



**CITY OF NORCO
STREETS, TRAILS AND UTILITIES COMMISSION
REGULAR MEETING AGENDA**

**Monday, April 4, 2016
City Council Chambers, 2820 Clark Avenue, Norco, CA 92860**

CALL TO ORDER: 7:00 p.m.

ROLL CALL: Sherry Walker, Chair
Cathey Burt, Vice Chair
William Naylor, Commission Member
Michael Thompson, Commission Member
James Turpin, Commission Member

PLEDGE OF ALLEGIANCE:

TO BE READ BY THE CHAIR: *"All discretionary actions before the Streets, Trails and Utilities Commission are advisory in nature and final actions will be confirmed, modified, or deleted by the City Council."*

1. **PUBLIC COMMENTS:** *This is the time when persons in the audience wishing to address the Commission regarding matters not on the agenda may speak. Please complete the speaker card in the back of the room and present it to the City Clerk so that you may be recognized.*
2. **APPROVAL OF MINUTES:**
 - A. STUC Regular Meeting Minutes of February 1, 2016
Recommended Action: Approve the STUC regular meeting minutes.
(Engineering Assistant)
3. **PRESENTATION ITEMS:**
 - A. Santa Ana River Trail and Parkway Update *(Deputy City Manager Petree)*
4. **DEPARTMENT OPERATION REPORTS**
 - A. Public Works Department Operations Report *(Superintendent Piorkowski)*
 - B. Capital Improvement Project Summary *(Associate Engineer Nelson)*
5. **DISCUSSION / ACTION ITEMS:**
 - A. Trail Standard Review and Approval
Recommended Action: Approve *(Public Works Director Blais)*
6. **COMMITTEE REPORTS:**
7. **COMMISSION / STAFF COMMUNICATIONS:**

ADJOURNMENT:

In compliance with the Americans with Disabilities Act, any person with a disability who requires a modification or accommodation in order to participate in this meeting, please contact the City Clerk's office, (951) 270-5623, at least 48 hours prior to the meeting to make reasonable arrangements to ensure accessibility.

(28 CFR 35.102-35.104 ADA Title II)

Staff reports are on file in the Public Works Department. Any writings or documents provided to a majority of the Streets, Trails and Utilities Commission regarding any item on this agenda will be available for public inspection at the City Clerk's Counter in City Hall located at 2870 Clark Avenue during normal business hours.

The meeting is recorded.



**CITY OF NORCO
STREETS, TRAILS AND UTILITIES COMMISSION
REGULAR MEETING MINUTES**

**Monday, February 1, 2016
City Council Chambers, 2820 Clark Avenue, Norco, CA 92860**

CALL TO ORDER: 7:00 P.M.

ROLL CALL: Sherry Walker, Chair, **Present**
Cathey Burt, Vice Chair, **Present**
William Naylor, Commission Member, **Present**
Michael Thompson, Commission Member, **Present**
James Turpin, Commission Member, **Absent**

PLEDGE OF ALLEGIANCE: Commission Member Naylor

TO BE READ BY THE CHAIR: "All discretionary actions before the Streets, Trails and Utilities Commission are advisory in nature and final actions will be confirmed, modified, or deleted by the City Council."

1. **PUBLIC COMMENTS OR QUESTIONS:** None

2. **APPROVAL OF MINUTES:**

A. November 16, 2015 Joint Meeting of the Parks and Recreation Commission and Streets, Trails and Utilities Commission. **Recommended Action: Approval**
(*Engineering Assistant*)

M/S BURTT/THOMPSON to approve the meeting minutes of the Parks and Recreation Commission and Streets, Trails and Utilities Commission joint meeting as presented.

The motion was carried by the following roll call vote:

AYES: WALKER, BURTT, NAYLOR, THOMPSON
NOES: NONE
ABSENT: TURPIN
ABSTAIN: NONE

B. Regular Meeting of December 7, 2015. **Recommended Action: Approval**
(*Engineering Assistant*)

M/S NAYLOR/BURTT to approve the regular meeting minutes of December 7, 2015 as presented. The motion was carried by the following roll call vote:

AYES: WALKER, BURTT, NAYLOR, THOMPSON
NOES: NONE
ABSENT: TURPIN
ABSTAIN: NONE

3. PRESENTATION/ACTION ITEMS:

A. Introduction of Public Works Director Chad Blais (*Deputy City Manager*)

Deputy City Manager Petree introduced the City's new Public Works Director Chad Blais, noting his extensive background in water and sewer.

Director Blais stated he is looking forward to working with the Commission and addressing any concerns.

Chair Walker welcomed Director Blais and stated the Commission is looking forward to working with him.

4. DEPARTMENT OPERATION REPORTS

A. Department Operations Report Public Works (*Public Works Superintendent*)

Superintendent Piorkowski presented the department operation report on file.

Director Blais inquired if trash pick-ups completed by Public Works are taken to the City Yard. Superintendent Piorkowski stated that by the direction of the City Council, Public Works provides the pick-up as a courtesy although it is part of the City's contract with Waste Management.

Commission Member Naylor noted he was informed by Waste Management it would be quicker to contact the City for pick-ups since Waste Management needed approval from the property owner. Superintendent Piorkowski noted the need for approval with Waste Management is due to the number of allowable bulky item pick-ups per resident, per year.

Deputy City Manager Petree stated he will bring this issue up at the next meeting with Waste Management.

Commission Member Naylor inquired on the status of the Third Street Improvement Project. Superintendent Piorkowski stated there are a few punch list items still remaining.

Commission Member Naylor inquired about the status of the replacement of reflective signs on barricades located at Valley View Avenue and River Drive; and if the Public Works Department keeps signs in stock. Superintendent Piorkowski stated he will check on the request and that the City does keep signs of a critical nature in stock, others are ordered as needed.

Chair Walker stated the Navy property is full of tumbleweeds and needs maintenance. Superintendent Piorkowski stated the recent windstorm happened before the Navy could do their annual maintenance. He noted there has been an abundance of tumbleweeds this year since they are drought tolerant. Deputy City Manager Petree noted the City has addressed the Navy regarding this issue.

Commission Member Naylor inquired if there has been a response from the Army Corp of Engineers regarding the drain at River Drive and Valley View Avenue. Deputy City Manager

Petree stated the City has been trying to communicate with the appropriate party.

B. Capital Improvement Project Summary (*Associate Engineer*)

Associate Engineer Nelson presented an update on Capital Improvement Projects currently underway and in the design phase.

5. DIRECTOR ACTION ITEMS: None

6. COMMITTEE REPORTS

A. Maintenance and Operations Trails, Trail Fencing, Streets (Commissioners Turpin and Thompson)

Deputy City Manager Petree stated there is a request from a resident to access the backyard trail. Once the request is submitted in writing, it will be brought to the Commission for approval. Commission Member Thompson stated the code is clear that motorized vehicles are not allowed on the trail. Deputy City Manager Petree noted several locations being looked at around the City that are currently being accessed by motorized vehicles. This issue will be developed and brought back to the Commission as a whole. He also stated the Trail Fencing Standard needs clarification regarding the gaps on each side of the driveway.

Deputy City Manager Petree stated a subcommittee will be formed with members from STUC, Parks and Recreation, EDAC and a Council Member to discuss marketing opportunities and strategies for bringing new events to the City.

Commission Member Thompson stated the trail fencing standard needs to be addressed. Chair Walker stated the Commission went through the process but does not think it was taken to Council.

Superintendent Piorkowski noted there are conflicting standards. The Trail Fence Standard exhibit shows fencing to the edge of the driveway but does not call for it and is not stated in the notes. The driveway standard is very clear and states there should be nothing within four feet of the wings of the driveway. It should have been noted on the fencing standard to reference the driveway standard.

Director Blais stated the standard does not need to be taken to council. It should be done by the Engineer and the date revised on the standard. He noted, as with hydrants, fencing should be placed four to five feet away from driveways for access reasons.

Deputy City Manager Petree stated this is such a sensitive issue that the City Council should be part of the conversation. He also stated fencing in the hills was installed by the developer, not the City. It was installed right up to the driveway and over time residents have removed portions of the fencing.

Vice Chair Burt stated that past discussions with the Commission consisted of how much trail fencing there is within the City, the cost of installation and maintenance of the fencing, how to make it look more uniform and address access issues.

Deputy City Manager Petree stated the Standard is from 1992, it has not been amended other than the addition of the new vinyl fence standard and does not define a gap policy. He noted that he is having difficulty locating the findings of the Commission from previous discussions dating back to 2005.

Commission Member Naylor inquired about the next step of this process and stated he would like to move this along by agendizing it. Director Blais recommended adding the language and findings of the subcommittee to the Standard and having it brought back at a future meeting.

Deputy City Manager Petree suggested that a special meeting could be held for this discussion if needed.

Commission Member Naylor stated the Norco Horsemen's Association has been volunteering to help repair wood trail fencing and have tried to use the criteria provided by Deputy City Manager Petree but have come across some instances where the residents request a section not be replaced for access purposes.

Chair Walker inquired if the white vinyl fencing is available in different lengths. Superintendent Piorkowski noted the sections are eight-foot; there would be an additional cost to have the eight-foot length to be cut down.

Chair Walker stated she has seen locations where there is a gap around trees. Superintendent Piorkowski noted typically there is a gap of two feet past a mature sized tree, and nothing within three feet of a hydrant based on the recommendation of the Fire Department. He stated this is where the gap policy came into place. The Commission had discussed it, agreed upon it and took action but it was never moved into the Standard. Deputy City Manager Petree also noted it had been discussed at the City Council level based on the recommendation of the Commission.

Director Blais recommended that the Engineer add the notes to all associated standards, have the subcommittee review, and bring it back to the Commission for any recommendations. Once this is complete it will then be presented to City Council for approval.

Commission Member Naylor inquired about trail maintenance responsibilities, stating the code is ambiguous where this is concerned. Superintendent Piorkowski stated City staff will be looking at the details of the code to make it more clear and concise. Director Blais stated no matter how clear the code is, the Public Works Department will still receive the call and respond. He noted ambiguity is common in most codes because it allows for some leeway on both sides.

Commission Member Naylor asked to meet with Superintendent Piorkowski for guidance placing sandbags in the trail to channel water at the entrance to the riverbed from Hillside Avenue. Superintendent Piorkowski agreed to meet and supply the sandbags.

Commission Member Naylor inquired about possible funding sources for trails. Deputy City Manager Petree noted the complexities of dealing with grants and stated that it needs to be discussed and review options available.

B. Asset Programming and Joint Meeting Subcommittee of Streets, Trails and Utilities Commission (STUC) and Parks and Recreation Commission

8. **ADJOURNMENT: Chair Walker adjourned the meeting at 8:01 P.M.**

Shannon Dahl
Engineering Assistant

DRAFT

CITY OF NORCO STAFF REPORT

TO: Parks and Recreation Commission

FROM: Brian K. Petree, Deputy City Manager/Director of Parks,
Recreation and Community Services

PREPARED BY: Terrence Piorkowski, Superintendent
Public Works Field Operations

DATE: March 31, 2016

SUBJECT: Public Works Department Field Operations Report

RECOMMENDATION: Receive and File

This memo is for your information and serves to identify updates within the Department's Divisions. Below you will find the summarized activities of the Operations Division for the months of February and March 2016.

Division 801 – Streets

Division 802 – Drains

Seasonal drain cleaning is ongoing as needed within the City with the focused areas being within those zones subject to heavy debris and sedimentation.

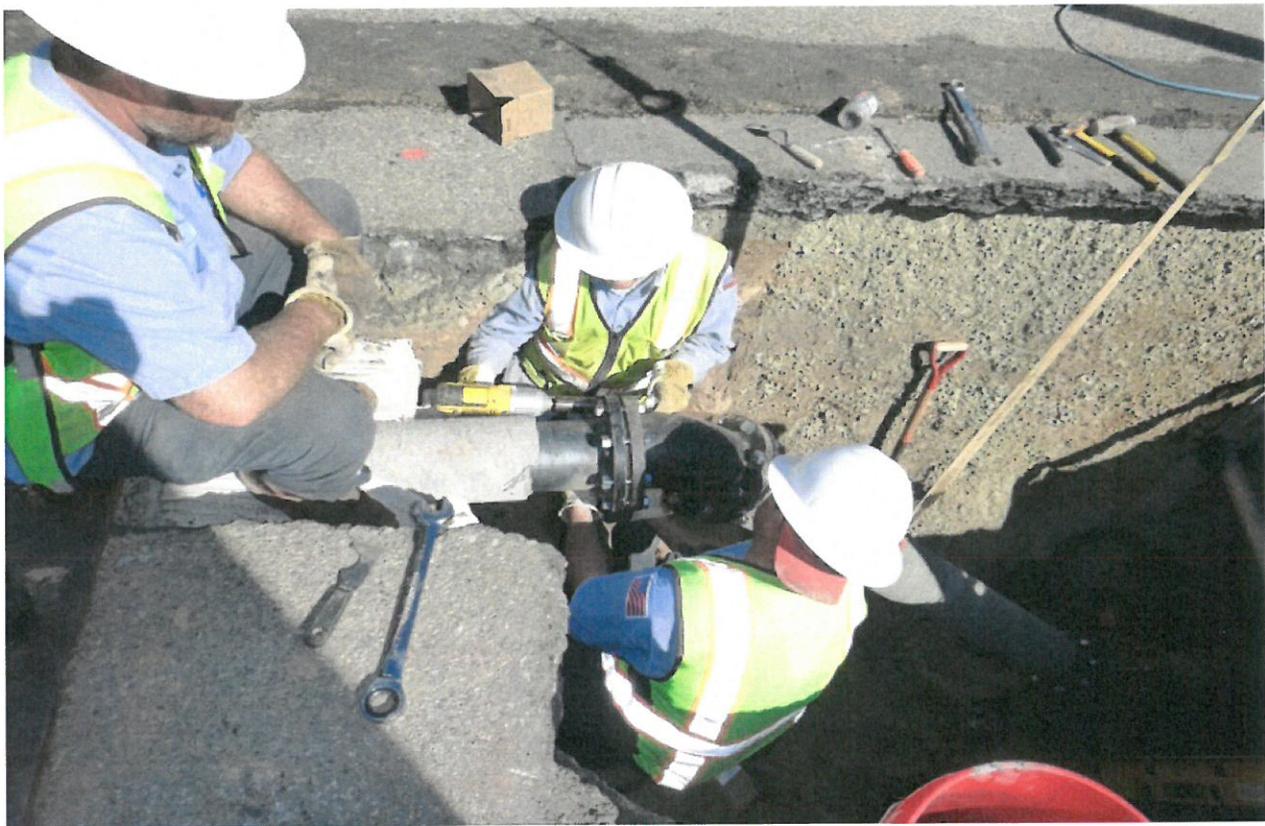
Crestview debris control area – The measures installed in the Crestview debris control area have functioned beyond expectation. Following the few moderate storms we have weathered, there have been apparent and recognizable reductions in the both the quantity of debris released from the areas as well as the velocity and destructive power of that debris.

Division 804- Potable Water

Maintenance of the 122+ miles of potable water system is a continual effort undertaken by the State certified Operations Division employees. February and March resulted in over 87 customer responses including

- 13 hydrant repairs
- 53 feet of mainline replaced as part of various leak repairs
- 7 mainline leaks
- 5 emergency mainline shutdowns
- 6 meter leaks
- 91 meter instrument repairs
- 6 various repairs to our pump and reservoir sites
- 24 service line repairs
- 2 service line upgrades

At 2691 Bronco Lane the 6" potable mainline that is located 7 feet deep under the street developed a leak approximately midway below the flood control box it runs beneath. Estimates from outside contractors were received to replace the leaking pipeline under the concrete box at a cost in excess of \$20,000.00 not including the required parts. A Field Operations crew led by Public Works Maintenance 1 Lyndon Lorange inserted an in-house fabricated custom "dogleg" and re-routed the mainline over the flood control box using heavy gauge (1/4 wall) concrete mortar lined and coated pipe. PWMW1 Lorange volunteered to lead a 2 man crew of new employees (hired less than 30 days ago) to accomplish the field fabrication and insertion of the custom dogleg. Kudos to Lyndon and his crew on a job well done that was excavated, field fabricated, installed, sterilized and placed in service in less than 3 work days.

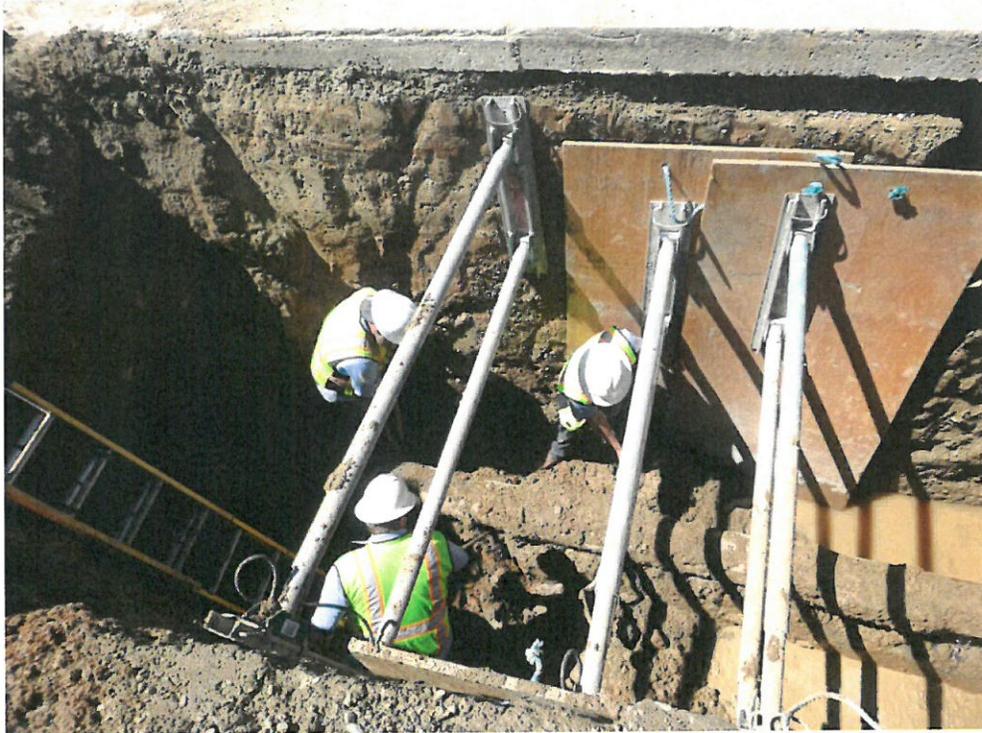




On Wednesday 03/23/2016 Field Operations on call staff were notified of a large damaging water leak at the intersection of Pacer and Dales. Responding staff members executed an emergency mainline shutdown to control the unplanned potable water release that effected service to approximately 60 customers. Once the leak was controlled and additional street damage prevented, staff was able to locate inline valves that allowed them to restore service to all customers affected by the shutdown while still maintaining isolation of the failed water mainline.



The mainline at this location is a 10 inch diameter steel water main that was installed 8 feet deep to allow clearance for an adjacent storm drain cross tube. Staff excavated the failed mainline, placed hydraulic excavation shoring and installed 17 feet of new 10 inch mainline to replace the failed line. All valves were reopened, circulation of the water system was restored and the excavation was backfilled and compacted.



As a result of the severity of the leak, a large section of the asphalt street was damaged and must be replaced. Replacement of the asphalt will be done by outside contractor.

To assist with the maintenance of the potable water system, the City has contracted with Wach's Water Services to conduct Fire hydrant testing and isolation valve exercising.

In excess of 1,000 routine water samples were processed in the ongoing effort to assure the water quality delivered to the residents of our City. All results indicated the water delivered by the City meets or exceeds State and Federal quality guidelines.

Division 809 – Sewers and Reclaimed Water

The Field Operations Division operates the sewer collection system for the City of Norco that encompasses 120+ miles of sewer mainline serving 7000 connection points. Also part of this collection system are 12 sewer pump stations, 6 metering stations and one auger/grinder station that is located outside the prison. In the months of February and March Operations staff responded to 14 customer concerns, conducted 19 "Permit Required" confined space entries into hazardous spaces, performed 18 instances of pump station maintenance, 10 mechanical station repairs, 13 station vectors to remove accumulated grease and debris and chemically treated 17 sewer laterals for roots..

The most frequent repair and recurring maintenance concern continues to be the introduction of so called "flushable wipes" into the collection system.

Division 850 – Parkways and Trails

As part of the effort to maintain the City's vast trail system, in February and March Operations staff members addressed approximately 244 customer service requests. Along with general grading of the trail area staff members placed over 125 tons of DG at various locations in the trail system. Fence repairs included the replacement of 54 fence posts and 72 rails.

MEMORANDUM

TO: Streets and Trails Commission
FROM: Sam Nelson, Associate Engineer
DATE: April 4, 2016
SUBJECT: Capital Improvement Project Summary
RECOMMENDATION: Receive and File

The following is a summary of Capital Improvement Projects currently in construction:

Third Street Improvement Project:

The project has been completed with the Contractor finishing the remaining work within the next 2 to 3 weeks. The project entailed the reconstruction of Third Street with curb & gutter along with storm drain and trail improvements.

Bluff Street & Western Avenue Water Improvement Project

The Contractor is currently performing the asphalt repair work along Bluff Street and will be complete with the work within the next week.

The project entails the installation of approximately 4,000 linear feet of 6", 10", 12" and 16" waterlines (including new hydrants and residential water services) to replace the aging distribution system.

Norco MDP Line NB-3

Design has been completed on the new Storm Drain (Norco MDP Line NB-3) being constructed in Corona Avenue between Fourth and Fifth Street. The City anticipates a bid opening date in early May with Construction beginning in June of this year. The project entails the installation of approximately 650 linear feet of 24" and 30" pipe with two curb inlet catch basins.

The following is a summary of Capital Improvement Projects currently in the design phase:

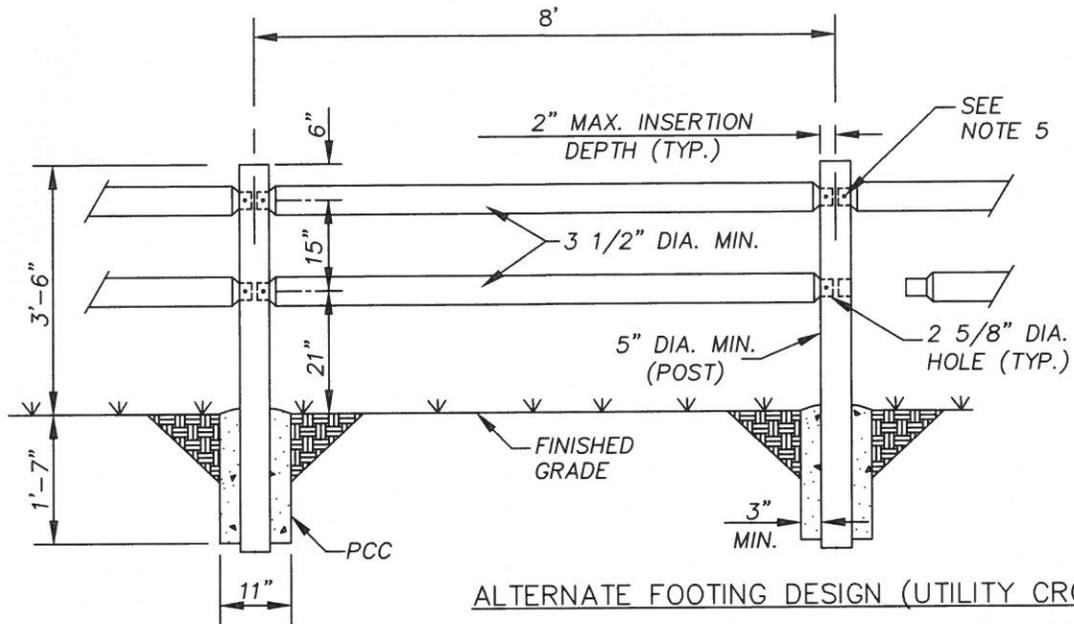
1. Various Storm Drain Projects
 - a. Temescal Avenue (between River Dr. and Seventh)
 - b. Pedley Avenue (Riverview Elementary)

2. Various Waterline Projects

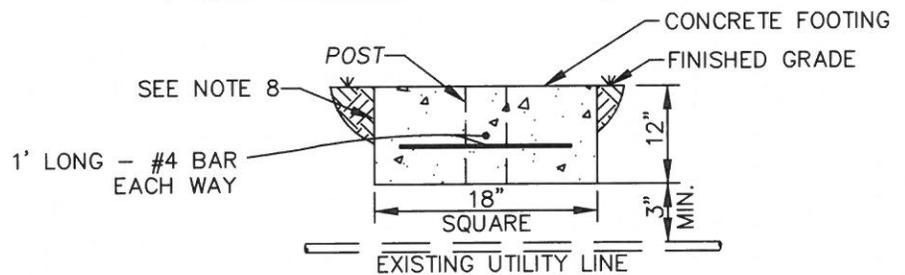
- a. Reservoir 8 Project (Installation of 2-1 million gallon reservoirs on the City's property located at the intersection of Bluff Street and River Road.)

CITY of NORCO STANDARD DRAWING

(REPLACEMENT OF EXISTING ONLY)



ALTERNATE FOOTING DESIGN (UTILITY CROSSING)



NOTES:

1. THE TOP OF THE POST SHALL NOT EXCEED 6" ABOVE THE TOP RAIL
2. THE HEIGHT ABOVE THE GROUND OF THE CENTERLINE OF THE TOP RAIL SHALL BE 36".
3. THE CENTER-TO-CENTER DISTANCE BETWEEN THE TOP AND BOTTOM RAILS SHALL BE 15".
4. ALL POSTS AND RAILS SHALL BE FULLY PRESSURE TREATED WITH EITHER COPPER AZOLE OR ALKALINE COPPER QUATERNARY. POSTS AND RAILS SHALL EXHIBIT A MINIMUM PRENENTRATION OF 1/8" ON ALL TREATED SURFACES.
5. INSERTION DEPTH OF THE RAIL INTO THE POST SHALL BE 2". NAILS SHALL BE 16d COMMON, GALVANIZED-RING OR 3" STEEL DRYWALL SCREWS. ONE NAIL OR SCREW PER EACH RAIL ON ONE SIDE OF POST.
6. CONCRETE SHALL BE 500-C-2500.
7. POLE FENCING MATERIAL SHALL BE EITHER CEDAR OR LODGE POLE PINE.
8. WOOD POSTS SHALL BE LOCATED BETWEEN 4' (MINIMUM) AND 8' (MAXIMUM) AWAY FROM DRIVEWAYS.
9. WOOD POSTS SHALL BE LOCATED 3' AWAY FROM FIRE HYDRANTS AND TREES.
10. IN CASE OF CONFLICT BETWEEN POST FOUNDATION AND UNDERGROUND UTILITIES, CONTRACTOR SHALL CONSTRUCT POST FOUNDATION PER ALTERNATE FOUNDATION DETAIL SHOWN ABOVE. CONTRACTOR SHALL PROTECT UNDERGROUND UTILITY IN PLACE DURING CONSTRUCTION.

REVISION	NO:	BY:	DATE:	NO:	BY:	DATE:

Drawn By: SJN

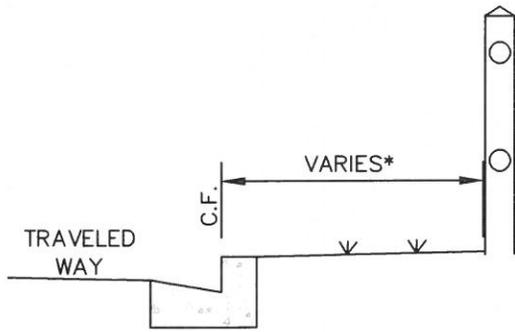
Date: 03/31/16

APPROVED: _____
CITY ENGINEER RCE

WOOD EQUESTRIAN TRAIL FENCING DETAIL

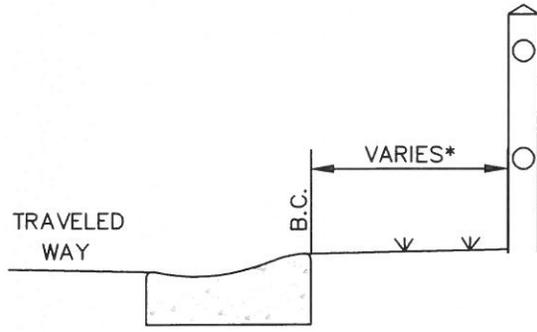
Std. Dwg. No.
705
Sheet 1 of 2

CITY of NORCO STANDARD DRAWING



BARRIER CURB ADJACENT

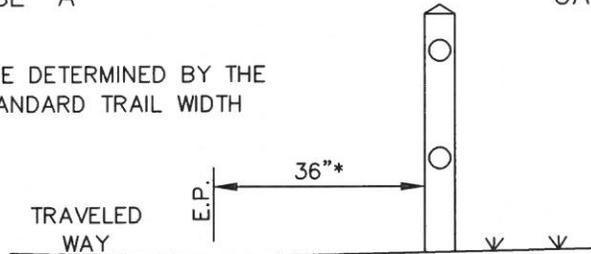
CASE "A"



ROLLED CURB ADJACENT

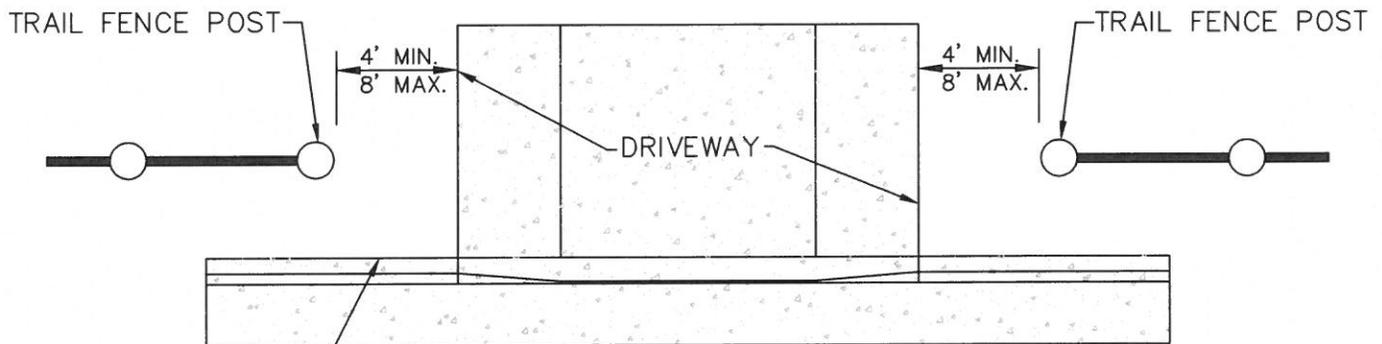
CASE "B"

* THIS DIMENSION IS TO BE DETERMINED BY THE CITY TO MAINTAIN A STANDARD TRAIL WIDTH IN THE AREA.

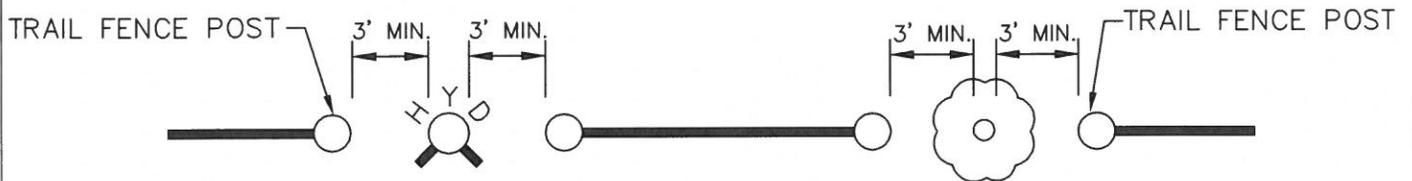


EDGE OF PAVEMENT ADJACENT

CASE "C"



FENCE PLACEMENT AT DRIVEWAYS



FENCE PLACEMENT AT TREES & FIRE HYDRANTS

REVISION	NO:	BY:	DATE:	NO:	BY:	DATE:

Drawn By: SJN Date: 03/31/16 APPROVED: _____
CITY ENGINEER RCE

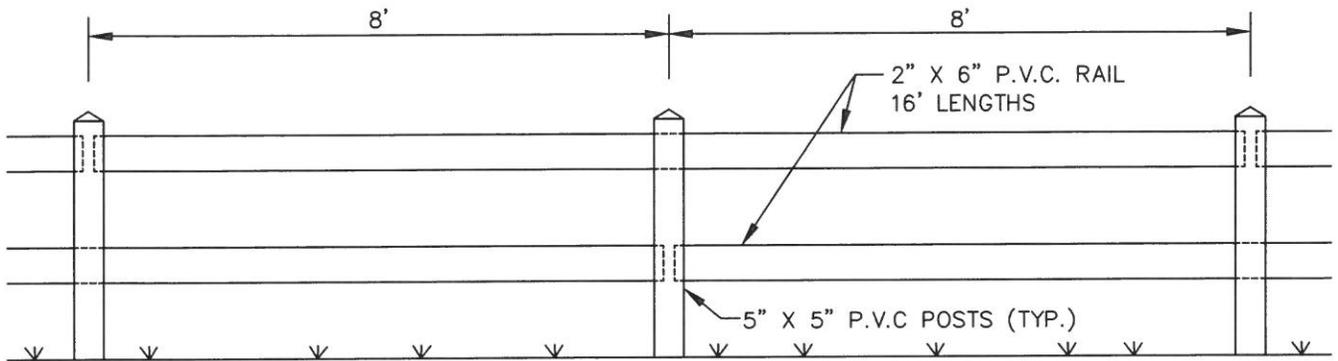
WOOD EQUESTRIAN TRAIL FENCING DETAIL

Std. Dwg. No.
705
Sheet 2 of 2

CITY of NORCO STANDARD DRAWING

(NEW CONSTRUCTION ONLY)

*REPLACEMENT OF EXISTING WOOD FENCE WITH PVC FENCE MUST BE APPROVED BY THE PUBLIC WORKS DEPT.

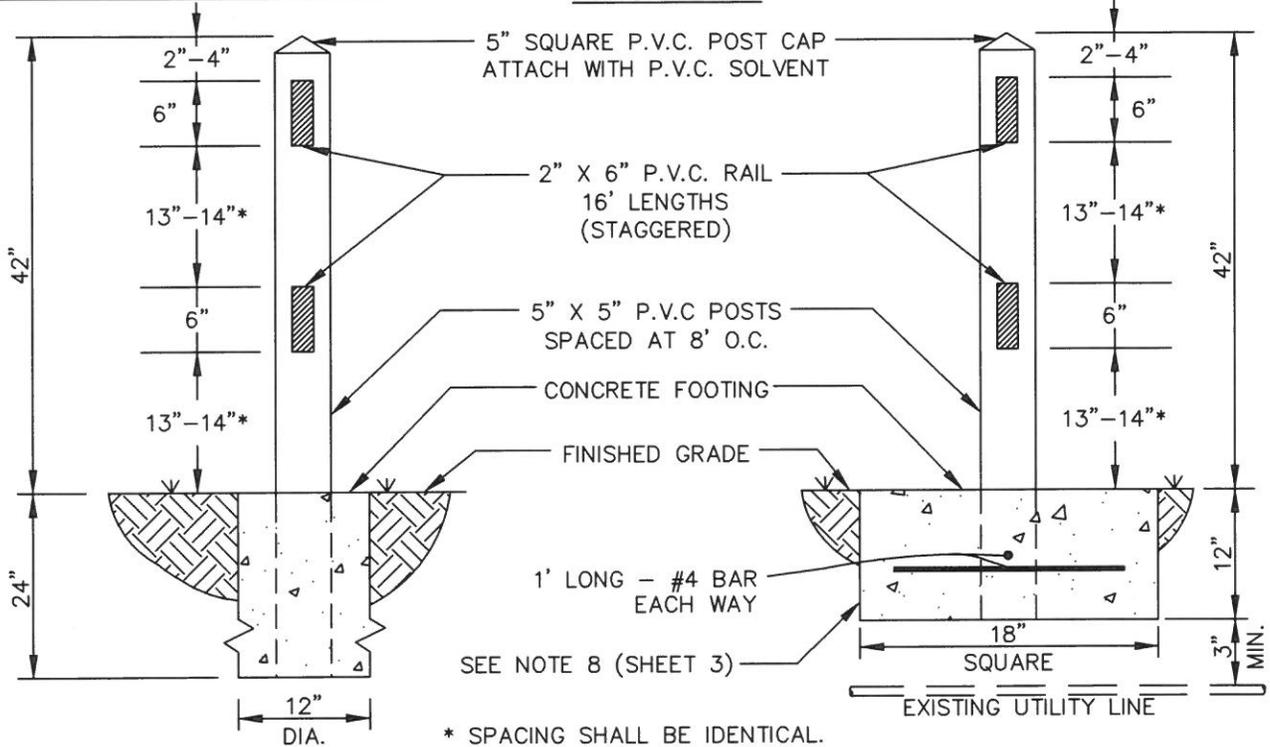


RAILING PLACEMENT

STANDARD FOOTING DETAIL

P.V.C. FENCE

ALTERNATE FOOTING DETAIL



REVISION	NO:	BY:	DATE:	NO:	BY:	DATE:

Drawn By: SJN

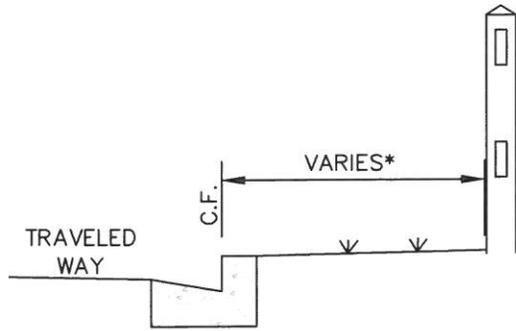
Date: 03/31/16

APPROVED: _____
CITY ENGINEER RCE

PVC EQUESTRIAN TRAIL FENCING DETAIL

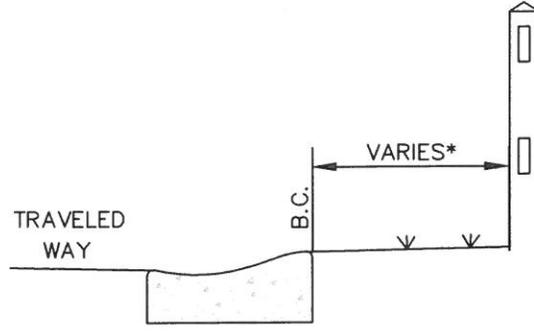
Std. Dwg. No.
706
Sheet 1 of 3

CITY of NORCO STANDARD DRAWING



BARRIER CURB ADJACENT

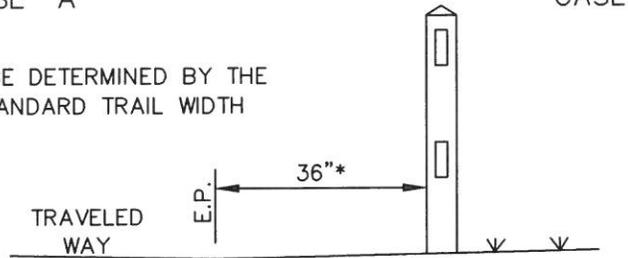
CASE "A"



ROLLED CURB ADJACENT

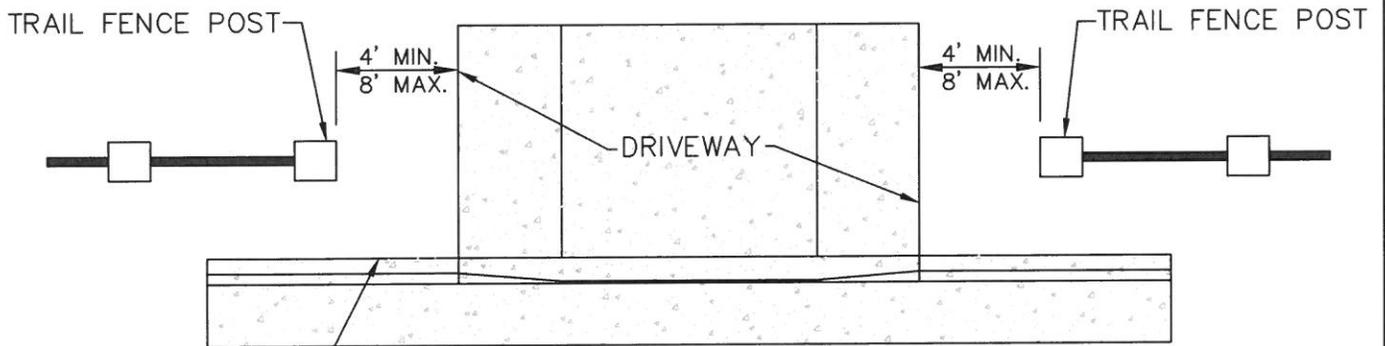
CASE "B"

* THIS DIMENSION IS TO BE DETERMINED BY THE CITY TO MAINTAIN A STANDARD TRAIL WIDTH IN THE AREA.



EDGE OF PAVEMENT ADJACENT

CASE "C"



FENCE PLACEMENT AT DRIVEWAYS



FENCE PLACEMENT AT TREES & FIRE HYDRANTS

REVISION	NO:	BY:	DATE:	NO:	BY:	DATE:

Drawn By: SJN
Date: 03/31/16

APPROVED: _____
 CITY ENGINEER RCE

PVC EQUESTRIAN TRAIL FENCING DETAIL

Std. Dwg. No.
706
Sheet 2 of 3

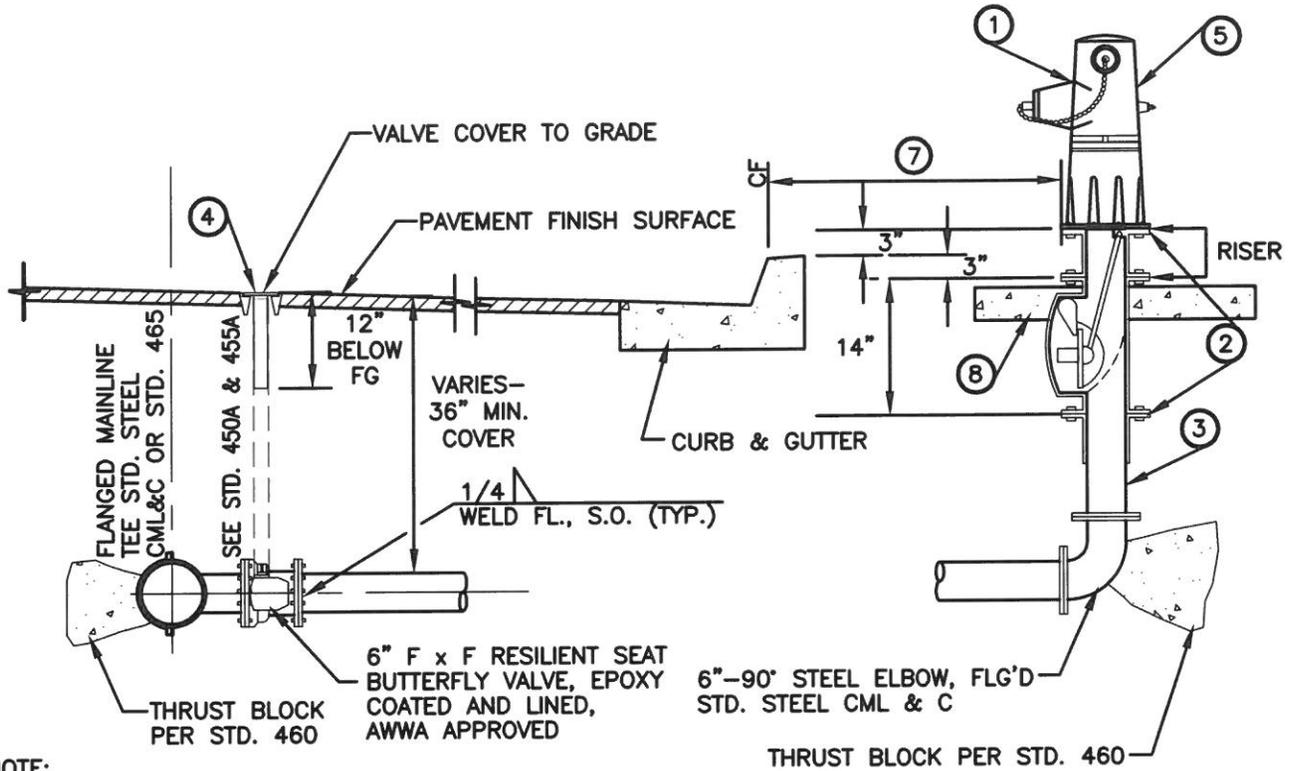
CITY of NORCO STANDARD DRAWING

NOTES:

1. CONCRETE FOOTING SHALL BE CONSTRUCTED OF CLASS 500-C-2500 CONCRETE PER THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.
2. P.V.C. EQUESTRIAN TRAIL FENCING COMPONENTS SHALL BE MANUFACTURED TO THE FOLLOWING THICKNESSES:
 5" X 5" P.V.C. POST: 0.135" (135 MIL)
 2" X 6" P.V.C. RAIL: 0.100" (100 MIL)
3. P.V.C. RAILS SHALL BE CONNECTED TO P.V.C. POSTS AT 16' O.C. BY USE OF A ROUTED POST/GRAVITY LOCK METHOD (OR APPROVED EQUAL). TOP AND BOTTOM RAIL CONNECTIONS SHALL BE STAGGERED EVERY 8'.
4. P.V.C. POSTS LOCATED AT THE MIDPOINT OF P.V.C. RAILS SHALL HAVE ROUTED HOLES TO PROVIDE A PASS THROUGH FOR P.V.C. RAILS.
5. P.V.C. EQUESTRIAN TRAIL FENCING SHALL BE PLACED PER THE APPROPRIATE CASE SHOWN ON THIS STANDARD PLAN.
6. P.V.C. POSTS SHALL EXTEND 42" (OR 48") ABOVE THE FINISH GRADE. SPACING OF RAILS SHALL BE DONE IN SUCH A MANNER AS TO ACCOMODATE THE SPACING LIMITS SHOWN.
7. INSTALLATION SHALL BE PER MANUFACTURER'S STANDARDS.
8. IN CASE OF CONFLICT BETWEEN POST FOUNDATION AND UNDERGROUND UTILITIES, CONTRACTOR SHALL CONSTRUCT POST FOUNDATION PER ALTERNATE FOUNDATION DETAIL SHOWN ABOVE. CONTRACTOR SHALL PROTECT UNDERGROUND UTILITY IN PLACE DURING CONSTRUCTION.
9. PVC POSTS SHALL BE LOCATED BETWEEN 4' (MINIMUM) AND 8' (MAXIMUM) AWAY FROM DRIVEWAYS.
10. PVC POSTS SHALL BE LOCATED 3' AWAY FROM FIRE HYDRANTS AND TREES.
11. REPLACEMENT OF EXISTING WOOD FENCE WITH PVC FENCE MUST BE APPROVED BY THE PUBLIC WORKS DEPT.

REVISION	NO:	BY:	DATE:	NO:	BY:	DATE:	APPROVED: _____ CITY ENGINEER RCE
Drawn By: SJN			Date: 03/31/16				
PVC EQUESTRIAN TRAIL FENCING DETAIL							Std. Dwg. No. 706 Sheet 3 of 3

CITY of NORCO STANDARD DRAWING



NOTE:

- ① TYPE "A" — FOR RESIDENTIAL ZONES — HYDRANT COMPLETE, ONE 4" STEAMER HOSE OUTLET AND ONE 2-½" OUTLET, 8 HOLE PATTERN, JAMES JONES MODEL J-4040. FURNISH WITH PLASTIC CAPS AND CHAIN. 4" OUTLET PERPENDICULAR TO CURB.
- ⚠ TYPE "B" — FOR COMMERCIAL ZONES — HYDRANT COMPLETE, ONE 4" STEAMER HOSE OUTLET AND TWO 2-½" OUTLETS, 8 HOLE PATTERN. JAMES JONES MODEL J-4060. FURNISH WITH PLASTIC CAPS AND CHAIN. 4" OUTLET PERPENDICULAR TO CURB.
- ② 6" HYDRANT 8 HOLE SHEAR CHECK ASSEMBLY COMPLETE, EPOXY COATED, MFG. BY CLOW CORP. OR APPROVED EQUAL.
- ③ 6" A.S.A. 200# FLG X FLG 8 HOLE CML & C PIPE SPOOL.
- ④ CAST IRON VALVE COVER TO BE ALHAMBRA FOUNDRY #A29606 OR APPROVED EQUAL, MARKED WATER.
- ⑤ ALL EXPOSED SURFACES SHALL BE CLEANED AND GIVEN ONE COAT OF PRIMER NO. 2182 AS MANUFACTURED BY RUSTOLEUM CORP. AND ONE FINISH COAT OF NO. 2148 EQUIPMENT YELLOW AS MANUFACTURED BY RUSTOLEUM CORP. ON-SITE HYDRANTS FINISH COAT RED.
- ⑥ HYDRANTS SHALL BE INSTALLED NOT CLOSER THAN 4' FROM A DRIVEWAY, STREET LIGHT, POWER POLE, SIGNAL, BEGIN CURB RETURNS, ETC. FOR TRAIL FENCING SPACING SHALL CONFORM TO CITY STD. 705 & 706.
- ⑦ 24" UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.
- ⑧ POUR 6"D X 4'L X 4"W CONCRETE PAD. ALLOW ACCESS TO BOLTS.
- ⑨ INSTALL RAYOLITE BLUE PAVEMENT MARKER NO. 2SRPM-DB 6" OFF STREET CENTERLINE ON HYDRANT SIDE DIRECTLY IN FRONT OF HYDRANT PER CITY STD. DWG. NO. 446.

REVISION	NO:	BY:	DATE:	NO:	BY:	DATE:
1		SJM	03-31-2016			
Drawn By: LJA Date: 3/19/04 APPROVED: _____ CITY ENGINEER RCE						
FIRE HYDRANT ASSEMBLY						Std. Dwg. No. 445 Sheet 1 of 1