

# DEPARTMENT OF PUBLIC WORKS

Mayor:  
CAROLYN G. GOODMAN

City Council:  
STAVROS S. ANTHONY (Mayor Pro-Tem)  
LOIS TARKANIAN  
STEVEN D. ROSS  
RICKI Y. BARLOW  
BOB COFFIN  
BOB BEERS

City Manager:  
ELIZABETH N. FRETWELL

Director of Public Works:  
JORGE CERVANTES, P.E., P.T.O.E.

City Engineer:  
DAVID N. BOWERS, P.E., P.T.O.E.

Funded By:  
CITY OF LAS VEGAS



## Charleston Medians Renovation

Reviewed By:

*David N. Bowers* 5/21/13  
CLV CITY ENGINEER DATE

*James Smith* 5/21/13  
CLV PROJECT MANAGER DATE

*Wesley Johnson* 5/21/13  
CLV CITY TRAFFIC ENGINEER DATE

N/A  
CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT DATE

N/A  
REGIONAL TRANSPORTATION COMMISSION DATE  
OF SOUTHERN NEVADA

*Morgan Thomas* 5-20-13  
SOUTHWEST GAS CORPORATION DATE

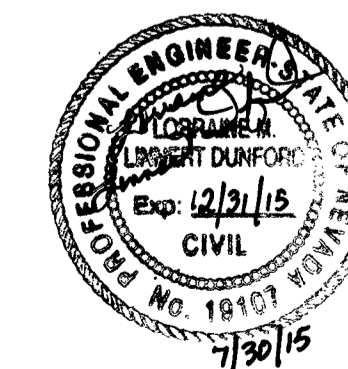
*Diane McChambers* 5-20-13  
CENTURYLINK CENTRAL TELEPHONE CO DBA CENTURYLINK  
THE AFFIXED CENTURYLINK NEVADA APPROVAL DOES NOT ASSUME OR  
GUARANTEE LIABILITY FOR KNOWN OR UNKNOWN CONFLICTS WITH  
EXISTING OR PROPOSED IMPROVEMENTS. RESOLUTION OF ANY CONFLICT  
WILL BE ACCOMPLISHED PURSUANT TO LOCAL ORDINANCES, NEVADA  
REVISED STATUTES AND/OR PUBLIC UTILITY COMMISSION STANDARD  
REGULATIONS.

*Roshanda Jahn* 5/21/13  
COX COMMUNICATIONS LAS VEGAS, INC. DATE

*Ulanie Marti* 5-21-2013  
NV ENERGY DISTRIBUTION DATE  
NV ENERGY ACKNOWLEDGES THAT WE HAVE RECEIVED YOUR PLANS AND  
WILL PROVIDE SERVICE TO ALL ELECTRICAL NEEDS ASSOCIATED WITH  
THIS PROJECT. NV ENERGY RESERVES THE RIGHT TO ADDRESS ANY  
EXISTING OR FUTURE CONFLICTS ONCE THE FINAL DESIGN IS  
COMPLETED. THE NEW SERVICE AND THE RESOLUTION OF ANY  
CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO THE NEVADA PUBLIC  
UTILITY COMMISSION'S RULES AND REGULATIONS.

N/A  
NV ENERGY - TRANSMISSION DATE

APPROVED FOR CONSTRUCTION  
*David N. Bowers*  
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER  
DATE: 05/16/13 PROJECT# 121447  
SHEETS: CV, U-1, and L-2.



THE SIGNATURE ABOVE ACKNOWLEDGES THAT THE UTILITY COMPANY REPRESENTATIVE HAS REVIEWED THE PLANS, AND THAT TO THE BEST OF HIS OR HER KNOWLEDGE THE UTILITY LINES ARE SHOWN IN THE CORRECT LOCATIONS AND ARE THE CORRECT SIZES. WHILE SUCH DATA HAS BEEN COLLECTED WITH REASONABLE CARE, THERE IS NO EXPRESSED OR IMPLIED GUARANTEE THAT THE LOCATIONS ARE EXACT. THE CONTRACTOR SHALL BEAR THE RESPONSIBILITY OF OBTAINING THE ACTUAL FIELD LOCATIONS.

THE SIGNATURE ABOVE FURTHER ACKNOWLEDGES THAT THE UTILITY COMPANY DOES NOT ANTICIPATE CONSTRUCTION OR MAINTENANCE IN THE PROJECT AREA FOR FIVE (5) YEARS IN COMPLIANCE WITH THE CLV NO-CUT POLICY.

CLV BID NO. 1634228

H# 34228

NO.	DATE	SHEET	DESCRIPTION	APP'D

DEPARTMENT OF PUBLIC WORKS  
CAPITAL PROJECT MANAGEMENT  
CITY ENGINEER: DAVID N. BOWERS, P.E., P.T.O.E.  
PROGRAM MANAGER: MARK SORENSEN, P.E.  
DESIGNED BY: mms  
DRAWN BY: mms  
CHECKED BY: Lorraine Dunford DATE: March 2013

Charleston Medians Renovation  
COVER SHEET

PROFESSIONAL ENGINEER STATE OF NEVADA  
LORRAINE DUNFORD  
Exp: 12-31-13  
CIVIL  
No. 18107

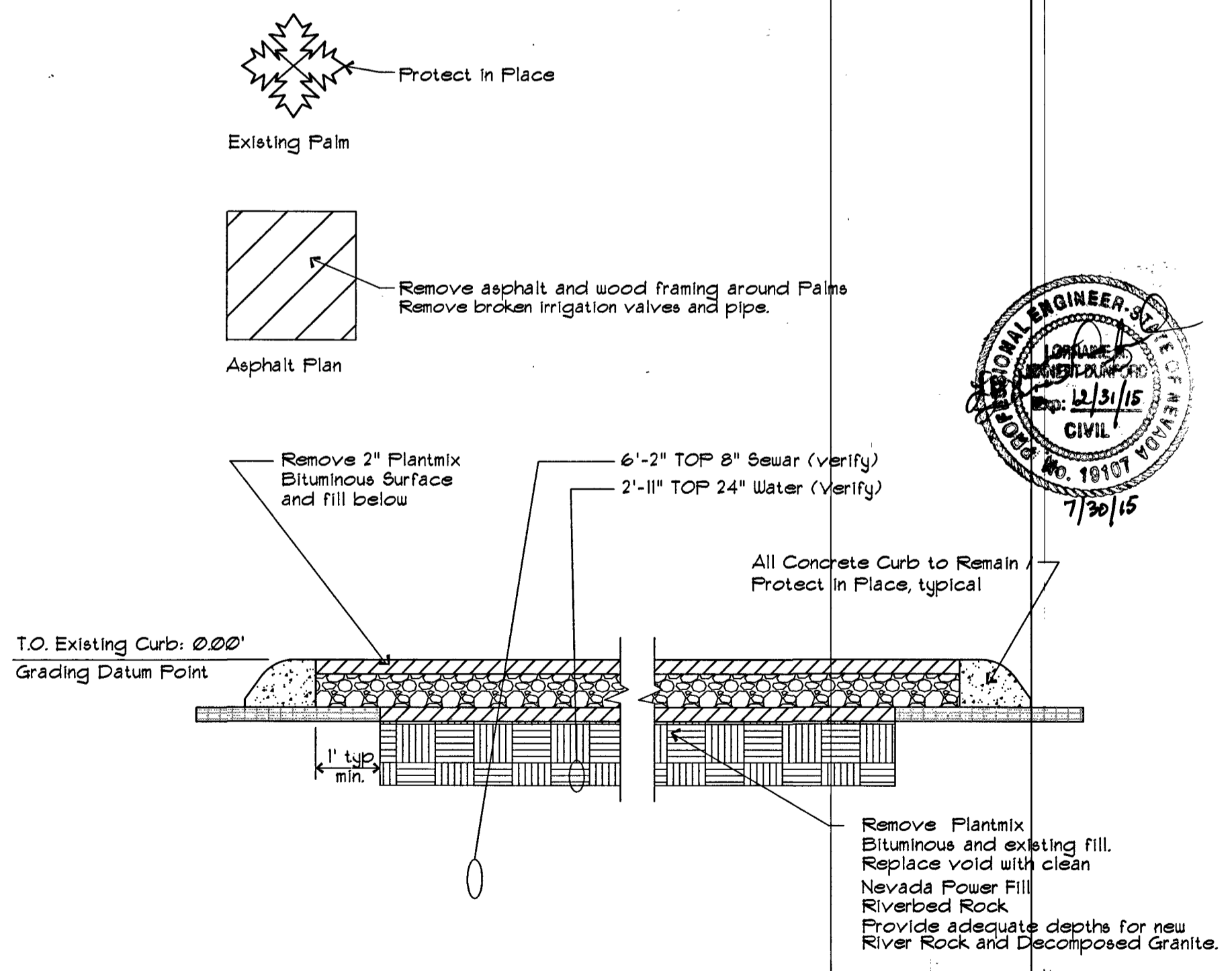
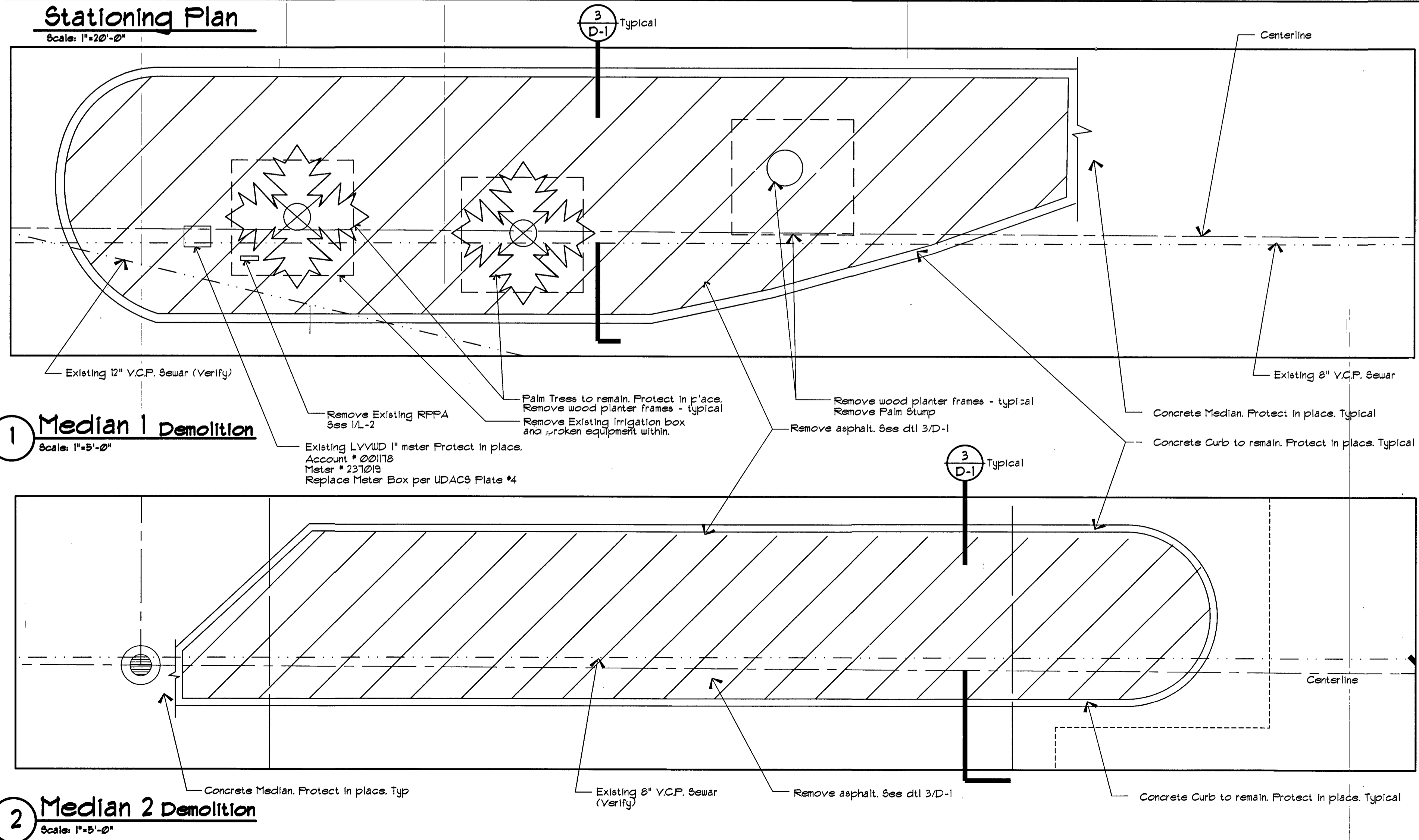
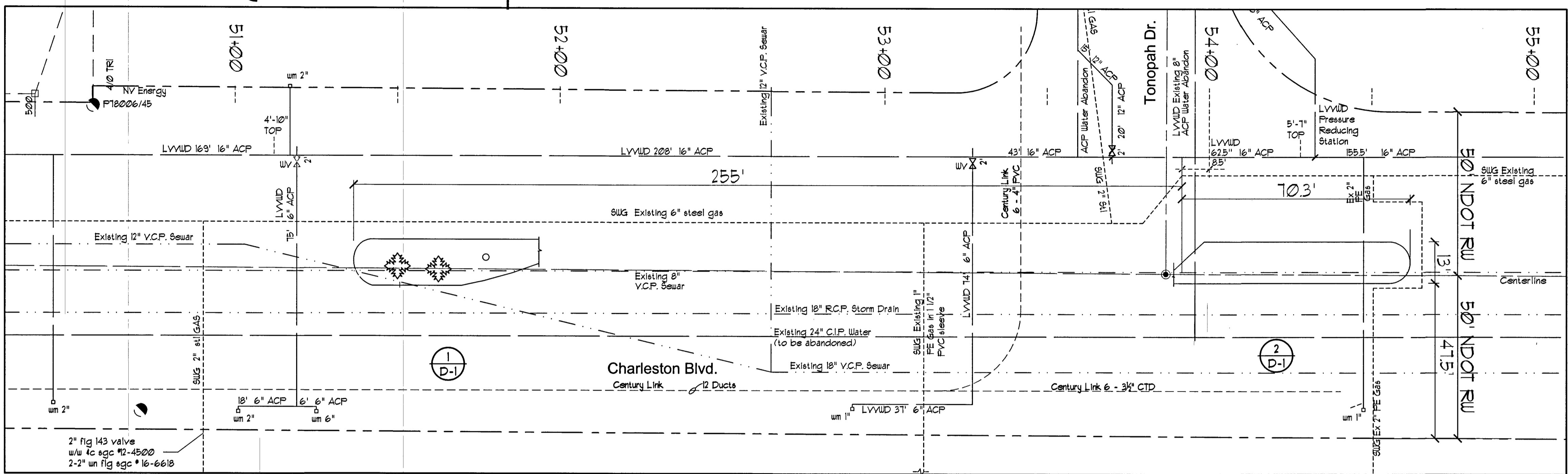
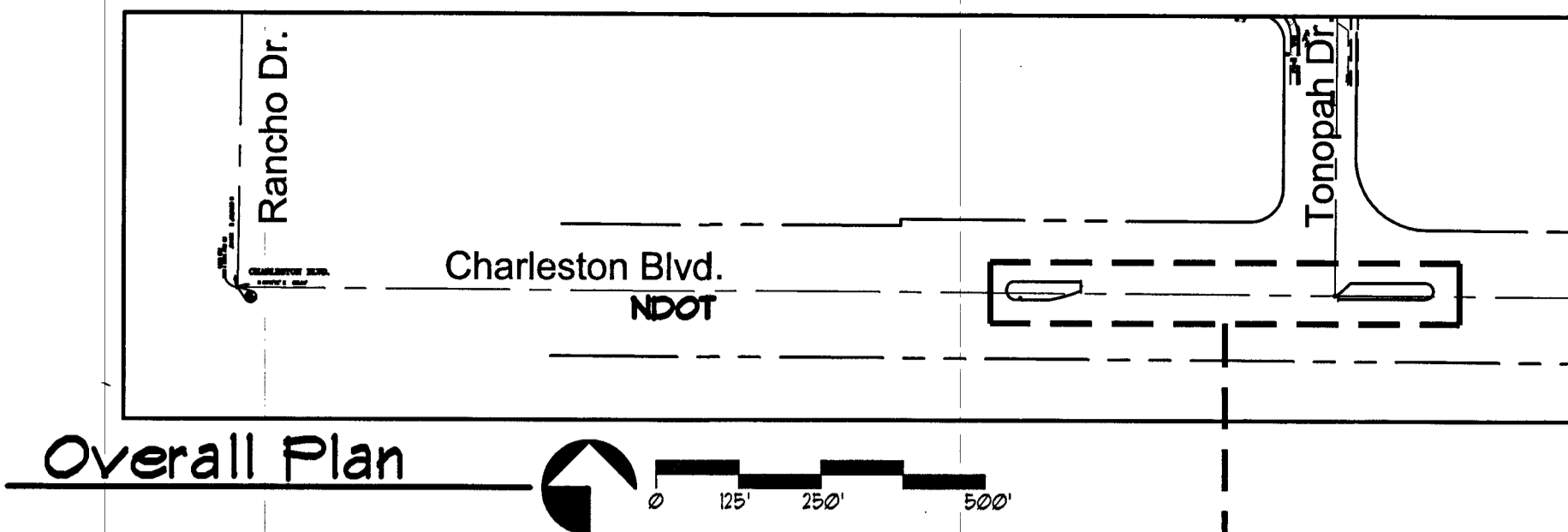
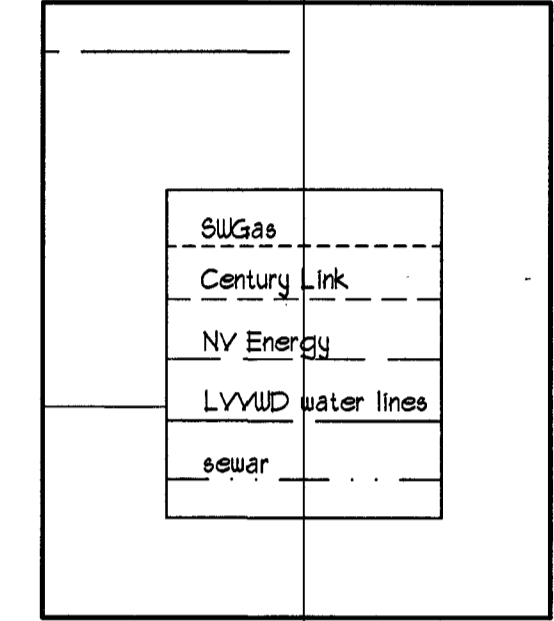
Sheet  
CV2  
1 of 7  
DRAWING NO.  
107V5901

5/14/13 F:\REPORT\ENGINEERING\INTEGRATION\ARCH\_SVC\PROJECTS\AUTOCAD\PARKS\CHARLESTON\_RANCHO\_MEDIAN\COVER.DWG

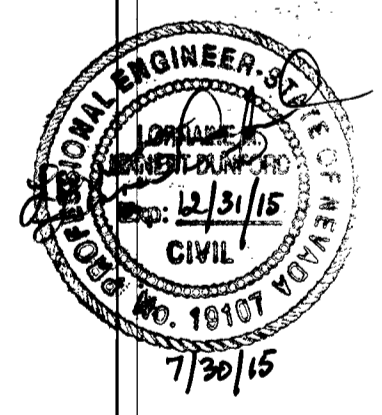


APPROVED FOR CONSTRUCTION  
*D. M. Meade*  
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER  
 DATE: 05/16/13 PROJECT# 121447

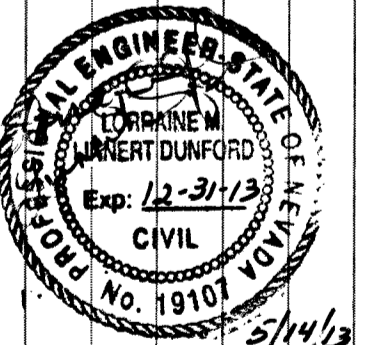
UTILITY NOTES:  
 1. Utility Location shown hereon are approximate only, it shall be the Contractor's responsibility to determine the exact vertical and horizontal location of all existing underground utilities prior to commencing construction. No representation is made that all existing utilities are shown hereon. The engineer assumes no responsibility for utilities not shown or utilities not shown in their proper location.  
 2. It shall be the Contractor's responsibility to protect all all existing utilities during construction. Any utilities damaged during construction must be repaired immediately and to the owner's satisfaction at the contractor's expense.



**3 Existing and Demolition Section Thru Median**  
 Scale: nts



**DEPARTMENT OF PUBLIC WORKS**  
 Charleston Medians Renovation  
 location near Rancho Dr. and Tonopah Dr.  
 Utilities As-Built  
 Existing and Demolition Medians 1, and 2



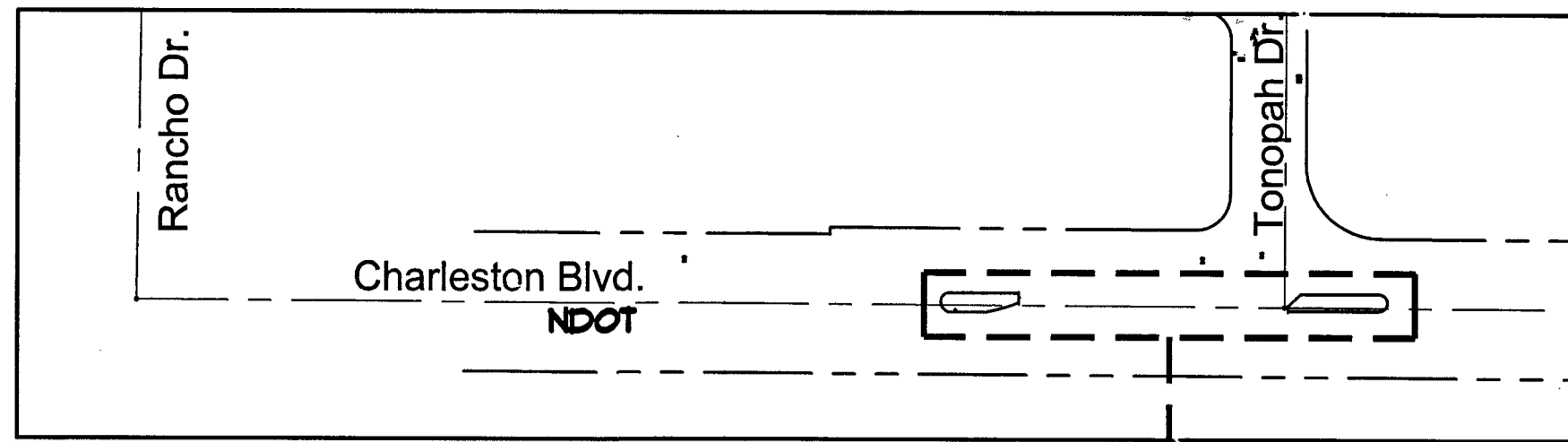
OWNER: CITY OF LAS VEGAS  
 DEPARTMENT OF PUBLIC WORKS  
 CAPITAL PROJECTS MANAGEMENT

333 NORTH RANCHO DRIVE  
 LAS VEGAS, NEVADA 89106  
 PHONE: (702) 229-5939  
 FAX: (702) 382-3232  
 TDD: (702) 386-9108

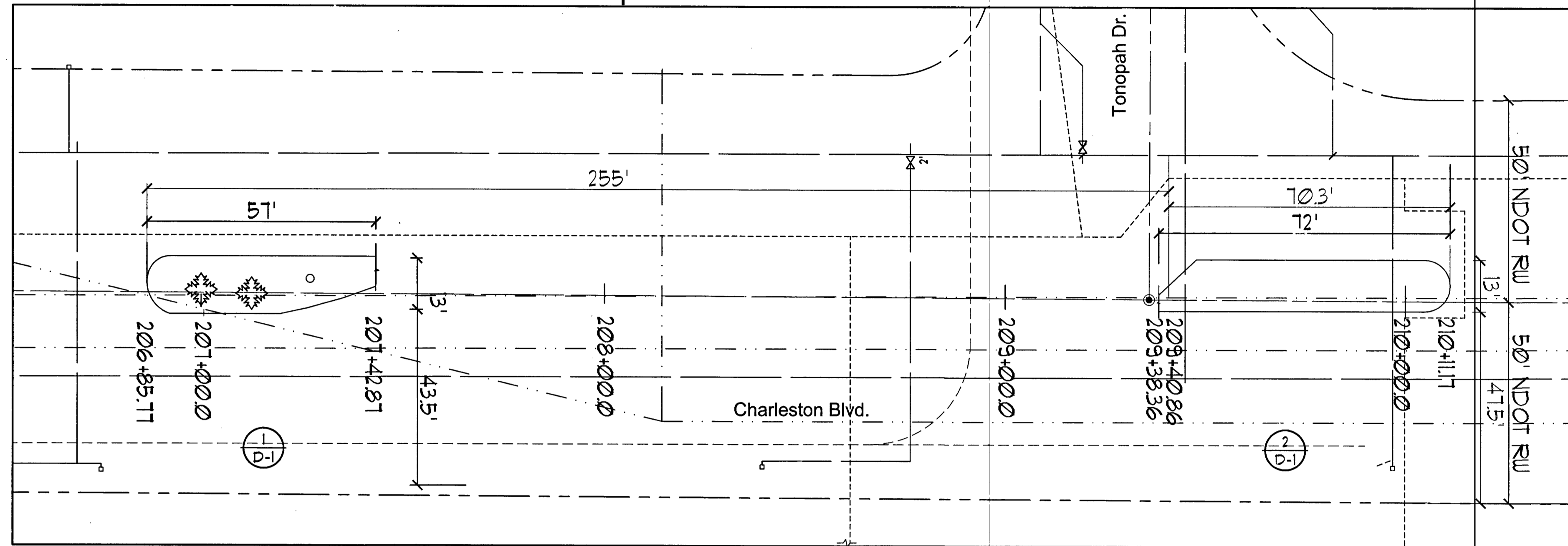
DRAWN	mm
FILE	CharlestonRancho 2MLK
DATE	March 20, 2013
SCALE	as shown
BID NO	34228
CLV DWG NO	10TV5901
SIT NO	

U-1

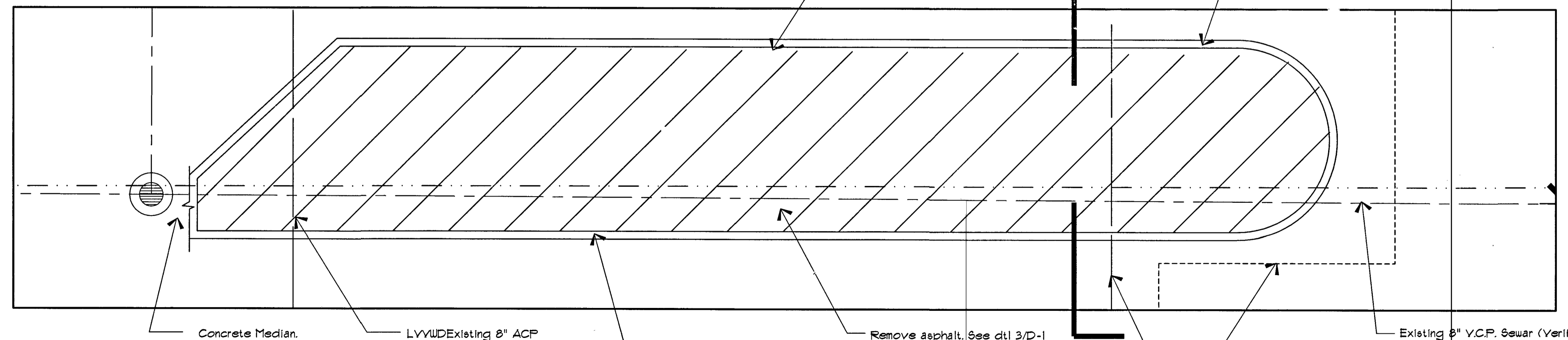
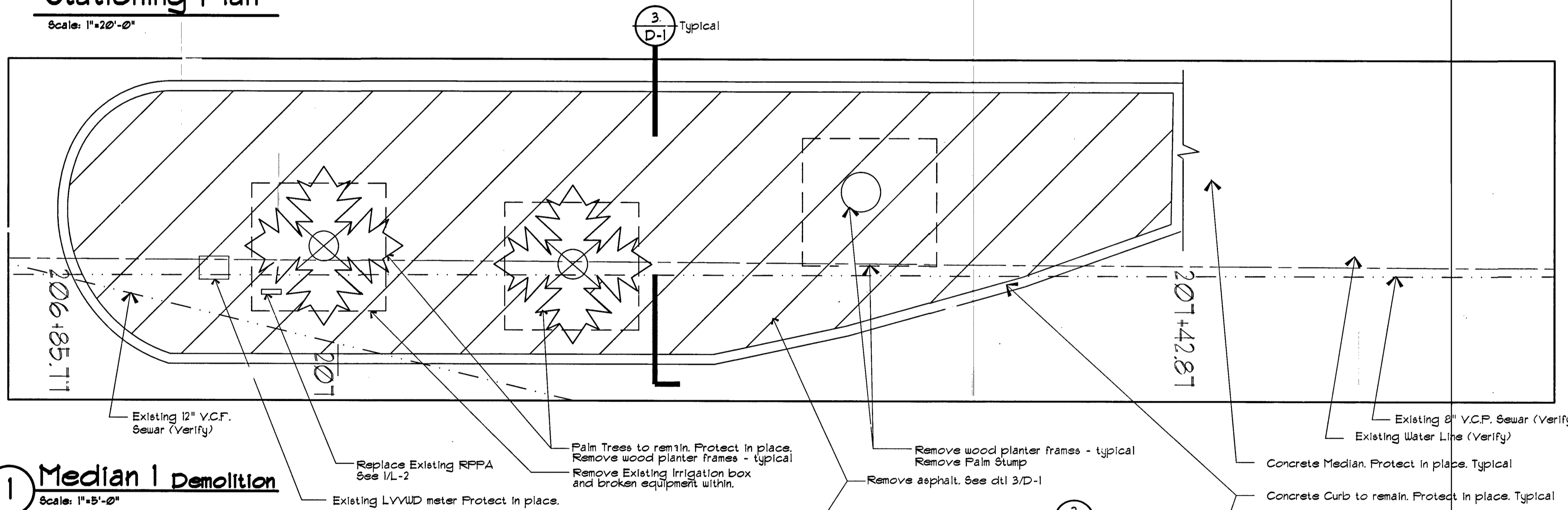
DRAWINGS AND INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE DESIGN PROFESSIONAL. THESE DRAWINGS OR INSTRUMENTS SHALL NOT BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT WRITTEN CONSENT OF THE DESIGN PROFESSIONAL. CONTRACTOR IS SOLELY RESPONSIBLE FOR OBTAINING THE PROJECT FOR WHICH THIS INSTRUMENT WAS PREPARED AND NOT FOR THE CONSTRUCTION OF ANY OTHER PROJECT. N.E.C. 623.700



**Overall Plan**  
Scale: 1"=20'-0"



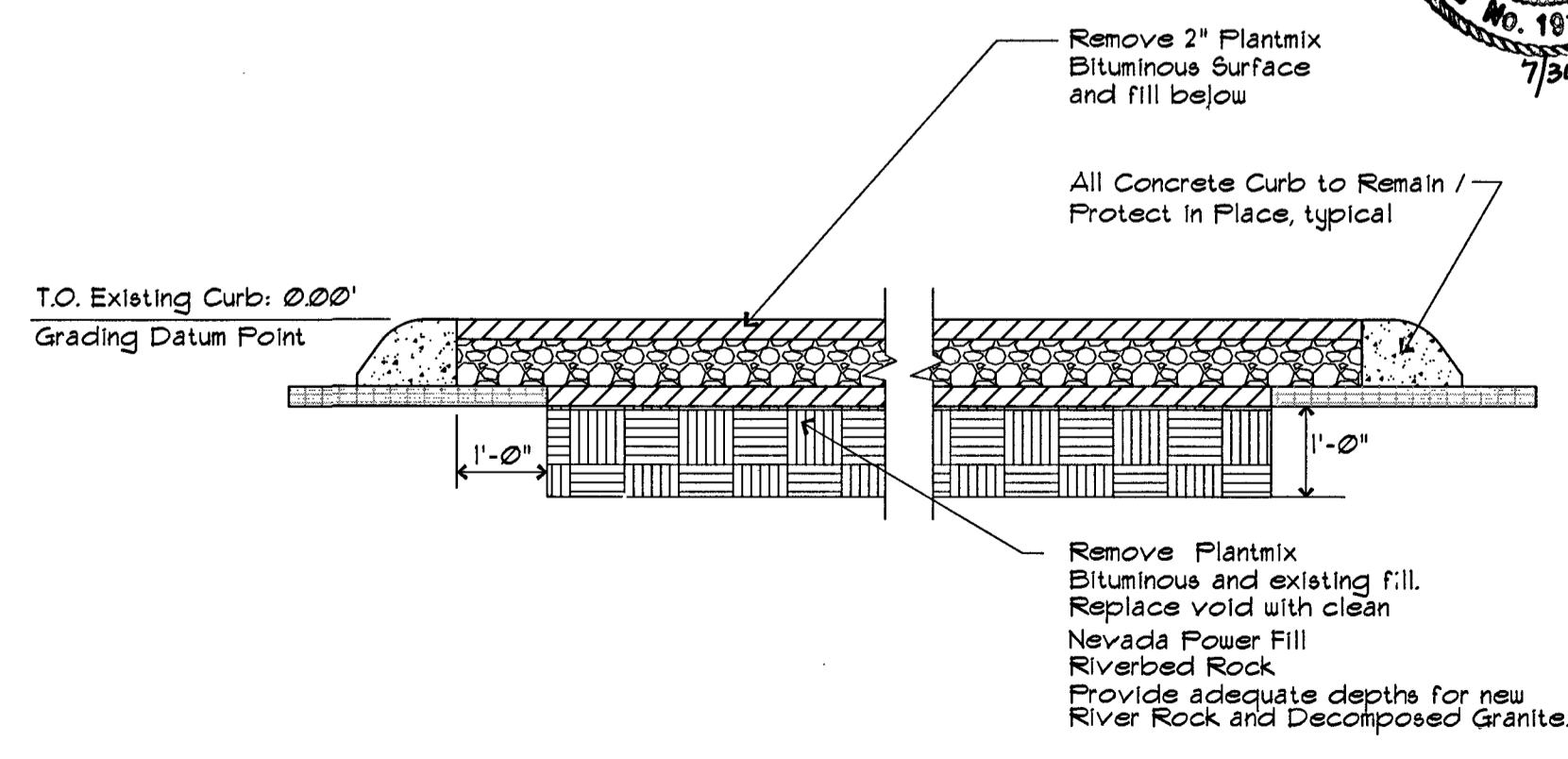
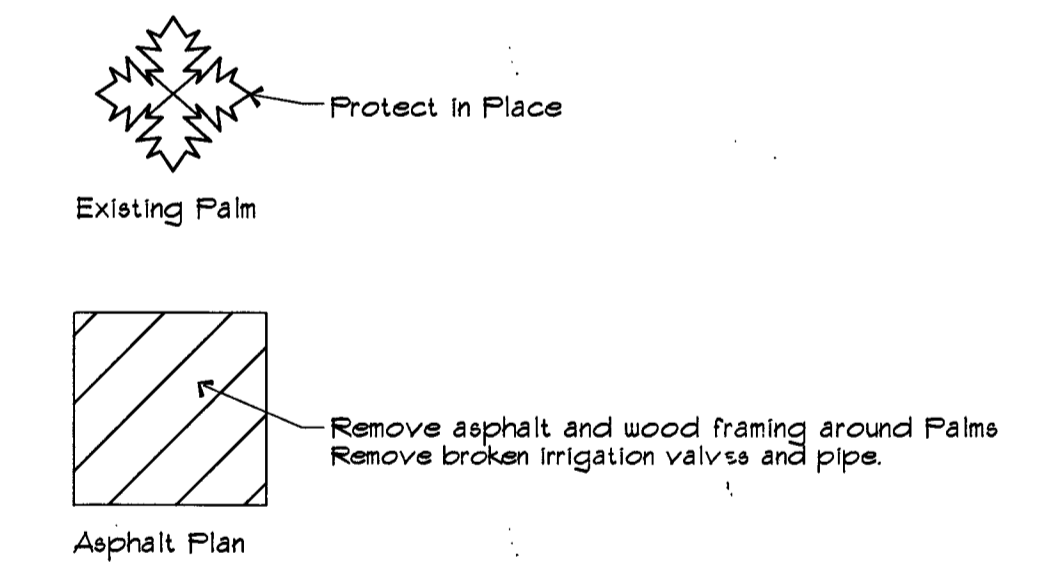
**Stationing Plan**  
Scale: 1"=20'-0"



**2 Median 2 Demolition**  
Scale: 1"=5'-0"

**UTILITY NOTES:**

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**3 Existing and Demolition Section thru Median**  
Scale: nts

**CITY OF LAS VEGAS**  
NEVADA

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**DEPARTMENT OF PUBLIC WORKS**

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**Charleston Medians Renovation  
location near Rancho Dr. and Tonopah Dr.**

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**Existing and Demolition Medians 1, and 2**

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**OWNER: CITY OF LAS VEGAS  
DEPARTMENT OF PUBLIC WORKS  
CAPITAL PROJECTS MANAGEMENT**

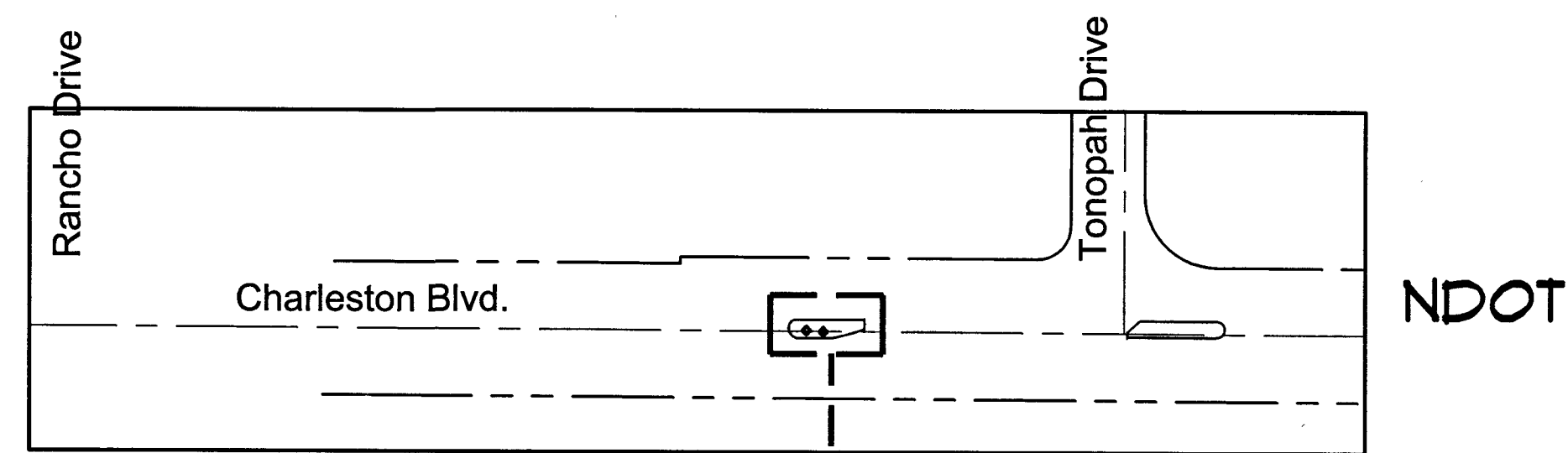
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333 NORTH RANCHO DRIVE  
LAS VEGAS, NEVADA 89106  
PHONE: (702) 229-6535  
FAX: (702) 382-3232  
TDD: (702) 386-9108

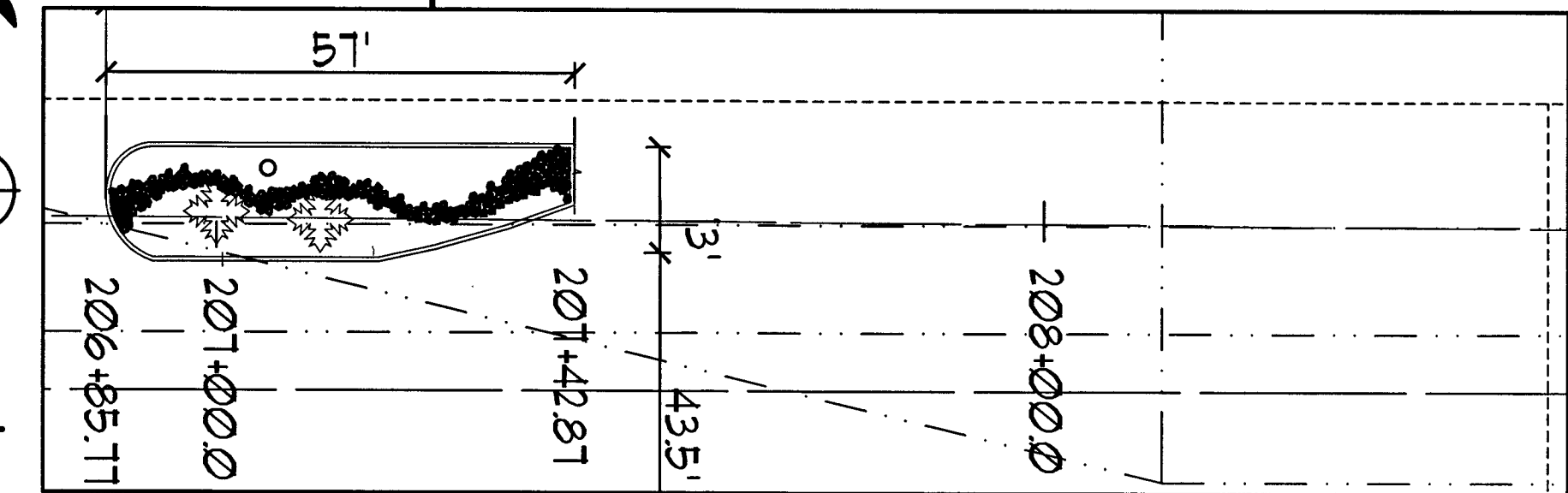
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DRAWN: ems  
FILE: CharlestonRancho 2/1K  
DATE: March 20, 2015  
SCALE: shown  
BID NO: 34228  
CLV DWG NO: 01V5901  
SHEET NO: D-1





**Overall Plan**  
Scale: 1" = 20'-0"

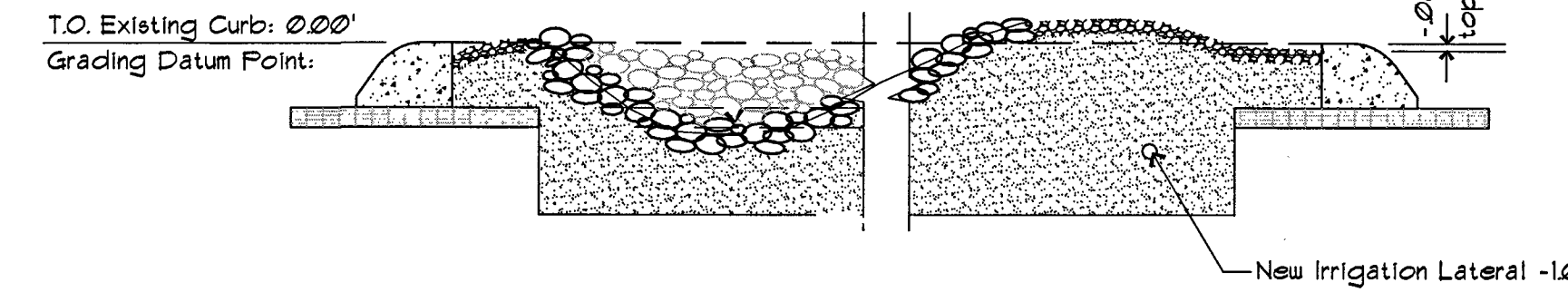
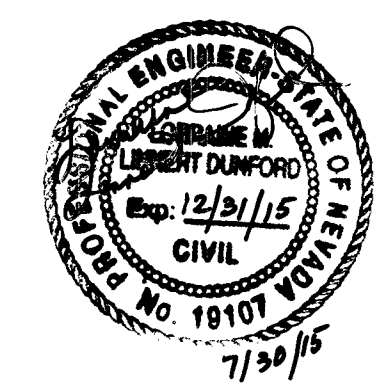


**Stationing Plan**  
Scale: 1" = 20'-0"

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APPROVED FOR CONSTRUCTION  
*Don Meade*  
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER  
 DATE: 05/11/13 PROJECT # 121447



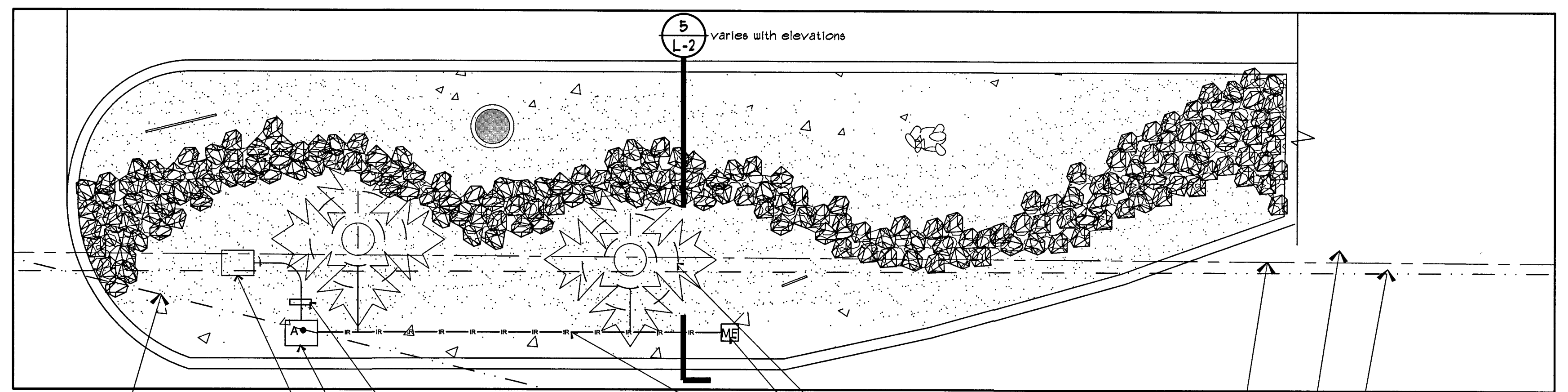
**5 New Section thru Median.**  
Scale: nts

**REDUCED PRESSURE PRINCIPLE ASSEMBLY**  
 Approved Reduced Pressure Principle Assembly(s) shall be installed per the UDACS Plate No. 8, 56 or 59. No water shall be taken from a service requiring backflow prevention until the reduced pressure principle assembly has been successfully tested by the LVVWD. Any block wall or other fence material shall be designed and constructed around the outside of the easement(s) to allow the District direct access from the adjacent right-of-way. Easements shall be clearly marked or staked prior to the start of construction.

**LVVWD STANDARD NOTES**

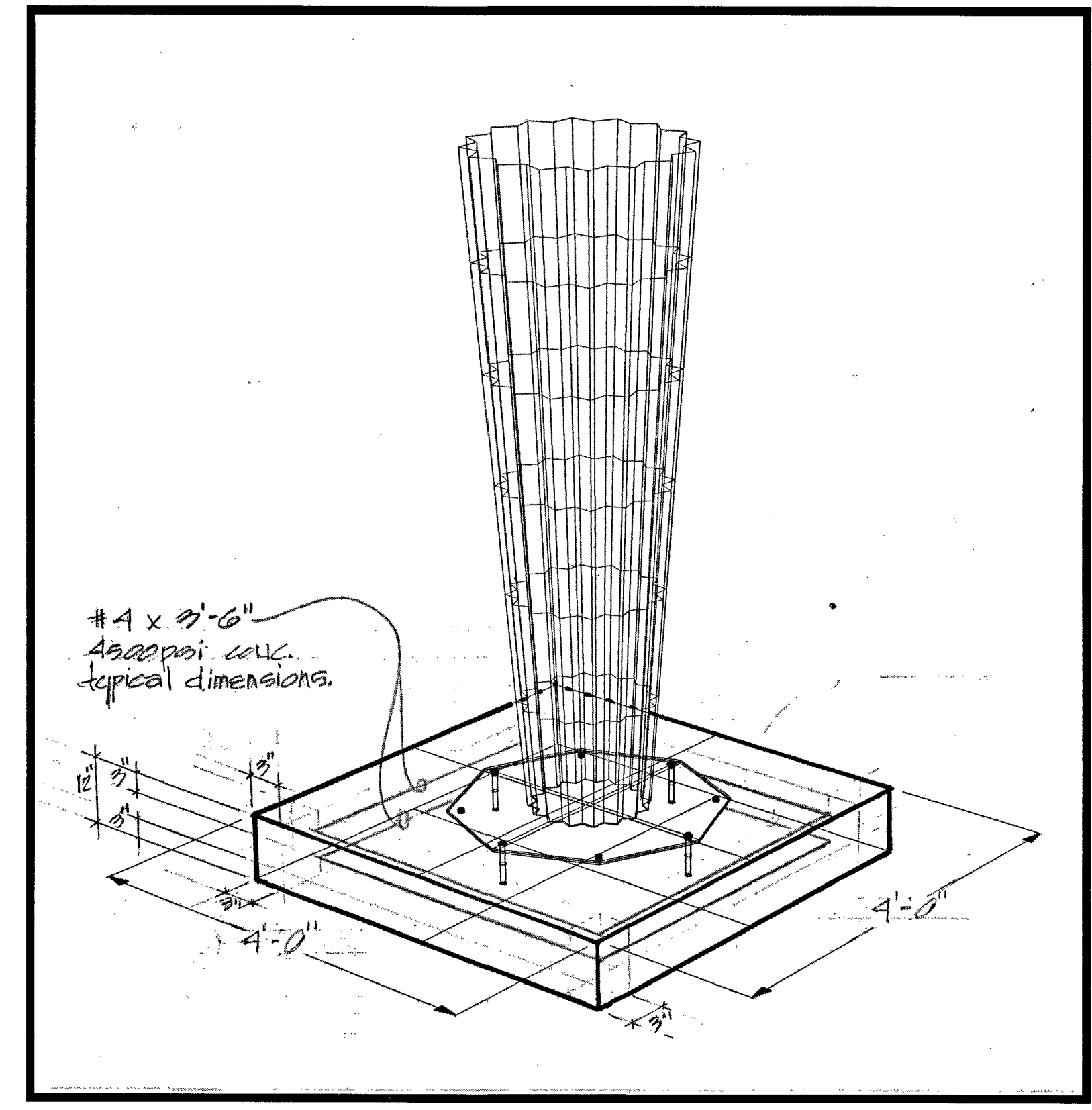
- LVVWD PROJECT # 121447
- NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT# IDENTIFIED ABOVE.
  - ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
  - ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
  - A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
  - ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
  - ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
  - ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
  - ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
  - ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD DISTRIBUTION SYSTEM.
  - THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
  - ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
  - ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD PRE-APPROVED MATERIALS AND MANUFACTURER'S LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.
  - TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600
  - THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVVWD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL FACILITIES WILL INCLUDE THE PLACEMENT OF ANY APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ADJUTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVWD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVWD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.

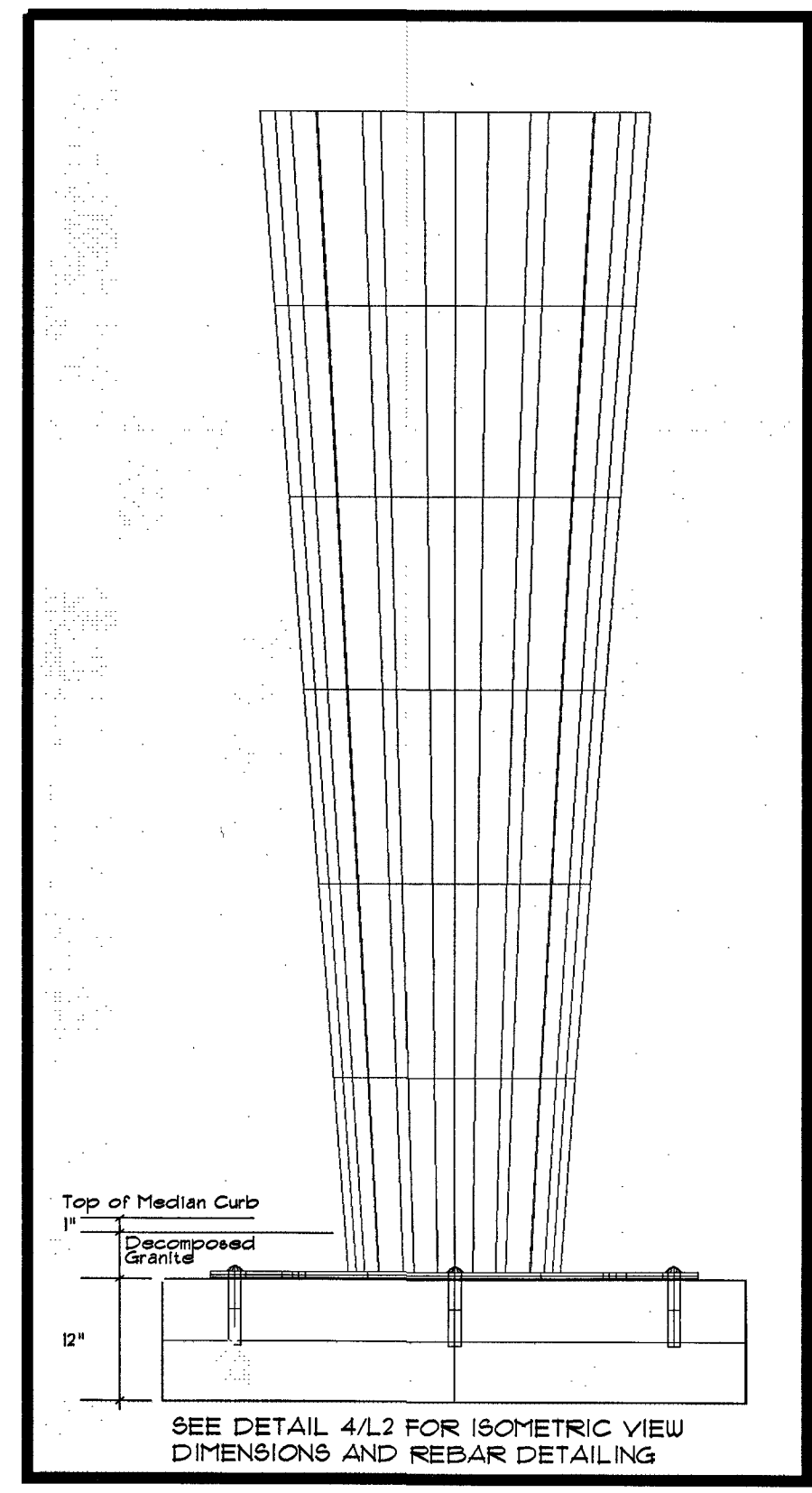


**1 Median Irrigation**  
Scale: 1" = 5'-0"

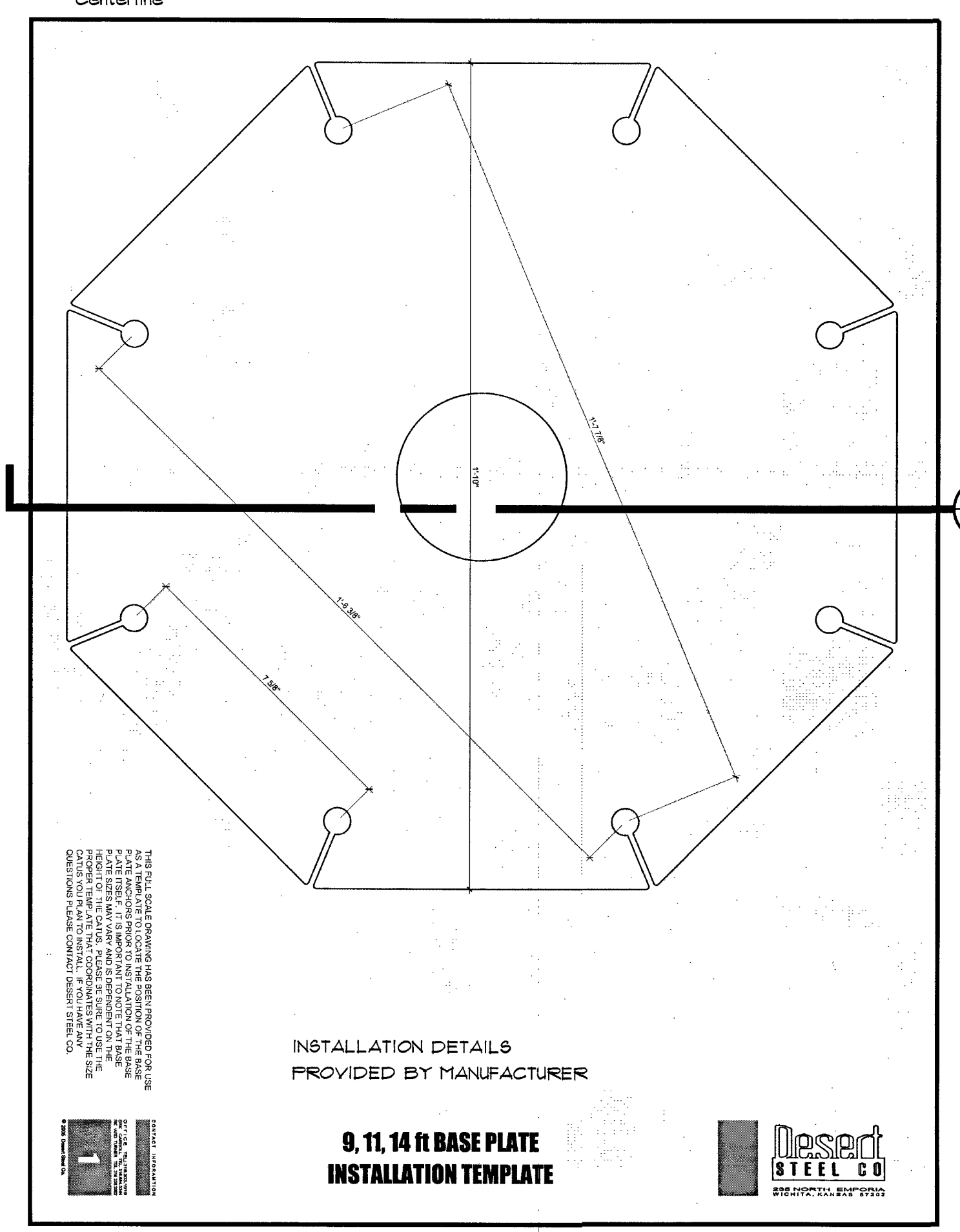
- Existing 12" V.C.P. Sewar (Verify)
- New Backflow Preventer See note on this sheet.
- New Valve Box See Detail 4/IR-2 for controller and valve specification. Replace Existing meter box per UDACS Plate # 4. Retrofit meter with 1" RFFA per UDACS Plate 8. See Sheet U-1
- New Drinkerline Tubing See Detail 2/IR-1
- New Drip Flush See Detail 5/IR-2
- Lateral Line See Irrigation Sheet 2/IR-1
- Existing 8" V.C.P. Sewar (Verify)
- Existing Water Line (Verify)
- Centerline
- 5 varies with elevations



**4 Isometric View**  
Scale: 1" = 1'-0"



**3 Section thru Saguaro**  
Scale: 1" = 1'-0"



**2 Saguaro Base Plate Install Template**  
Scale: 1" = 1'-0"

**CITY OF LAS VEGAS**  
NEVADA

**DEPARTMENT OF PUBLIC WORKS**

OWNER: CITY OF LAS VEGAS  
 LAS VEGAS, NEVADA 89106  
 PHONE: (702) 229-8539  
 FAX: (702) 382-3232  
 TDD: (702) 386-9108

333 NORTH RANCHO DRIVE  
 LAS VEGAS, NEVADA 89106  
 PHONE: (702) 229-8539  
 FAX: (702) 382-3232  
 TDD: (702) 386-9108

CONSULTANT: Charleston Rancho P/LC

DATE: March 20, 2013

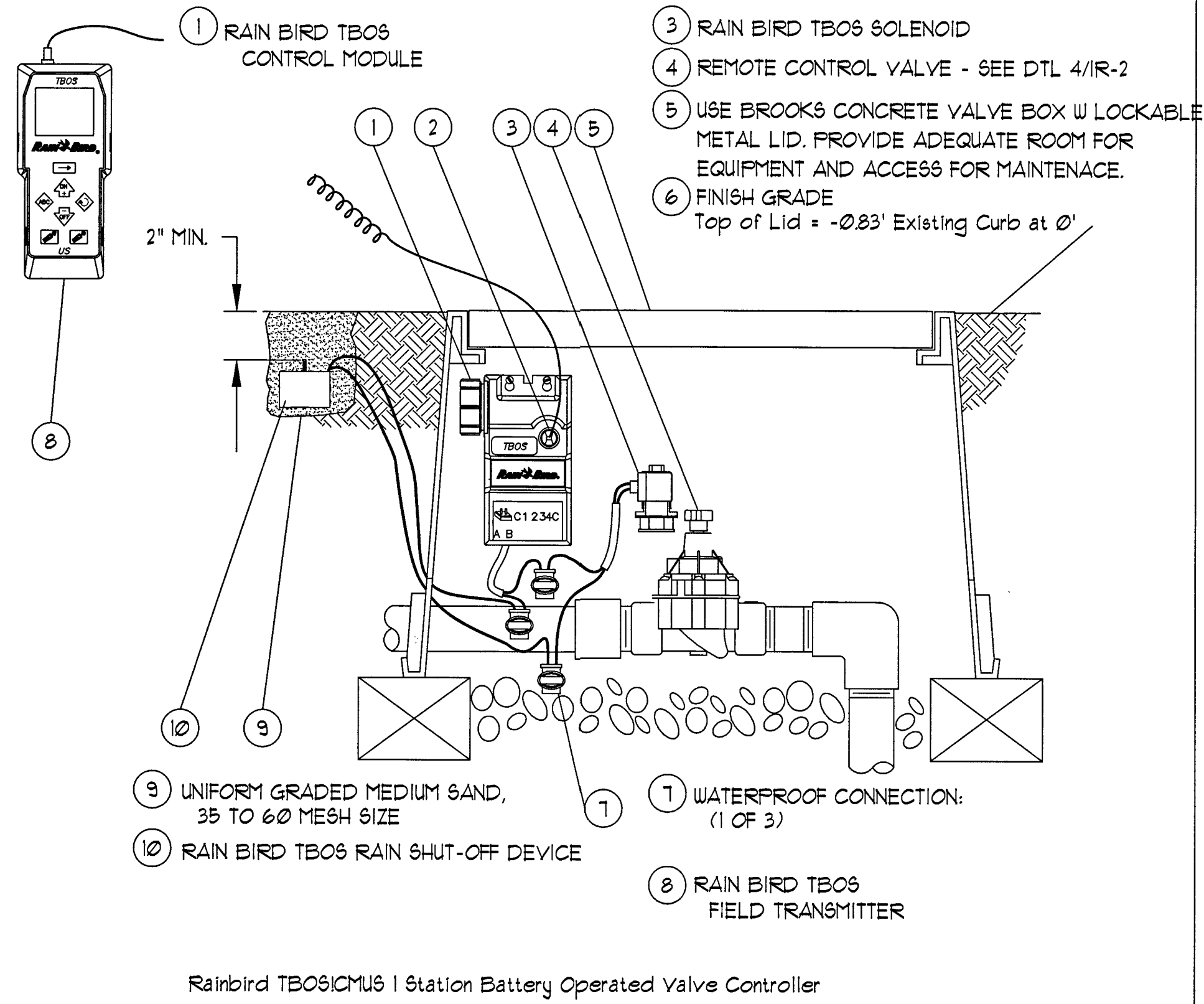
SCALE: as shown

BID NO: 34228

LVVWD NO: 101V5901

SHEET NO: L-2

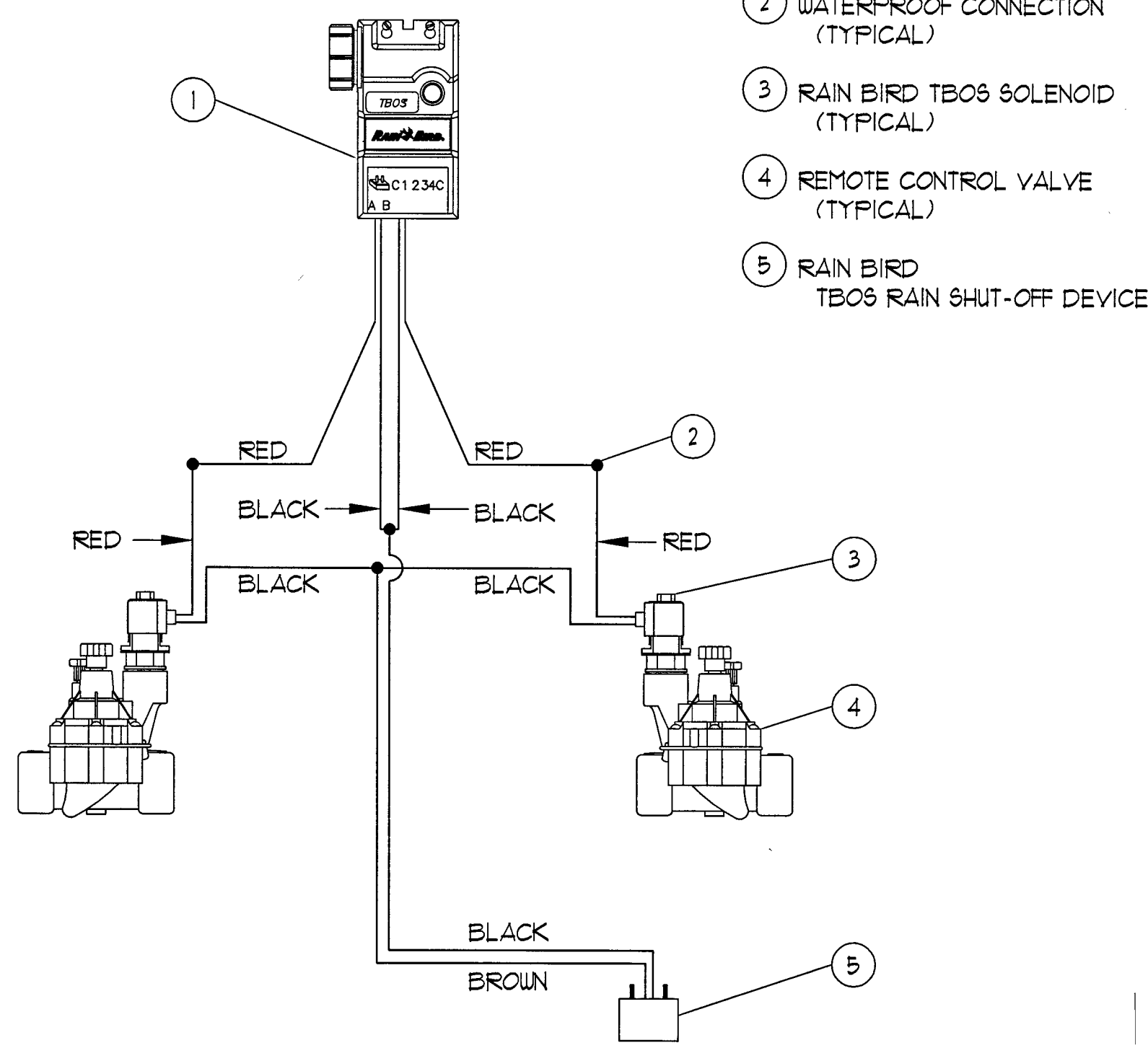




- ① RAIN BIRD TBO5 CONTROL MODULE
- ② INFRARED CONNECTION FOR PROGRAM CONTROL
- ③ RAIN BIRD TBO5 SOLENOID
- ④ REMOTE CONTROL VALVE - SEE DTL 4/IR-2
- ⑤ USE BROOKS CONCRETE VALVE BOX W LOCKABLE METAL LID. PROVIDE ADEQUATE ROOM FOR EQUIPMENT AND ACCESS FOR MAINTENANCE.
- ⑥ FINISH GRADE  
Top of Lid = -0.83' Existing Curb at 0'
- ⑦ WATERPROOF CONNECTION: (1 OF 3)
- ⑧ RAIN BIRD TBO5 FIELD TRANSMITTER
- ⑨ UNIFORM GRADED MEDIUM SAND, 35 TO 60 MESH SIZE
- ⑩ RAIN BIRD TBO5 RAIN SHUT-OFF DEVICE

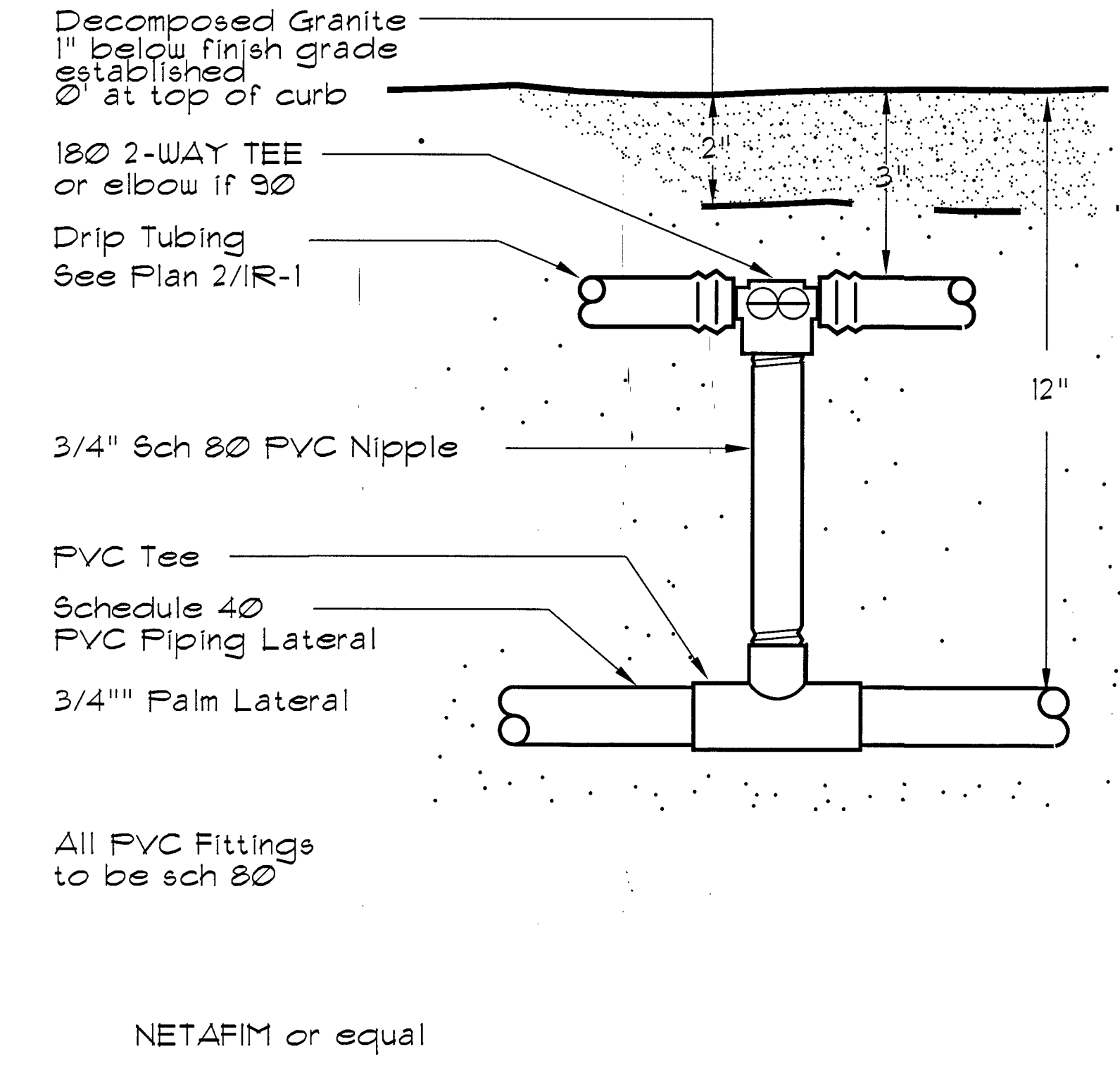
Rainbird TBO5CMUS 1 Station Battery Operated Valve Controller

**1 Controller - Battery Operated**  
Scale: nts TBO5 WITH TRANSMITTER

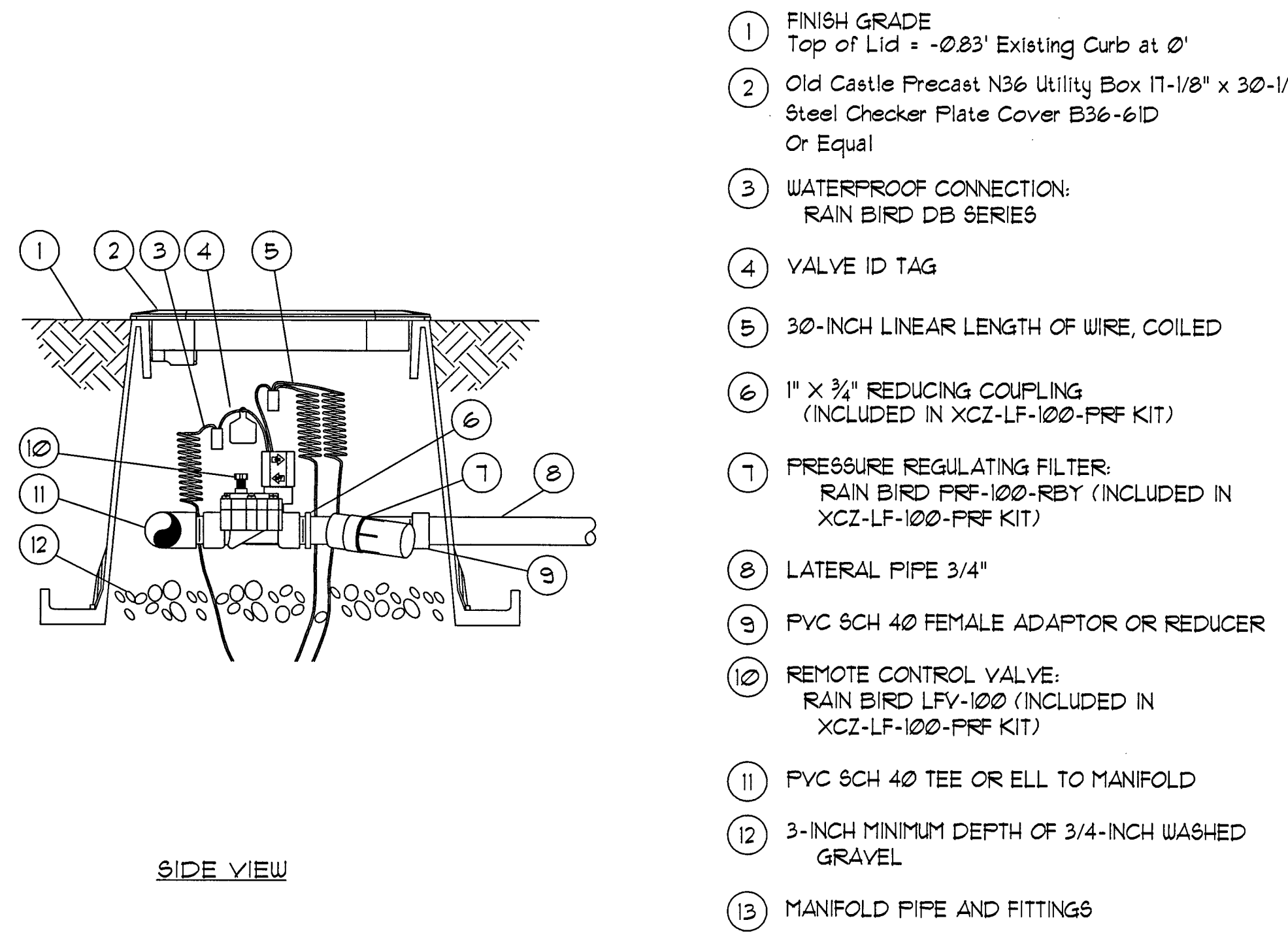


- ① RAIN BIRD TBO5 CONTROL MODULE
- ② WATERPROOF CONNECTION (TYPICAL)
- ③ RAIN BIRD TBO5 SOLENOID (TYPICAL)
- ④ REMOTE CONTROL VALVE (TYPICAL)
- ⑤ RAIN BIRD TBO5 RAIN SHUT-OFF DEVICE

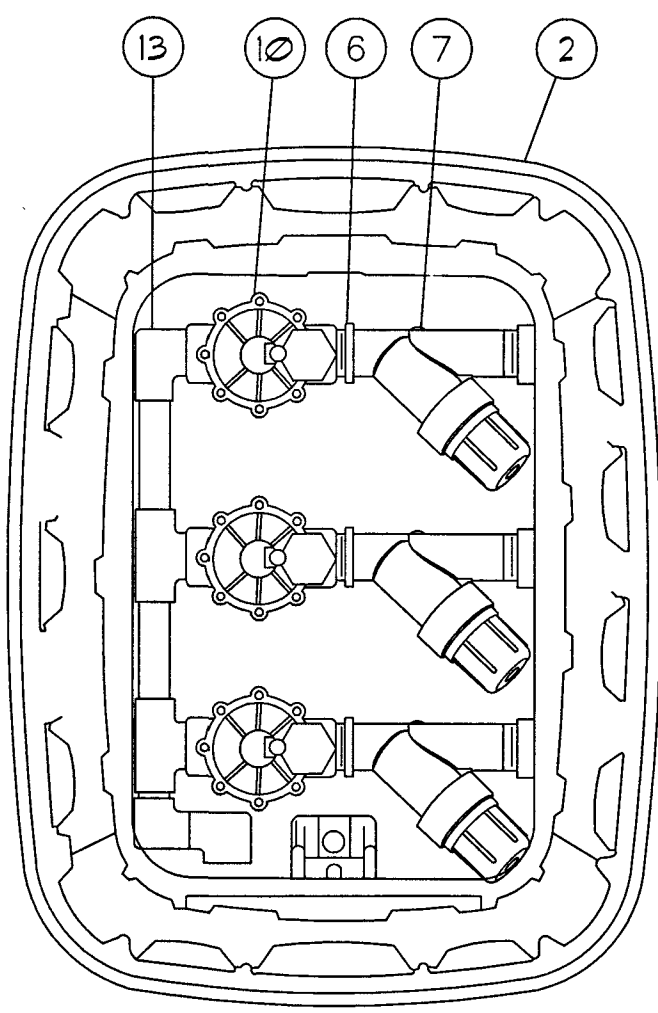
**2 Controller - Battery Operated**  
Scale: nts TBO5 WIRING DIAGRAM



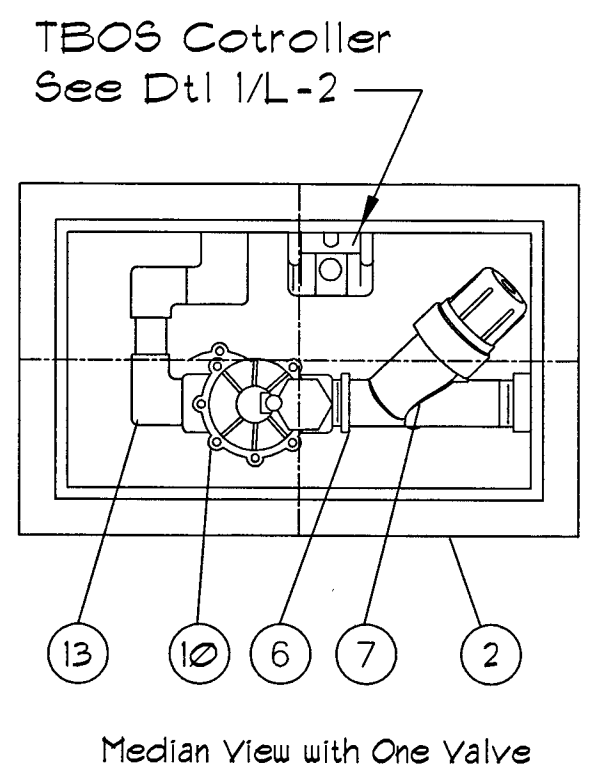
**3 Start Connection w PVC Riser**  
Scale: nts



- ① FINISH GRADE  
Top of Lid = -0.83' Existing Curb at 0'
- ② Old Castle Precast N36 Utility Box 17-1/8" x 30-1/4" Steel Checker Plate Cover B36-61D Or Equal
- ③ WATERPROOF CONNECTION: RAIN BIRD DB SERIES
- ④ VALVE ID TAG
- ⑤ 30-INCH LINEAR LENGTH OF WIRE, COILED
- ⑥ 1" x 3/4" REDUCING COUPLING (INCLUDED IN XCZ-LF-100-PRF KIT)
- ⑦ PRESSURE REGULATING FILTER: RAIN BIRD PRF-100-RBY (INCLUDED IN XCZ-LF-100-PRF KIT)
- ⑧ LATERAL PIPE 3/4"
- ⑨ PVC SCH 40 FEMALE ADAPTOR OR REDUCER
- ⑩ REMOTE CONTROL VALVE: RAIN BIRD LFV-100 (INCLUDED IN XCZ-LF-100-PRF KIT)
- ⑪ PVC SCH 40 TEE OR ELL TO MANIFOLD
- ⑫ 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
- ⑬ MANIFOLD PIPE AND FITTINGS

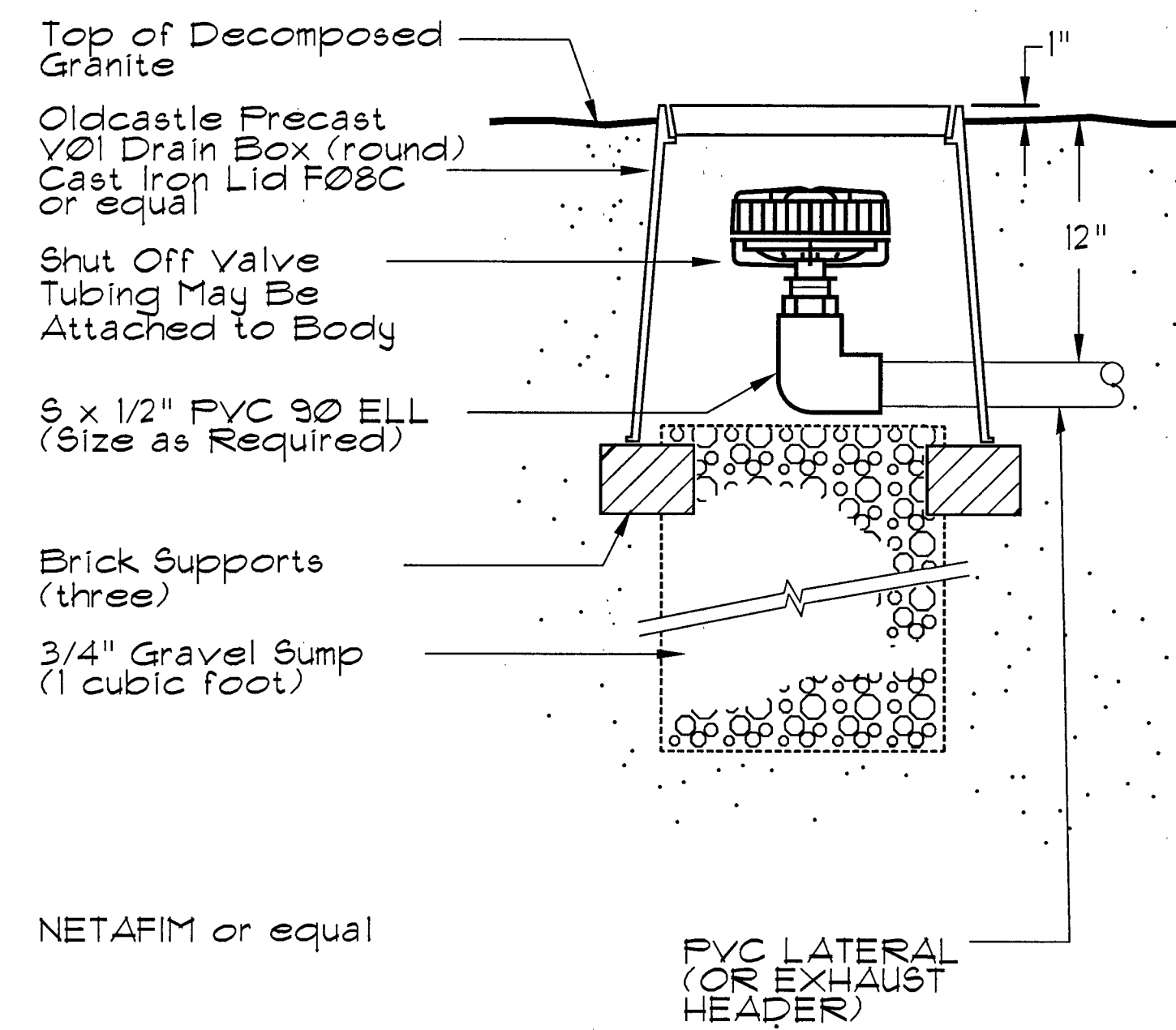


Replace Existing Chain Link fence w/ New Wrought Iron Fence.  
New Slurry Coat and Striping

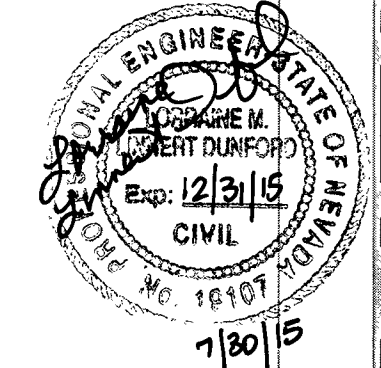


Catalogue View  
Needs Room for 24" x 6" x 6"

**4 XCZ-LF-100-PRF Valve**  
Scale: nts ZONE KIT IN SQUARE VALVE BOX



**5 Line Flushing Valve Plumbed to PVC**  
Scale: nts



**DEPARTMENT OF PUBLIC WORKS**

Charleson Medians Renovation location near Rancho Dr. and Tonopah Dr.

Irrigation Details

REVISIONS	
CONSULTANT	
STAMP	
OWNER: CITY OF LAS VEGAS	
DEPARTMENT OF PUBLIC WORKS	
CAPITAL PROJECTS MANAGEMENT	
333 NORTH RANCHO DRIVE	
LAS VEGAS, NEVADA 89106	
PHONE: (702) 229-6555	
FAX: (702) 582-3232	
TDD: (702) 386-9108	
DRAWN	mm
FILE	
DATE	March 20, 2013
SCALE	varies
R/D NO	34228
CLV DWG NO	10715901
SHT NO	

**IR-2**