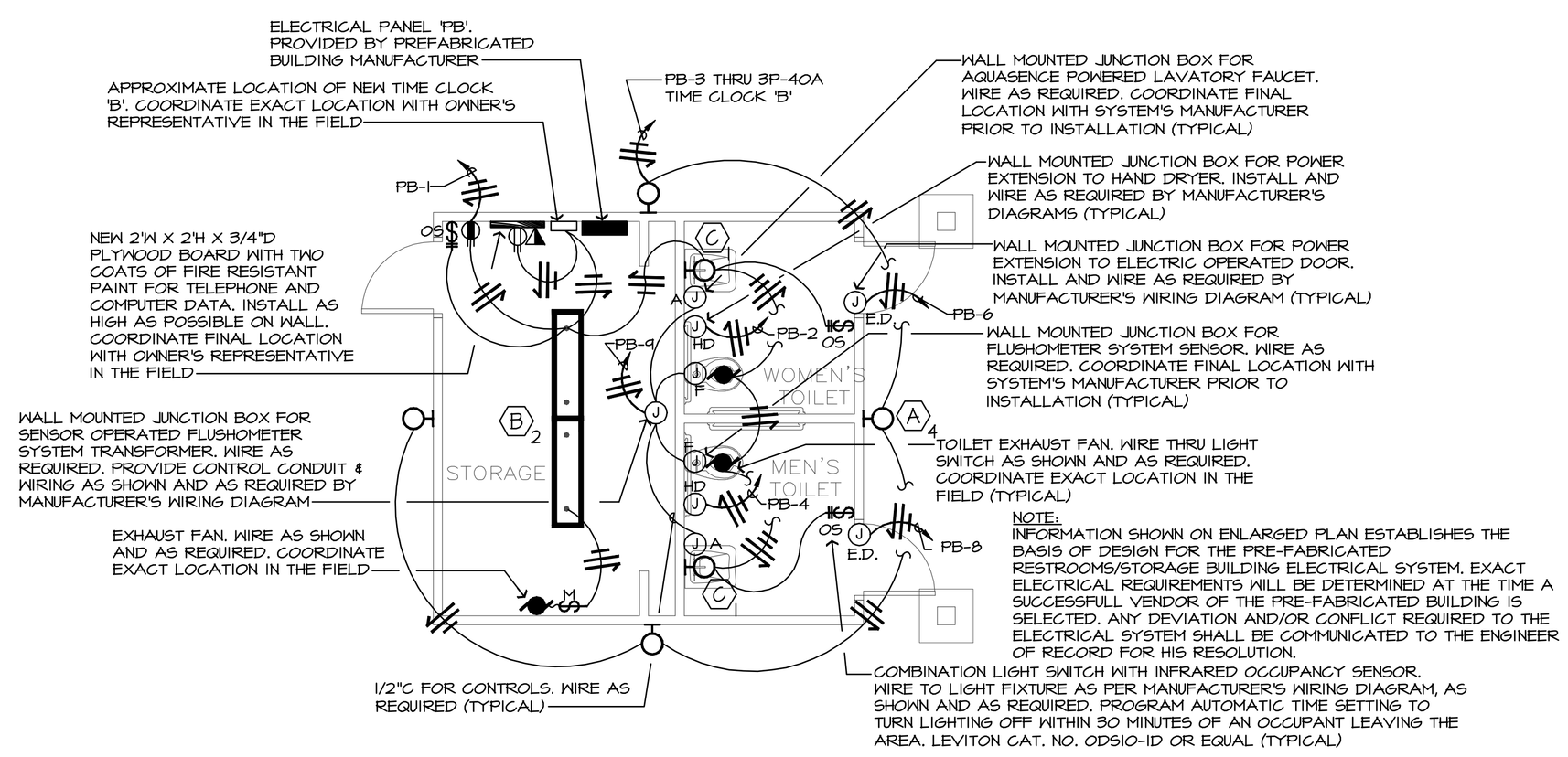
COND	WIRE	TOTAL V.A.	AMPS	POLE	LOAD SERVED	CKT. NO.	PHASE	CKT. NO.	LOAD SERVED	POLE	AMPS	TOTAL V.A.	WIRE	COND
1/2"	#12	1000	20	1	REST. LTG. & RECEPT.	1		2	REST. HAND DRYER	1	20	900	#12	1/2"
		200			EXTERIOR LTG. *	3		4				900		
1"	#10	700			SHELTER LTG. *	5		6	J. BOX ELECT. DR.			800		
	#8	600			*	7		8				800		
1/2"	#12	300			PLUMB. FIXT. SENSORS	9		10	SPACE					
		200			NEW TIME CLOCK 'B'	11		12						

* CONTROLLED BY TIME SWITCH
** GROUND FAULT CIRCUIT INTERRUPTER
CONNECTED LOAD: 6.4 KVA
DEMAND LOAD: 1.8 KVA X 1.25 D.F. + 4.6 KVA = 6.8 KVA = 28.5 A/Ø

FEEDER: NEW 3#6 & 1#8G, 1"C
FED FROM: EXIST. ELECT. PANEL 'H'



ELECTRICAL RISER DIAGRAM
N.T.S.



NOTE:
INFORMATION SHOWN ON ENLARGED PLAN ESTABLISHES THE BASIS OF DESIGN FOR THE PRE-FABRICATED RESTROOMS/STORAGE BUILDING ELECTRICAL SYSTEM. EXACT ELECTRICAL REQUIREMENTS WILL BE DETERMINED AT THE TIME A SUCCESSFULL VENDOR OF THE PRE-FABRICATED BUILDING IS SELECTED. ANY DEVIATION AND/OR CONFLICT REQUIRED TO THE ELECTRICAL SYSTEM SHALL BE COMMUNICATED TO THE ENGINEER OF RECORD FOR HIS RESOLUTION.

RESTROOM/STORAGE BLDG. ENLARGED PLAN
SCALE: 1/4" = 1'-0"

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NO.	MOUNTING	CKT. VOLTS	LAMP DATA	REMARKS
A	TO BE SELECTED BY LANDSCAPE ARCHITECT AND/OR ARCHITECT.			COLUMN/WALL	120	1-50 WATT MAX.	U.L. LISTED FOR WET LOCATION.
B	TO BE SELECTED BY LANDSCAPE ARCHITECT AND/OR ARCHITECT.			SURFACE	120	1-75 WATT MAX.	U.L. LISTED FOR DAMP LOCATION.
C	TO BE SELECTED BY LANDSCAPE ARCHITECT AND/OR ARCHITECT.			WALL	120	1-50 WATT MAX.	U.L. LISTED FOR DAMP LOCATION.
P	TO BE SELECTED BY LANDSCAPE ARCHITECT AND/OR ARCHITECT.			POLE AT 14 FT. ABOVE FINISHED GRADE	240	1-100 WATT MAX.	U.L. LISTED FOR WET LOCATION. POLE TO BE ROUND, ALUMINUM, NON-TAPERED, 14 FT.

NOTES:
1- FOR DESCRIPTION AND SPECIFICATION OF ALL LIGHT FIXTURES, REFER TO ARCHITECTURAL/LANDSCAPE DRAWINGS.
2- CONTRACTOR SHALL FURNISH AND INSTALL ALL LIGHT FIXTURES AND LAMPS. CONTRACTOR SHALL PROVIDE LIGHT FIXTURE SUBMITTALS FOR OWNER'S APPROVAL PRIOR TO PURCHASING.
3- CONTRATOR MUST INCLUDE PHOTOMETRIC CALCULATIONS WITH SHOP DRAWING SUBMITTAL FOR LIGHT FIXTURE TYPE 'P', IF CONTRACTOR DECIDES TO SUBSTITUTE THIS LIGHT FIXTURE TYPE.
4- BY SUBMITTING SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS, THE CONTRACTOR REPRESENTS THAT THE CONTRACTOR HAS DETERMINED AND VERIFIED MATERIALS, FIELD MEASUREMENTS AND FIELD CONSTRUCTION CRITERIA RELATED THERETO, OR WILL DO SO, AND HAS CHECKED AND COORDINATED THE INFORMATION CONTAINED WITHIN SUCH SUBMITTALS WITH THE REQUIREMENTS OF THE WORK AND OF THE CONTRACT DOCUMENTS.

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Revisions:

No.	Date	Description

Project Name:

Dr. Paul Vogel Community Park
CITY OF NORTH BAY VILLAGE
LANDSCAPE PLANS

Comm. No. 29064.000
Scale: AS SHOWN
Date: March 22, 2010
Drawn: J.A.R.
Checked: N.V.
CADD File:

Drawing Title:

ENLARGED PLAN, ELECT. & TEL. RISER DIAGRAMS, DETAILS AND SCHEDULES

Sheet No. E-2

ELECTRICAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE 2005 NATIONAL ELECTRICAL CODE (N.E.C.), FLORIDA BUILDING CODE (F.B.C.) AND ALL OTHER CODES AND ORDINANCES IN EFFECT AT THIS LOCATION.
2. DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE DRAWINGS FOR EXACT LOCATION OF EQUIPMENT. THESE DRAWINGS ARE NOT INTENDED TO SHOW EVERY MINOR DETAIL, BUT THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND ACCEPTABLE WORKING SCHEDULE.
3. CHECK EQUIPMENT FOR PROPER VOLTAGE, PHASE, AND AMP RATING BEFORE CONNECTION TO CIRCUITS.
4. ALL CIRCUITS SHALL BE CLEARLY IDENTIFIED AND SHOWN ON PANEL DIRECTORIES. DO NOT CHANGE CIRCUIT ARRANGEMENT SHOWN ON THESE DRAWINGS.
5. ALL MATERIALS SHALL BE NEW AND SHALL BEAR THE UL LABEL WHEN APPLICABLE.
6. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF THE POWER, TELEPHONE AND CABLE T.V. COMPANIES. CONTRACTOR SHALL COORDINATE SERVICE REQUIREMENTS WITH THE UTILITY COMPANIES.
7. ALL CONDUCTORS SHALL BE IN CONDUIT. ALL SECTIONS OF METALLIC CONDUIT SYSTEM SHALL BE GROUNDED AND ELECTRICALLY CONTINUOUS. ALL CONDUCTORS SHALL BE COPPER 600 VOLTS, WITH 75°C, MINIMUM TEMPERATURE RATING OF CONDUCTOR
8. SEE MECHANICAL DRAWINGS FOR ELECTRICAL REQUIREMENTS AND LOCATION OF HVAC EQUIPMENT. THE CONTRACTOR SHALL PROVIDE ALL BRANCH CIRCUIT AND CONTROL WIRING AS INDICATED AND REQUIRED, AND IN CONFORMANCE WITH NEC ARTICLES 440, AND 725.26 (SEPARATE RACEWAYS) AND MANUFACTURER'S RECOMMENDATIONS. THERMOSTAT LOCATIONS ARE SHOWN ON MECHANICAL DRAWINGS. MAKE CONNECTIONS AS REQUIRED BY CONTROL WIRING DIAGRAM.
9. CIRCUITS ON THE PLAN ARE TO DETERMINE LOAD DATA AND PANEL SIZE. THE CONTRACTOR SHALL PROVIDE CIRCUITS AND ROUTING OF CONDUITS TO SUIT JOB CONDITIONS.
10. ROUTING OF RACEWAYS, INTERCONNECTING OUTLETS AND HOME-RUNS IS UP TO THE ELECTRICAL CONTRACTOR, BUT AFTER COMPLETION OF THE INSTALLATION, CONTRACTOR SHALL SUBMIT TO THE OWNER AS-BUILT DRAWINGS OF THE ELECTRICAL WORK FOR FUTURE RECORD.
11. CONTRACTOR SHALL VERIFY THE CEILING FINISHES AND SUSPENSION SYSTEM FOR SELECTION OF THE PROPER TRIM AND SUPPORT ARRANGEMENTS OF LIGHT FIXTURES. COORDINATE REQUIREMENTS WITH ARCHITECT.
12. FURNISH AND INSTALL LIGHTING FIXTURES AND LAMPS AS CALLED FOR ON THESE PLANS.
13. THE ELECTRICAL SYSTEM SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED AS REQUIRED IN ARTICLE 250 OF THE NEC. ALL RACEWAYS TO HAVE EQUIPMENT GROUND CONDUCTORS, AND WHEN CROSSING BUILDING EXPANSION JOINTS, EXPANSION FITTINGS WITH BONDING JUMPERS SHALL BE USED.
14. ELECTRICAL EQUIPMENT AIC RATING AND FEEDER SIZES SHOWN ON THESE PLANS ARE DESIGNED FOR MAXIMUM AVAILABLE FAULT CURRENT AND MAXIMUM ALLOWABLE VOLTAGE DROP RESPECTIVELY.
15. THE PROJECT IS "NEW CONSTRUCTION". THE CONTRACTOR SHALL VISIT THE JOB SITE TO DETERMINE THE EXTENT OF WORK INVOLVED WITH THESE DOCUMENTS AS SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND ALLOW FOR ANY CHANGES THAT MAY BE MADE DURING THE COMPLETION OF THE PROJECT. ANY ELECTRICAL WORK THAT MAY HAVE TO BE DONE TO COMPLETE ANY ALTERATIONS SHOWN ON ANY PLAN SHALL BE INCLUDED IN THIS CONTRACT WITH NO ADDITIONAL CHARGES TO THE OWNER AFTER THE CONTRACTS ARE LET.
16. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE ELECTRICAL INSTALLATION IN ACCORDANCE WITH THESE DRAWINGS.
17. PROVIDE ALL REQUIRED CONNECTIONS FOR OTHER TRADES.
18. PROVIDE TEMPORARY POWER AND LIGHT OUTLETS FOR USE BY OTHER TRADES.
19. OUTDOOR UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC. UNDER PAVED AREAS IT SHALL BE ENCASED IN CONCRETE, MINIMUM COVER SHALL BE 24".
20. ELECTRICAL INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF N.E.C. 110.26 (A)(1) "WORKING SPACES" AND N.E.C. 408 "SWITCHBOARDS AND PANELBOARDS" INCLUDING SPACES ABOVE THE EQUIPMENT.
21. PROVIDE FIELD MARKING TO WARN PERSONNEL OF POTENTIAL ELECTRIC ARC FLASH HAZARDS IN ACCORDANCE WITH N.E.C. ART. 110.16.
22. PRIOR TO INSTALLATION OF ROUGH ELECTRIC WIRING CHECK NAMEPLATE DATA OF A/C EQUIPMENT, HOT WATER HEATERS, ELEVATORS AND OTHER EQUIPMENT TO OBTAIN CORRECT WIRE SIZES AND OVERCURRENT DEVICE SIZES.
23. IF, THROUGH ERRORS OR OMISSIONS, THE INTENT TO THE ARCHITECT/ENGINEER WITH REGARD TO ANY DETAIL IS NOT CLEAR, OR IS CAPABLE OF MORE THAN ONE INTERPRETATION, SUCH MATTERS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT/ENGINEER IN WRITING BEFORE THE SUBMISSION OF BIDS, AND THE ARCHITECT/ENGINNER SHALL MAKE CORRECTION OR EXPLANATION IN WRITING. OTHERWISE, NO EXTRA CHARGE WILL BE ALLOWED FOR THE WORK OR MATERIAL WHICH THE ARCHITECT/ENGINEER WILL REQUIRE, PROVIDED THAT IT COMES WITHIN A REASONABLE INTERPRETATION OF THE DRAWINGS AND SPECIFICATIONS.
24. CONTRACTOR'S WORK PRACTICES AND CONDITIONS MUST CONFORM WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970.
25. LOAD DATA IS BASED ON INFORMATION GIVEN TO THE ENGINEER AT THE TIME OF DESIGN. VERIFY ALL EQUIPMENT AND PANEL SIZES BEFORE ORDERING.
26. ALL GROUND CONNECTIONS TO BE DONE AS PER LATEST EDITION OF NATIONAL ELECTRICAL CODE. THE ELECTRICAL SYSTEM SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED AS REQUIRED IN ARTICLE 250 OF THE NEC. PVC CONDUITS TO HAVE EQUIPMENT GROUND CONDUCTORS, AND WHEN CROSSING BUILDING EXPANSION JOINTS, EXPANSION FITTINGS WITH BONDING JUMPERS SHALL BE USED.
27. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING; AND ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
28. JUNCTION BOXES SHALL BE GALVANIZED STEEL WITH SCREW OR HINGED COVERS FOR INDOOR LOCATIONS AND WEATHER-PROOF WHERE EXPOSED TO WEATHER. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS. CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
29. OUTLETS SHALL BE FLUSHED WITH FINISHED SURFACES. TWO OR MORE LIGHT SWITCHES IN SAME WALL SHALL BE INSTALLED IN GANG-TYPE BOXES. COORDINATE ALL BOX LOCATION WITH BUILDING ARCHITECTURAL FEATURES.
30. PANELBOARDS SHALL BE DEAD FRONT CIRCUIT BREAKER TYPE WITH COPPER BUS AND AS SCHEDULED ON DRAWINGS. EACH PANELBOARD SHALL BE PROVIDED WITH A SEPARATE GROUND BUS IN ADDITION TO THE NEUTRAL BUS. CIRCUIT BREAKERS SHALL BE BOLT-ON AND HAVE A MINIMUM INTERRUPTING RATING OF 10,000 AMPERES AT 120 VOLTS, 14,000 AMPERES AT 277 VOLTS. ALL PANELS SHALL HAVE SNAP CATCH DOORS WITH CLEAR PLASTIC ENCLOSED TYPEWRITTEN DIRECTORY INSIDE.
31. DRY TYPE TRANSFORMER SHALL BE 480 VOLTS DELTA PRIMARY, 208Y/ 120 VOLTS SECONDARY. THREE-PHASE, 60 HERTZ WITH FOUR 2-1/2% FCBN TAPS AND TWO 2-1/2% FCAN TAPS. KVA RATING SHALL BE AS SHOWN ON DRAWINGS.
32. DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, QUICK-MAKE, QUICK- BREAK, ENCLOSURE AS REQUIRED BY EXPOSURE. MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC WITH OVERLOAD RELAYS IN EACH LEG. FUSES SHALL BE DUAL ELEMENT, COMBINING TIME DELAY WITH CURRENT LIMITING.
33. ELECTRICAL CONTRACTOR SHALL PERFORM ALL NECESSARY WORK AND SHALL PROVIDE ALL NECESSARY INSTRUMENTS AND SPECIAL APPARATUS TO CONDUCT ANY TEST THAT MAY BE REQUIRED TO INSURE THE SYSTEM IS FREE OF ALL IMPROPER GROUNDS AND SHORT CIRCUITS, AND THAT ALL FEEDERS ARE PROPERLY BALANCED.
34. WIRING DEVICES SHALL BE APPROVED SPECIFICATION GRADE. VERIFY LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. WIRING DEVICES SHALL BE WHITE COLOR, DECORA TYPE.
35. ELECTRICAL CONTRACTOR SHALL PROVIDE OUTLETS TO MATCH EQUIPMENT PLUGS.
36. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
37. CONTRACTOR SHALL DO HIS OWN CUTTING OF FLOOR AND WALLS AND DO ALL PATCHINS. OBTAIN APPROVAL BEFORE DOING ANY CUTTING. REPAIR ANY DAMAGE DONE TO OTHER'S EQUIPMENT OR MATERIAL.
38. PROVIDE FIRE STOPPING MATERIAL AT ALL CONDUIT OPENINGS IN WALL AND FLOOR, AND OTHER LOCATIONS AS REQUIRED BY CODE TO PRESERVE FIRE RATING INTEGRITY.
39. CORRECTIONS OF ANY DEFECTS SHALL BE COMPLETED WITHOUT CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
40. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE OF DEFECT FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM THE DATE OF ACCEPTANCE.
41. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ACCEPTANCE OF EVERY EQUIPMENT AND MATERIAL USED, PRIOR TO ORDERING.
42. MOTORS: A. MOTORS 1/2 HORSEPOWER AND BELOW SHALL BE 120 VOLTS, SINGLE PHASE. B. MOTORS OF 1/2 HORSEPOWER AND LARGER SHALL BE AS SCHEDULED. C. PROVIDE DISCONNECTS FOR ALL MOTORS TO BE INSTALLED.
43. STANDARDS FOR MATERIALS. ALL MATERIALS SHALL BE NEW AND SHALL CONFORM TO THE APPLICABLE STANDARDS WHERE SUCH HAVE BEEN ESTABLISHED FOR THE PARTICULAR MATERIAL IN QUESTION. THE PUBLICATIONS AND STANDARDS OF THE ORGANIZATIONS BELOW ARE APPLICABLE TO MATERIALS SPECIFIED HEREIN.
    A. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
    B. UNDERWRITER'S LABORATORIES, INC. (UL)
    C. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
    D. NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA)
    E. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

    WHERE REFERENCE IS MADE TO TRADE NAMES OR NAMES OF MANUFACTURER'S SUCH REFERENCES ARE MADE SOLELY TO DESIGNANTE AND TO IDENTIFY QUALITY OF MATERIALS OR EQUIPMENT TO BE FURNISHED AND DOES NOT PRECLUDE THE USE OF 'EQUAL' EQUIPMENT AS APPROVED BY THE ENGINEER.
44. WORKMANSHIP. ALL WORK SHALL BE INSTALLED IN A NEAT, ORDERLY MANNER. DEVICES, PLATES, EXPOSED. RACEWAYS, ENCLOSURES, COVERS, FIXTURES, ETC SHALL BE ALIGNED PERPENDICULAR TO/OR PARALLEL WITH THE PRINCIPAL STRUCTURE MEMBERS. THE EDGES OF THESE COVERS, PLATES, ENCLOSURES, ETC. SHALL BE IN VERTICAL OR HORIZONTAL PLANE, AS APPLICABLE FOR THE PARTICULAR ITEM INVOLVED. EXPOSED RACEWAYS SHALL BE OFFSET WHERE THEY ENTER SURFACE-MOUNTED EQUIPMENT. WIRING INSTALLED IN PLANELS AND OTHER ENCLOSURES SHALL BE NEATLY LOOPED AND LACED AND NOT WADDED OR BUNDLED.

LEGEND OF SYMBOLS

SYMBOL	DESCRIPTION
a 5	FLUORESCENT LIGHT FIXTURE, RECESSED OR SURFACE MOUNTED. a-DENOTES SWITCH LEG; 5-DENOTES CIRCUIT NUMBER.
	H.I.D. LIGHT FIXTURE, WALL MOUNTED AS INDICATED.
	FLUORESCENT LIGHT FIXTURE, RECESSED OR SURFACE MOUNTED.
	FLUORESCENT LIGHT FIXTURE, WALL MOUNTED AT 8'-0"A.F.F. UNLESS OTHERWISE INDICATED.
	FLUORESCENT STRIP LIGHT FIXTURE, SURFACE MOUNTED.
	FLUORESCENT LIGHT FIXTURE WITH EMERGENCY POWER PACK FOR EMERGENCY LIGHTING.
	EMERGENCY LIGHTING UNIT, WALL MOUNTED AT 7'-6".
	INCANDESCENT OR FLUORESCENT LIGHT FIXTURE, RECESSED MOUNTED.
	INCANDESCENT OR FLOURESCENT LIGHT FIXTURE, WALL MOUNTED ABOVE DOOR OR 8'-0"A.F.F. UNLESS OTHERWISE INDICATED.
	INCANDESCENT OR FLOURESCENT LIGHT FIXTURE, SURFACED MOUNTED.
	INCANDESCENT OR FLOURESCENT LIGHT FIXTURE, RECESSED WALL WASHER.
	FLOURESCENT LIGHT FIXTURE, RECESSED MOUNTED ON CONCRETE WALL .
	H.I.D. LIGHT FIXTURE, POLE MOUNTED
	EXIT LIGHT FIXTURE, SELF-CONTAINED.
$	SINGLE POLE LIGHT SWITCH, QUIET TYPE, 120-277 VOLTS, 20 AMPS (15 AMPS FOR NON-APPLIANCE CKTS. IN APT. UNITS). INSTALL 48"A.F.F.
$3	THREE WAY LIGHT SWITCH, QUIET TYPE, 120-277 VOLTS, 20 AMPS (15 AMPS IN APT. UNITS). INSTALL 48"A.F.F.
$4	FOUR WAY LIGHT SWITCH, QUIET TYPE, 120-277 VOLTS, 20 AMPS (15 AMPS IN APT. UNITS). INSTALL 48"A.F.F.
$D	DIMMER SWITCH, SINGLE POLE, WATT RATING TO MATCH LOAD. 120 VOLTS. INSTALL 48"A.F.F.
$M	MANUAL MOTOR STARTER SWITCH, SINGLE POLE WITH OVERLOAD PROTECTION. INSTALL 48"A.F.F. OR AS REQUIRED.
$F	CEILING FAN CONTROL SWITCH, ROTARY DIAL WITH OFF POSITION. INSTALL AT 48" A.F.F.
$P	SINGLE POLE LIGHT SWITCH, WITH NEON PILOT LAMP, 120-277 VOLTS, 20 AMPS. INSTALL 48"A.F.F.
$OS	COMBINATION SINGLE POLE LIGHT SWITCH WITH INFRARED OCCUPANCY SENSOR WITH AUTOMATIC SETTING PROGRAMMED TO TURN LIGHTING OFF WITHIN 30 MINUTES ON AN OCCUPANT LEAVING THE AREA WATT RATING TO MATCH LOAD INSTALL 48"A.F.F.
	DUPLEX RECEPTACLE OUTLET, 125 VOLTS, 3-WIRE, GROUNDING TYPE, 20 AMPS (15 AMPS FOR NON-APPLIANCE CKTS. IN APT. UNITS). INSTALL 18"A.F.F. UNLESS OTHERWISE INDICATED.
	DUPLEX RECEPTACLE OUTLET, 125 VOLTS, 3-WIRE, GROUNDING TYPE, 20 AMPS (15 AMPS FOR NON-APPLIANCE CKTS. IN APT. UNITS). INSTALL 44"A.F.F.
	SINGLE RECEPTACLE OUTLET, 125 VOLTS, 3-WIRE, GROUNDING TYPE, 20 AMPS. INSTALL 18"A.F.F. UNLESS OTHERWISE INDICATED.
	DUPLEX RECEPTACLE OUTLET WITH TOP RECEPTACLE SWITCHED, 120 VOLTS, 3-WIRE, GROUNDING TYPE, 15 AMPS. INSTALL 18"A.F.F.
	QUADRUPLEX RECEPTACLE OUTLET, 125 VOLTS, 3-WIRE, GROUNDING TYPE, 20 AMPS. INSTALL 18"A.F.F. UNLESS OTHERWISE INDICATED.
	SPECIAL RECEPTACLE OUTLET, 250 VOLTS, 4-WIRE, GROUNDING TYPE, AMPS AS SHOWN. INSTALL 18" A.F.F. UNLESS OTHERWISE INDICATED.
	DUPLEX RECEPTACLE. INSTALL FLUSH AT FLOOR.

SYMBOL	DESCRIPTION
	SPECIAL RECEPTACLE OUTLET, 250 VOLTS, 30, 4-WIRE, GROUNDING TYPE, AMPS AS SHOWN. INSTALL 18" A.F.F. UNLESS OTHERWISE INDICATED.
	TELEPHONE OUTLET. INSTALL 18"A.F.F. UNLESS OTHERWISE INDICATED.
	T.V. DISTRIBUTION BOX.
	CABLE T.V. OUTLET. INSTALL 18"A.F.F. UNLESS OTHERWISE INDICATED.
M	MAIN TELEPHONE OUTLET.
	COMBINATION TELEPHONE OUTLET AND COMPUTER DATA OUTLET. INSTALL 18" A.F.F. UNLESS OTHERWISE INDICATED.
	COMBINATION TELEPHONE OUTLET AND COMPUTER DATA OUTLET. INSTALL FLUSH AT FLOOR.
J	JUNCTION BOX. INSTALL AS SHOWN OR AS REQUIRED.
J L F	CEILING OUTLET FOR COMBINATION PADDLE FAN AND LIGHT.
E.C.	EMPTY CONDUIT.
A.F.F.	ABOVE FINISHED FLOOR.
W.P.	WEATHER RESISTANT.
G.F.I.	GROUND FAULT INTERRUPTER.
V.P.	VAPOR PROOF.
E.W.C.	ELECTRIC WATER COOLER.
P.H.	PHOTOCELL.
A.F.C.I.	ARC FAULT CIRCUIT INTERRUPTER.
D.L.	DENOTES WITH DAMP LOCATION LABEL.
W.L.	DENOTES WITH WET LOCATION LABEL.
———	CONDUIT RUN CONCEALED IN CEILING OR WALL.
— — —	CONDUIT RUN UNDERGROUND OR IN FLOOR SLAB.
o——	CONDUIT UP.
•——	CONDUIT DOWN.
	FLEXIBLE CONDUIT.
	HOME-RUN TO ELECTRIC PANEL. HATCH MARKS INDICATE NUMBER OF WIRES, |-DENOTES GROUND WIRE.
□2 60 3	DISCONNECT SWITCH. 2-NUMBER OF POLES; 60-FRAME SIZE; 0-NO FUSE (FUSE SIZE).
A 3	LIGHTING FIXTURE IDENTIFICATION. A-DENOTES TYPE; 3-DENOTES QUANTITY OF FIXTURES IN THE AREA.
	MAGNETIC MOTOR STARTER, BY MECHANICAL CONTRACTOR OR LIGHTING CONTRACTOR.
	TIME CLOCK. INSTALL AS REQUIRED.
	MOTOR, SIZE AS INDICATED ON DRAWINGS.
	ELECTRICAL PANEL.
	PLYWOOD BOARD FOR TELEPHONE AND CABLE T.V. SYSTEMS.

GENERAL NOTES FOR LIGHT FIXTURES

1. ALL WIRING CHANNELS (FLUORESCENT AND INCANDESCENT) AND BAFFLES SHALL BE COLD ROLLED STEEL OF MINIMUM GAUGE, OR AS REQUIRED BY LOCAL CODE.
2. ALL SOCKETS SHALL BE OF THE PORCELAIN TYPE AND SHALL BE SECURELY MOUNTED TO CHANNELS WITH SCREWS. SPRING MOUNTED SOCKETS ARE NOT ACCEPTABLE. FIXTURE MANUFACTURER IS RESPONSIBLE FOR SUPPLYING CORRECT SOCKETS FOR LAMPS INDICATED FOR USE IN FIXTURE.
3. ALL FIXTURE WIRING SHALL BE OF THE HEAT RESISTANT TYPE. AS REQUIRED BY THE SPECIFICATIONS, OR AS REQUIRED BY LOCAL CODE.
4. FIXTURE MANUFACTURER AND CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER VENTILATION AND TEMPERATURE CONDITIONS OF LIGHT FIXTURES.
5. ALL FIXTURES WITH REMOVABLE COVERS OR CONES SHALL BE SUPPLIED WITH SAFETY CHAINS SECURELY ATTACHED TO MAIN HOUSINGS. THERE SHALL BE A SUFFICIENT QUANTITY OF SAFETY CHAINS TO SUPPORT TOTAL WEIGHT OF FIXTURE.
6. THE CONTRACTOR SHALL VERIFY WITH THE ARCHITECT AND/OR ENGINEER THAT ALL LIGHTING EQUIPMENT MEETS ALL NATIONAL AND LOCAL CODES AS APPLICABLE, E.G. THERMAL PROTECTION AND U.L. LABEL. FIXTURES INSTALLED IN WET AND/OR DAMP LOCATIONS SHALL BE PROVIDED WITH U.L. LABEL IDENTIFYING FIXTURE IS SUITABLE FOR USE IN THE INSTALLED LOCATION.
7. CONTRACTOR SHALL SUBMIT FOR ACCEPTANCE OF THE ARCHITECT AND THE ENGINEER, MANUFACTURER'S CATALOGUE SPECIFICATION SHEETS FOR ALL STANDARD CATALOGUE LIGHT FIXTURES PRIOR TO FABRICATION OF THE SAME.
8. FIXTURE MANUFACTURER AND/OR CONTRACTOR SHALL SUBMIT FOR ACCEPTANCE OF THE ARCHITECT AND THE ENGINEER, DETAILED DRAWINGS OF ALL SPECIAL DESIGN FIXTURES PRIOR TO FABRICATION OF THE SAME.
9. ALL COMPONENT PARTS OF ARCHITECTURAL LIGHTING INSTALLATION SHALL BE PROVIDED BY GENERAL CONTRACTOR. COLOR AND FINISH SPECIFICATION SHALL BE BY THE ARCHITECT UNLESS OTHERWISE DESIGNATED IN THE LIGHTING FIXTURE SCHEDULE.
10. THE CONTRACTOR SHALL VERIFY CEILING CONSTRUCTION FOR EACH FIXTURE TYPE AND LOCATION AND SHALL COORDINATE TRIM DETAILS.
11. BY SUBMITTING SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS, THE CONTRACTOR REPRESENTS THAT THE CONTRACTOR HAS DETERMINED AND VERIFIED MATERIALS, FIELD MEASUREMENTS AND FIELD CONSTRUCTION CRITERIA RELATED THERETO, OR WILL DO SO, AND HAS CHECKED AND COORDINATED THE INFORMATION CONTAINED WITHIN SUCH SUBMITTALS WITH THE REQUIREMENTS OF THE WORK AND OF THE CONTRACT DOCUMENTS.
12. UNLESS OTHERWISE SPECIFIED, VOLTAGES OF ALL LAMPS SHALL BE DETERMINED BY ELECTRICAL ENGINEER. ELECTRICAL CONTRACTOR SHALL COORDINATE PROPER LAMP BASE TYPES WITH SOCKET PROVIDED IN SPECIFIED FIXTURE.
13. UNLESS OTHERWISE SPECIFIED, INITIAL PURCHASE OF LAMPS NOT EASILY AVAILABLE LOCALLY SHALL INCLUDE 100% SPARE QUANTITY OF LAMPS.
14. FIXTURE MANUFACTURER AND/OR CONTRACTOR SHALL BE RESPONSIBLE THAT ALL FIXTURES SPECIFIED FOR EXTERIOR USE SHALL BE TREATED WITH A WEATHER-RESISTANT CORROSION PROTECTIVE COATING.
15. ALL RECESSED LIGHT FIXTURES SHALL BE INSTALLED AT A MINIMUM OF 6" AWAY FROM A/C DUCTS.
16. RECESSED LIGHT FIXTURES INSTALLED IN 1-HOUR FIRE RATED CEILING SHALL BE PROTECTED IN ACCORDANCE WITH THE CEILING U.L. DESIGN CLASSIFICATION.

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Revisions:

No.	Date	Description

Project Name:

Dr. Paul Vogel Community Park
CITY OF NORTH BAY VILLAGE
LANDSCAPE PLANS

Comm. No. 29064.000
Scale: AS SHOWN
Date: March 22, 2010
Drawn: J.A.R.
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CADD File:

Drawing Title:

SYMBOLS, LEGENDS AND ELECT. NOTES

Sheet No. E-3

G E N E R A L S T R U C T U R A L N O T E S

GENERAL

1. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE LATEST EDITION OF THE FLORIDA BUILDING CODE 2007, THE ACI AND AISC SPECIFICATIONS AND RECOMMENDED PRACTICE.

2. ALL REFERENCED STANDARDS REFER TO THE EDITION ENFORCED AT THE TIME THESE PLANS AND SPECIFICATIONS ARE ISSUED FOR BID.

3. DESIGN CRITERIA:
   A. ROOF LOADS:
      LIVE LOAD _____ 20 PSF
      SUPERIMPOSED DEAD LOAD _____ 15 PSF (@ ROOF)

   B. WIND LOADS: IN ACCORDANCE WITH ASCE 7-05 [BUILDING CATEGORY I; 146 MPH WIND SPEED; EXPOSURE C.

4. GENERAL CONTRACTOR SHALL CHECK, REVIEW AND VERIFY ALL PLANS, DIMENSIONS AND SITE CONDITIONS PRIOR TO CONSTRUCTION. THE ENGINEER OF RECORD SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS, OR ANY VARIATIONS NEEDED IN ORDER TO CONFORM TO THE CODES, RULES AND REGULATIONS.

5. STRUCTURAL DRAWINGS SHALL BE WORKED TOGETHER WITH ARCHITECTURAL DRAWINGS TO LOCATE SLABS, SLOPES, DRAINS, OUTLETS RECESSES, OPENINGS REGLETS, BOLT SETTINGS, SLEEVES, ETC. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.

6. GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL BEFORE FABRICATION OR ERECTION OF ANY STRUCTURAL SYSTEM.

7. GENERAL CONTRACTOR SHALL RESTRICT AND PROPERLY ISOLATE ALL CONSTRUCTION EQUIPMENT AND LOADS FROM INDUCING OR TRANSMITTING VIBRATIONS TO THE STRUCTURE DURING CONSTRUCTION.

8. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL ACCUMULATED WATER FROM EXCAVATIONS AND DEWATERING OPERATIONS IN SUCH A WAY AS TO NOT CAUSE INCONVENIENCE TO THE WORK AND DAMAGE TO THE STRUCTURAL ELEMENTS.

9. WHEN PERFORMING WORK BELOW GRADE, CARE SHALL BE TAKEN TO AVOID DAMAGING ANY EXISTING UTILITIES. ALL UNKNOWN UTILITIES DISCOVERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPORTED TO ALL AFFECTED PARTIES, INCLUDING THE ARCHITECT/ENGINEER.

10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING HIS/HER CONSTRUCTION DOCUMENTS WITH ANY REVISED DRAWINGS AND SPECIFICATIONS, FIELD ORDERS, CHANGE ORDERS AND CLARIFICATION SKETCHES ISSUED DURING THE COURSE OF CONSTRUCTION.

11. "BY OTHERS" DENOTES LABOR AND MATERIALS BY OTHERS. HOWEVER THE GENERAL CONTRACTOR SHALL PROVIDE COORDINATION AND FREE ACCESS FOR THE WORK.

12. TYPICAL DETAILS AND NOTES ON THESE DRAWINGS SHALL APPLY UNLESS SPECIFICALLY NOTED OTHERWISE. CONSTRUCTION DETAILS AND SECTIONS NOT COMPLETELY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS AND SECTIONS SHOWN OR NOTED FOR SIMILAR CONDITIONS.

13. BACKFILL AROUND THE EXTERIOR PERIMETER OF WALLS SHALL NOT BE PLACED UNTIL AFTER THE WALLS ARE SUPPORTED BY THE COMPLETION OF INTERIOR FLOOR SYSTEMS. DO NOT PROCEED WITH BACKFILL UNTIL (7) DAYS AS A MINIMUM AFTER THE COMPLETION OF INTERIOR FLOOR SYSTEMS UNLESS WALLS ARE ADEQUATELY BRACED. BACKFILL SHALL NOT BE PLACED UNTIL AFTER COMPLETION AND INSPECTION OF WATERPROOFING WHERE WATERPROOFING OCCURS.

14. TEMPORARY BRACING SHALL BE PROVIDED AS REQUIRED TO HOLD ALL COMPONENTS OF THE STRUCTURE IN PLACE UNTIL FINAL SUPPORT IS SECURELY ANCHORED.

15. THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES OF EVERY KIND, INCLUDING WATER AND POWER, NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHOWN OR INDICATED ON THESE DRAWINGS. ALL MATERIALS SHALL BE NEW MATERIALS AND WORKMANSHIP SHALL BE OF GOOD QUALITY. ALL WORKMEN AND SUBCONTRACTORS SHALL BE SKILLED IN THEIR TRADE.

16. THE CONTRACTOR SHALL ADEQUATELY PROTECT HIS/HER WORK, ADJACENT PROPERTY AND THE PUBLIC, AND BE RESPONSIBLE FOR DAMAGE OR INJURY DUE TO HIS ACT OR NEGLECT.

17. JOB SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE AN OFFICIAL INSPECTION, UNLESS SPECIFICALLY CONTRACTED FOR. "THRESHOLD" INSPECTIONS AS REQUIRED BY THE LOCAL BUILDING DEPARTMENT SHALL BE UNDER A SEPARATE CONTRACT.

18. SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS.

19. NO DIMENSIONS SHALL BE SCALED FROM DRAWINGS.

FOUNDATION NOTES

1. FOUNDATIONS WERE DESIGNED FOLLOWING THE RECOMMENDATIONS OF GEOSOL, INC., AS STATED IN THEIR SOIL REPORT PROJECT NUMBER 210115 DATED MARCH 26, 2010.

2. ALL FOUNDATION CONCRETE SHALL BE CAST IN THE DRY. THE DEWATERING OPERATION SHALL BE DONE IN SUCH A WAY THAT GROUND WATER LEVELS OUTSIDE THE SITE WILL BE MAINTAINED TO AVOID SETTLEMENT AND DAMAGE TO NEARBY BUILDINGS AND STRUCTURES.

3. THE ARCHITECT/ENGINEER ASSUMES NO RESPONSIBILITY FOR ANY INTERPRETATION THAT THE SUBSURFACE CONDITIONS DESCRIBED IN THE TEST BORING LOGS OCCUR CONSISTENTLY THROUGHOUT THE JOB SITE. TEST BORINGS ARE INCLUDED ONLY TO ASSIST THE CONTRACTOR DURING BIDDING AND SUBSEQUENT CONSTRUCTION AND REPRESENT SOIL CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND AT THE PARTICULAR TIMES THEY WERE TAKEN.

4. GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SHORING, SHEETING AND BRACING OF EXCAVATIONS.

5. EXCAVATION FOR PILE CAPS, FOOTINGS AND GRADE BEAMS SHALL BE FINISHED BY HAND SHOVEL.

6. IN NO CASE SHALL TRUCKS, BULLDOZERS OR OTHER HEAVY EQUIPMENT BE PERMITTED CLOSER THAN 8'-0" FROM ANY FOUNDATION WALL UNLESS APPROVED BY THE ENGINEER.

7. GENERAL CONTRACTOR SHALL INSTALL ALL PIPE SLEEVES, BOXED OPENINGS, ANCHOR BOLTS, ETC., AS REQUIRED FOR THE VARIOUS TRADES. WALL POCKETS TO RECEIVE BEAMS AND SLABS SHALL BE PROVIDED AS REQUIRED FOR THE SUPER-STRUCTURE. SHOP DRAWINGS SHOWING THE POSITION OF OPENINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER PRIOR TO PLACEMENT OF CONCRETE.

8. THE SOIL ENGINEER OR HIS REPRESENTATIVE OR THE OWNER'S QUALIFIED REPRESENTATIVE SHALL INSPECT ALL SUBGRADE PREPARATION WORK PRIOR TO THE PLACEMENT OF ANY REINFORCING STEEL OR CONCRETE AND SHALL PERFORM TESTS AS NECESSARY TO VERIFY THAT SUCH WORK IS IN CONFORMANCE WITH THE RECOMENDATION GIVEN IN THE SOIL REPORT.

9. THE DESIGN ENGINEER OR HIS QUALIFIED REPRESENTATIVE OR THE OWNER'S QUALIFIED REPRESENTATIVE SHALL CHECK PLACEMENT OF ALL REINFORCING STEEL PRIOR TO CASTING OF ANY CONCRETE.

10. PROVIDE CONTROL OR CONSTRUCTION JOINTS AS SHOWN ON PLAN. IF SAW-CUT OPTION IS USED, SLABS SHALL BE CUT NOT MORE THAN 24 HOURS AFTER POURING.

CONCRETE

1. ALL REINFORCED CONCRETE DESIGN SHALL BE IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI-318-2005).

2. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" ACI-301.

3. CONCRETE STRENGTH AT 28 DAYS SHALL BE AS INDICATED BELOW UNLESS OTHERWISE NOTED:

FOUNDATIONS	4000 PSI
SLAB ON GRADE	4000 PSI (U.O.N.)

4. MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY CONCRETE WORK.

5. NO ADMIXTURE SHALL BE PERMITTED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.

6. FORMWORK SHALL COMPLY WITH "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK" (ACI 347R).

7. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFE ADEQUATE SHORING, RE-SHORING, BRACING AND FORMWORK. GENERAL CONTRACTOR SHALL CONTRACT A STATE OF FLORIDA REGISTERED ENGINEER TO PREPARE SHORING AND RE-SHORING PLANS TO BE SUBMITTED TO THE ENFORCEMENT AGENCY FOR RECORD KEEPING.

8. THE OWNER SHALL CONTRACT AN INDEPENDENT TESTING LABORATORY APPROVED BY THE ENGINEER TO PERFORM CONCRETE CYLINDER TESTS AS FOLLOWS: FOUR CYLINDER TESTS FOR ANY 50 CUBIC YARDS OF CONCRETE POURED, OR THREE CYLINDER TESTS PER ANY DAY'S POUR LESS THAN 50 CUBIC YARDS.

9. TRANSPORTING, PLACING, CURING AND DEPOSITING OF CONCRETE SHALL COMPLY WITH ACI 301.

10. NO PIPES OR CONDUITS EXCEEDING 1/3 THE SLAB THICKNESS IN OUTSIDE DIAMETER SHALL BE EMBEDDED IN THE STRUCTURAL CONCRETE FLOOR OR ROOF WITHOUT WRITTEN APPROVAL FROM THE ENGINEER. WHERE PIPES OR CONDUITS ARE PERMITTED, THEY SHALL BE PLACED NO CLOSER THAN THREE DIAMETER O/C AND SHALL BE LOCATED SO AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE. JUNCTION BOXES MAY BE PLACED IN STRUCTURAL CONCRETE SLABS BUT SHALL NOT EXCEED 4 1/2" X 4 1/2" X 3 1/2" IN DEPTH, AND SHALL BE SEPARATED FROM OTHER JUNCTION BOXES BY NOT LESS THAN 8".

11. NO WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.

12. ALL PLUMBING & ELECTRICAL SLOTS SHALL BE FILLED WITH CONCRETE TO THE TOP OF THE FLOOR SLAB AFTER PIPING OR CONDUIT IS INSTALLED.

13. ALL FLOOR SLABS, SHALL BE PLACED MONOLITHICALLY AND THE FLOOR SLAB FINISHED AS REQUIRED ON THE SPECIFICATIONS.

14. REMOVE ALL DEBRIS FROM FORMS BEFORE POURING.

15. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALLS & COLUMNS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. USE HOPPERS, CHUTES OR TRUNKS OF VARYING LENGTHS SO THAT THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED 5 FEET, AND A SUFFICIENT NUMBER SHALL BE USED TO ENSURE THE CONCRETE IS BEING KEPT LEVEL AT ALL TIMES.

CONCRETE SLAB ON FILL

1. SELECTED FILL MATERIALS SHALL BE CLEAN CRUSHED LIMESTONE (3" MAXIMUM PARTICLE) OR CLEAN FINE SAND. THE FILL PLACEMENT SHOULD OCCUR IN THE DRY AND COMPACTED TO A MINIMUM OF 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557). FOLLOW SOIL LAB RECOMMENDATIONS FOR THE METHODS AND PROCEDURES. ALL FILL WORK SHALL BE SUPERVISED BY A SOIL LAB REPRESENTATIVE. ALL TOP SOIL SHALL BE REMOVED BEFORE STARTING FILLING OPERATIONS.

2. SLABS ON GRADE SHALL BE PLACED OVER 6 MIL VISQUEEN OR ENGINEER-APPROVED EQUIVALENT (U.O.N.).

3. WELDED WIRE FABRIC SHALL CONFORM WITH ASTM A 185-79 "STANDARD SPECIFICATIONS FOR WELDED WIRE FABRIC FOR CONCRETE REINFORCEMENT".

4. WELDED WIRE FABRIC SHALL BE SUPPORTED ON SLAB BOLSTERS OR CONCRETE BLOCKS SPACED NO FURTHER THAN 3'-0" O.C.

5. SAW-CUT CONTROL JOINTS SHALL BE SAWED AS SOON AS THE CONCRETE IS HARD ENOUGH NOT TO BE WORN OR DAMAGED BY THE BLADE.

6. COLUMNS, BEAMS AND WALLS OR ANY OTHER STRUCTURAL MEMBER PENETRATING SLABS ON FILL SHALL BE ISOLATED BY PREMOLDED JOINT FILLER (1/2" THICK) COMPLYING WITH ASTM 01752, TYPE1.

7. JOINTS SHALL BE SEALED WHERE INDICATED BY THE ARCHITECTURAL DRAWINGS AND FILLER AND SEALANT MATERIALS SHALL FOLLOW SPECIFICATIONS.

REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL BE DEFORMED BARS, FREE FROM LOOSE RUST AND SCALE CONFORMING TO ASTM A615 (S1), FY=60 KSI, U.O.N.

2. ALL REINFORCING SHALL BE DETAILED AND FABRICATED FOLLOWING THE REQUIREMENTS OF ACI 315. PLACING OF REBARS SHALL CONFORM TO "CRSI RECOMMENDED PRACTICES FOR PLACING REINFORCING BARS".

3. MINIMUM CONCRETE COVER ON REINFORCING STEEL FOR NON-PRESTRESSED CONCRETE SHALL BE AS FOLLOWS, U.O.N.:

	MINIMUM COVER	TOLERANCES + OR −
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"	3/8"
EXPOSED TO EARTH OR WEATHER:		
NO. 5 AND SMALLER BARS	1 1/2"	3/8"
NO. 6 AND LARGER BARS	2"	3/8"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:		
ROOF SLAB	1"	1/8"
STRUCTURAL SLABS AND WALLS	3/4"	1/8"
BEAMS AND COLUMNS (PRIMARY REINFORCEMENT, TIES, STIRRUPS AND SPIRALS)	1 1/2"	3/8"
SLABS ON GRADE	1 1/2"	1/4"

4. NO DEVIATION FROM THE STRUCTURAL PLANS SHALL BE PERMITTED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE STRUCTURAL ENGINEER. ALL REINFORCING DETAILS TO BE SUBMITTED TO THE ENGINEER FOR HIS APPROVAL.

5. ALL REINFORCING BARS SHALL BE SECURELY HELD IN PLACE DURING CONCRETE POURING. IF REQUIRED, ADDITIONAL BARS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR THE BARS.

6. BARS SUPPORTS SHALL BE PLASTIC TIPPED FOR EXPOSED CONCRETE. LEGS OF FOUNDATIONS CHAIRS SHALL BE GALVANIZED. PLASTIC "DONUT" SPACERS WILL BE REQUIRED FOR STEEL AGAINST FORMS IN CONCRETE BEAMS & WALLS IF FIELD CONDITIONS WARRANT.

7. ALL REINFORCING BARS MARKED "CONTINUOUS" SHALL BE LAPPED 36 DIA. AT SPLICES AND CORNERS UNLESS OTHERWISE NOTED. LAP CONTINUOUS TOP BARS AT CENTER BETWEEN SUPPORTS AS REQUIRED. TERMINATE CONTINUOUS BARS AT NON-CONTINUOUS ENDS WITH STANDARD HOOKS. U.O.N.

8. ALL WALLS AND COLUMNS SHALL BE DOWELED INTO FOOTINGS, WALLS, BEAMS, OR SLABS WITH BARS OF THE SAME SIZE AND SPACING AS THE BARS ABOVE. USE A (30) BAR DIAMETER LAP EXCEPT WHERE SPECIFICALLY INDICATED.

SHOP DRAWING AND OTHER SUBMITTALS

1. REVIEW OF SUBMITTALS BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AS PRESENTED BY THE CONTRACT DOCUMENTS. NO DETAILED CHECK OF QUANTITIES OR DIMENSIONS WILL BE MADE. ONLY THOSE SUBMITTALS REQUIRED BY THE CONTRACT DOCUMENTS TO BE SUBMITTED WILL BE REVIEWED. ALL OTHERS WILL BE RETURNED WITHOUT COMMENT.

2. BEFORE SUBMITTING THE FIRST SHOP DRAWING, SUBMIT THE SHOP DRAWING SUBMITTAL SCHEDULE, PREPARED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER CONSISTENT WITH THE FOLLOWING CRITERIA:

   A) ALLOW ADEQUATE TIME FOR TRANSIT AND PROCESSING BEFORE FABRICATION. THE STRUCTURAL ENGINEER WILL REVIEW AN AVERAGE SUBMITTAL WITHIN 14 CALENDAR DAYS OF RECEIPT BY THEM.

SUBMIT SHOP DRAWINGS IN A TIMELY MANNER, CONSISTENT WITH THE ABOVE.

3. REVIEW OF SHOP DRAWINGS IS LIMITED TO TWO (2) REVIEWS PER SUBMITTAL WITHIN THE SCOPE OF BASIC SERVICES (I.E., INITIALS SUBMITTAL REVIEW AND ONE RESUBMITTAL, IF NECESSARY). REVIEW OF ADDITIONAL RESUBMITTALS WILL BE CONSIDERED ADDITIONAL SERVICES, FOR WHICH THE GENERAL CONTRACTOR MAY BE HELD RESPONSIBLE. ADDITIONAL SERVICES COMPENSATION TO THE ENGINEER WILL BE IN ACCORDANCE WITH THE TERMS OF THE ARCHITECT-ENGINEER AGREEMENT FOR THIS PROJECT.

4. ALL SUBMITTALS SHALL BE ACCOMPANIED BY A LETTER OF TRANSMITTAL. DO NOT COMBINE DIFFERENT SUBMITTALS ON THE SAME TRANSMITTAL.

5. ALL SHOP DRAWINGS MUST BEAR EVIDENCE OF THE CONTRACTOR'S APPROVAL PRIOR TO SUBMITTING TO THE A/E.

6. SUBMIT ONE REPRODUCIBLE AND TWO COPIES TO THE ARCHITECT/ENGINEER FOR REVIEW. THE ARCHITECT/ENGINEER WILL RETURN THE REPRODUCIBLE AND RETAIN COPIES AFTER REVIEW.

7. ALL CHANGES AND ADDITIONS MADE ON RE-SUBMITTALS MUST BE CLEARLY FLAGGED AND NOTED. THE PURPOSE OF THE RE-SUBMITTALS MUST BE CLEARLY NOTED ON THE LETTER OF TRANSMITTAL. ARCHITECT/ENGINEER REVIEW WILL BE LIMITED TO THOSE ITEMS CAUSING THE RE-SUBMITTAL.

8. DO NOT REPRODUCE THE STRUCTURAL CONTRACT DOCUMENTS FOR USE AS SHOP DRAWINGS.

9. SHOP DRAWINGS NOT MEETING THE ABOVE CRITERIA OR SUBMITTED AFTER FABRICATION WILL NOT BE REVIEWED.

10. FOR ADDITIONAL CRITERIA APPLICABLE TO SHOP DRAWINGS REQUIRING ENGINEERING INPUT BY A SPECIALTY ENGINEER, SEE BELOW.

SHOP DRAWINGS REQUIRING ENGINEERING INPUT BY SPECIALTY ENGINEER

1. SPECIALTY ENGINEER:

   A) DEFINITION – A FLORIDA REGISTERED PROFESSIONAL ENGINEER, NOT THE STRUCTURAL ENGINEER OF RECORD, WHO SPECIALIZES IN AND WHO UNDERTAKES THE DESIGN OF STRUCTURAL COMPONENTS OR STRUCTURAL SYSTEMS INCLUDED IN A SPECIFIC SUBMITTAL PREPARED FOR THIS PROJECT.

   B) SHALL BE:

   1) AN EMPLOYEE OR OFFICER OF A FABRICATOR.

   2) AN EMPLOYEE OR OFFICER OF AN ENTITY SUPPLYING COMPONENTS TO A FABRICATOR.

   3) AN INDEPENDENT CONSULTANT RETAINED BY THE FABRICATOR OR HIS SUPPLIER.

2. SUBMISSIONS AND RE-SUBMISSIONS FOR CUSTOM DESIGNED, MANUFACTURED OR FABRICATED LOAD-CARRYING ITEMS AND CUSTOM FABRICATED ITEMS WHICH ARE REQUIRED BY CODES OR STANDARDS TO RESIST FORCES AND STRESSES, INCLUDING THEIR CONNECTIONS, ANCHORAGES AND ATTACHMENTS REQUIRE A SPECIALTY ENGINEER.

3. THE FOLLOWING SYSTEMS AND COMPONENTS, AS A MINIMUM, REQUIRE FABRICATION AND/OR ERECTION DRAWINGS WITH INPUT BY A SPECIALTY ENGINEER:
PREFABRICATED STEEL SHELTERS, CHAIN LINK FENCE, PREFABRICATED CONCRETE SHELTERS, RAILINGS AND ASSOCIATED COMPONENTS, SHORING AND RE-SHORING, STEEL TO STEEL CONNECTIONS, LIGHT POLES, CRANE FOUNDATIONS AND TIE DOWNS/LATERAL BRACING & A/C UNITS SUPPORT.

4. FOR EACH CATEGORY OF SHOP DRAWINGS REQUIRING INPUT FROM A SPECIALTY ENGINEER, THE CONTRACTOR SHALL ATTACH TO THE FIRST SHOP DRAWING SUBMITTAL A SIGNED AND SEALED LETTER FROM THE RESPONSIBLE SPECIALTY ENGINEER STATING, "I CERTIFY THAT THE DESIGN AND DRAFTING OF THE SHOP DRAWINGS WHICH ARE SIGNED AND SEALED BY ME WERE PREPARED UNDER MY DIRECT SUPERVISION AND CONTROL AND TO THE BEST OF MY KNOWLEDGE THE SHOP DRAWINGS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE CONTRACT DOCUMENTS."

5. SUBMITTALS SHALL CLEARLY IDENTIFY THE SPECIFIC PROJECT AND APPLICABLE CODES, LIST THE DESIGN CRITERIA, AND SHOW ALL DETAILS AND PLANS NECESSARY FOR PROPER FABRICATION AND INSTALLATION. CALCULATIONS AND SHOP DRAWINGS SHALL IDENTIFY SPECIFIC PRODUCTS UTILIZED. GENERIC PRODUCTS WILL NOT BE ACCEPTED.

6. SHOP DRAWINGS AND CALCULATIONS REQUIRE THE IMPRESSED SEAL, DATE AND SIGNATURE OF THE SPECIALTY ENGINEER. COMPUTER PRINTOUTS ARE AN ACCEPTABLE SUBSTITUTE FOR MANUAL COMPUTATIONS PROVIDED THEY ARE ACCOMPANIED BY SUFFICIENT DESCRIPTIVE INFORMATION TO PERMIT THEIR PROPER EVALUATION. SUCH DESCRIPTIVE INFORMATION SHALL BEAR THE IMPRESSED SEAL AND SIGNATURE OF THE SPECIALTY ENGINEER AS AN INDICATION THAT HE HAS ACCEPTED RESPONSIBILITY FOR THE RESULTS. SEPIAS DO NOT REQUIRE SIGNATURE AND SEAL. THE STRUCTURAL ENGINEER WILL RETAIN ONE SIGNED AND SEALED BLUELINE/ BLACKLINE PRINT FOR RECORD.

7. DRAWINGS PREPARED SOLELY TO SERVE AS A GUIDE FOR FABRICATION AND INSTALLATION (SUCH AS REINFORCING STEEL SHOP DRAWINGS OR STRUCTURAL STEEL ERECTION DRAWINGS) AND REQUIRING NO ENGINEERING INPUT DO NOT REQUIRE THE SEAL OF A SPECIALTY ENGINEER.

8. CATALOG INFORMATION ON STANDARD PRODUCTS DOES NOT REQUIRE THE SEAL OF A SPECIALTY ENGINEER.

9. REVIEW BY THE STRUCTURAL ENGINEER OF RECORD OF SUBMITTALS IS LIMITED TO VERIFYING THE FOLLOWING:

A) THAT THE SPECIFIED STRUCTURAL SUBMITTALS HAVE BEEN FURNISHED.

B) THAT THE STRUCTURAL SUBMITTALS HAVE BEEN SIGNED AND SEALED BY THE SPECIALTY ENGINEER.

C) THAT THE SPECIALTY ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND HAS USED THE SPECIFIED STRUCTURAL CRITERIA. (NO DETAILED CHECK OF CALCULATIONS WILL BE MADE.)

D) THAT THE CONFIGURATION SET FORTH IN THE STRUCTURAL SUBMITTALS IS CONSISTENT WITH THE CONTRACT DOCUMENTS. (NO DETAILED CHECK OF DIMENSIONS OR QUANTITIES WILL BE MADE.)

10. SUBMITTALS NOT MEETING THE ABOVE CRITERIA WILL NOT BE REVIEWED.

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Revisions:

No.	Date	Description

Project Name:

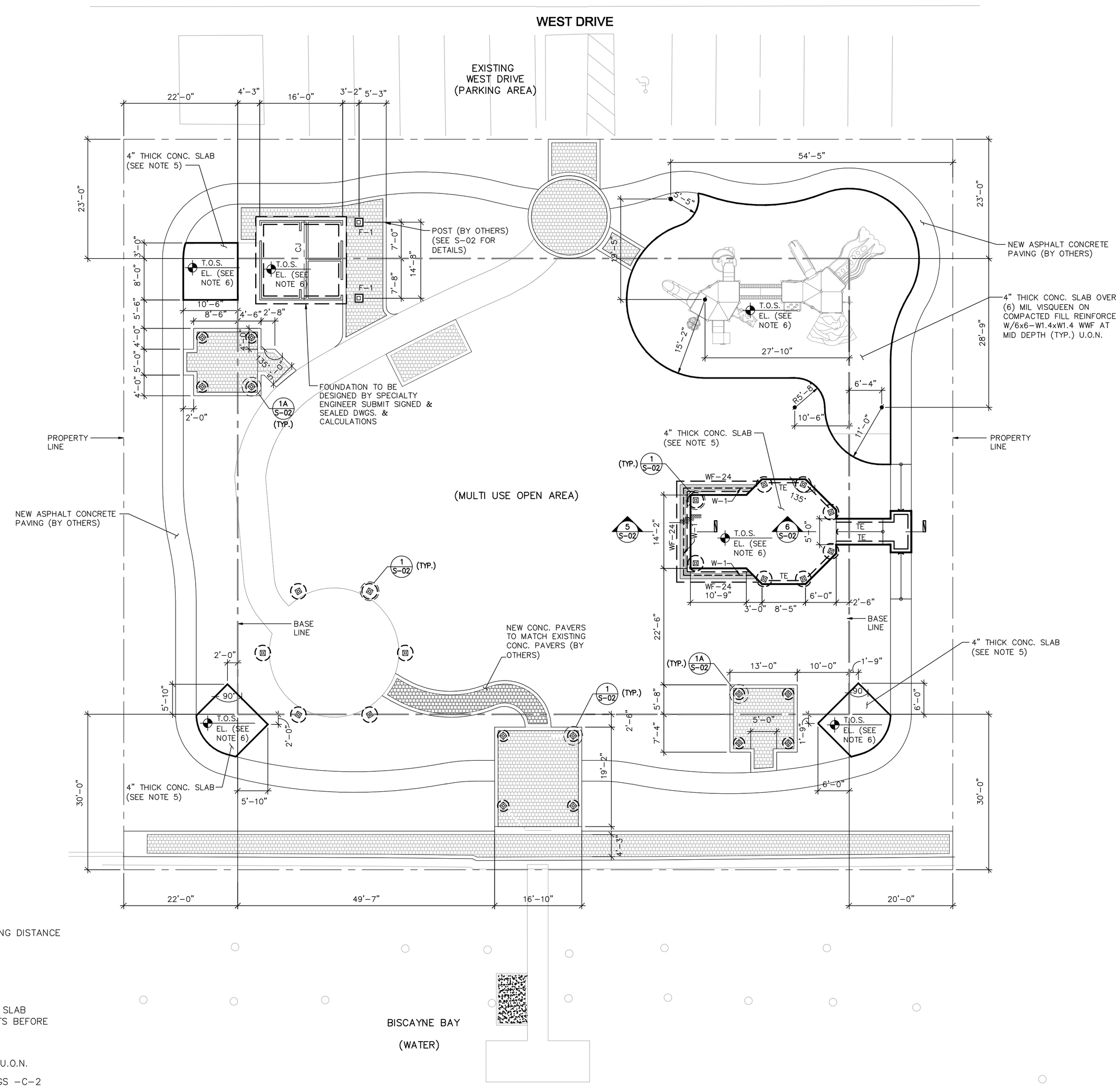
Dr. Paul Vogel Community Park
CITY OF NORTH BAY VILLAGE
LANDSCAPE PLANS

Project. No.
Scale:
Date: March 22, 2010
Drawn:
Checked:
CADD File:

Drawing Title:

GENERAL STRUCTURAL NOTES

Sheet No. S-00



NOTES:

1. TOP OF SLAB ELEVATION TO BE AT EL. + 0'-0" (TYP.) UNLESS OTHERWISE NOTED AS THUS (+/-) ON PLAN INDICATING DISTANCE ABOVE OR BELOW FLOOR ELEVATION.
2. TOP OF FOOTING ELEVATION TO BE EL. -1'-0" (TYP.) UNLESS OTHERWISE NOTED THUS (+/-) ON PLAN.
3. FOR GENERAL NOTES SEE GENERAL STRUCTURAL NOTES S-00
4. CONTRACTOR TO COORDINATE THE EXACT LOCATION OF CONC. SLAB W/ARCHITECTURAL & MANUFACTURER EQUIPMENT REQUIREMENTS BEFORE COMMENCING WORK.
5. 4" THICK CONC. SLAB OVER (6) MIL VISQUEEN ON COMPACTED FILL REINFORCE W/6x6-W1.4xW1.4 WWF AT MID DEPTH (TYP.) U.O.N.
6. FOR TOP OF SLAB ELEVATION COORDINATE WITH CIVIL DRAWINGS -C-2 PAVING, GRADING & DRAINAGE.

1	FOUNDATION PLAN
S-1	SCALE: 3/32" = 1'-0"

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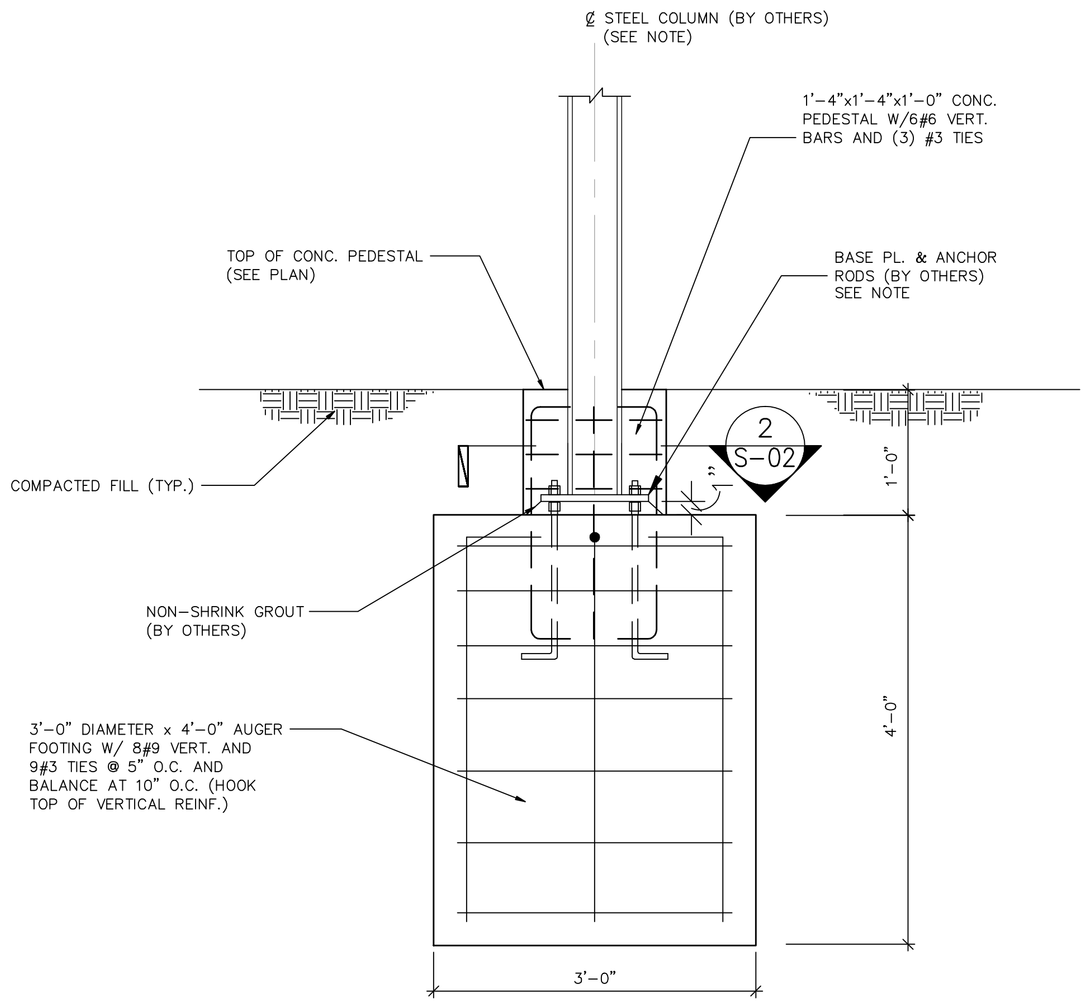
FOUNDATION PLAN

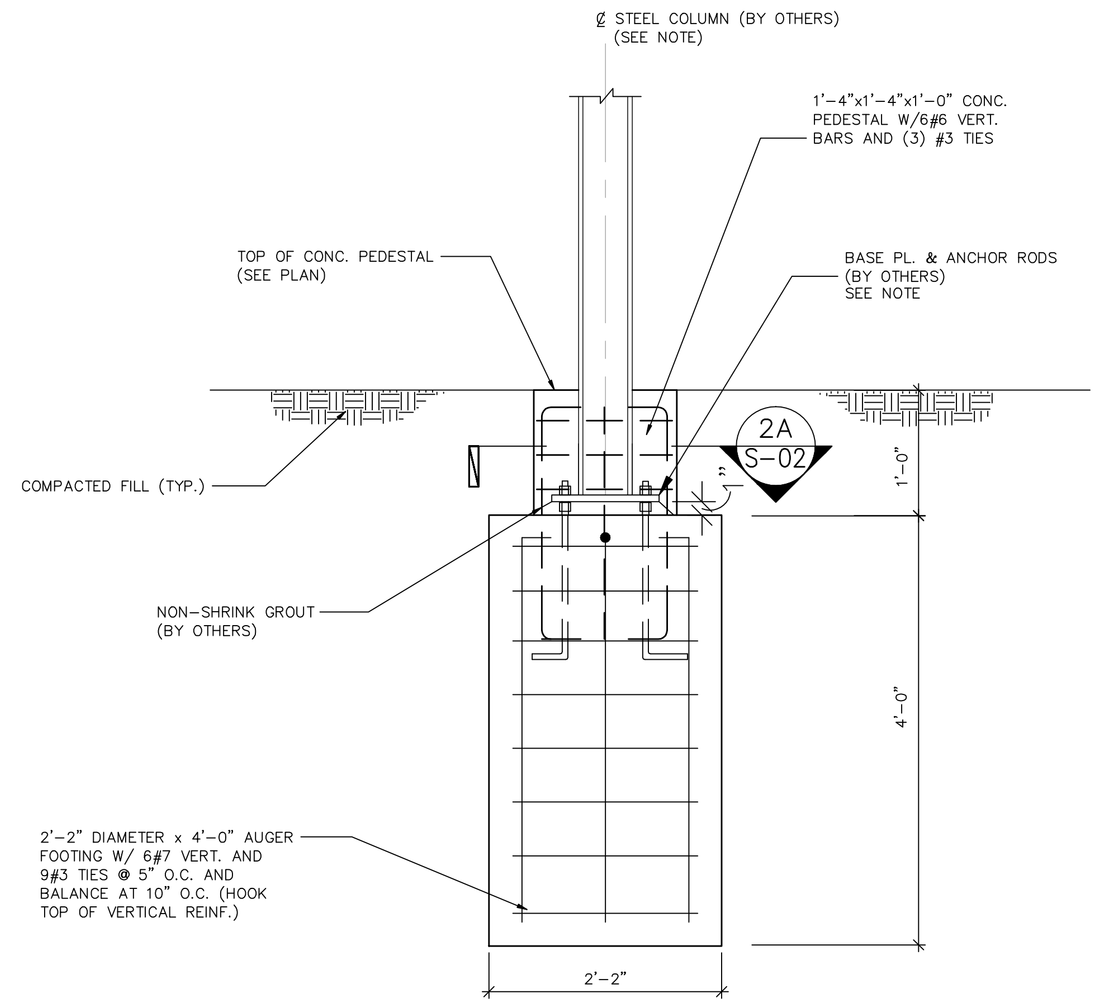
Sheet No. S-01



1 S-02 SECTION

SCALE: 1"= 1'-0"

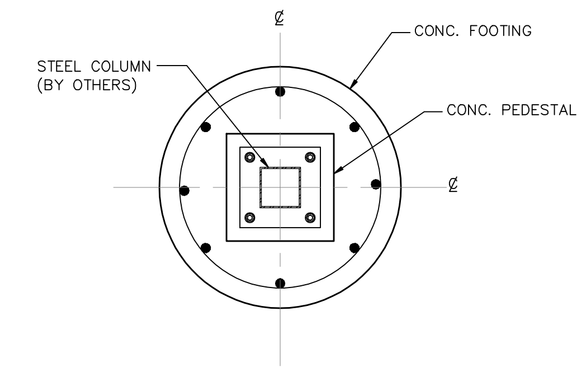
NOTE:
PREFABRICATED STEEL OCTAGONAL SHELTER TO BE DESIGNED BY SPECIALTY ENGINEER SUBMIT SIGNED & SEALED DWGS. & CALC'S FOR REVIEW & APPROVAL



1A S-02 SECTION

SCALE: 1"= 1'-0"

NOTE:
PREFABRICATED STEEL SHELTER TO BE DESIGNED BY SPECIALTY ENGINEER SUBMIT SIGNED & SEALED DWGS. & CALC'S FOR REVIEW & APPROVAL

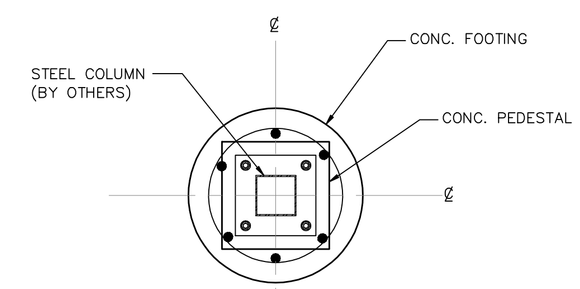


2 S-02 PLAN VIEW TYP.

SCALE: 1/2" = 1'-0"

NOTE:

- FOR FOOTING LOCATION COORDINATE W/LANDSCAPE DWGS. SEE S-01

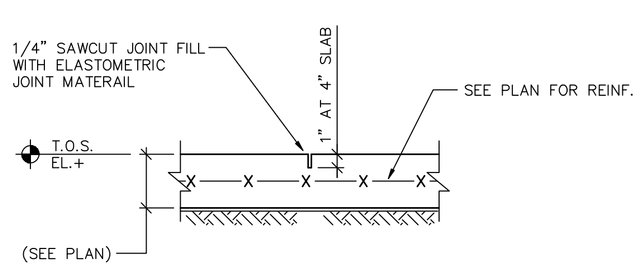


2A S-02 PLAN VIEW TYP.

SCALE: 1/2" = 1'-0"

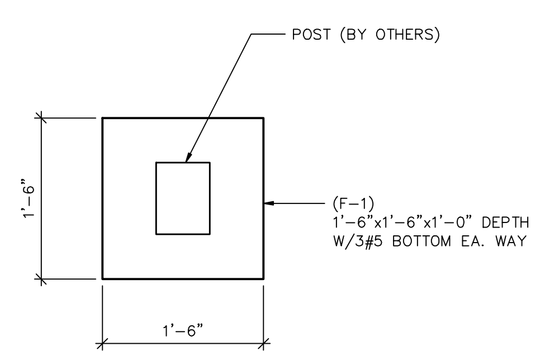
NOTE:

- FOR FOOTING LOCATION COORDINATE W/LANDSCAPE DWGS. SEE S-01



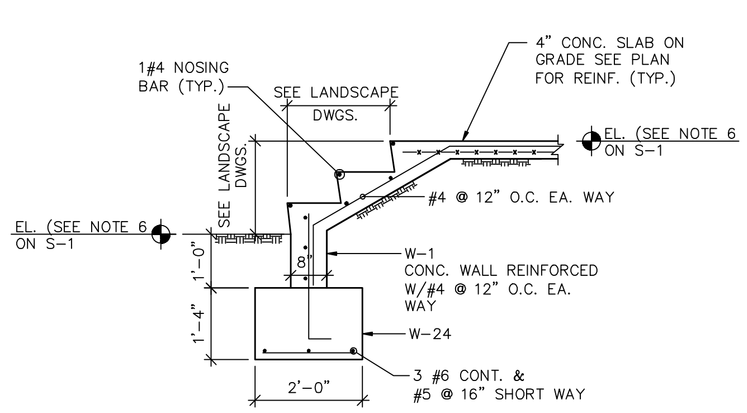
3 S-02 CONTROL JOINT (C.J.)

SCALE: 1 1/2" = 1'-0"



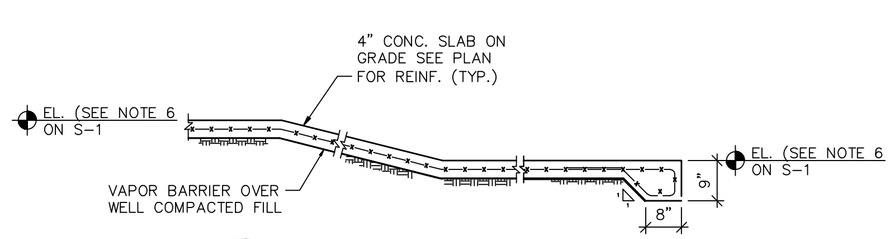
4 S-02 FOOTING (TYP.)

SCALE: 1"= 1'-0"



5 S-02 SECTION TYP.

SCALE: 1/2" = 1'-0"



6 S-02 SECTION TYP.

SCALE: 1/2" = 1'-0"

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CITY OF NORTH BAY VILLAGE
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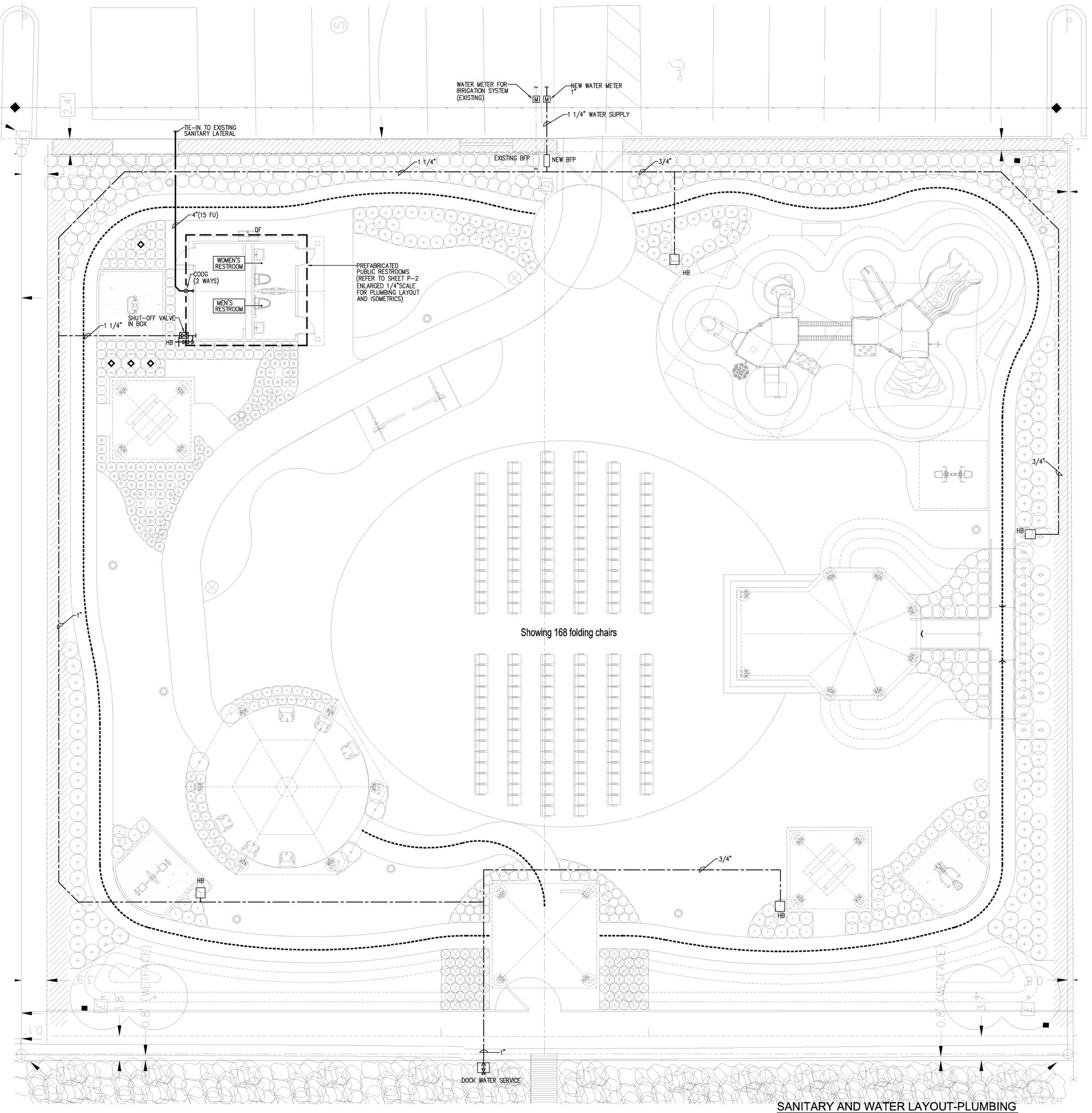
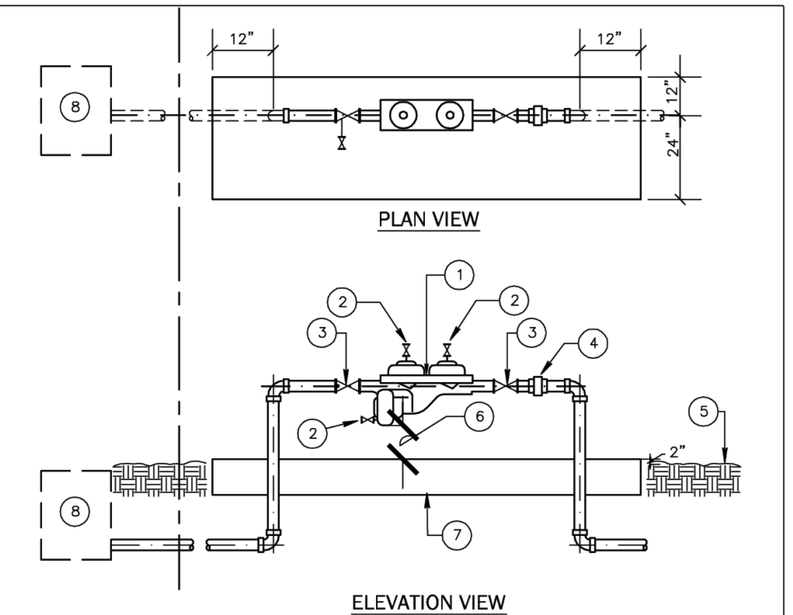
SECTIONS & DETAILS

Sheet No. S-02



SANITARY AND WATER LAYOUT-PLUMBING
SCALE: 1/8"=1.0'



NOTES:

1. WATTS SERIES 909 REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY
2. TEST COCK
3. BALL VALVE (TYP)
4. UNION
5. FINISHED GRADE
6. 12" MIN. ABOVE FLOOD LEVEL AND CONC. SLAB
7. 6" CONC. SLAB WITH #4 AT 12" E.W.
8. METER VAULT

1. THE ASSEMBLY SHALL BE INSTALLED WITH MINIMUM HORIZONTAL CLEARANCES OF 30 INCHES FREE FROM OBSTRUCTIONS IN SERVICE REQUIRED DIRECTIONS.
2. GUARD POSTS SHALL BE INSTALLED IF THE ASSEMBLY IS EXPOSED TO POSSIBLE DAMAGE FROM VEHICULAR TRAFFIC, AS DETERMINED BY AUTHORITY HAVING JURISDICTION.
3. PIPING SHALL BE AS INDICATED ON GENERAL DRAWING NOTES/PLUMBING SPECIFICATIONS.
4. ALL EXPOSED METALLIC THREADS SHALL BE PAINTED WITH BITUMASTIC PAINT.
5. THE AUTHORITY HAVING JURISDICTION SHALL HAVE UNRESTRICTED AND CONTINUOUS ACCESS TO THE BACKFLOW PREVENTION ASSEMBLY.

REDUCED PRESSURE BACKFLOW ASSEMBLY

N.T.S. FOR SERVICE SIZES 3/4" THRU 2"

JOB NO. 09-105

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RAFAEL PEÑA, JR. (16395)

Revisions:

No.	Date	Description

Project Name:

Dr. Paul Vogel Community Park

CITY OF NORTH BAY VILLAGE

LANDSCAPE PLANS

Project. No.	29064.000
Scale:	AS SHOWN
Date:	02-22-10
Drawn:	A.D. / E.C.
Checked:	R.P.J.
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Drawing Title:

SANITARY AND WATER LAYOUT PLUMBING

Sheet No. P-1.0

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GENERAL MECHANICAL NOTES:

SPECIFICATIONS

GENERAL INFORMATION

A. GENERAL
1. CONFORM TO ALL GENERAL AND SPECIAL CONDITIONS OF CONTRACT AS SPECIFIED BY ARCHITECT AND OWNER.
2. SPECIFICATIONS ARE APPLICABLE TO ALL CONTRACTORS AND/OR SUBCONTRACTORS FOR MECHANICAL SYSTEMS.
3. CHECK OTHER PLANS AND SPECIFICATIONS AND FULLY COORDINATE WITH OTHER SYSTEMS AND TRADES.
4. VSIT SITE, CHECK FACILITIES AND CONDITIONS, VERIFY ALL UTILITY CONNECTIONS, AND TAKE ALL ITEMS INTO CONSIDERATION IN BID.
5. SYSTEMS ARE TO BE COMPLETE AND WORKABLE IN ALL RESPECTS, PLACED IN OPERATION AND PROPERLY ADJUSTED.
6. EACH CONTRACTOR SHALL PROVIDE FOR HIS OWN CLEAN-UP, REMOVAL AND LEGAL DISPOSAL OF ALL RUBBISH ON A DAILY BASIS.
7. FULLY COORDINATE ALL WORK WITH OTHER CONTRACTORS, SUBCONTRACTORS, THE OWNER AND COOPERATE COMPLETELY.
8. CONTRACTORS MUST CONFIRM ALL UTILITY CONNECTION POINTS IN FIELD, PRIOR TO STARTING WORK.
9. ARRANGE FOR AND OBTAIN OWNER'S AND INSURANCE REPRESENTATIVE'S PERMISSION FOR ANY SERVICE SHUTDOWNS REQUIRED UNDER THIS CONTRACT.
10. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, SEQUENCES OF CONSTRUCTION AND THE SAFETY OF WORKMEN.

B. CODES, STANDARDS AND REGULATIONS
1. CONFORM TO ALL APPLICABLE CODES AND GOVERNMENT REGULATIONS.
2. OBTAIN PERMITS AND PAY ALL FEES. ARRANGE FOR ALL REQUIRED INSPECTIONS AND APPROVALS.

C. RELATED WORK SPECIFIED ELSEWHERE
1. OPENINGS AND CHASES, WHEN SHOWN ON ARCHITECTURAL DRAWINGS.

D. DRAWINGS
1. THE SYSTEMS ARE SHOWN ON MECHANICAL DRAWINGS. DRAWINGS ARE DIAGRAMMATIC. CONFIRM ALL DIMENSIONS BY FIELD MEASUREMENT.
2. THE INTENT IS FOR COMPLETE AND WORKABLE SYSTEMS. THE DRAWINGS AND THESE NOTES ARE TO BE USED TOGETHER AS A BASIS OF SHOWING AND/OR DESCRIBING THE SYSTEM REQUIRED FOR THE FACILITY.

E. BASE EQUIPMENT AND MATERIALS AND SUBSTITUTIONS
1. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND FREE OF DEFECTS AND U.L. LABELED.
2. BASE EQUIPMENT, MANUFACTURER, MODEL, AND CAPACITY OF EQUIPMENT ARE LISTED IN SCHEDULE ON DRAWING. ANY OTHER MANUFACTURER IS CONSIDERED A SUBSTITUTION.
3. SUBSTITUTIONS ARE SUBJECT TO THE APPROVAL OF THE OWNER. IF A SUBSTITUTION IS SUBMITTED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO EVALUATE IT AND CERTIFY THAT THE SUBSTITUTION IS EQUIVALENT IN ALL RESPECTS TO THE BASE SPECIFICATIONS.
4. IF SUBSTITUTIONS ARE APPROVED, NOTIFY ALL OTHER CONTRACTORS, SUBCONTRACTORS OR TRADES AFFECTED BY SUBSTITUTION AND FULLY COORDINATE. ANY COSTS RESULTING FROM SUBSTITUTION, WHETHER BY CONTRACTOR OR OTHERS, SHALL BE RESPONSIBILITY OF AND PAID FOR BY SUBSTITUTING CONTRACTOR.
5. ALL EQUIPMENT SHALL BE INSTALLED IN FULL ACCORDANCE WITH THE MANUFACTURER'S DATA AND INSTALLATION INSTRUCTIONS. IT IS THIS CONTRACTOR'S RESPONSIBILITY TO CHECK AND CONFORM TO THESE REQUIREMENTS PRIOR TO STARTING WORK.

F. CHECK, TEST, START, ADJUST, BALANCE AND INSTRUCTIONS
1. AFTER INSTALLATION AND SERVICING, CHECK ALL EQUIPMENT AND PERFORM START UP IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
2. ALL PIPING SHALL BE FULLY TESTED AND MADE FREE OF LEAKS.
3. INSTRUCT OWNER IN OPERATION OF SYSTEMS AND SUBMIT OPERATING AND MAINTENANCE MANUAL ON ALL EQUIPMENT AND SYSTEMS.

G. WARRANTY
1. FULLY WARRANT ALL MATERIALS, EQUIPMENT AND WORKMANSHIP FOR ONE (1) YEAR FROM DATE OF ACCEPTANCE.
2. REPAIR OR REPLACE WITHOUT CHARGE TO THE OWNER ALL ITEMS FOUND DEFECTIVE DURING THE WARRANTY PERIOD.

MECHANICAL SYSTEMS

PLUMBING SYSTEM

A. SCOPE
1. FURNISH ALL PLUMBING FIXTURES, EQUIPMENT AND MATERIAL INDICATED AND SHOWN ON DRAWINGS AND INSTALL COMPLETE AND PLACE IN PROPER OPERATION.
2. PLUMBING SYSTEMS TO ESSENTIALLY CONSIST OF THE FOLLOWING:
   A. SANITARY WASTE AND SANITARY SEWER EXTENDED TO OUTSIDE BUILDING.
   B. DOMESTIC WATER SERVICE EXTENDED FROM OUTSIDE BUILDING INTO BUILDING THROUGH BACKFLOW PREVENTER, WATER METER AND DISTRIBUTION SYSTEM TO NEW FIXTURES.
   C. PLUMBING FIXTURES WITH ALL REQUIRED TRIM AND EQUIPMENT.
   D. INSULATION OF PLUMBING ITEMS.
   E. OTHER PLUMBING ITEMS THAT MAY BE INDICATED OR SPECIFIED.

B. EXCAVATION AND BACKFILL
1. PERFORM ALL EXCAVATION AND BACKFILL REQUIRED FOR INSTALLATION OF BELOW-GRADE PIPING.
2. EXCAVATE TO DEPTH REQUIRED TO INSTALL PIPING AT REQUIRED LEVEL AND PITCH. PIPE TO BE LAID ON SAND BEDDING TO GIVE UNIFORM BEARING ALONG LENGTH OF PIPE INSIDE BUILDING.
3. BACKFILL WITH BEDDING MATERIAL TO A MINIMUM OF TWELVE (12) INCHES ABOVE TOP OF PIPES AND COMPACT. BALANCE OF BACKFILL SHALL BE SAND. ALL BACKFILL SHALL BE COMPACTED IN MAXIMUM TWELVE (12) INCH LAYERS.

C. CONNECTIONS TO EQUIPMENT FURNISHED BY OTHERS
1. CONTRACTOR TO COORDINATE SANITARY AND DOMESTIC WATER CONNECTIONS TO PLUMBING FIXTURES AND EQUIPMENT FURNISHED IN PREFABRICATED RESTROOM PAVILLION.
2. INCLUDE ACCESSORIES REQUIRED BY CODE, DRAWING OR MANUFACTURER'S INSTRUCTIONS.

D. SANITARY SEWERS
1. INSTALL SANITARY SEWERS, STACKS, VENTS, FLOOR DRAINS AND CLEANOUTS FOR PROJECT AND EXTEND TO EXISTING BUILDING FACILITIES AS INDICATED ON THE DRAWINGS.
2. SEWERS TO BE PITCHED A MINIMUM OF 1/4" PER FOOT FOR 2" SIZES AND UNDER AND 1/8" PER FOOT FOR 3" SIZES OR TO GRADES INDICATED ON DRAWINGS.
3. CHANGES IN DIRECTION AND BRANCH CONNECTIONS SHALL BE MADE WITH APPROVED DRAINAGE FITTINGS COMPATIBLE WITH THE PIPING SYSTEM MATERIAL IN WHICH IT IS INSTALLED.
4. ALL FIXTURES AND SANITARY DRAINS SHALL BE VENTED AS INDICATED ON DRAWINGS AND IN ACCORDANCE WITH CODE. VENTS ARE TO BE EXTENDED THROUGH ROOF AS INDICATED ON DRAWING AND FLASHED WITH 4 LB. LEAD WITH VENT FLASHING TOP TURNED DOWN TWO (2) INCHES MINIMUM INSIDE PIPE.
5. SEWER AND VENT MATERIAL SHALL BE AS FOLLOWS:
   A. ABOVE AND BELOW-GRADE INSIDE BUILDING – PVC-DWV PLASTIC ASTM D-1785 WITH ASTM D-2665 DWV SOCKET FITTINGS SOLVENT WELD.
   B. VENT THRU ROOF: CAST IRON SOIL PIPE NO-HUB TYPE WITH S.S. CLAMPS AND RUBBER GASKE, VANDALL PROOF TYPE.

E. CLEANOUTS
1. CLEANOUTS SHALL BE INSTALLED FLUSH WITH FINISHED FLOOR WITH PLATED COVERS.
2. CLEANOUTS TO BE AS FOLLOWS:

MARK	ITEM	DESCRIPTION
FCO	CLEANOUT	FLOOR TYPE, J. R. SMITH SERIES 4020 WITH SATIN FINISH BRONZE TOP OR EQUAL
WCO	CLEANOUT	EXPOSED TYPE, J. R. SMITH SERIES 4402 WITH STAINLESS STEEL ACCESS COVER OR EQUAL.

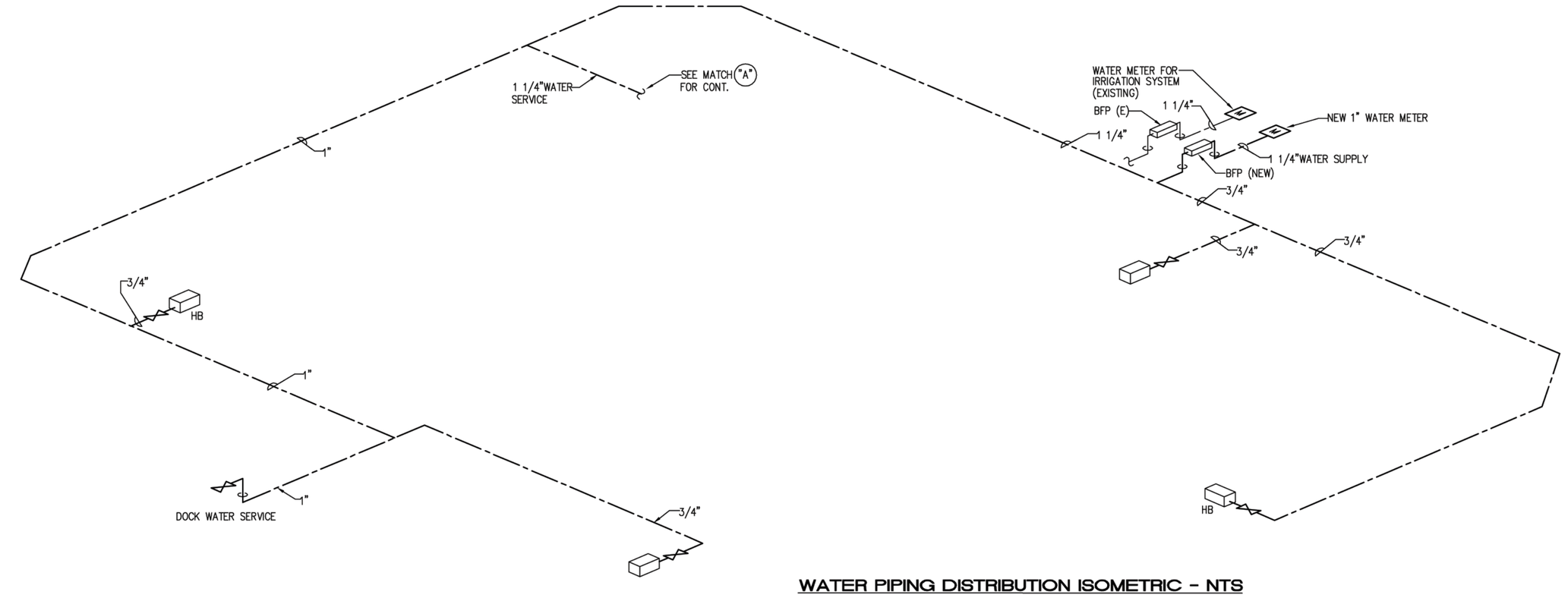
F. FIXTURES AND EQUIPMENT
1. FURNISH ALL FIXTURES AND EQUIPMENT INDICATED AND SCHEDULED ON DRAWINGS, COMPLETE WITH ALL ACCESSORIES, CONTROLS AND INSTALLATION ITEMS REQUIRED.
2. INSTALL IN FULL ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND PLACE IN SATISFACTORY OPERATION.
3. FIXTURES AND EQUIPMENT SHALL BE AS SPECIFIED ON DRAWING.

NOTE: AN "H" IN THE FIXTURE DESIGNATION INDICATES A HANDICAPPED ACCESSIBLE FIXTURE TO BE INSTALLED PER THE REQUIREMENTS OF A.D.A. AND ANSI REQUIREMENTS.

G. WATER PIPING
1. EXTEND DOMESTIC WATER FROM OUTSIDE BUILDING THRU BACKFLOW PREVENTOR TO WATER METER AS INDICATED ON DRAWINGS. INSTALL DOMESTIC WATER DISTRIBUTION PIPING TO ALL FIXTURES AND EQUIPMENT REQUIRING SAME, INCLUDING BACKFLOW PREVENTER. INCLUDE ALL FITTINGS, VALVES, HANGERS AND OTHER ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION.
2. INCLUDE UNIONS, OR OTHER DISCONNECT MEANS, STOPS OR VALVES FOR ISOLATION OF FIXTURES AND EQUIPMENT. VALVES TO BE FULLY COMPATIBLE WITH PIPING FOR SERVICE INTENDED AS MANUFACTURED BY NIBCO, CRANE OR OTHER APPROVED MANUFACTURER. INCLUDE HOSE OR DRAIN VALVES AT LOW POINTS WHERE FIXTURES CANNOT BE USED FOR DRAINAGE.
3. INSTALL AIR CUSHIONS OR SHOCK ABSORBERS AT EACH FIXTURE OR WHERE REQUIRED TO PREVENT WATER HAMMER. SHOCK ABSORBERS TO BE PRECISION PLUMBING PRODUCTS 15C SERIES, OR EQUAL.
4. HANGERS ON INSULATED PIPE TO BE OUTSIDE OF INSULATION, SIZED ACCORDINGLY AND WITH SUFFICIENT SADDLE TO PROTECT INSULATION.
5. WATER PIPING ABOVE GRADE SHALL BE TYPE "L" HARD COPPER ASTM B 88-832 WITH WROUGHT COPPER FITTINGS ASTM B 16.22-1980 AND NON-LEAD OR ANTIMONY SOLDER JOINTS AND TYPE "K" COPPER ASTM B-88 WITH WROUGHT COPPER BRAZED JOINTS BELOW GRADE.
6. FLUSH, VENT AND SANITIZE ALL WATER PIPING UPON COMPLETION.

I. SUPPORTS AND HANGERS
1. HANGERS AND SUPPORTS ARE TO BE PROVIDED TO PROPERLY SUPPORT, SECURE AND ALIGN PIPING AND TO MEET CONDITIONS. SPACING TO COMPLY WITH ASHRAE STANDARDS AND LOCAL CODE REQUIREMENTS.

J. INSULATION
1. INSULATE COLD WATER SUPPLIES AND P-TRAP, INCLUDING TAIL PIECE AND TRAP ARM UNDER ALL HANDICAP LAVATORIES WITH VINYL CLOSED CELL INSULATION, TRUEBRO MODEL 102 HANDI LAV-GUARD KIT.



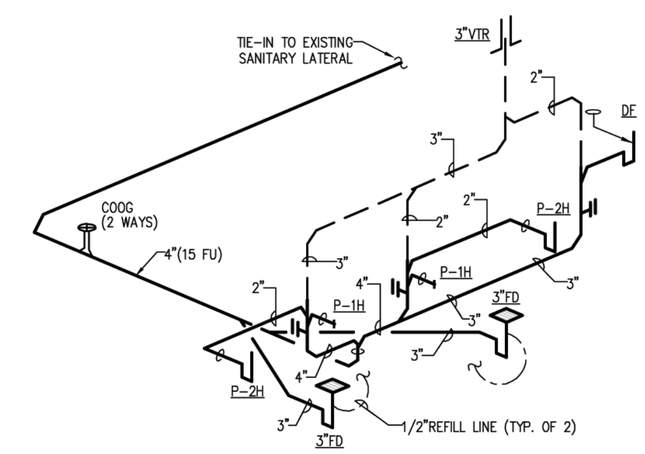
WATER PIPING DISTRIBUTION ISOMETRIC - NTS

FIXTURE CONNECTION SCHEDULE

MARK	DESCRIPTION	MAX. FLOW RATE	WASTE	COLD WATER	HOT WATER	REMARKS
P-1H	WATER CLOSET FV WALL TYPE H.C.	1.28 GPF	4"	1"	---	KOHLER: K-4325 SEAT: K-4731-C W/ FLOOR MOUNTED CARRIER SIMILAR JOSAM 12000 FV: SLOAN CROWN 111.1.28
P-2H	LAVATORY WALL H.C.	0.25 GEL CYCLE	1 1/2"	1/2"	---	KOHLER: K-2007 W/ FLOOR MOUNTED CARRIER SIMILAR JOSAM 17100
DF	DRINKING FOUNTAIN HC BI-LEVEL	---	1 1/2"	1/2"	---	ACORN AQUA MODEL A112408 B-FG-VR STAINLESS STEEL

NOTES:
1. PLUMBING FIXTURES, FAUCETS AND SHOWERS HEADS WATER CONSUMPTION SHALL MEET MIAMI DADE ORDINANCE 8-14
2. PLUMBING FIXTURES MANUFACTURER'S SPECIFICATIONS SHALL MEET FBC-PLUMBING SECTIONS 406 THRU 421
3. ALL LAVATORIES AND SINKS SHALL BE PROVIDED WITH C.P. BRASS SUPPLIES WITH WHEEL HANDLES, 17 GA. CP BRASS TRAPS WITH C.O. PLUG AND WITH ONE PIECE CHROME PLATED ESCUTCHEONS

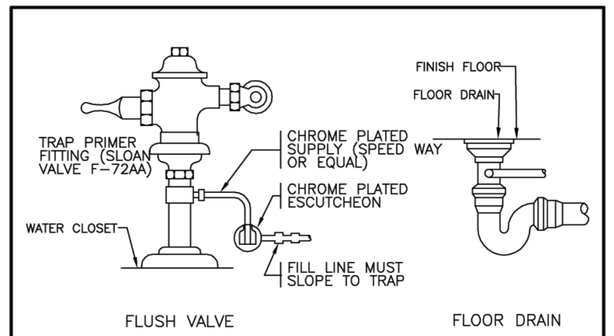
NOTES:
- ALL HORIZONTAL DRAIN PIPES 2"ø OR SMALLER SHALL BE SLOPED AT 1/4"/FT
- ALL HORIZONTAL DRAIN PIPES 3"ø OR LARGER SHALL BE SLOPED AT 1/8"/FT. MIN.
- PROVIDE AUTOMATIC TRAP RESEAL FOR ALL FLOOR DRAINS
- MAINTAIN ALL VTR'S 10 FT. AWAY MIN. FROM ANY OUTSIDE AIR INTAKE DEVICE.
- PROVIDE CLEANOUTS AT THE BASE OF ALL SANITARY STACKS
- ALL CLEANOUTS SHALL BE ACCESIBLE



SANITARY PIPING ISOMETRIC - NTS

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
	SANITARY LINE
	VENT LINE
	COLD WATER LINE
	GATE VALVE
	SHOCK ABSORBER
COOG	CLEANOUT ON GRADE
HB	HOSE BIBB WITH SHUT-OFF VALVE AND VACUUM BREAKER
HB	HOSE BIBB BOX TYPE BURRIED SIMILAR ZURN Z1360 (PROVIDE PROVIDE VACUUM BREAKER



TRAP RESEAL DETAIL
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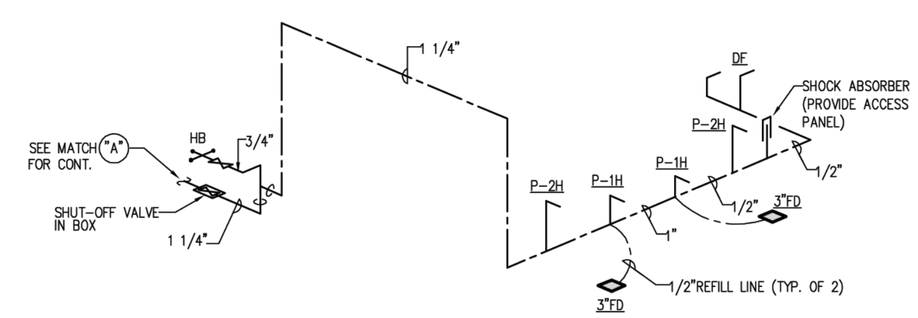
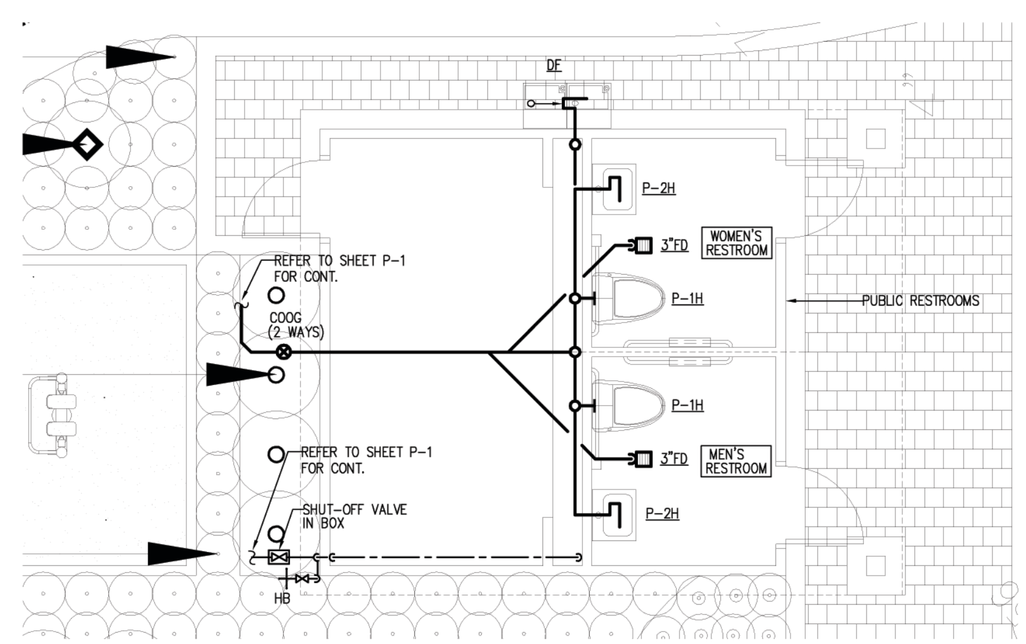


WATER PIPING ISOMETRIC - NTS



ENLARGED PUBLIC RESTROOM WOMEN'S AND MEN'S
SCALE:1/4"=1'-0"

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RAFAEL PEÑA, JR. (16395)

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SANITARY AND WATER LAYOUT, ISOMETRICS, NOTES, LEGEND, SCHEDULES-PLUMBING

Sheet No. P-2.0

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