













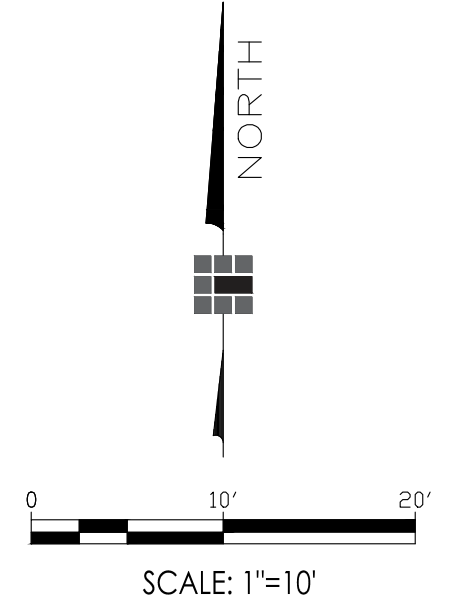
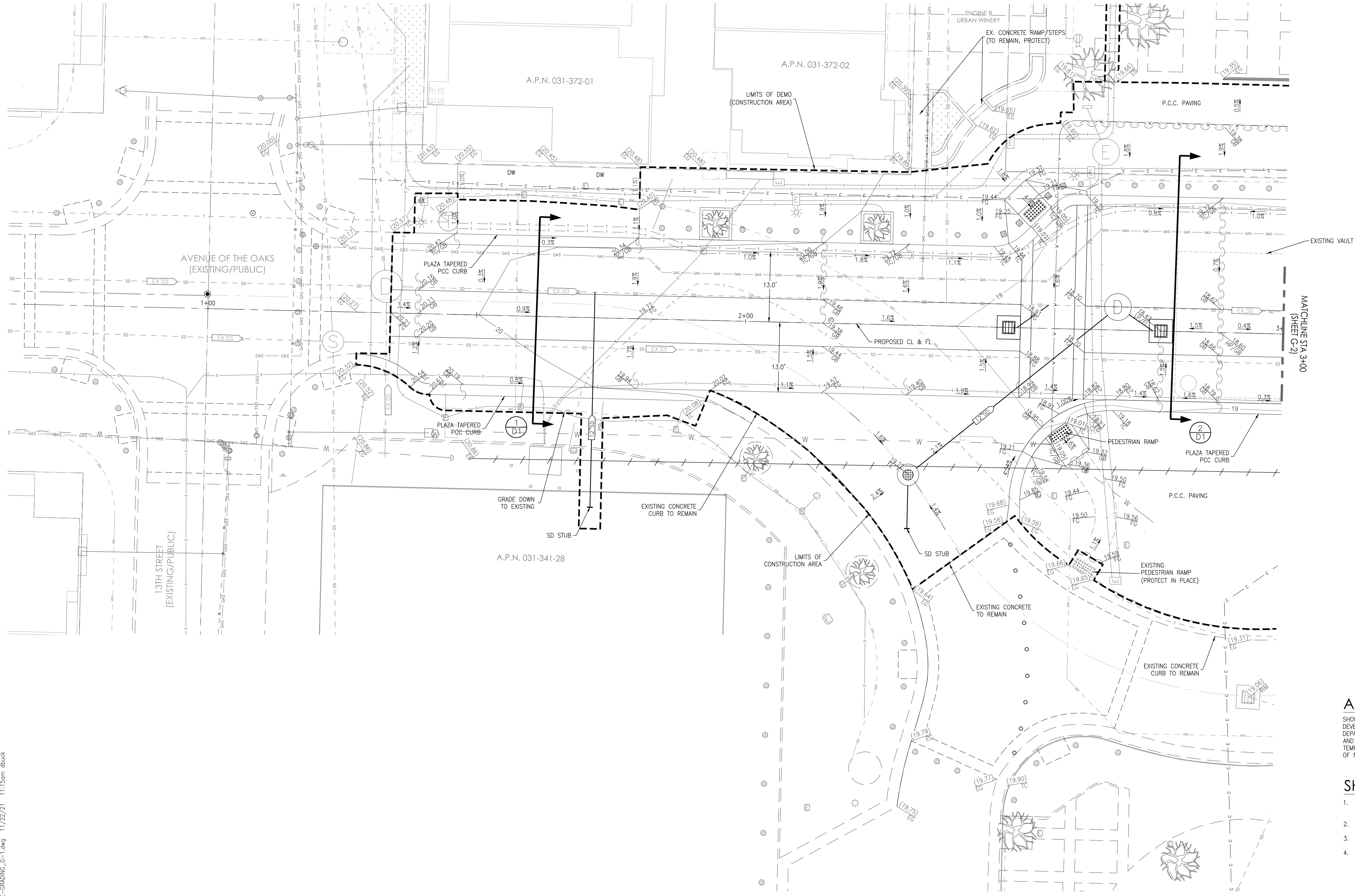








\\cc-661\share\cadd\City of Sparks\venue of the Oaks\venue of the Oaks\Improvement Plans\05-04E-GRADING\_C-1.dwg 11/22/21 11:15am dbuck



Know what's below.  
Call before you dig.

**LEGEND:**

- STORM DRAIN (SIZE & DIRECTION)
- STORM DRAIN MANHOLE
- CATCH BASIN (TYPE 3R)
- GRADE BREAK
- HANDRAIL
- ELEVATION @ EXISTING GRADE
- ELEVATION @ TOP BACK OF CURB FINISH GRADE
- ELEVATION @ TOP BACK OF DEPRESSED CURB FINISH GRADE
- ELEVATION @ FINISHED GRADE
- ELEVATION @ HIGH POINT/LOW POINT
- ELEVATION @ FLOW LINE
- ELEVATION @ GRADE BREAK
- SLOPE
- PROPOSED CONTOUR

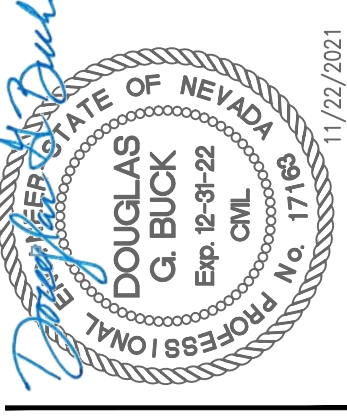
**ARCHEOLOGICAL STATEMENT:**

SHOULD ANY PREHISTORIC OR HISTORIC REMAINS/ARTIFACTS BE DISCOVERED DURING SITE DEVELOPMENT, WORK SHALL TEMPORARILY BE HALTED AT THE SPECIFIC SITE AND THE DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES, DIVISION OF HISTORIC PRESERVATION AND ARCHEOLOGY, SHALL BE NOTIFIED TO RECORD AND PHOTOGRAPH THE SITE. THE PERIOD OF TEMPORARY DELAY SHALL BE LIMITED TO A MAXIMUM OF TWO WORKING DAYS FROM THE DATE OF NOTIFICATION.

**SHEET NOTES**

1. TC ELEVATIONS SHOWN ARE FOR FULL HEIGHT CURB AND DO NOT REFLECT DRIVEWAYS AND PEDESTRIAN RAMP DEPRESSIONS UNLESS ANNOTATED AS SUCH PER LEGEND.
2. SEE SHEET N-1 FOR GRADING GENERAL NOTES.
3. SEE SHEET D-1 FOR TYPICAL AND STREET SECTIONS.
4. MATCH EXISTING CURB OR GRADE ELEVATION AT ALL TIE-IN LOCATIONS.

ISSUED FOR BID



**CHRISTY CORPORATION**  
 1000 Milley Parkway | Sparks Nevada 89436  
 775.502.8552 christynv.com

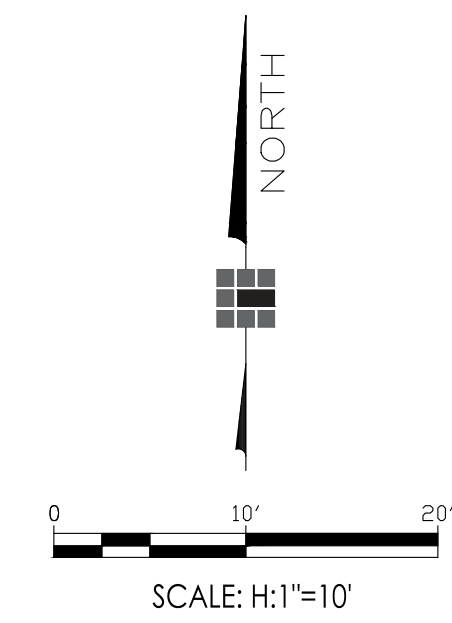
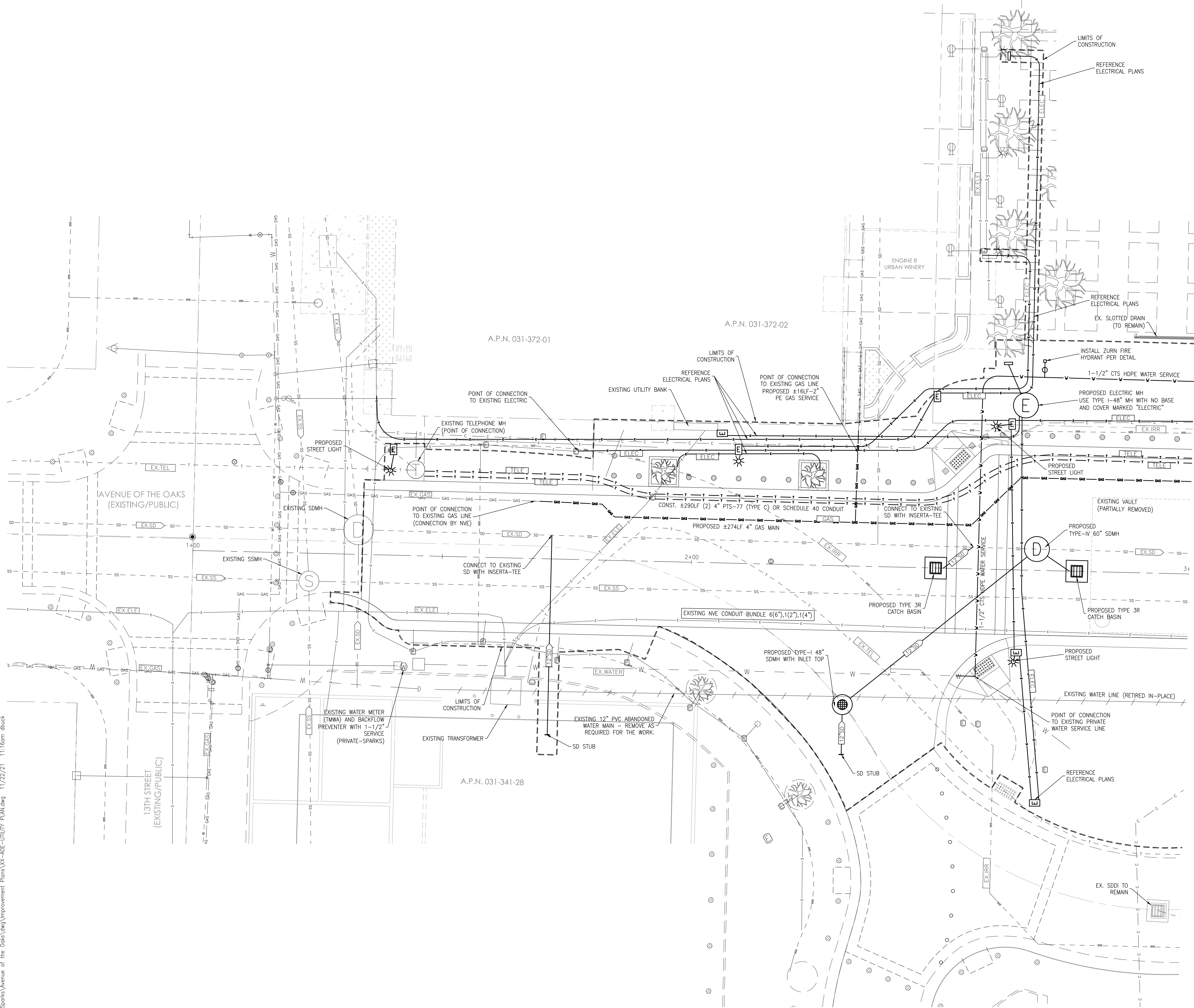
REV.	DATE	DESCRIPTION

CIVIL IMPROVEMENT PLANS FOR  
**AVENUE OF THE OAKS REALIGNMENT**  
 GRADING PLAN - WEST  
 CITY OF SPARKS  
 SPARKS, NEVADA

Designs and drawings contained herein are protected under USC copyright Title 17. Unauthorized duplication is a violation of state and federal law.  
 Date: 11/19/2021  
 Designed by: SAJ  
 Checked by: DGB  
 Job No. 1594.001



\\cc-d61\cadd\cadd\City of Sparks\Name of the Oaks\Utility\_Plan.dwg 11/22/21 11:16am dbuck



Know what's below.  
Call before you dig.

### LEGEND

EXISTING		PROPOSED	
	STREET LIGHT		STREET LIGHT
	STORM DRAIN MANHOLE		STORM DRAIN MANHOLE
	SANITARY SEWER MANHOLE		ELECTRICAL MANHOLE
	TYPE 3R CATCH BASIN		STORM DRAIN MANHOLE W/ INLET
	STORM DRAIN/SEWER DIRECTION		TYPE 3R CATCH BASIN
	STORM DRAIN MAIN		STORM DRAIN SIZE AND DIRECTION
	SANITARY SEWER MAIN		STORM DRAIN MAIN
	SS/SD CLEAN OUT		TELEPHONE
	TELEPHONE		ELECTRIC
	ELECTRIC		GAS
	GAS		WATER
	WATER		ELECTRIC PULL BOX
	WATER LINE (RETIRED IN-PLACE)		
	IRRIGATION		
	IRRIGATION - CONTROL		
	ELECTRIC PULL BOX		
	GAS VALVE		
	WATER VALVE		
	WATER METER		
	TELEPHONE MANHOLE		

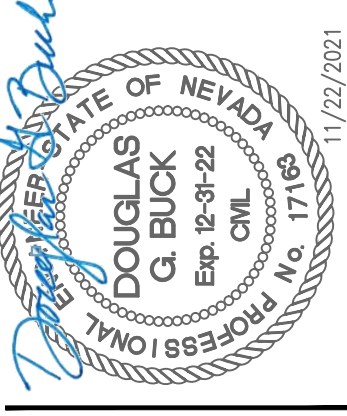
### UTILITY NOTES

1. REFERENCE SHEET P-1 FOR UTILITY NOTES, INVERTS, RIM ELEVATIONS, ETC...
2. ALL MANHOLE RIM ELEVATIONS ARE APPROXIMATE. RIMS TO BE SET AT FINAL GRADE. EXISTING STORM DRAIN AND SEWER MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE.
3. THERE SHALL BE A MINIMUM OF 36" COVER OVER WATER MAIN.
4. ADJUST ALL WATER AND GAS VALVES TO FINISH GRADE.

### GAS CONSTRUCTION

CONTRACTOR SHALL PROVIDE TRENCH, BEDDING AND BACKFILL FOR NV ENERGY CREW GAS INSTALLATION. REFERENCE DEMOLITION PLAN FOR EXISTING GAS DEMOLITION.

ISSUED FOR BID



**CHRISTY CORPORATION**  
 1000 Milley Parkway | Sparks Nevada 89436  
 775.502.8552 christynv.com

REV.	DATE	DESCRIPTION

CIVIL IMPROVEMENT PLANS FOR  
**AVENUE OF THE OAKS REALIGNMENT**  
 UTILITY PLAN - WEST  
 CITY OF SPARKS  
 SPARKS, NEVADA

Designs and drawings contained herein are protected under USC copyright Title 17. Unauthorized duplication is a violation of state and federal law.

Date: 11/03/2021  
 Designed by: SAJ  
 Checked by: DGB  
 Job No. 1594.001



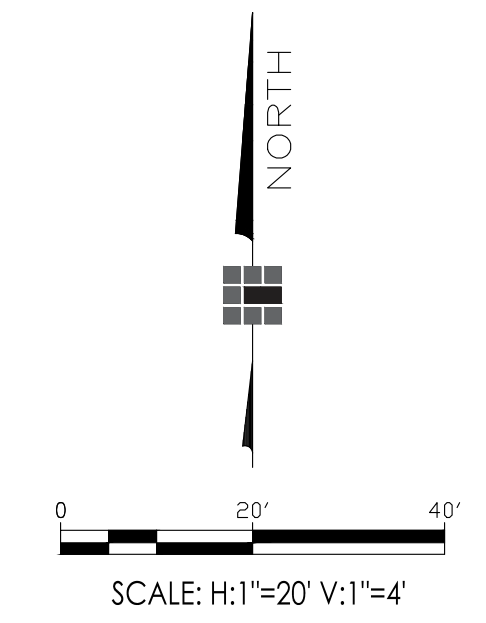
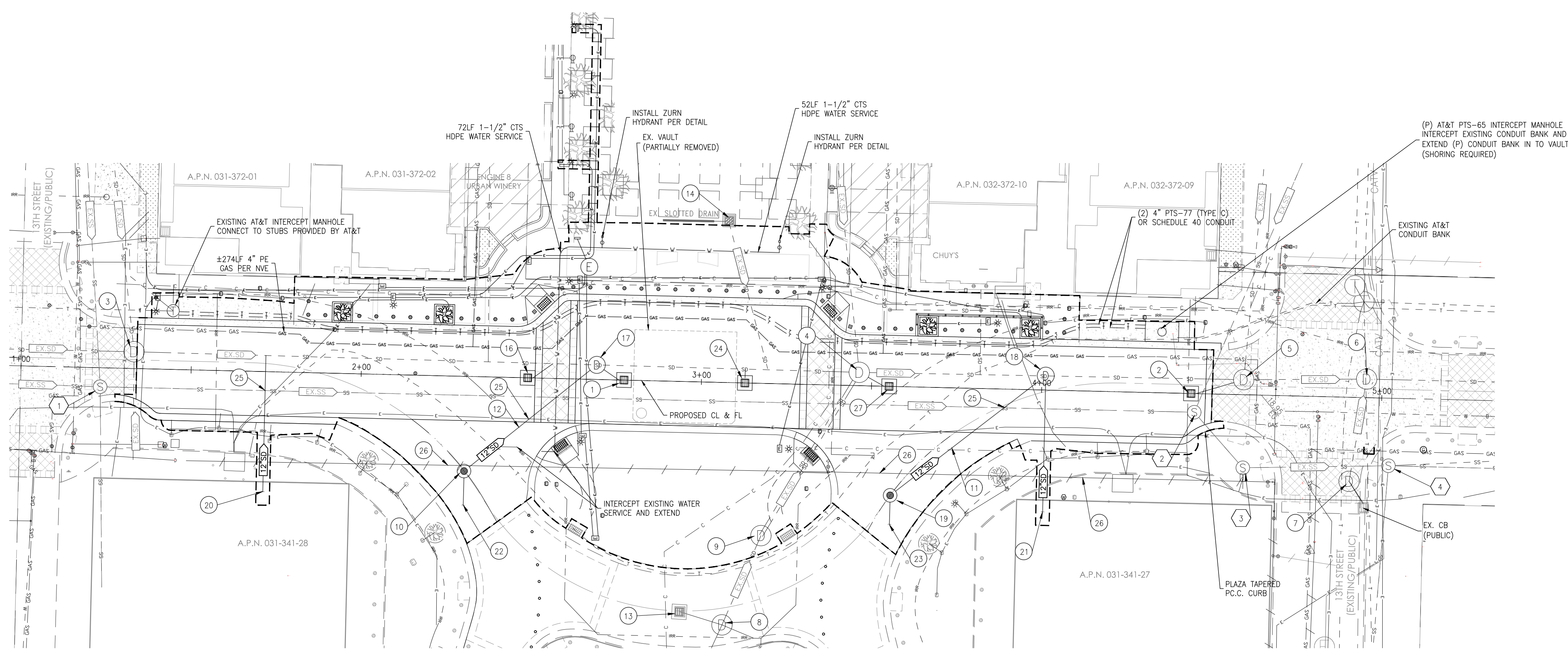


**CHRISTY CORPORATION**  
 1000 Kiley Parkway | Sparks, Nevada 89436  
 775.502.8552 | christynv.com

REV.	DATE	DESCRIPTION

CIVIL IMPROVEMENT PLANS FOR  
**AVENUE OF THE OAKS REALIGNMENT**  
 UTILITY - PLAN AND PROFILE  
 CITY OF SPARKS, NEVADA

Designs and drawings contained herein are protected under USC copyright Title 17. Unauthorized duplication is a violation of state and federal law.  
 Date: 11/23/21  
 Designed by: SAJ  
 Checked by: DGB  
 Job No. 1594.001



**1 SANITARY SEWER NOTES**

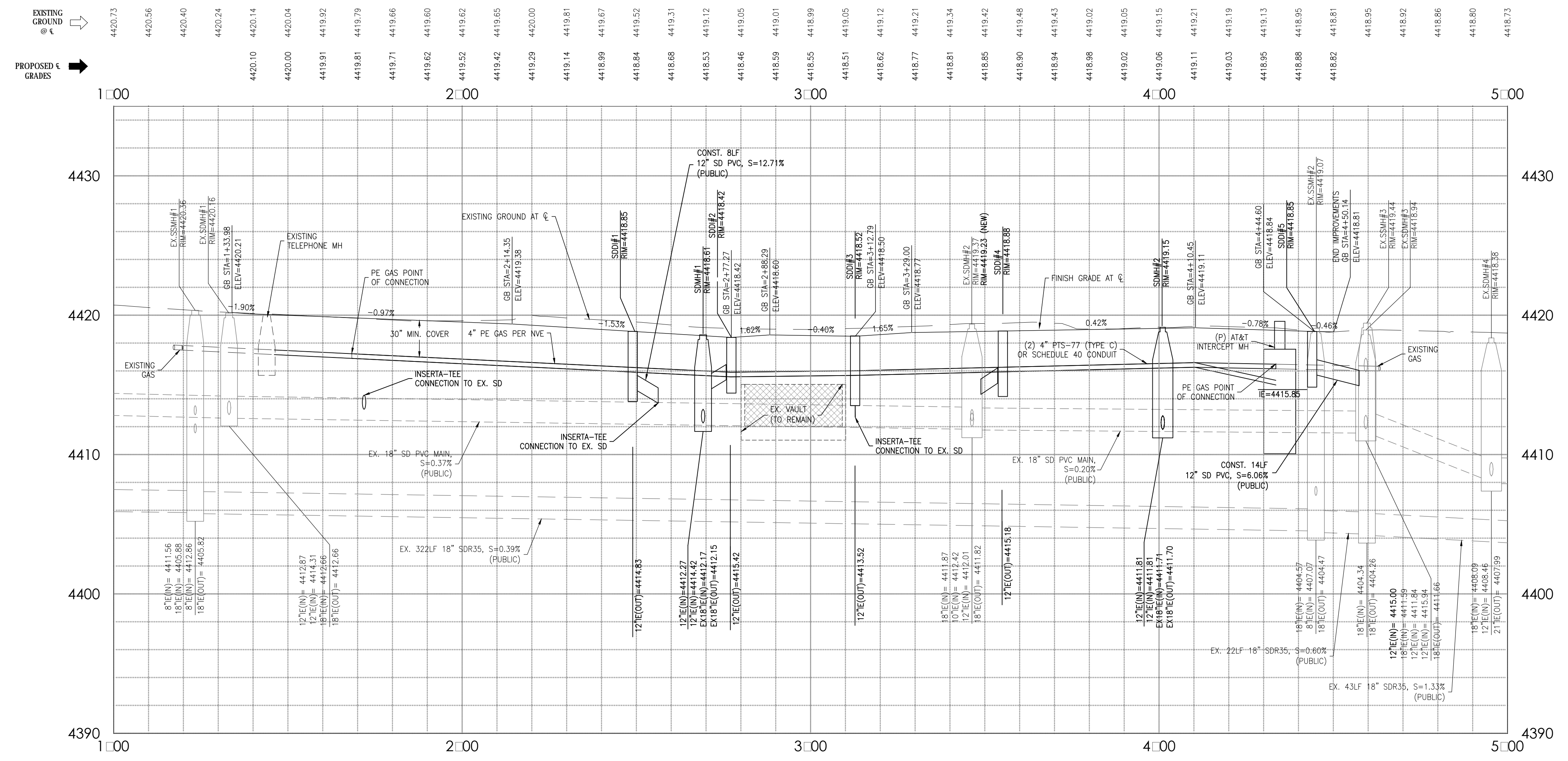
- EX.SSMH#1 (PUBLIC)
- EX.SSMH#2 (PUBLIC)  
ADJUST RIM TO GRADE  
INSTALL NEW COVER AND FRAME
- EX.SSMH#3 (PUBLIC)
- EX.SSMH#5 (PUBLIC)

**1 STORM DRAIN NOTES**

- |    |   |    |   |
|----|---|----|---|
| 1  | SDDI#2 (TYPE 3R) PUBLIC<br>STA 2+77.27, 0.00'<br>RIM/FL=4418.42, IE(OUT)=4415.42<br>12"IE(SDMH)=4414.42, S=12.7%<br>8LF 12" SDR35 PVC SD LATERAL<br>(MATCH CROWN - VERIFY)                            | 17 | SDMH#1 (TYPE N-60") PUBLIC<br>STA 2+69.15, 4.28' L<br>RIM=4418.66, 12"IE(N)=4412.27<br>EX18"IE(N)=4412.17, EX18"IE (OUT)=4412.15<br>(FIELD VERIFY)  |
| 2  | SDDI#5 (TYPE 3R) PUBLIC<br>STA 4+44.60, 0.00'<br>RIM/FL=4418.85, IE(OUT)=4415.85<br>12"IE(MAN)=4415.00, S=6.1%<br>14LF 12" SDR35 PVC SD LATERAL<br>(RE-USE EX. SDMH PENETRATION OR RE-CORE & GROUT)   | 18 | SDMH#2 (TYPE N-60") PUBLIC<br>STA 4+01.07, 4.16' L<br>RIM=4419.23, 12"IE(N)=4411.81, 12"IE(N)=4441.81<br>EX18"IE(N)=4411.71, EX18"IE (OUT)=4411.70<br>(FIELD VERIFY)                                  |
| 3  | EX.SDMH#1 (PUBLIC)<br>ADJUST RIM TO GRADE<br>INSTALL NEW COVER AND FRAME  | 19 | SDMH#4 (TYPE I-48") PUBLIC<br>STA 3+56.23, 32.02' R<br>INSTALL TEMPORARY MANHOLE GRATE COVER,<br>(D&L FOUNDRY C-1030-01 OR APPROVED EQUAL)<br>RIM/FL=4419.12, 12"IE(N)=4412.49<br>12"IE (OUT)=4412.39 |
| 4  | EX.SDMH#2 (PUBLIC)<br>ADJUST RIM TO GRADE<br>INSTALL NEW COVER AND FRAME  | 20 | SD STUB (FUTURE)<br>STA 1+71.88, 35.26' R<br>SDIE=4413.47, INSTALL 40LF 12" SDR35 PVC,<br>S=0.5%, IE(SDMH)=4411.59<br>CAP SD STUB FOR 12" FUTURE CONNECTION   |
| 5  | EX.SDMH#3 (PUBLIC)<br>STA 4+59.33, 4.43' L<br>RIM=4418.94, 12"IE(N)=4411.59<br>EX12"IE(N)=4411.84, EX12"IE(N)=4415.94,<br>EX18"IE (OUT)=4411.66<br>(FIELD VERIFY)                                     | 21 | SD STUB (FUTURE)<br>STA 4+01.15, 35.78' R<br>SDIE=4412.01, INSTALL 40LF 12" SDR35 PVC,<br>S=0.5%, IE(SDMH)=4411.81<br>CAP SD STUB FOR 12" FUTURE CONNECTION   |
| 6  | EX.SDMH#4 (PUBLIC)  | 22 | SD STUB (FUTURE)<br>STA 2+30.88, 37.83' R<br>SDIE=4412.97, INSTALL 10LF 12" SDR35 PVC,<br>S=1.0%, IE(SDMH#3)=4412.87<br>CAP SD STUB FOR 12" FUTURE CONNECTION   |
| 7  | EX.SDMH#5 (PUBLIC)  | 23 | SD STUB (FUTURE)<br>STA 3+56.22, 40.50' R<br>SDIE=4412.57, INSTALL 10LF 12" SDR35 PVC,<br>S=1.0%, IE(SDMH#4)=4412.49<br>CAP SD STUB FOR 12" FUTURE CONNECTION   |
| 8  | EX.SDMH#6 (PUBLIC)  | 24 | SDDI#3 (TYPE 3R) PUBLIC<br>STA 3+12.79, 0.00'<br>RIM/FL=4418.52, IE(OUT)=4413.52<br>12"IE(MAN)=4412.74, S=19.2%<br>4LF 12" SDR35 PVC SD LATERAL<br>(INSERTA-TEE CONNECTION AT MAIN TOP)               |
| 9  | EX.SDMH#7 (PUBLIC)<br>ADJUST RIM TO GRADE<br>INSTALL NEW COVER AND FRAME  | 25 | POTHOLE STORM DRAIN CROSSING IN ADVANCE OF WORK<br>FOR THE WORK   |
| 10 | SDMH#3 (TYPE I-48") PUBLIC<br>INSTALL TEMPORARY MANHOLE GRATE COVER,<br>(D&L FOUNDRY C-1030-01 OR APPROVED EQUAL)<br>STA 2+30.88, 27.83' R<br>RIM/FL=4419.25, 12"IE(N)=4412.87<br>12"IE (OUT)=4412.77 | 26 | EXISTING ABANDONED WATER TO BE REMOVED AS REQUIRED<br>FOR THE WORK  |
| 11 | 58LF 12" SDR35 PVC, S=1.0%  | 27 | SDDI#4 (TYPE 3R) PUBLIC<br>STA 3+55.17, 0.00'<br>RIM/FL=4418.88, IE(OUT)=4415.18<br>12"IE(MAN)=4414.38, S=14.7%<br>8LF 12" SDR35 PVC SD LATERAL<br>(MATCH CROWN - VERIFY)                             |
| 12 | 50LF 12" SDR35 PVC, S=1.0%<br>(RE-USE EX. SDMH PENETRATION OR RE-CORE & GROUT<br>FOR NEW STORM DRAIN PIPE INSTALLATION)   |    |   |
| 13 | EX.SDMH#4<br>TYPE 3R (PUBLIC)   |    |   |
| 14 | EX.SDMH#5<br>TYPE 3R WITH FRENCH DRAIN (PUBLIC)<br>(PROTECT IN-PLACE)   |    |   |
| 15 | NOT USED  |    |   |
| 16 | SDDI#1 (TYPE 3R) PUBLIC<br>STA 2+48.97, 0.00'<br>RIM/FL=4418.85, IE(OUT)=4414.85<br>12"IE(MAN)=4413.75, S=12.9%<br>8LF 12" SDR35 PVC SD LATERAL<br>(INSERTA-TEE CONNECTION AT MAIN TOP)               |    |   |

**AVE OF THE OAKS**

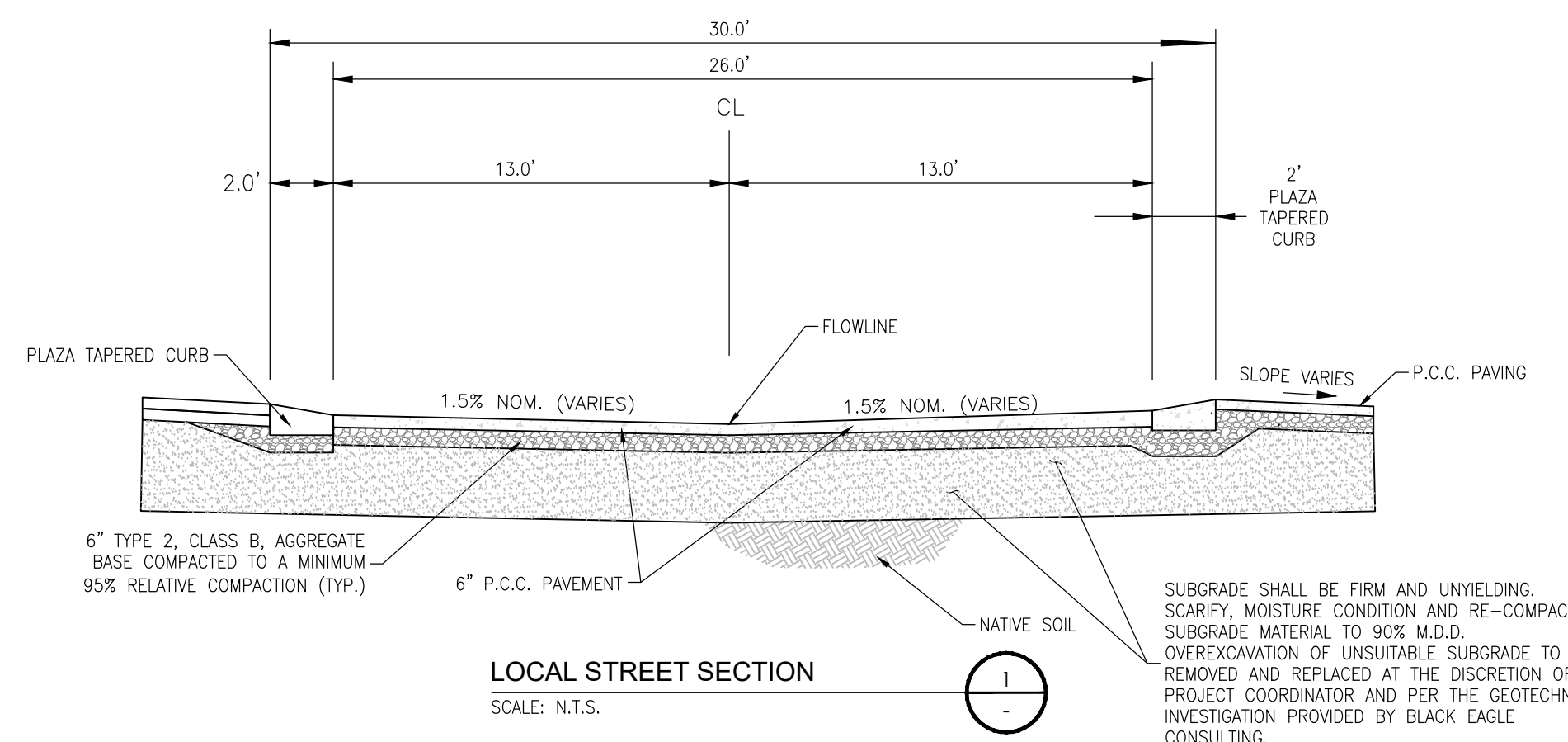
STA 1+00.00 TO 5+00.00  
 [PROPOSED/PUBLIC]



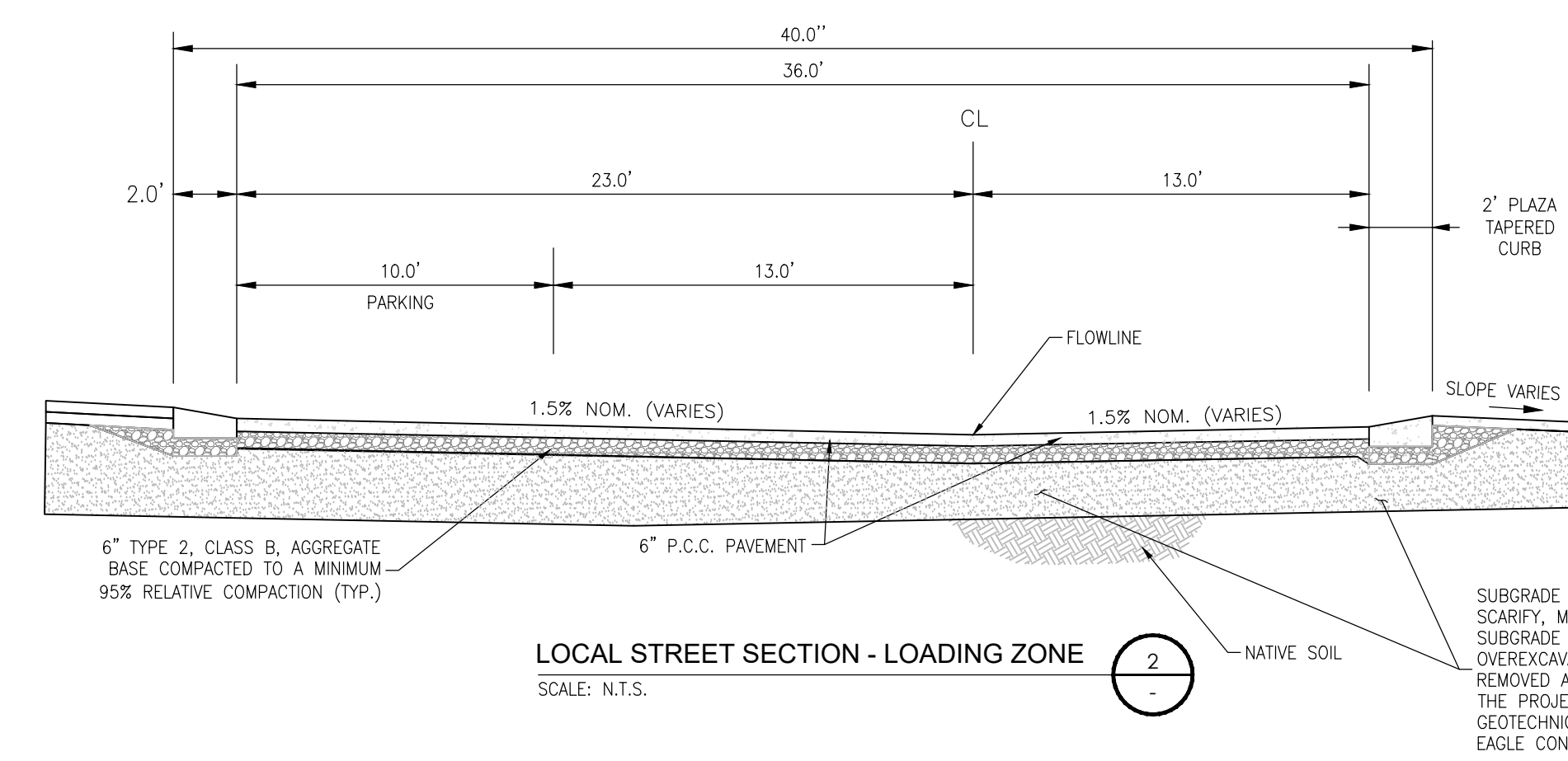
\\cc-ds1\share\jobs\City of Sparks\Name of the Oaks\UtilityImprovement Plans\06-06-21\AKM\PROJ\LE\_P-1.dwg 11/23/21 11:20am dbuck



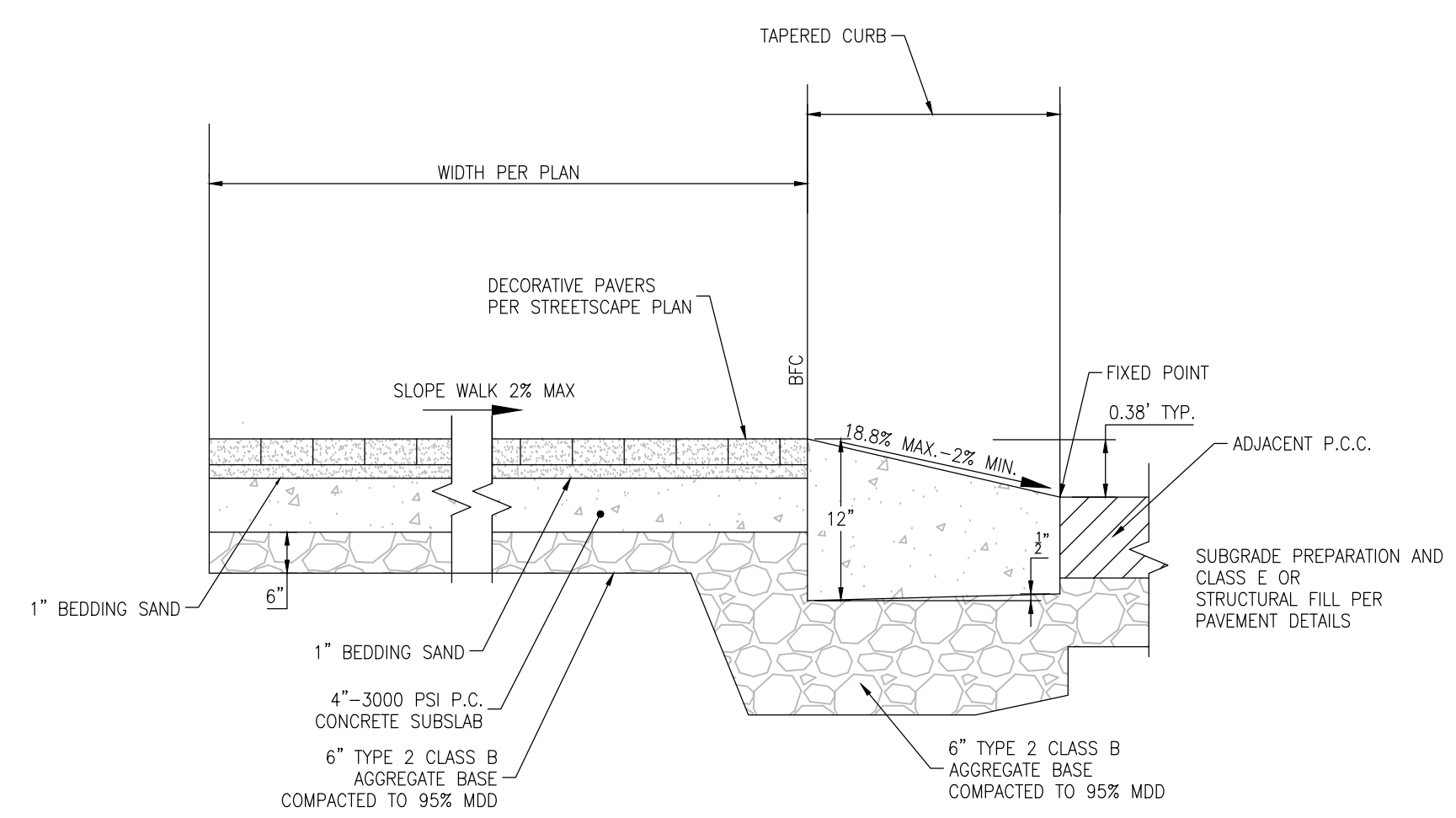
G:\Jobs\City of Sparks\Name of the Oaks\Improvement Plans\08-A06-DETAILS.dwg 11/22/21 12:49pm dbuck



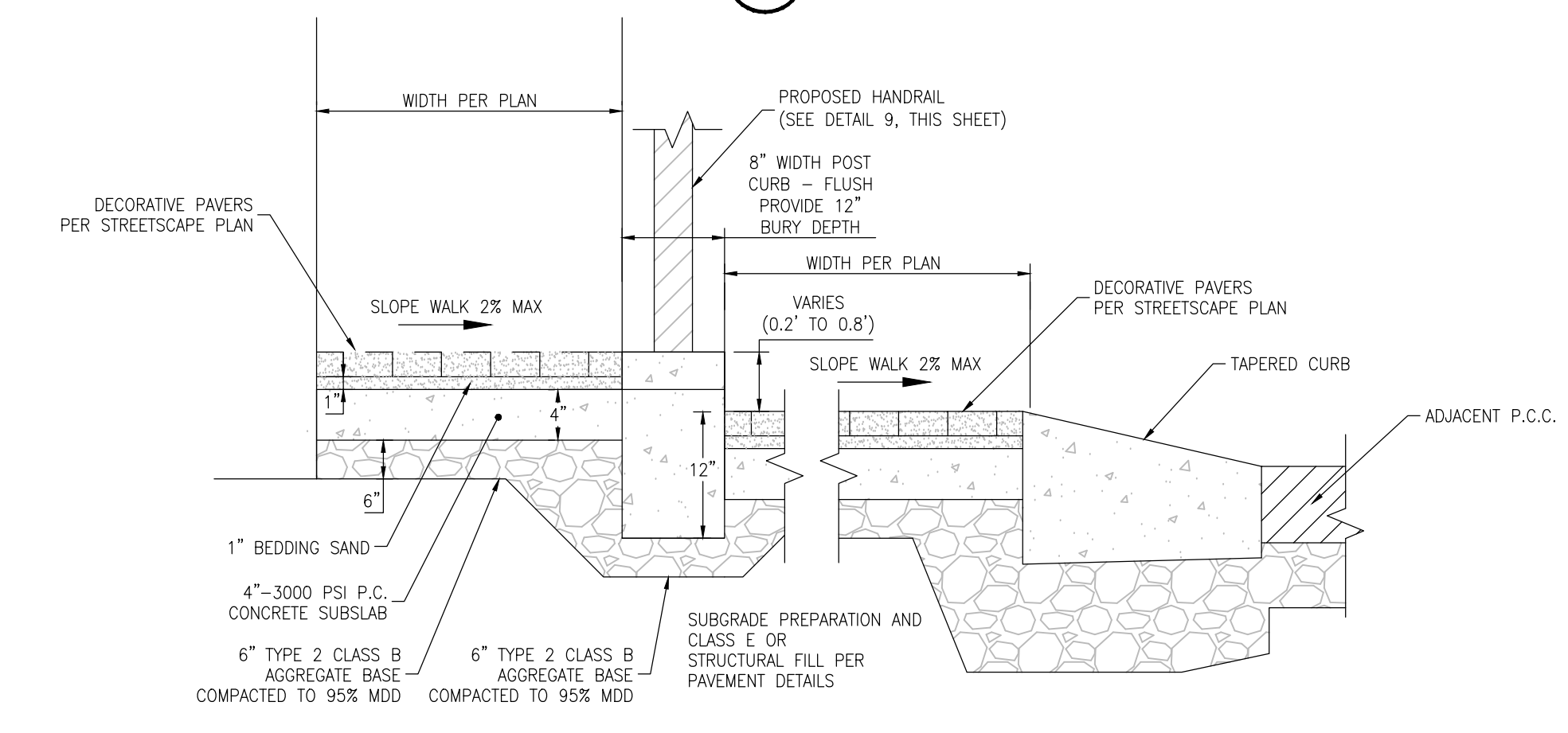
**LOCAL STREET SECTION**  
SCALE: N.T.S.



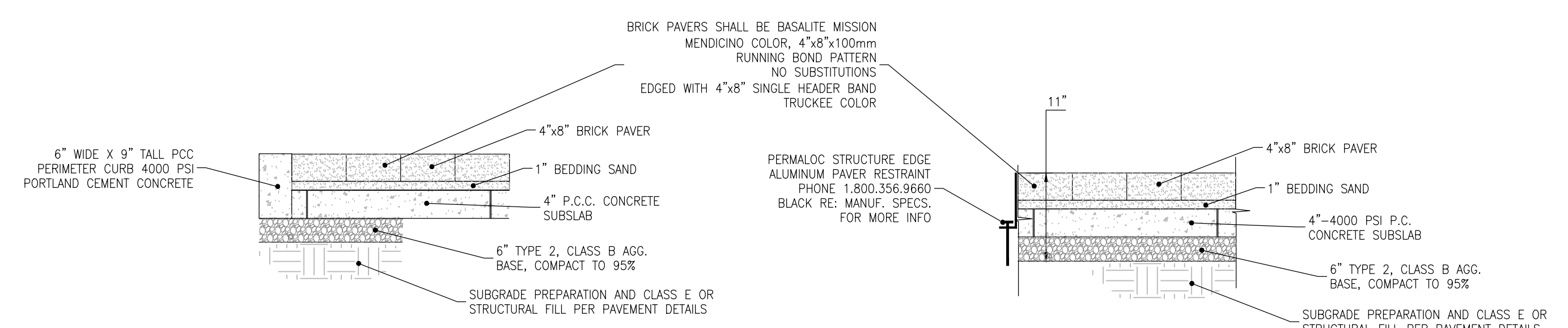
**LOCAL STREET SECTION - LOADING ZONE**  
SCALE: N.T.S.



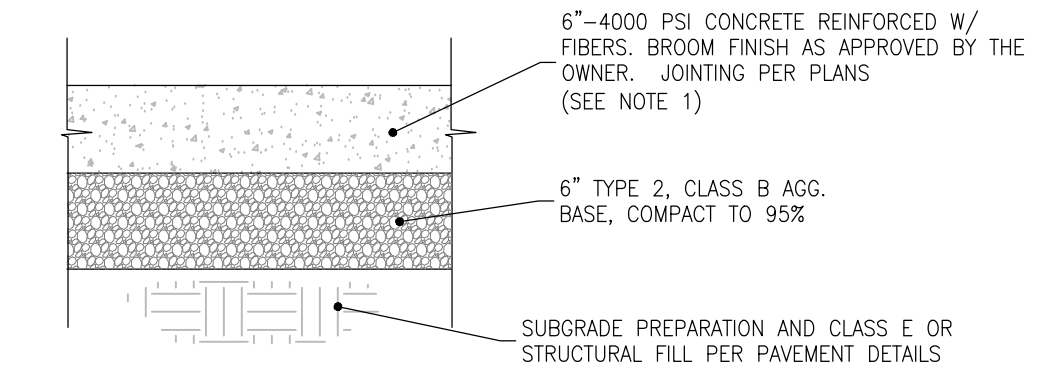
**PLAZA TAPERED CURB**  
NTS



**CURB W/ HANDRAIL**  
NTS



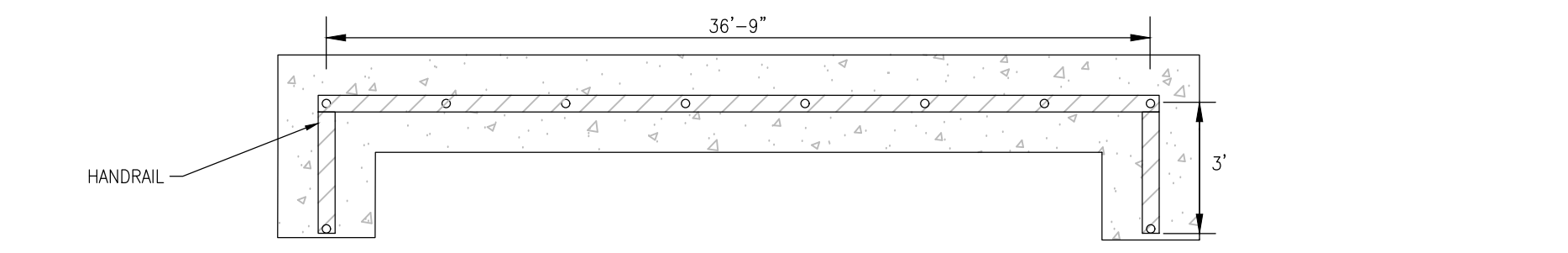
**PCC PERIMETER CURB DETAIL**  
NTS



**6\"/>**

**TYPICAL P.C.C. PAVEMENT SECTION**  
NTS

1. PORTLAND CEMENT CONCRETE PAVING SHALL BE REINFORCED WITH SYNTHETIC MICRO FIBER MEETING ASTM D7508 & ASTM C1116, TYPE 3, MINIMUM EQUIVALENCY FLEXURAL STRENGTH RATIO, FIBERFORCE 750 AT 5LB/CY OR APPROVED EQUAL.

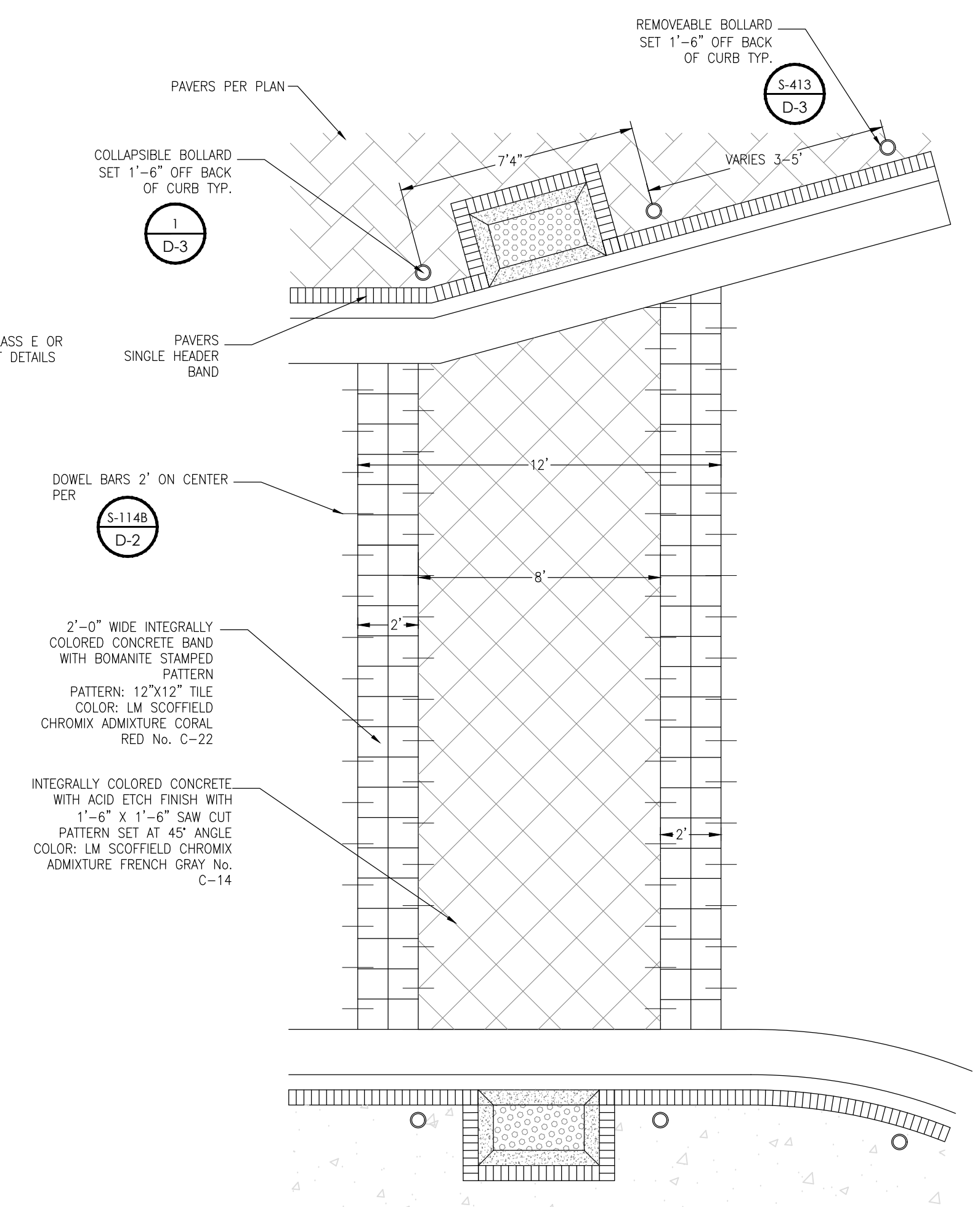


**HANDRAIL**  
NTS

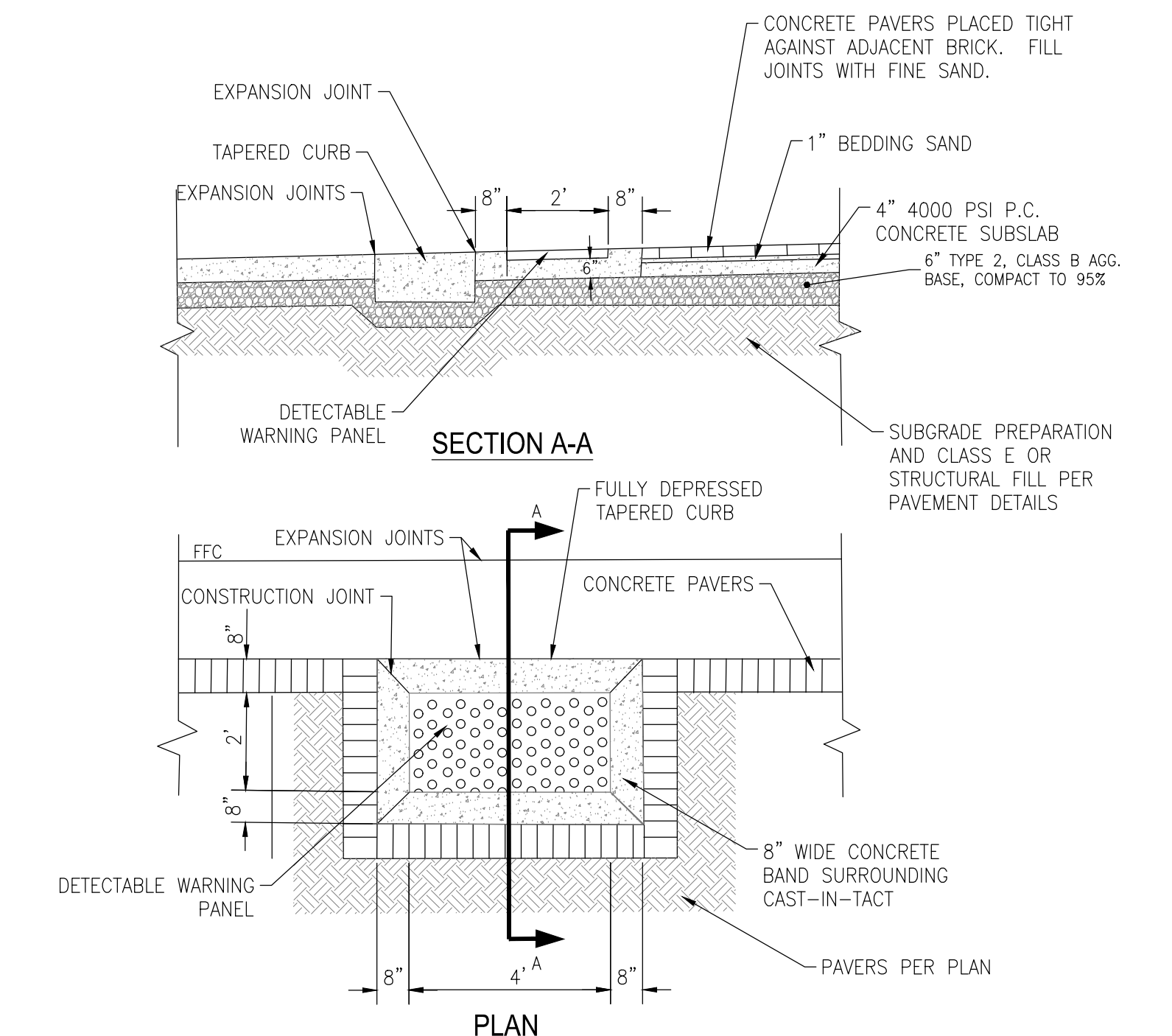
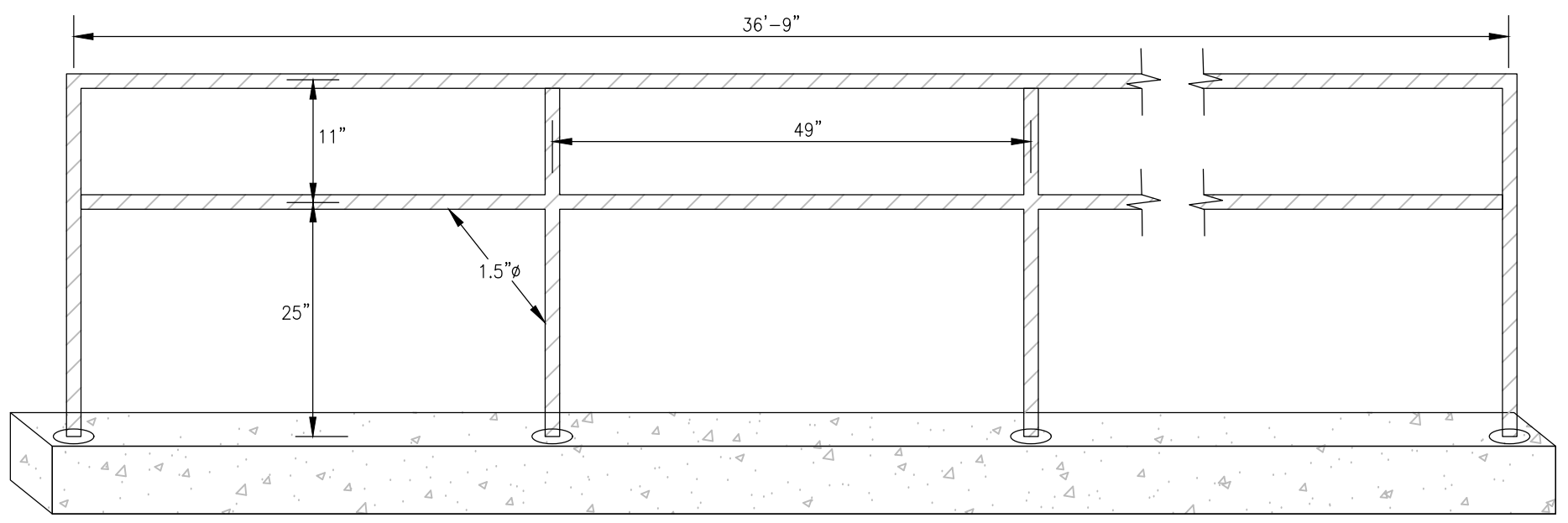
ITEM NO.	DESCRIPTION	MATERIAL
1	1.5\"/>	

1. CONTRACTOR TO MATCH COLOR OF EXISTING HAND RAILS AT ADJACENT BUSINESSES.
2. ALL WELDS SHALL BE GROUND SMOOTH.
3. TRUBOLT WEDGE ANCHORS, OR APPROVED EQUIVALENT, SHALL BE USED TO BOLT DOWN S.S. FLOOR FLANGE.
4. COAT RAILINGS IN ALL SURFACE ENAMEL OIL BASE.
5. SHOP DRAWINGS SHOULD BE SUBMITTED AND APPROVED BY ENGINEER.

**NON-VEHICULAR TRAFFIC AREA  
BRICK PAVEMENT SECTION**  
NTS



**DECORATIVE CROSSWALK**  
SCALE: N.T.S.



**TACTILE WARNINGS**  
NTS

1. USE DETAIL SPECIFIC ITEMS FROM DETAILS ON THIS SHEET WHEN CONFLICTING WITH STANDARD DETAILS.



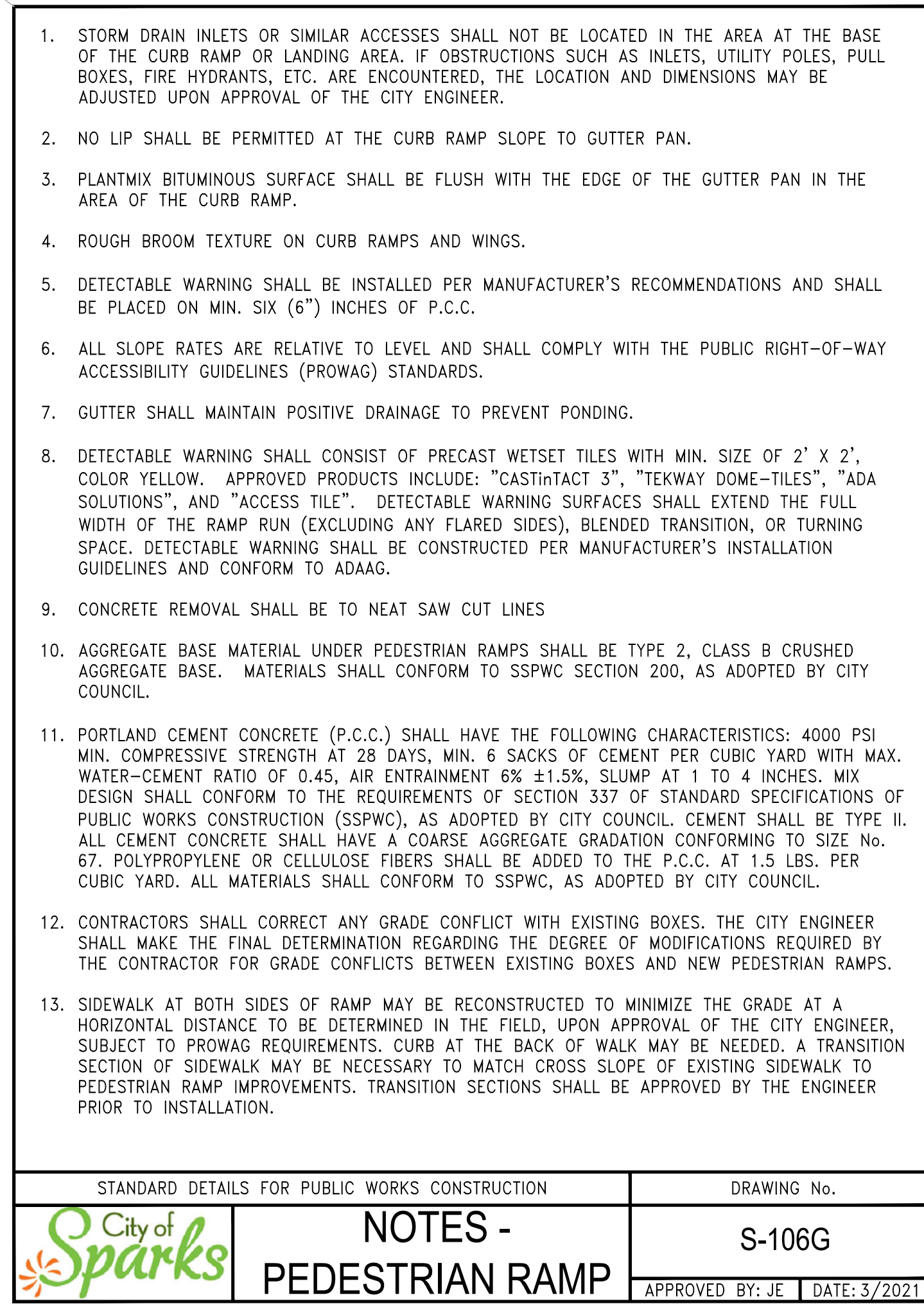
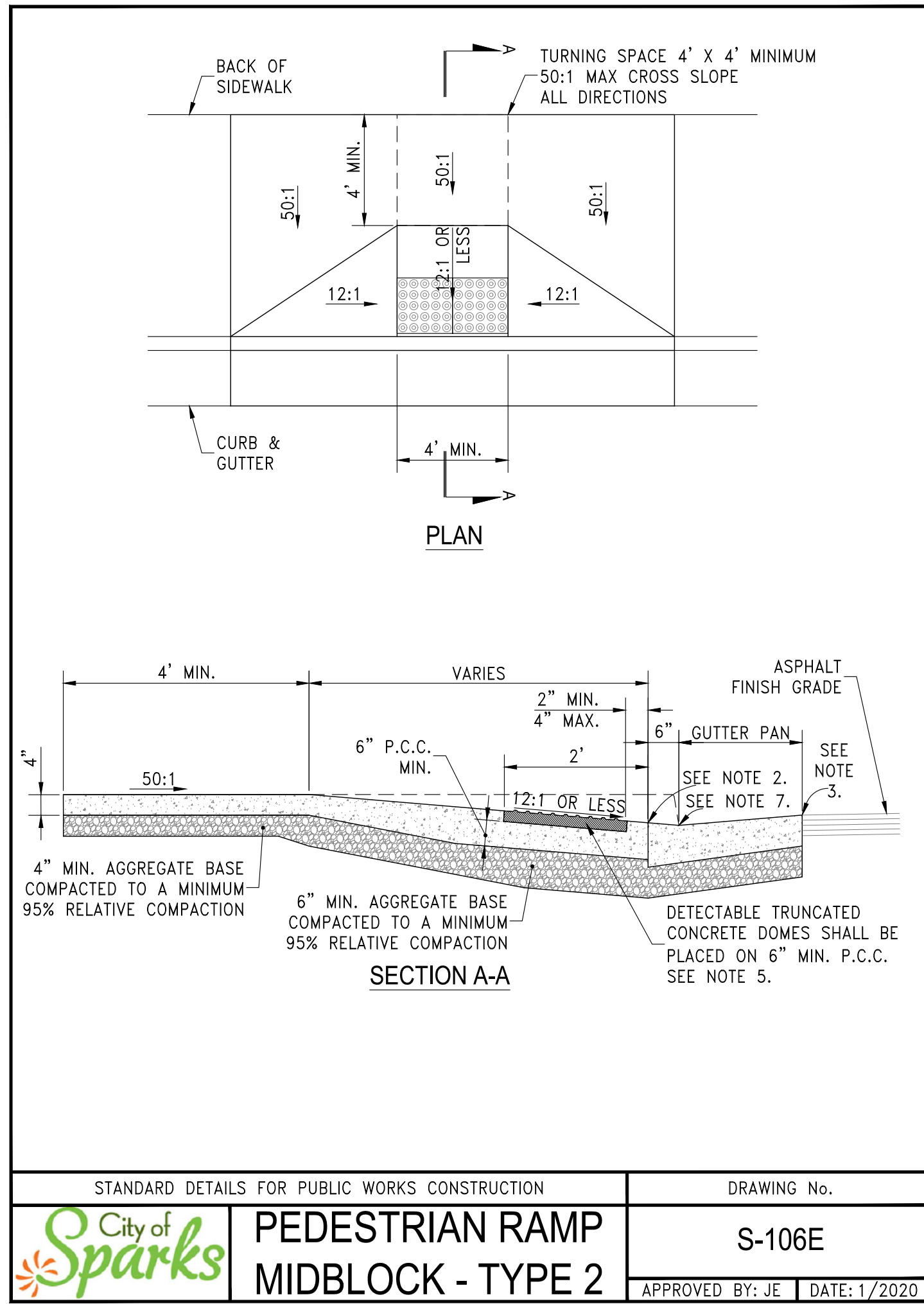
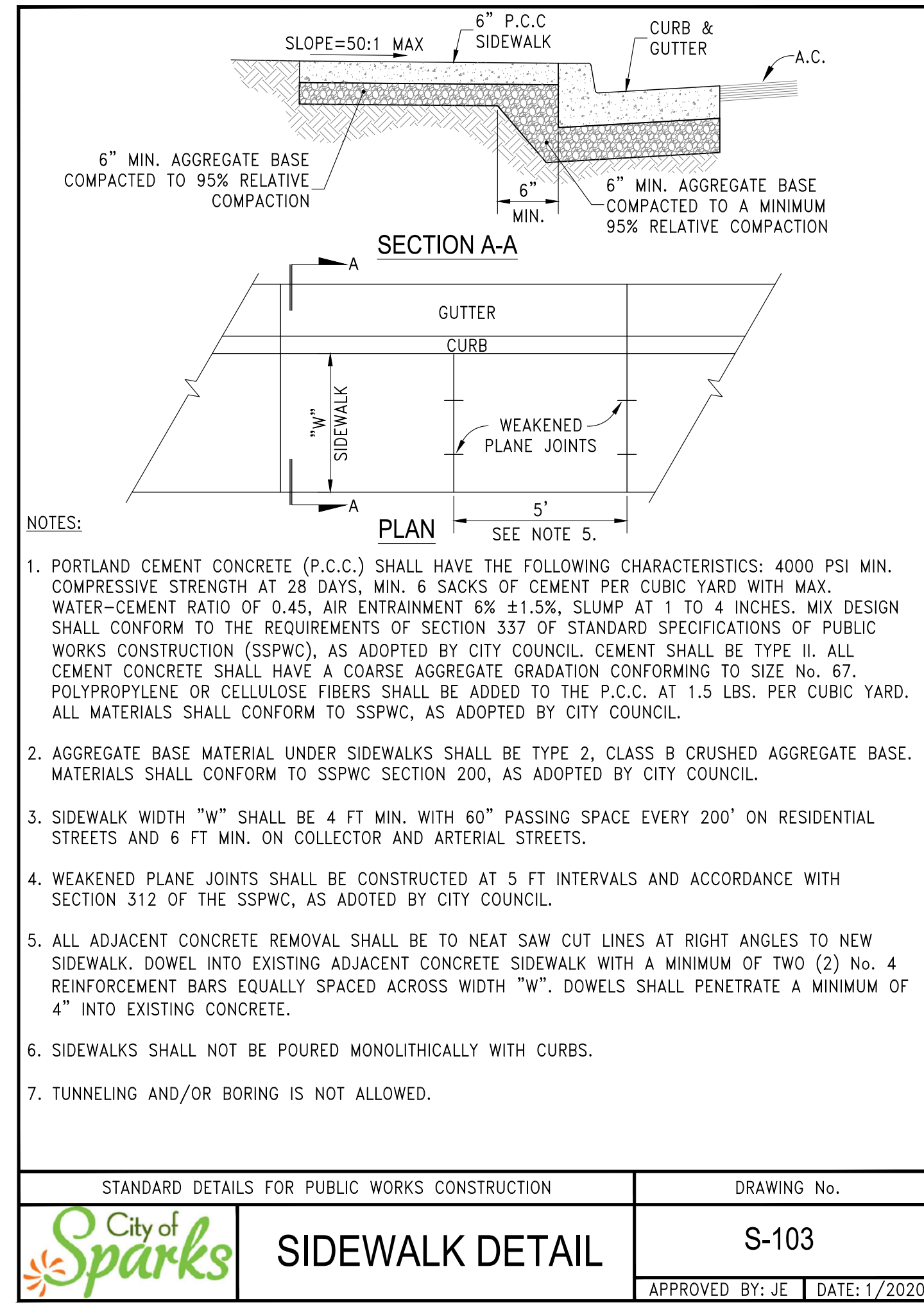
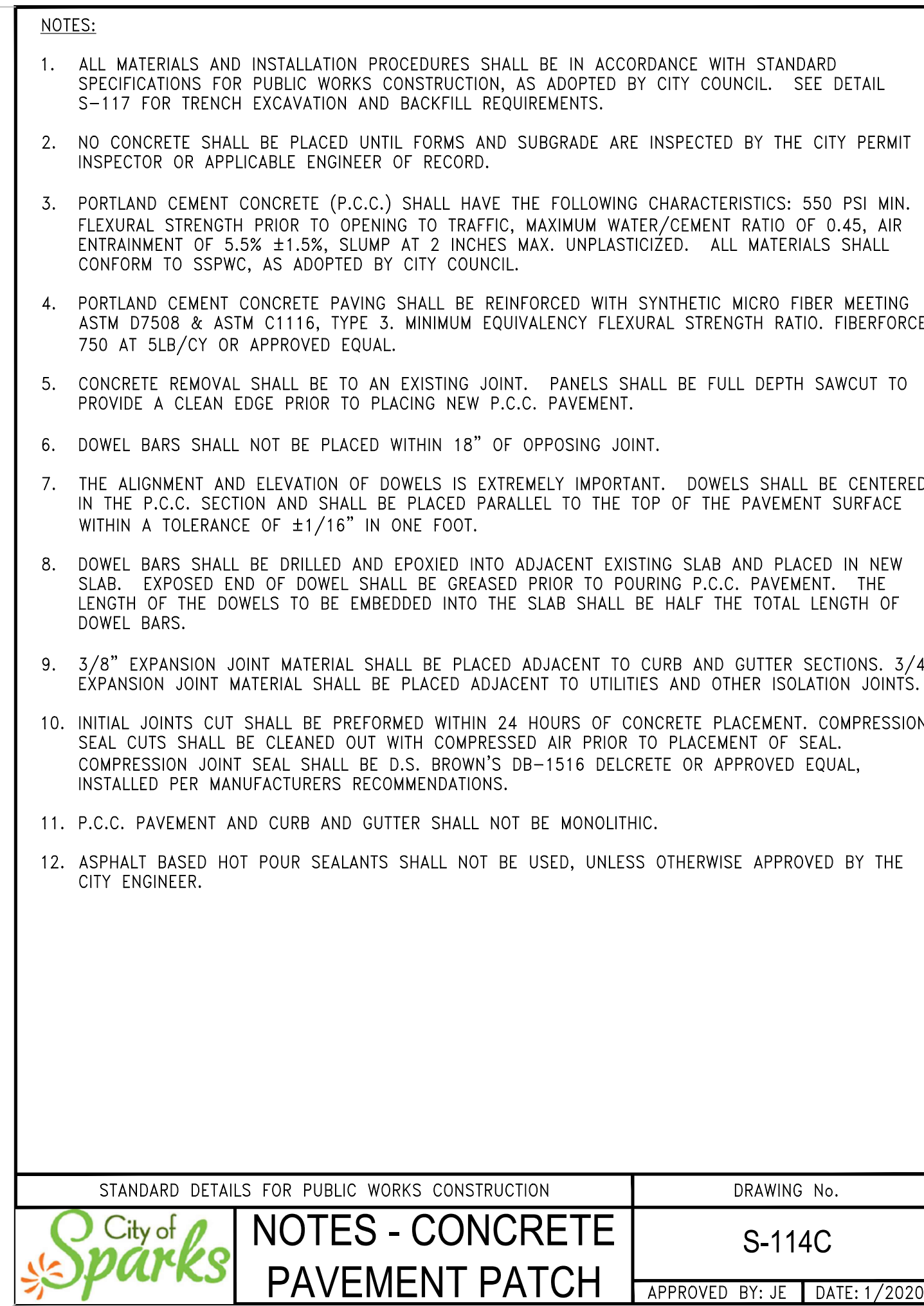
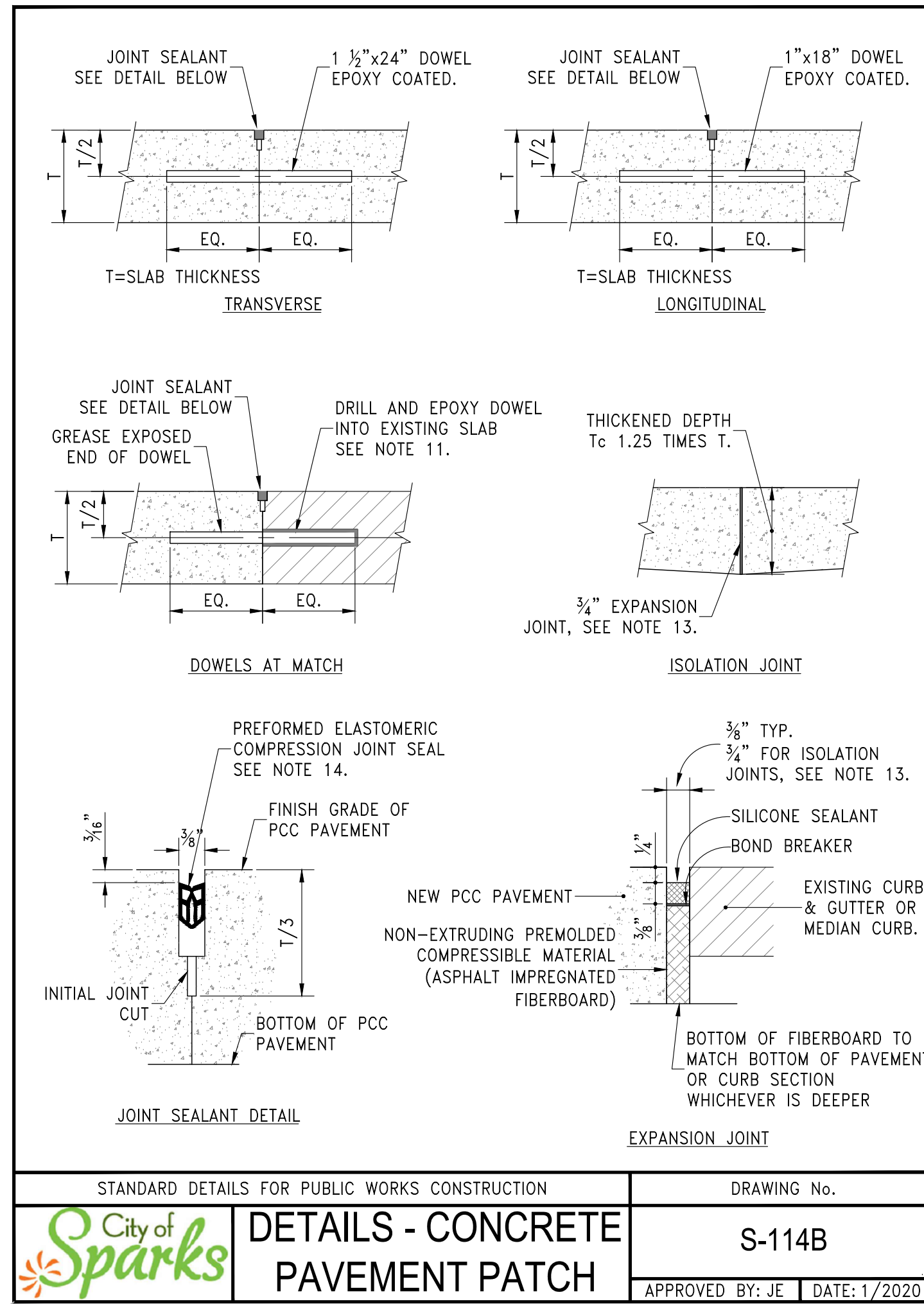
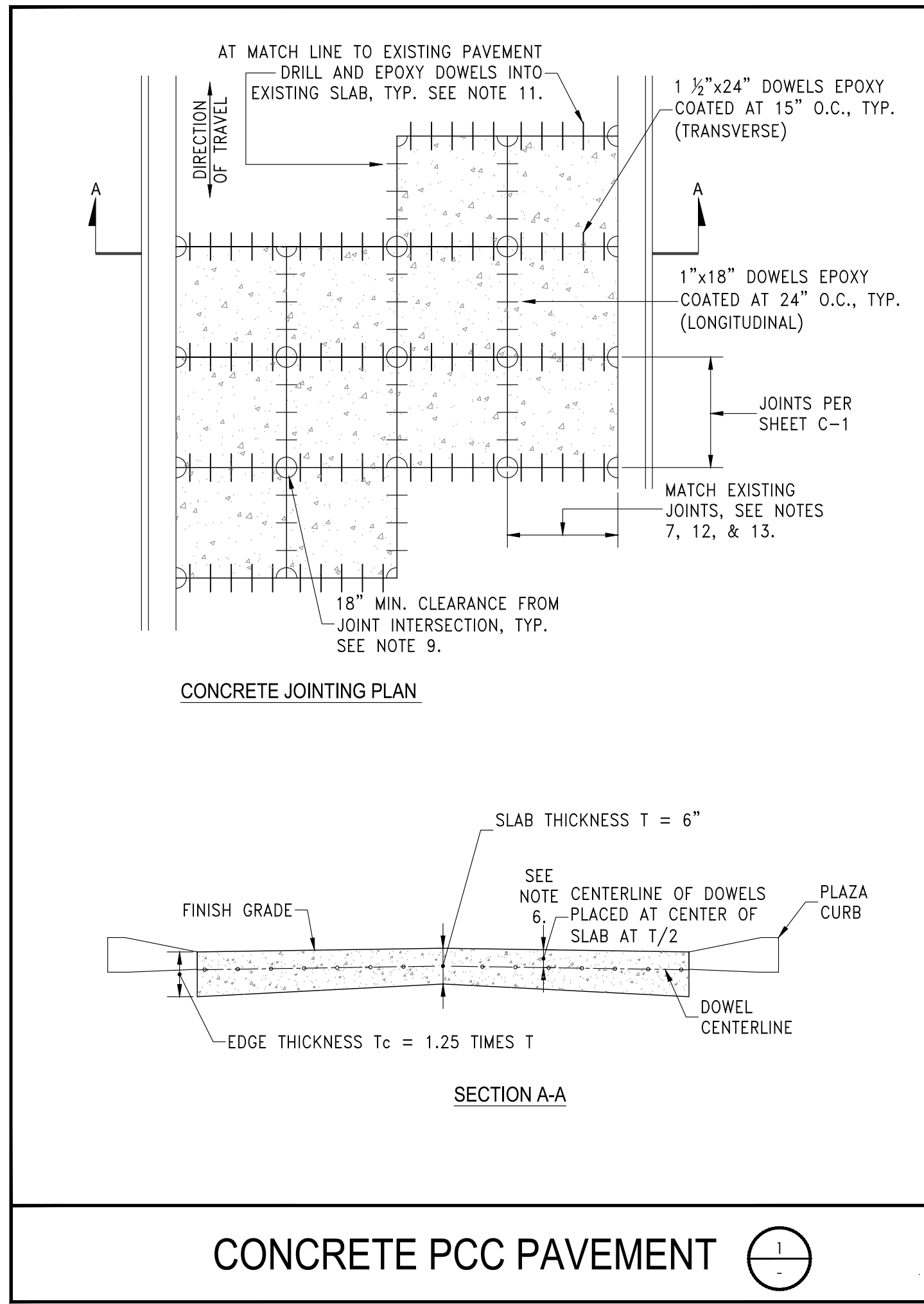
**CHRISTY CORPORATION**  
1000 Milley Parkway | Sparks, Nevada 89436  
775.502.8552 christynv.com

REV.	DATE	DESCRIPTION

**CIVIL IMPROVEMENT PLANS FOR  
AVENUE OF THE OAKS REALIGNMENT  
DETAILS**  
CITY OF SPARKS  
SPARKS, NEVADA

Designs and drawings contained herein are protected under USC copyright Title 17. Unauthorized duplication is a violation of state and federal law.  
Date: 11/09/2021  
Designed by: SAJ  
Checked by: DGB  
Job No. 1594.001





ISSUED FOR BID

PROFESSIONAL ENGINEER STATE OF NEVADA  
 DOUGLAS C. BLICK  
 Exp. 12-31-22  
 No. 17169

**CHRISTY CORPORATION**  
 1000 Kiley Parkway | Sparks, Nevada 89436  
 775.502.8552 | christynv.com

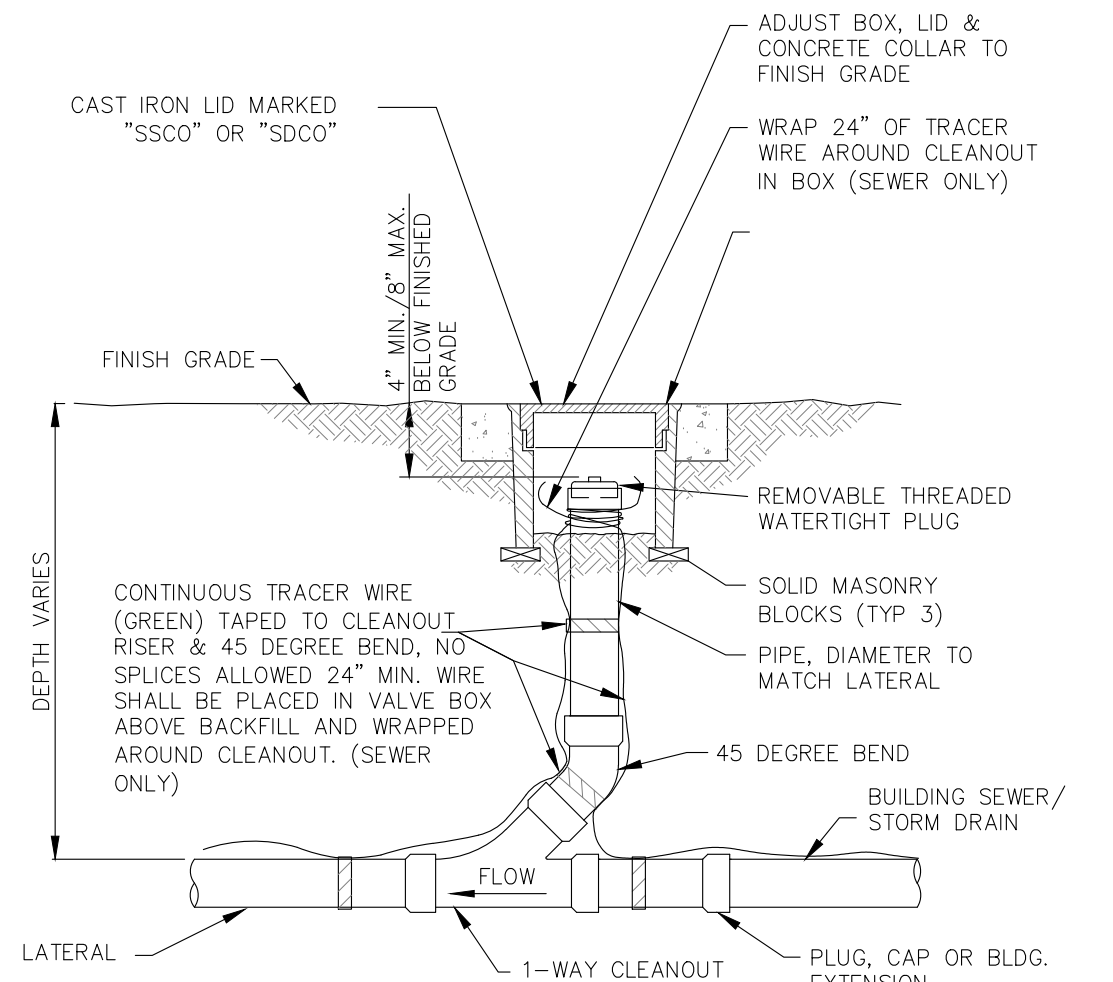
BY: \_\_\_\_\_  
 REV. DATE DESCRIPTION

CIVIL IMPROVEMENT PLANS FOR  
**AVENUE OF THE OAKS REALIGNMENT**  
 DETAILS  
 CITY OF SPARKS  
 SPARKS, NEVADA

Designs and drawings contained herein are protected under USC copyright Title 17. Unauthorized duplication is a violation of state and federal law.

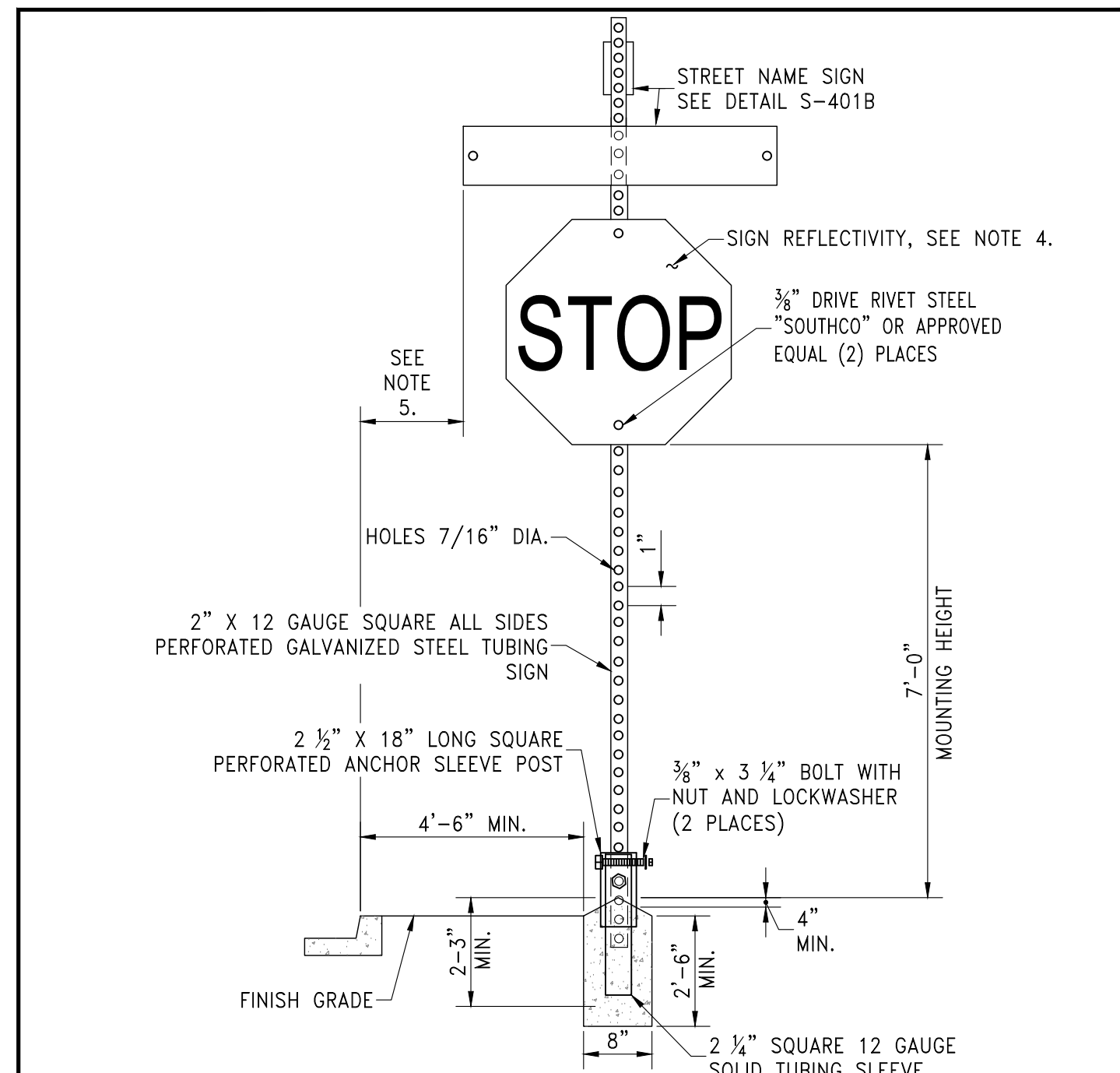
Date: 11/9/2021  
 Designed by: SAJ  
 Checked by: DGB  
 Job No. 1594.001

DRAWING  
**D-2**  
 SHEET 17 OF 32



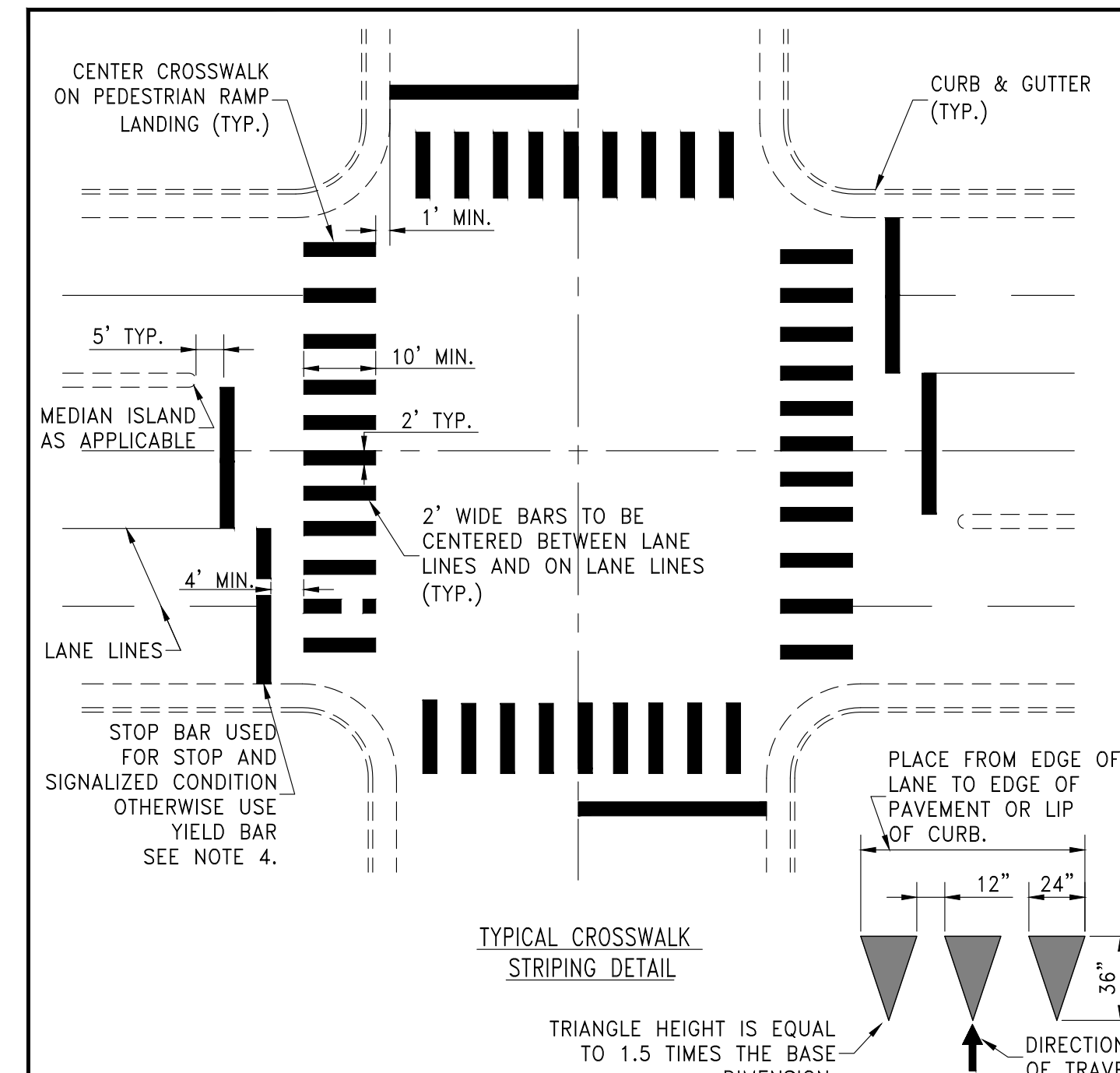
**STORM DRAIN/SEWER CLEANOUT**

NO SCALE



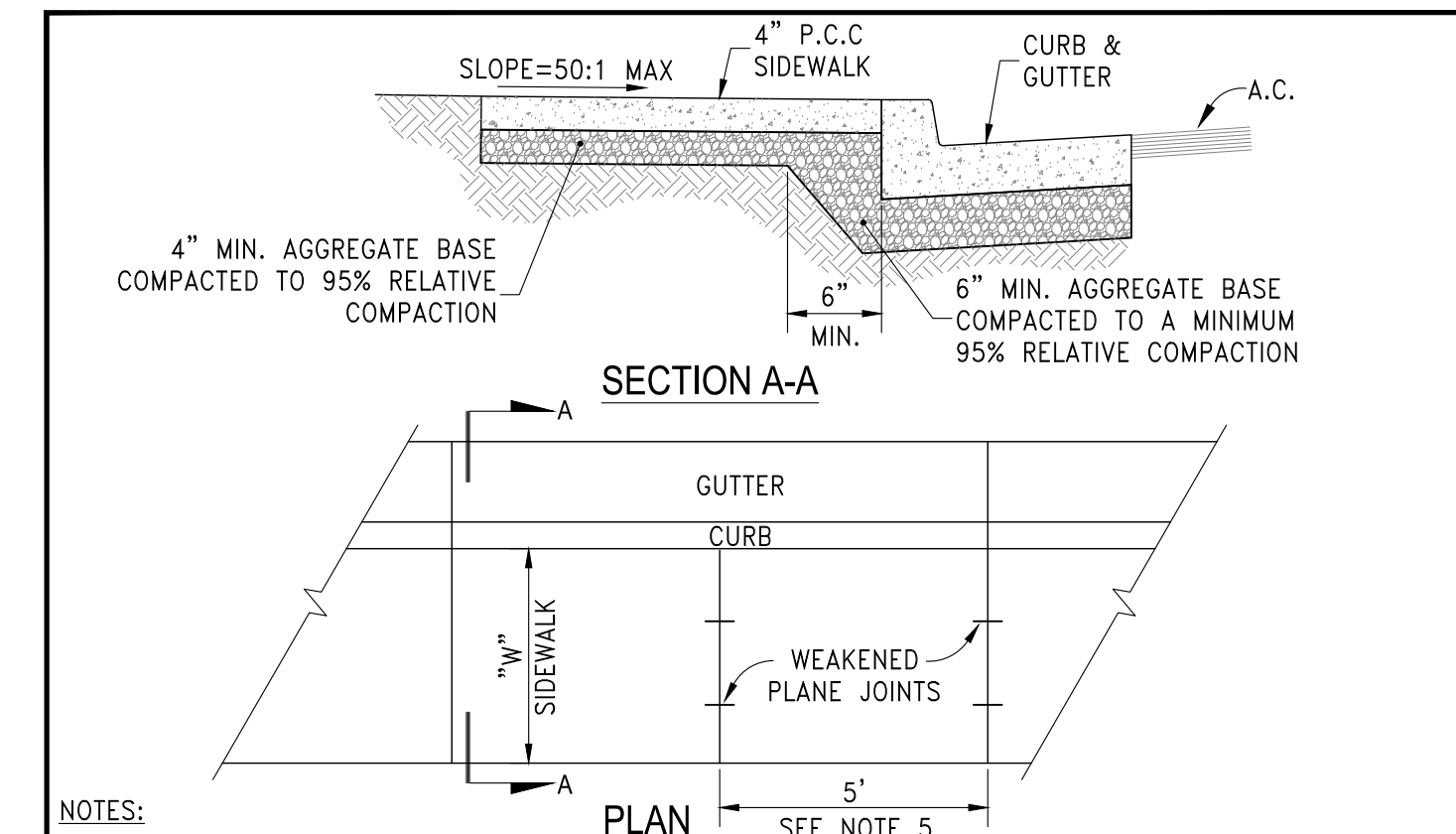
- NOTES:
- SIGN MATERIALS, CONSTRUCTION AND PLACEMENT SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
  - ON STREETS WHERE CURBING DOES NOT EXIST, SET SIGN 6\"/>
  - CONCRETE BASE SHALL BE LOCATED AT BACK OF SIDEWALK, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.
  - ALL REGULATORY SIGNS SHALL BE 3M DIAMOND GRADE (DG3) WITH A 3M CLEAR TRANSPARENT OVERLAY #1170 OR APPROVED EQUAL.
  - 2 FOOT MINIMUM FROM EDGE OF SIGN TO FACE OF CURB IN RESIDENTIAL, COMMERCIAL OR BUSINESS AREAS.

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
<b>TRAFFIC SIGN INSTALLATION</b>	<b>S-401A</b>
APPROVED BY: JE DATE: 4/2021	



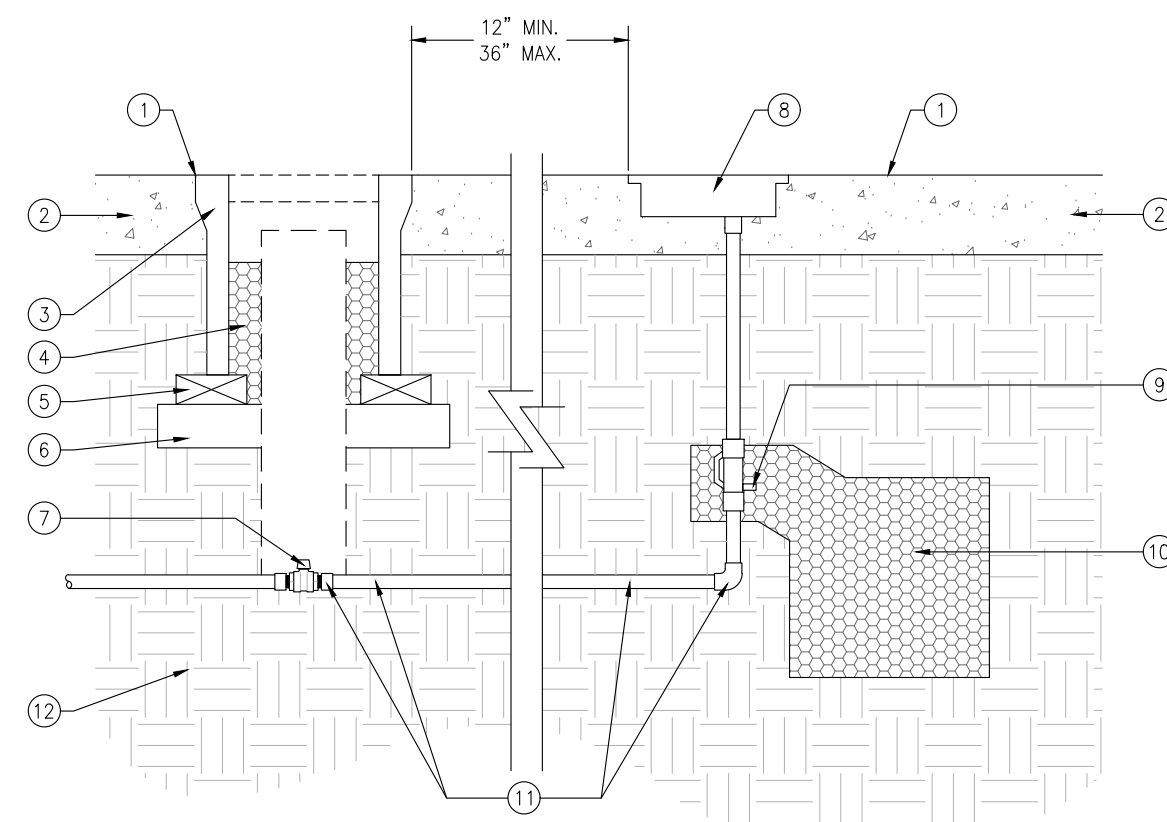
- NOTES:
- ALL STRIPING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS, LATEST EDITION.
  - PREFORMED THERMOPLASTIC PAVEMENT MARKINGS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND IN ACCORDANCE WITH SECTION 634 OF THE LATEST EDITION OF "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" PUBLISHED BY THE STATE OF NEVADA, DEPARTMENT OF TRANSPORTATION (NDOT), EXCEPT ALL THERMOPLASTIC MARKINGS WILL BE 0.090 INCHES THICK, EXCEPT MARKING FOR BIKE LANES WHICH WILL BE 0.075 INCHES. HOT-APPLIED EXTRUDED THERMOPLASTIC SHALL NOT BE USED.
  - CROSSWALK MARKINGS SHALL BE INSTALLED AT ALL LOCATIONS AS DIRECTED BY ENGINEER.
  - PLACE 24\"/>

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
<b>CROSSWALK LEGEND</b>	<b>S-411</b>
APPROVED BY: JE DATE: 1/2020	



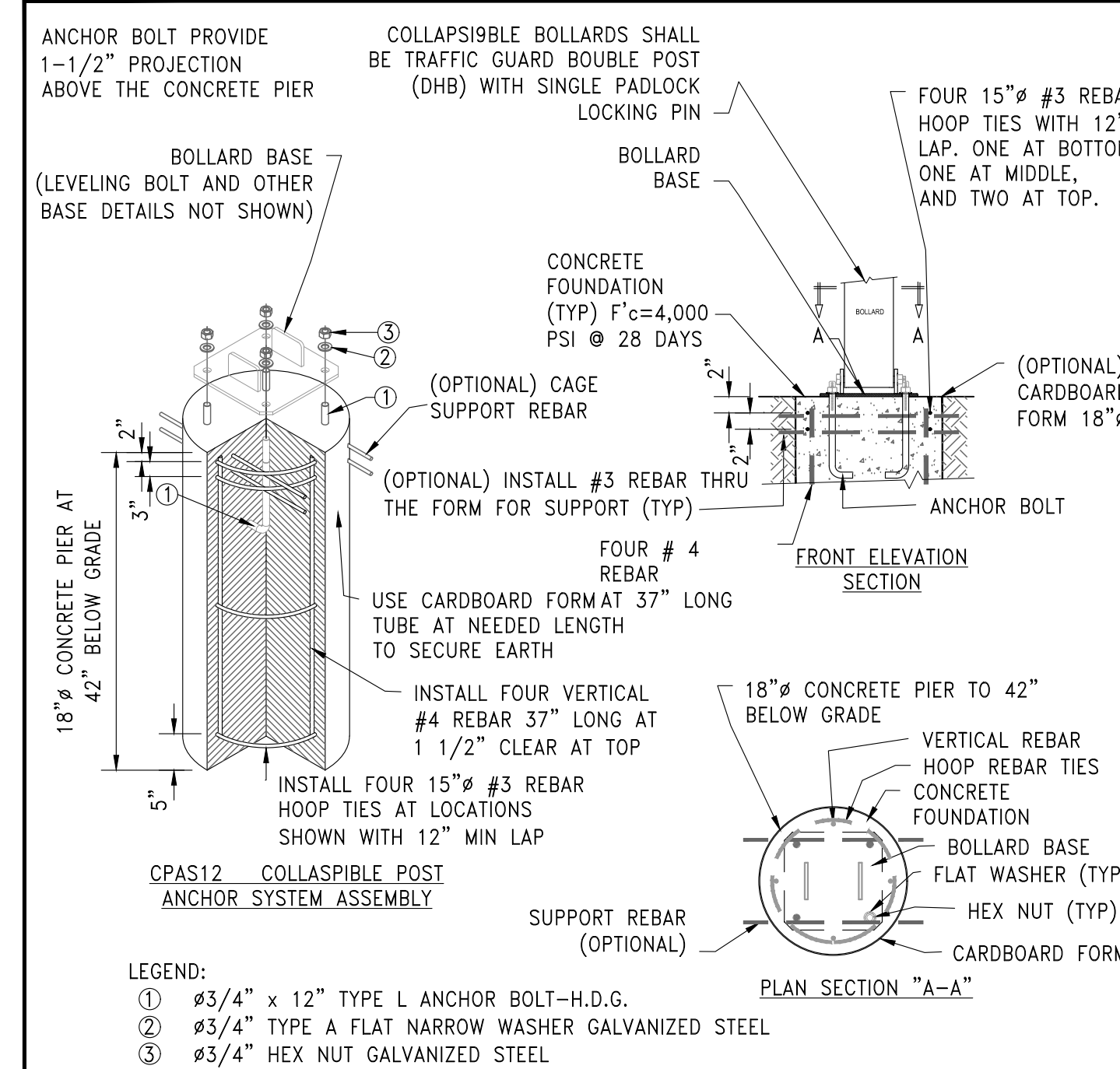
- NOTES:
- PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION (SSPWC), AS ADOPTED BY CITY COUNCIL. CEMENT SHALL BE TYPE II. ALL CEMENT CONCRETE SHALL HAVE A COARSE AGGREGATE GRADATION CONFORMING TO SIZE NO. 67. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS SHALL CONFORM TO SSPWC, AS ADOPTED BY CITY COUNCIL.
  - AGGREGATE BASE MATERIAL UNDER SIDEWALKS SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE BASE. MATERIALS SHALL CONFORM TO SSPWC SECTION 200, AS ADOPTED BY CITY COUNCIL.
  - SIDEWALK WIDTH "W" SHALL BE 4 FT MIN. WITH 60" PASSING SPACE EVERY 200' ON RESIDENTIAL STREETS AND 6 FT MIN. ON COLLECTOR AND ARTERIAL STREETS.
  - WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 5 FT INTERVALS AND ACCORDANCE WITH SECTION 312 OF THE SSPWC, AS ADOPTED BY CITY COUNCIL.
  - ALL ADJACENT CONCRETE REMOVAL SHALL BE TO NEAT SAW CUT LINES AT RIGHT ANGLES TO NEW SIDEWALK. DOWEL INTO EXISTING CONCRETE SIDEWALK WITH A MINIMUM OF TWO (2) NO. 4 REINFORCEMENT BARS EQUALLY SPACED ACROSS WIDTH "W". DOWELS SHALL PENETRATE A MINIMUM OF 4" INTO EXISTING CONCRETE.
  - SIDEWALKS SHALL NOT BE POURED MONOLITHICALLY WITH CURBS.
  - TUNNELING AND/OR BORING IS NOT ALLOWED.

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
<b>SIDEWALK DETAIL</b>	<b>S-103</b>
APPROVED BY: JE DATE: 1/2020	



- FINISH GRADE TOP OF CONCRETE (TYP.)
- ADJACENT CONCRETE HARDSCAPE (TYP.)
- ROUND CONCRETE TRAFFIC RATED BOX WITH CAST IRON BOLT DOWN LID
- BACKFILL MATERIAL: 3/4\"/>
- CONCRETE BRICK FOR PAVEMENT
- 4\"/>
- 3/4\"/>
- GROUND HYDRANT: ZURN Z1360XL 3/4X2-HD-8 GROUND HYDRANT
- DRAIN (PER ZURN GROUND HYDRANT)
- DRAIN SUMP: 12\"/>
- ALL PIPE AND FITTINGS BETWEEN THE CURB STOP AND ZURN GROUND HYDRANT TO BE BRASS
- NATIVE SOILS

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
<b>IRRIGATION DETAILS</b>	<b>IR-001</b>
APPROVED BY: GSJ DATE: 10/2019	

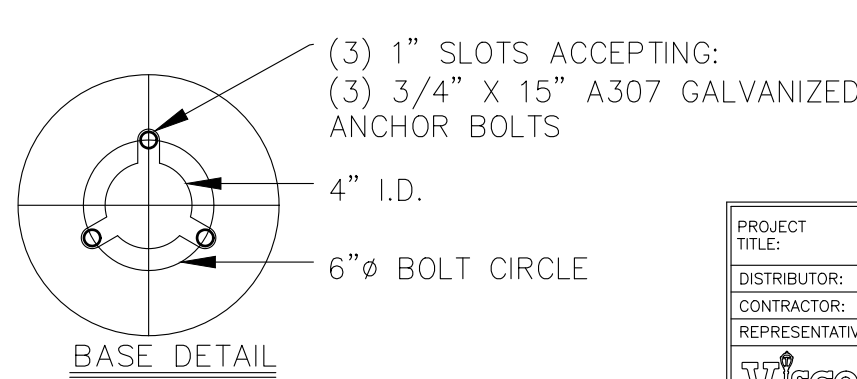
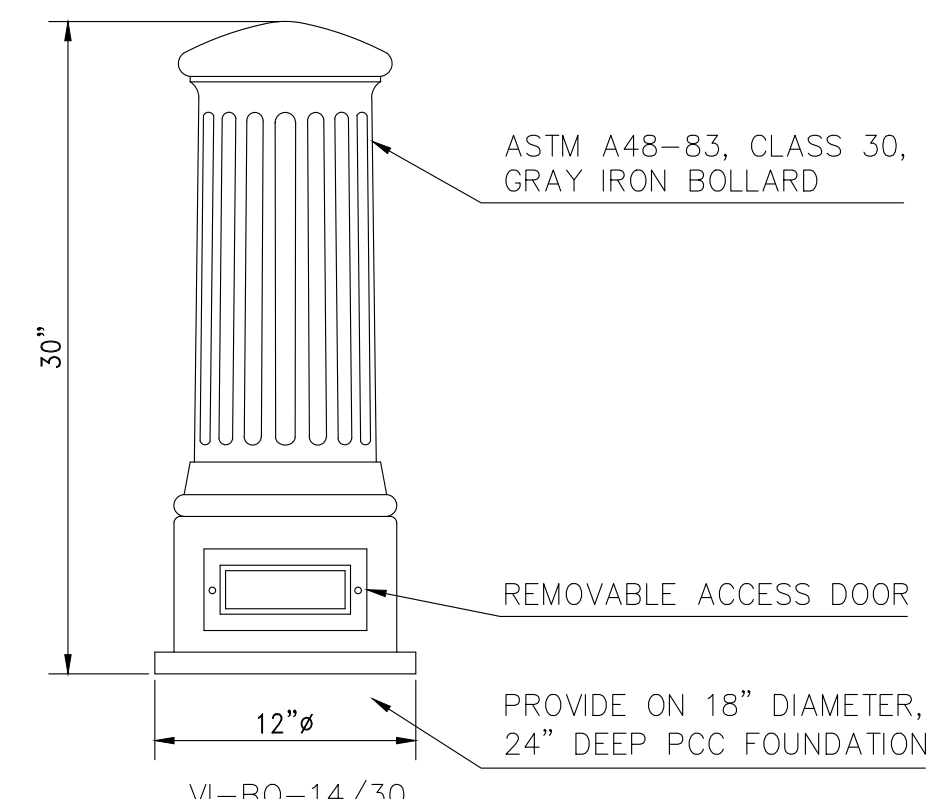


- LEGEND:
- #3/4\"/>
  - #3/4\"/>
  - #3/4\"/>

- NOTES:
- PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION (SSPWC), AS ADOPTED BY CITY COUNCIL. CEMENT SHALL BE TYPE II. ALL CEMENT CONCRETE SHALL HAVE A COARSE AGGREGATE GRADATION CONFORMING TO SIZE NO. 67. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS SHALL CONFORM TO SSPWC, AS ADOPTED BY CITY COUNCIL.
  - ALL WELDS AND BENDS SHALL BE SMOOTH, EVEN AND PAINTED.
  - THE CITY OF SPARKS SHALL PROVIDE THE PADLOCK AND MAINTAIN THE KEYS.

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
<b>COLLAPSIBLE BOLLARD</b>	<b>S-413</b>
APPROVED BY: JE DATE: 1/2020	

**PAINT SPECIFICATION**  
ALL CAST IRON AND STEEL BOLLARD PARTS ARE TO BE FACTORY FINISH PAINTED "BLACK".



PROJECT TITLE:	SPARKS, NV
DISTRIBUTOR:	
CONTRACTOR:	
REPRESENTATIVE:	GREAT BASIN LIGHTING
SPECIFIED BY:	
SCALE:	DATE: 1/12/2021
JOB NO.:	CAD FILE: SPARKS-9
3075 ARROYO LANE, SUITE 100, GREEN VALLEY, NEVADA 89415-1741 FAX (702) 441-0901	

**DECORATIVE BOLLARD**

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
<b>DECORATIVE BOLLARD</b>	<b>S-413</b>
APPROVED BY: JE DATE: 1/2020	

ISSUED FOR BID

**CHRISTY CORPORATION**  
1000 Kiley Parkway | Sparks Nevada 89436  
775.502.8552 christynv.com

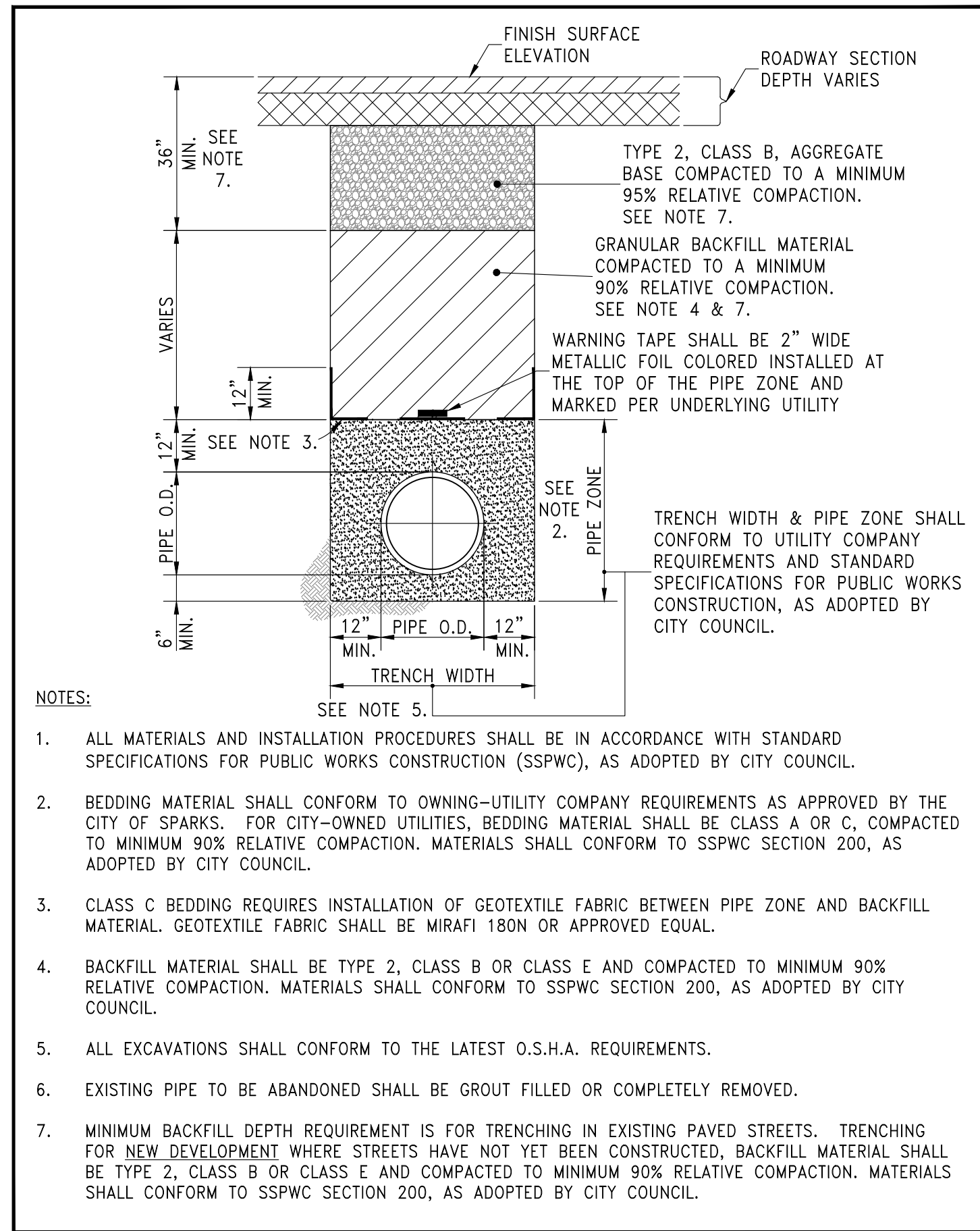
REV.	DATE	DESCRIPTION

CIVIL IMPROVEMENT PLANS FOR  
**AVENUE OF THE OAKS REALIGNMENT**  
DETAILS  
CITY OF SPARKS, NEVADA

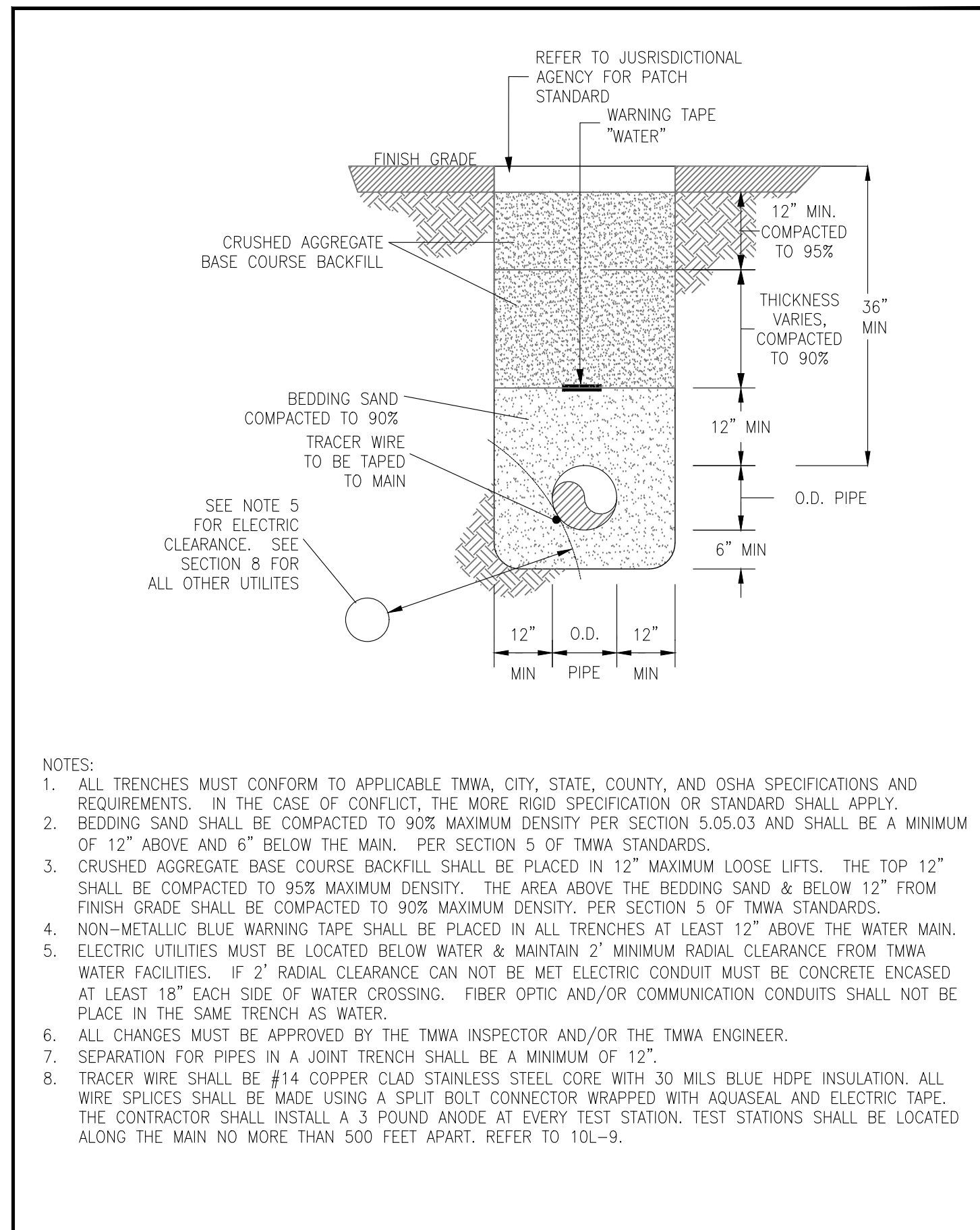
Designs and drawings contained herein are protected under USC copyright Title 17. Unauthorized duplication is a violation of state and federal law.

Date: 11/9/2021  
Designed by: SAJ  
Checked by: DGB  
Job No: 1594.001

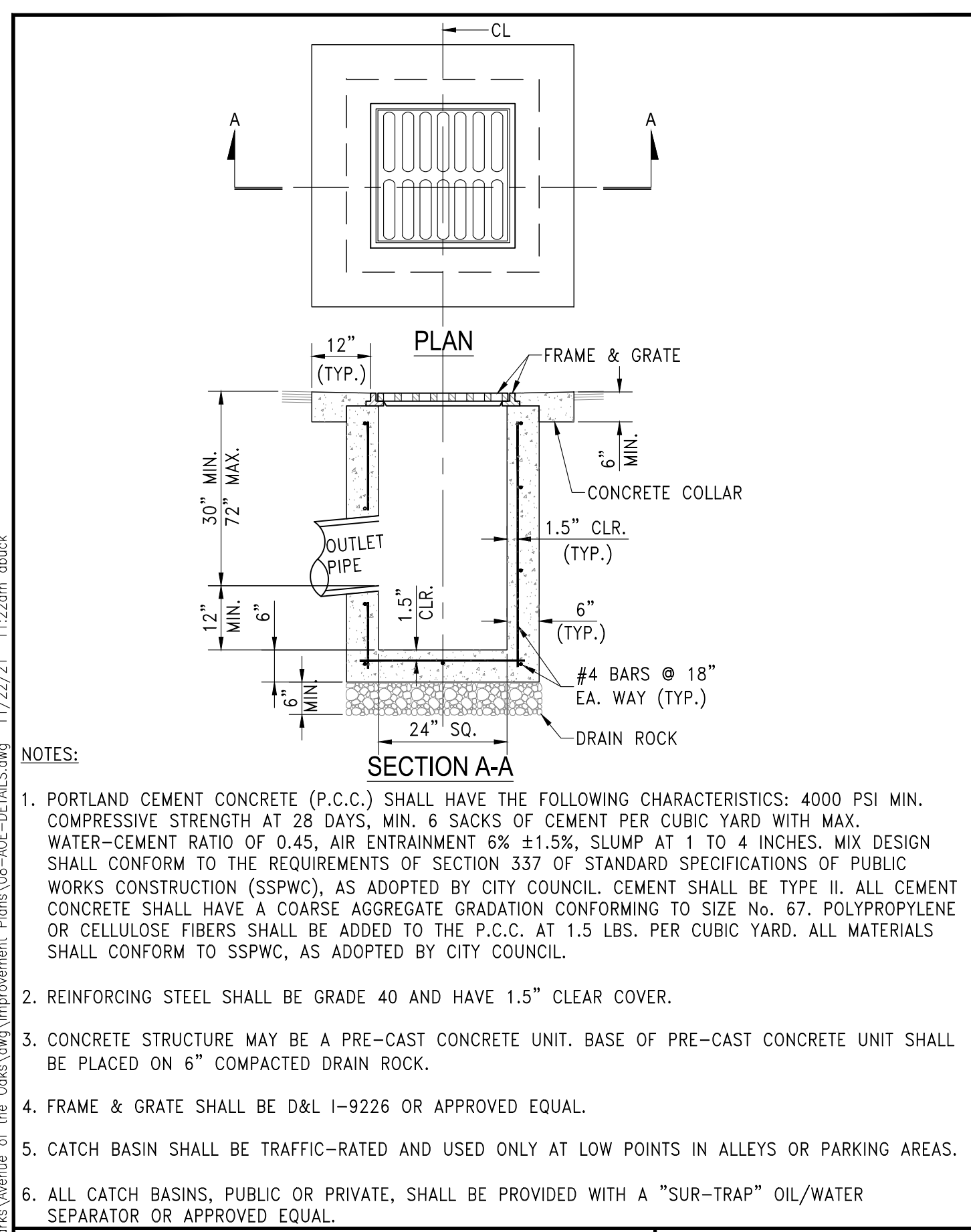




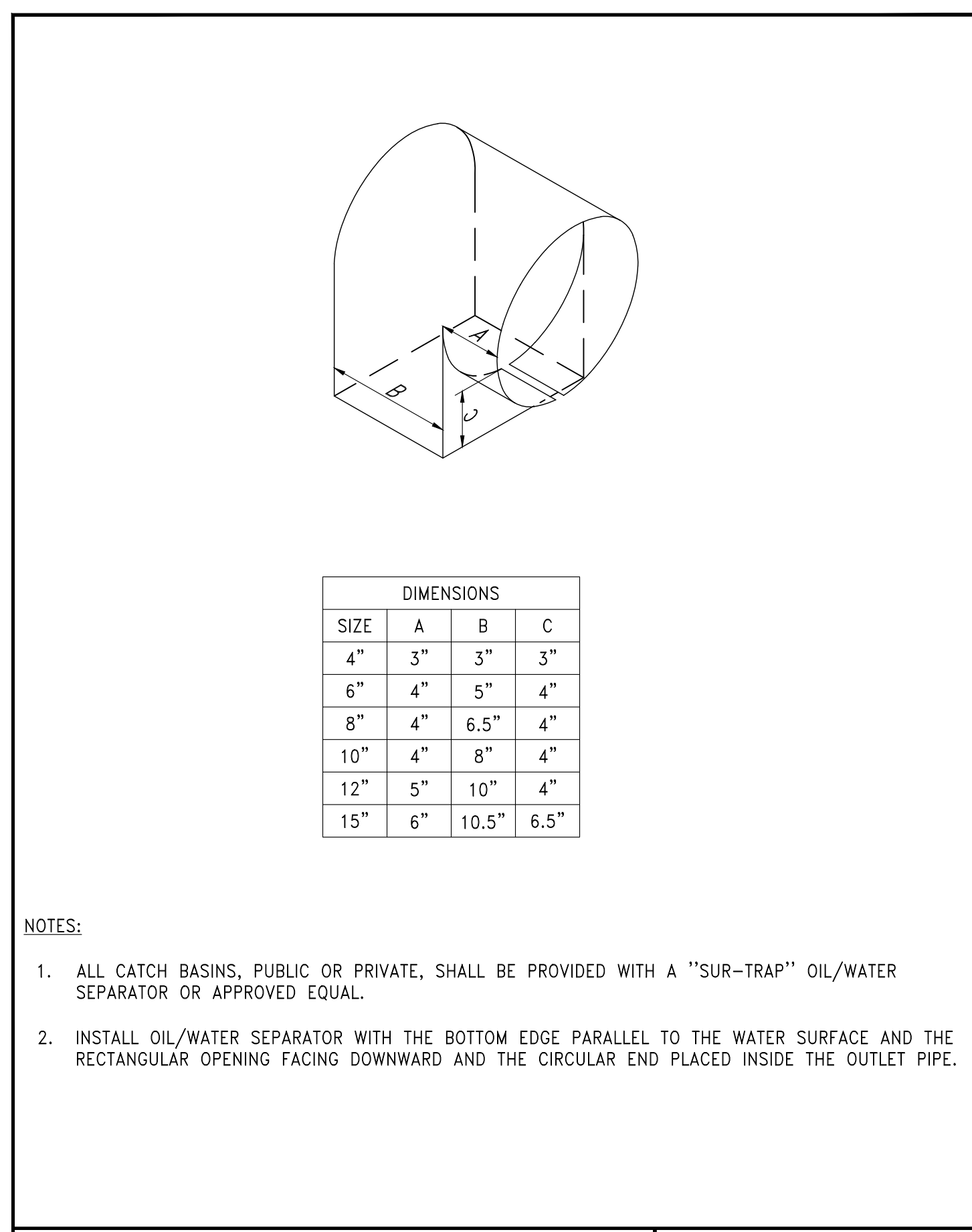
STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
<b>TRENCH EXCAVATION/BACKFILL</b>	<b>S-117</b>
APPROVED BY: JE	DATE: 1/2020



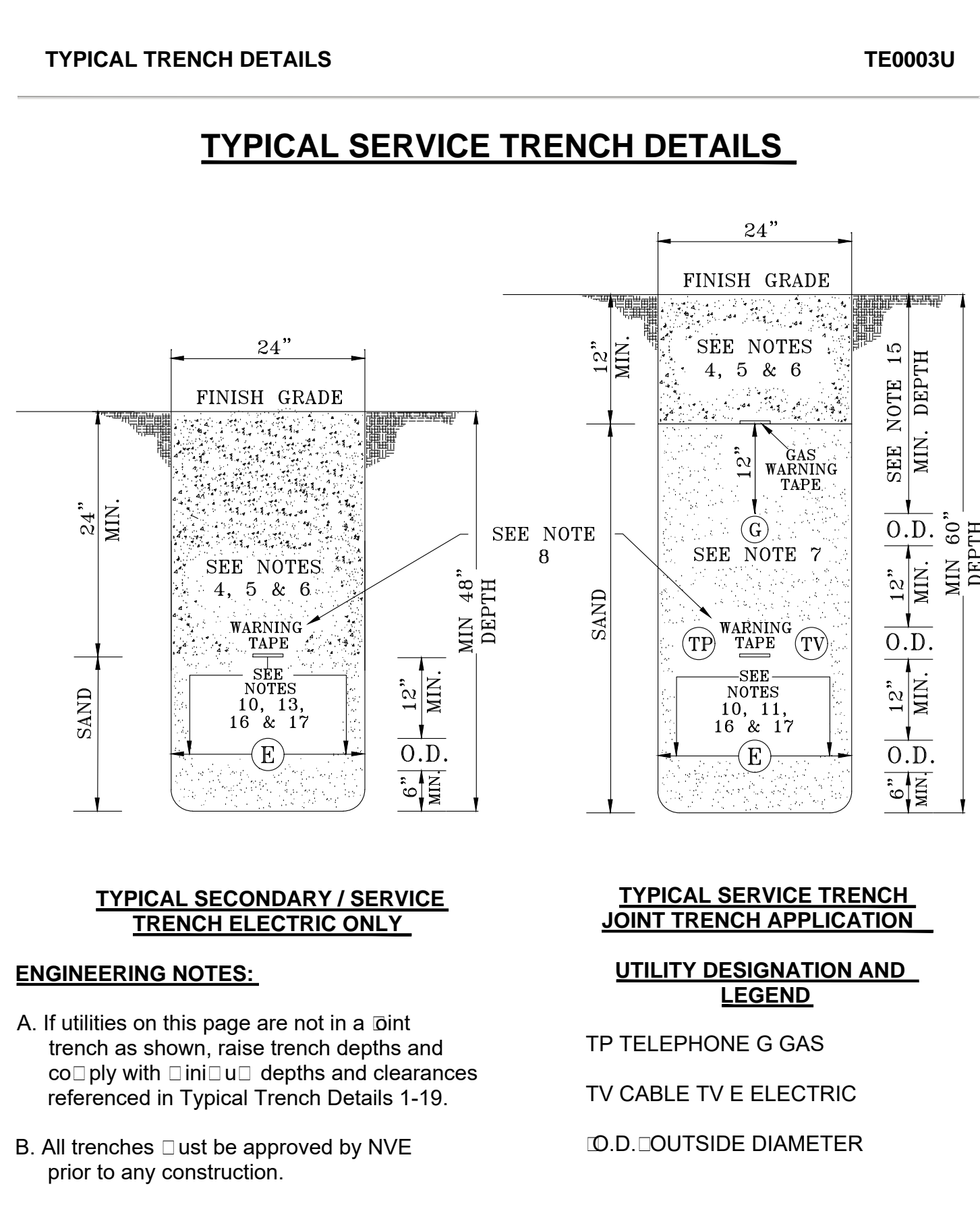
STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
<b>TRENCH DETAIL WATER ONLY</b>	<b>S-117</b>
APPROVED BY: JE	DATE: 1/2020



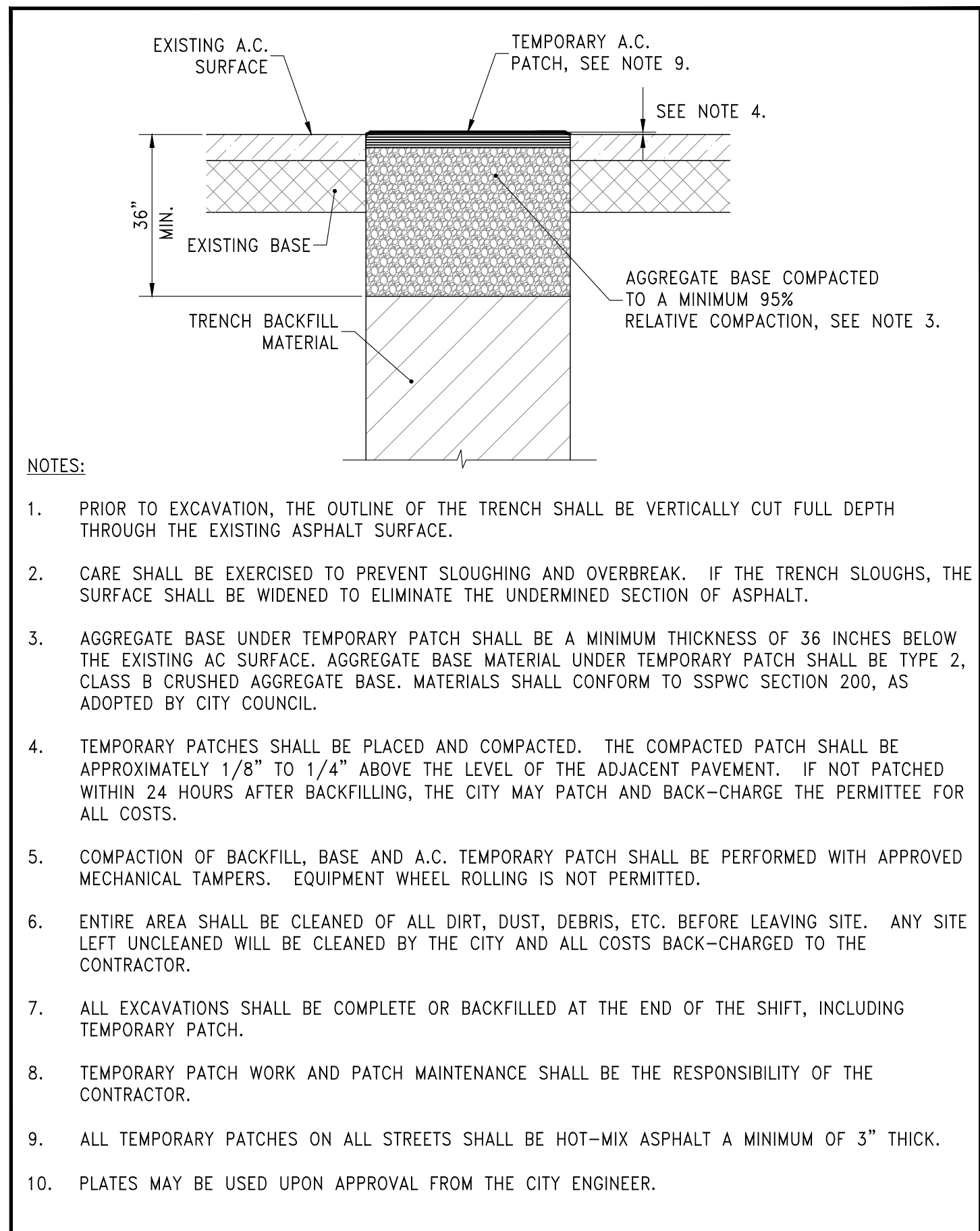
STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
<b>CATCH BASIN TYPE 3-R</b>	<b>S-203</b>
APPROVED BY: JE	DATE: 1/2020



STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
<b>CATCH BASIN OIL/WATER SEPARATOR</b>	<b>S-208</b>
APPROVED BY: JE	DATE: 1/2020



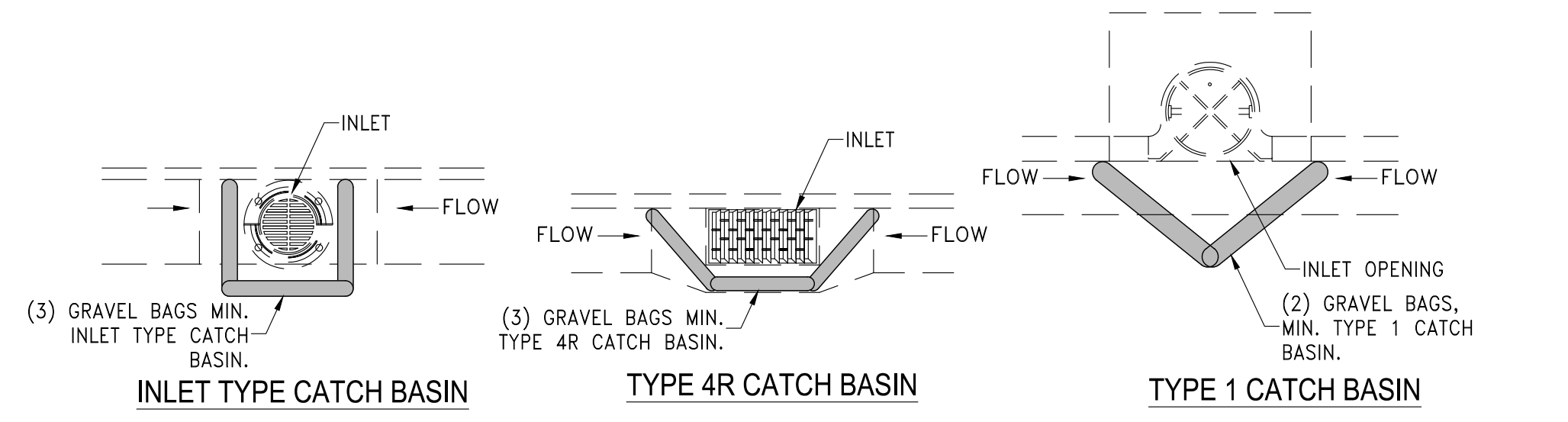
VOLUME 17 - ENGINEERING & CONSTRUCTION STANDARD		TE0003U
TYPICAL TRENCH DETAILS		Revision: 6 Page 3 of 4
Drawn: BSP	Eng: NP	Appr: DA
Date: 07/19		



STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
<b>TEMPORARY A.C. TRENCH PATCH</b>	<b>S-116</b>
APPROVED BY: JE	DATE: 1/2020

# EROSION CONTROL NOTES

- THIS SITE IS LESS THAN 1 AC IN SIZE AND DOES NOT REQUIRE AN NDEP PERMIT. CONTRACTOR SHALL COMPLY WITH ALL BEST MANAGEMENT PRACTICES ASSOCIATED WITH THE STATEWIDE GENERAL PERMIT, NVR100000. THE CONTRACTOR SHALL BE FAMILIAR WITH THE STATE OF NEVADA 2015 STORMWATER GENERAL PERMIT AND THE STATE OF NEVADA (NDEP) CONSTRUCTION SITE BMP HANDBOOK.
- TOTAL DISTURBED AREA IS APPROXIMATELY 0.60 AC.
- THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATE IN, THE PUBLIC RIGHTS OF WAYS OF THE CITY OF WINNEMUCCA AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
- ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS REQUIRED BY THE CITY OF WINNEMUCCA. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE STATE OF NEVADA (NDEP) CONSTRUCTION SITE BEST MANAGEMENT PRACTICES HANDBOOK AND USE IT AS A GUIDE.
- TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO STORMWATER GENERAL PERMIT NVR100000, PART 3.6.
- AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL BMPs WEEKLY, PRIOR TO A FORECASTED RAIN EVENT AND WITHIN 24 HOURS AFTER ANY ACTUAL RAIN EVENT. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS FROZEN GROUND CONDITIONS OR SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO STORMWATER GENERAL PERMIT NVR100000, SECTION 1.5.1.9.
- ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 25 PERCENT OR MORE.
- A COPY OF THE NOTICE OF INTENT (NOI), LETTER OF AUTHORIZATION FROM NDEP, AND A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE KEPT ON SITE AT ALL TIMES. CONTRACTOR SHALL FOLLOW REQUIREMENTS SET FORTH IN THE SWPPP AND THE CONSTRUCTION STORMWATER GENERAL PERMIT AT ALL TIMES.
- NOT ALL BMP DETAILS ARE SHOWN ON THIS PLAN. CONTRACTOR SHALL EITHER ASK THE ENGINEER FOR ADDITIONAL DETAILS OR LOCATE THEM IN THE STATE OF NEVADA (NDEP) CONSTRUCTION SITE BEST MANAGEMENT PRACTICES HANDBOOK.
- THE CONTRACTOR SHALL PROVIDE AND ERECT A SWPPP SIGN INCLUDING THE SITE ID, A CONTACT NAME, AND A CONTACT PHONE NUMBER IN ACCORDANCE WITH STORMWATER GENERAL PERMIT NVR1000000 PART 2.7.
- THE CONTRACTOR SHALL CHOOSE AND IMPLEMENT PERIMETER STORMWATER EROSION CONTROL BMPs THAT CONFORM TO THE STAGE AND TYPE OF WORK BEING PERFORMED. SILT FENCES, STRAW WATTLES, OR EXCAVATION OF THE SITE BELOW ADJACENT CURB AND/OR SIDEWALK ARE ALL MEASURES THE CONTRACTOR CAN UTILIZE TO MINIMIZE SEDIMENT DISCHARGE FROM THE SITE. THE CONTRACTOR SHALL IMPLEMENT PERIMETER STORMWATER CONTROLS UNTIL SUCH TIME AS AREAS RECEIVE FINAL STABILIZATION OR VEGETATION HAS BEEN SUFFICIENTLY RE-ESTABLISHED.
- THE CONTRACTOR SHALL UPDATE THIS EROSION CONTROL PLAN AND THE SWPPP ON A CONTINUOUS BASIS DURING CONSTRUCTION AND SHALL PROVIDE NOTATION AS TO BMP INSTALLATION, RELOCATION, REMOVAL, ETC. THROUGHOUT THE COURSE OF CONSTRUCTION.
- NOT ALL BMPs IDENTIFIED ON THIS PLAN WILL BE INSTALLED AT ANY GIVEN STAGE OF CONSTRUCTION. THE CONTRACTOR SHALL IDENTIFY INSTALLATION DATE OF BMP ON THIS PLAN AND SHALL UPDATE THE PLAN AS REQUIRED AS BMPs SHOWN ARE INSTALLED OR ALTERNATE BMPs ARE IDENTIFIED AS NECESSARY DURING CONSTRUCTION.
- STORM DRAIN INLET CONTROLS SHALL BE IMPLEMENTED PRIOR TO THE START OF SITEWORK FOR EXISTING INLETS. NEW INLETS SHALL BE PROTECTED FROM THE TIME OF INSTALLATION UNTIL FINAL STABILIZATION IS COMPLETE.
- BMPs ON INDIVIDUAL LOTS SHALL BE CHOSEN AND DENOTED ON THE EROSION CONTROL PLANS AND SWPPP AS CONSTRUCTION CONDITIONS WARRANT.
- THIS SITE IS ADJACENT TO A MAJOR DRAINAGEWAY. THE CONTRACTOR SHALL EXERCISE CAUTION TO ENSURE THAT DISCHARGES TO THE DRAINAGEWAY TO NOT OCCUR INCLUDING BUT NOT LIMITED TO REDUNDANT BMPs AND SEDIMENTATION BASINS.
- THE CONTRACTOR IS TO BECOME FAMILIAR WITH THE EROSION CONTROL MEASURES BEING UTILIZED FOR THE CLUBHOUSE CONSTRUCTION UNDER SEPARATE PERMIT. THE CONTRACTOR SHALL COORDINATE ALL REVISIONS AND/OR ADDITIONAL EROSION CONTROL MEASURES DURING CONSTRUCTION.
- THE CONTRACTOR IS TO IMPLEMENT AND MAINTAIN A CONTINUOUS DUST CONTROL PLAN DURING CONSTRUCTION.

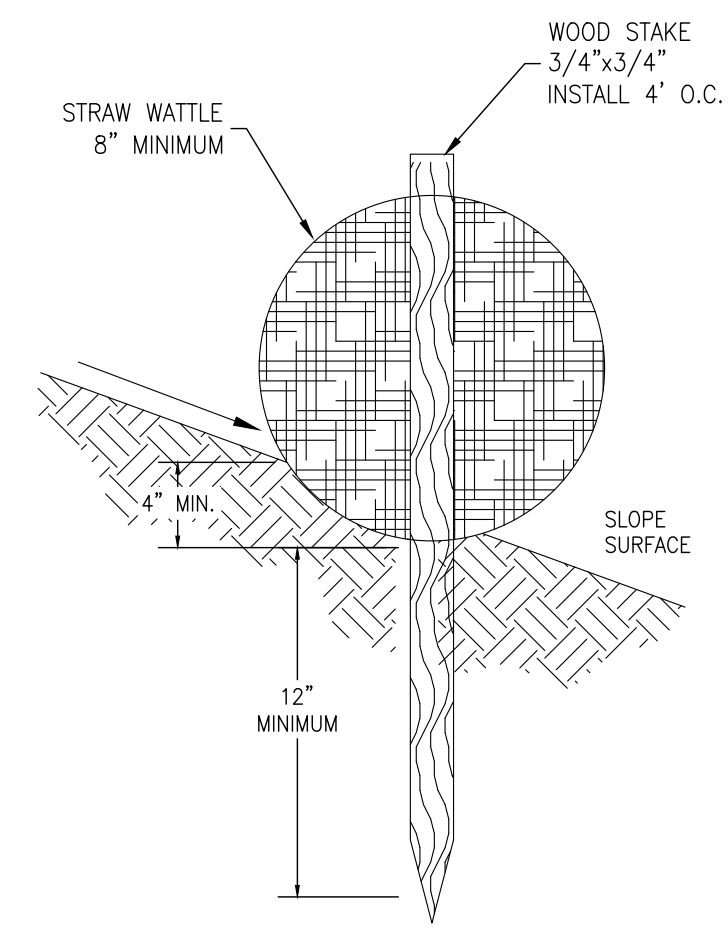


- NOTES:**
- ALL STORM DRAIN INLET PROTECTION SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION. ALL SITE BMP PLACEMENT AND MAINTENANCE SHALL CONFORM TO THE REQUIREMENTS OF THE CONTRACTOR'S STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
  - THE CONTRACTOR SHALL INSPECT THE SITE DAILY, PRIOR TO FORECASTED WEATHER EVENTS AND WITHIN 24 HOURS OF ANY EVENT THAT CREATES RUNOFF AT THE SITE. DISTURBED OR BROKEN BAGS SHALL BE REPLACED. SEDIMENT AND DEBRIS SHALL BE REMOVED AND DISPOSED.
  - GRAVEL BAGS:**
    - BAGS SHALL BE WOVEN POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE FABRIC, MIN. WEIGHT 4oz/SY, MULLEN BURST STRENGTH EXCEEDING 300 PSI AND ULTRA VIOLET STABILITY EXCEEDING 70%.
    - EACH GRAVEL-FILLED BAG SHALL HAVE A MIN. LENGTH OF 30", MIN. WIDTH OF 8" AND MIN. THICKNESS OF 4".
    - GRAVEL SHALL BE BETWEEN 1/2" TO 1" IN DIAMETER AND CLEAN AND FREE FROM CLAY BALLS, ORGANIC MATTER AND OTHER DELETERIOUS MATERIALS.
  - AFTER CONSTRUCTION WHEN GRAVEL BAGS ARE REMOVED, ALL CONSTRUCTION MATERIAL, DEBRIS, SEDIMENT, ETC. SHALL BE REMOVED FROM INLET OR CATCH BASIN BY VACUUM TRUCK.
  - INLETS IN CENTER OF TRAVELED WAY MAY BE PROTECTED WITH FABRIC FILTER INSERTS.

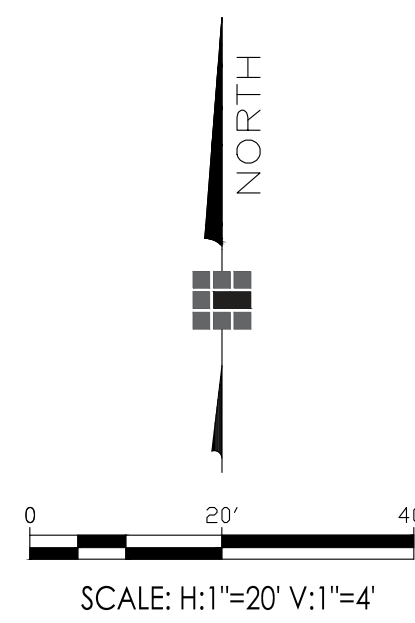
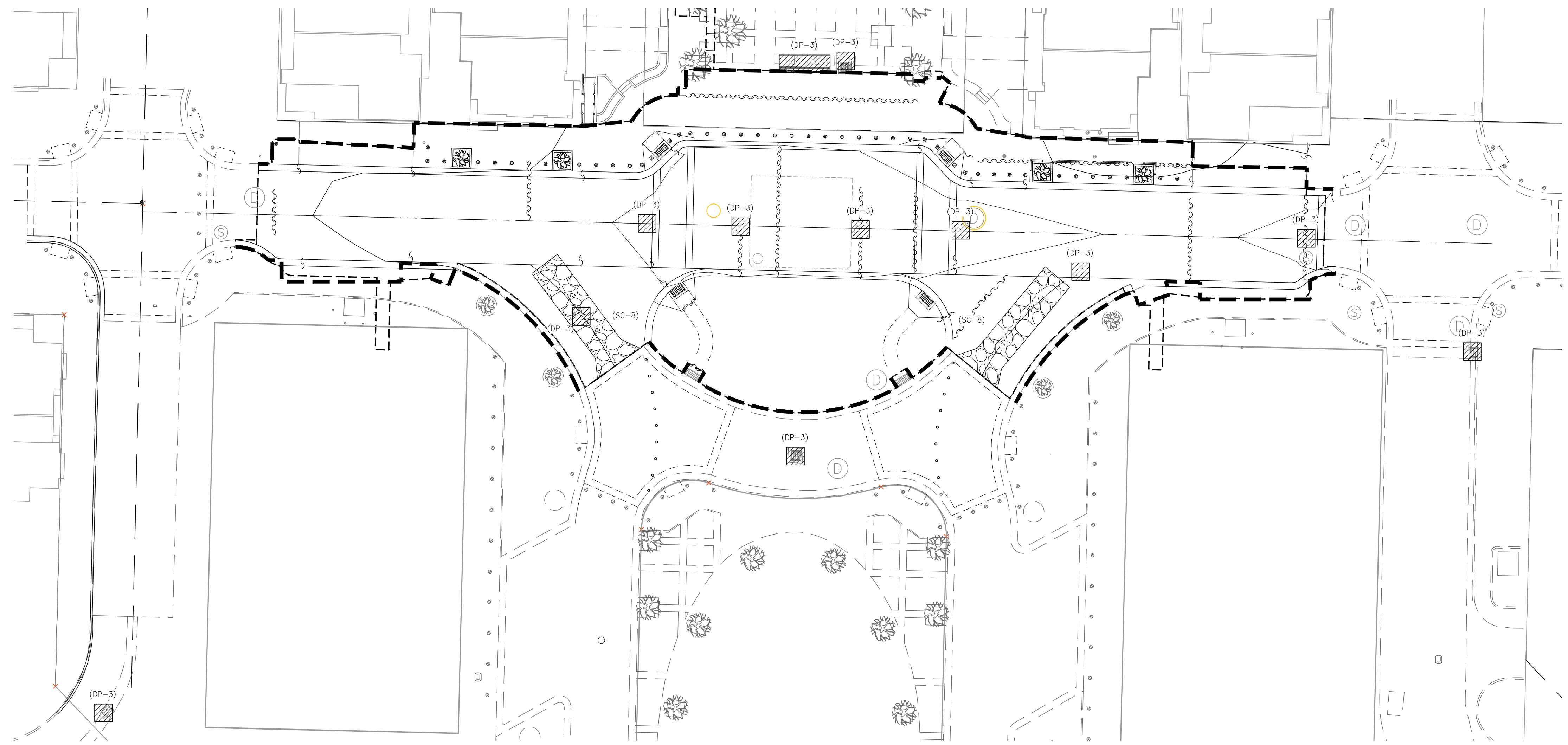
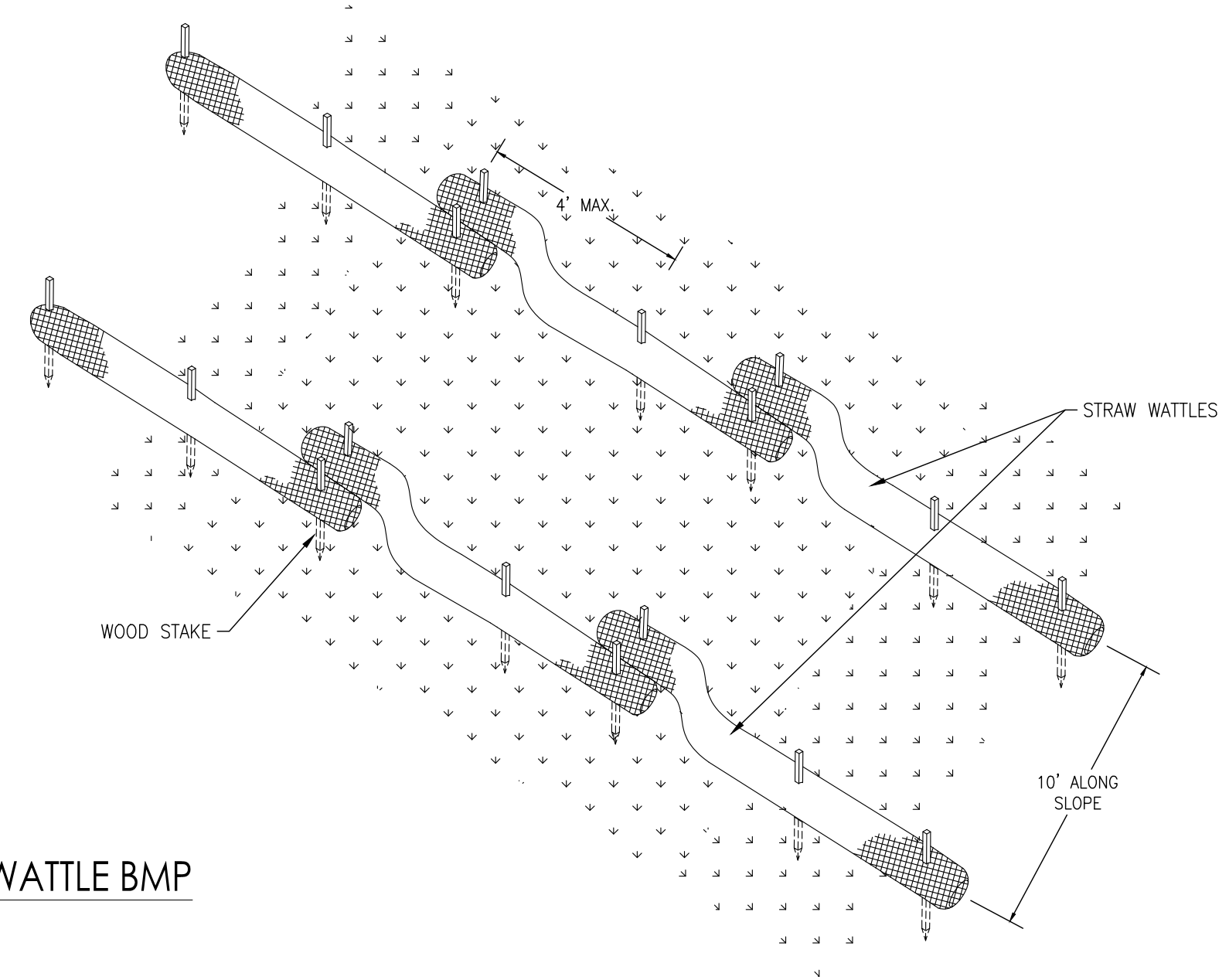
## STORM DRAIN INLET PROTECTION

## ARCHEOLOGICAL STATEMENT:

SHOULD ANY PREHISTORIC OR HISTORIC REMAINS/ARTIFACTS BE DISCOVERED DURING SITE DEVELOPMENT, WORK SHALL TEMPORARILY BE HALTED AT THE SPECIFIC SITE AND THE DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES, DIVISION OF HISTORIC PRESERVATION AND ARCHEOLOGY, SHALL BE NOTIFIED TO RECORD AND PHOTOGRAPH THE SITE. THE PERIOD OF TEMPORARY DELAY SHALL BE LIMITED TO A MAXIMUM OF TWO WORKING DAYS FROM THE DATE OF NOTIFICATION.



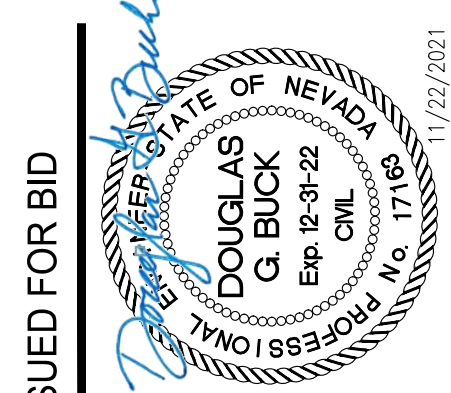
## STRAW WATTLE BMP



Know what's below.  
Call before you dig.

LEGEND	
	FIBER ROLL (SC-1) OR SILT FENCE (SC-5)
	CONSTRUCTION SITE ENTRANCE (SC-8)
	STORM DRAIN INLET PROTECTION (DP-3) (AT ALL CATCH BASINS)
	STORM DRAIN OUTLET PROTECTION (DP-2) (AT ALL OUTLETS)

NOTE: THIS EROSION CONTROL PLAN IS PART OF A LARGER LIVING DOCUMENT, THE STORMWATER POLLUTION PREVENTION PLAN AND SHALL BE UPDATED IN THE FIELD ON A REGULAR BASIS DURING INSPECTIONS AS CONDITIONS WARRANT. REFERENCE BEST MANAGEMENT PRACTICE (BMP) DETAILS IN THESE PLANS, WITHIN THE STORMWATER POLLUTION PREVENTION PLAN, AND THE STATE OF NEVADA (NDEP) CONSTRUCTION SITE BMP HANDBOOK (FEBRUARY 2015 UPDATE)



ISSUED FOR BID

**CHRISTY CORPORATION**  
1000 Milley Parkway | Sparks Nevada 89436  
775.502.8552 christynv.com

REV.	DATE	DESCRIPTION

CIVIL IMPROVEMENT PLANS FOR  
AVENUE OF THE OAKS REALIGNMENT  
EROSION CONTROL PLAN AND DETAILS  
CITY OF SPARKS

SPARKS, NEVADA

Designs and drawings contained herein are protected under USC copyright Title 17. Unauthorized duplication is a violation of state and federal law.

Date: 11/9/2021  
Designed by: SAJ  
Checked by: DGB  
Job No. 1594.001









ISSUED FOR BID

**CHRISTY**  
 CORPORATION  
 1000 Killey Parkway | Sparks Nevada 89436  
 775.502.8552 | christyinc.com

REV.	DATE	DESCRIPTION

CIVIL IMPROVEMENT PLANS FOR  
**AVENUE OF THE OAKS REALIGNMENT**  
 ELECTRICAL DEMOLITION PLAN  
 CITY OF SPARKS  
 SPARKS, NEVADA

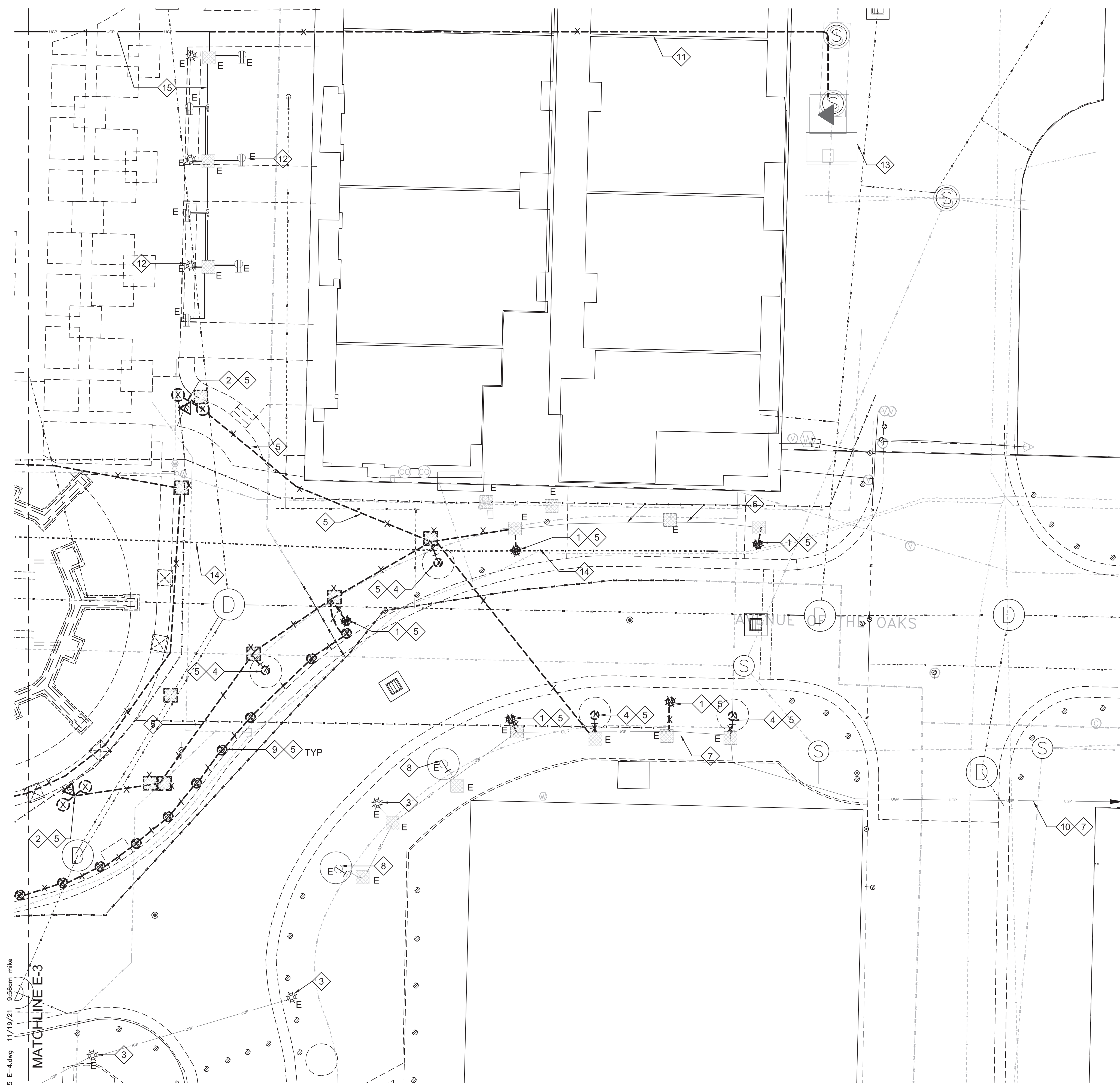
Designs and drawings contained herein are protected under USC copyright Title 17. Unauthorized duplication is a violation of state and federal law.  
 Date: 11/09/2021  
 Designed by: MWB  
 Checked by: ERG  
 Job No. 1594.001

## GENERAL DEMOLITION NOTES

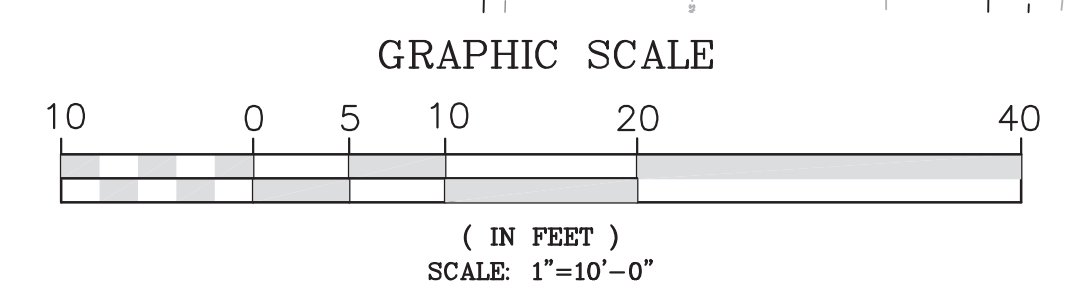
- ELECTRICAL OUTLETS AND DEVICES THAT ARE INDICATED BY DASHED LINES SHALL BE REMOVED ENTIRELY, INCLUDING JUNCTION BOXES AND CIRCUITING ASSOCIATED WITH SAID ITEM.
- THESE PLANS DO NOT PURPORT TO SHOW ALL EXISTING CONDITIONS. ANY OUTLETS, CIRCUITING AND/OR DEVICES THAT CONFLICT WITH ALL WORK BEING PERFORMED DURING THE COURSE OF THIS PROJECT SHALL BE RELOCATED/ROUTED OR REMOVED ENTIRELY AS DICTATED BY CONTRACTING OFFICER.
- ALL EXISTING EQUIPMENT REMOVED DURING THE COURSE OF THIS PROJECT SHALL BE OFFERED TO GOVERNMENT FOR SALVAGE. EQUIPMENT SELECTED SHALL BE TURNED OVER TO GOVERNMENT ON PROJECT SITE. ALL REMAINING EQUIPMENT BECOMES THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED FROM PROJECT SITE.
- IT IS RECOMMENDED THAT THE CONTRACTOR VISIT SITE AND VERIFY EXISTING CONDITIONS THAT MIGHT AFFECT HIS OR HER WORK. ALL DISCREPANCIES SHALL BE REPORTED TO ENGINEER PRIOR TO BID.
- DEMOLITION AND MODIFICATION OF EXISTING DISTRIBUTION SYSTEMS SHALL BE PERFORMED AS FOLLOWS:
  - EXISTING WIRING TO BE REMOVED SHALL BE REMOVED BACK TO ITS SOURCE. CONDUITS MAY BE ABANDONED IN PLACE IF THEY ARE IN CONCEALED LOCATION AND DO NOT CONFLICT WITH ANY NEW WORK. REMOVE ALL WIRING FROM ABANDONED RACEWAYS.
  - REMOVAL OF EXISTING ELECTRICAL DISTRIBUTION SYSTEM SHALL INCLUDE EQUIPMENT, ASSOCIATED WIRING, INCLUDING (BUT NOT LIMITED TO) CONDUCTORS, CABLES, EXPOSED CONDUIT, SURFACE RACEWAYS, BOXES, FITTINGS, ETC. (BACK TO EQUIPMENT SOURCE.)
  - CONTINUATION OF SERVICE: MAINTAIN CONTINUITY OF EXISTING CIRCUITS. TEST LIGHTING, RECEPTACLES AND ALL ELECTRICALLY POWERED EQUIPMENT IN SURROUNDING AREAS TO DETERMINE IF ANY EQUIPMENT TO REMAIN HAS BEEN DE-ENERGIZED. CONTRACTOR SHALL RECONNECT ALL EQUIPMENT AND EXTEND CIRCUITING IN ORDER TO RE-ACTIVATE ANY SUCH EQUIPMENT.

## SHEET NOTES

- REMOVE EXISTING LIGHT POLE AND FIXTURE.
- REMOVE EXISTING LIGHT POLE, FIXTURE AND SPEAKER. REMOVE CONDUITS AND CONDUCTORS. SEE DEMOLITION NOTE #3 FOR LIGHT POLE, FIXTURE AND SPEAKERS.
- EXISTING LIGHT POLE AND FIXTURE TO REMAIN. ENSURE LIGHT FIXTURES IS OPERATIONAL WHEN PROJECT IS FINISHED.
- REMOVE RECEPTACLES LOCATED IN PLANTER BOX.
- REMOVE EXISTING CONDUIT AND CONDUCTORS.
- REMOVE EXISTING CONDUCTORS, CONDUIT TO REMAIN..
- EXISTING CONDUIT AND CONDUCTORS TO REMAIN. DISCONNECT ITEMS MARKED FOR DEMOLITION.
- EXISTING RECEPTACLES LOCATED IN PLANTER BOX TO REMAIN. ENSURE RECEPTACLE IS OPERATIONAL WHEN PROJECT IS FINISHED.
- REMOVE EXISTING LIGHTED BOLLARD.
- EXISTING CONDUIT AND CONDUCTORS TO LIGHTING CONTROLLER AT D ST. NORTH OF PARKING GARAGE TO REMAIN.
- DISCONNECT AND REMOVE CONDUCTORS. LEAVE CONDUITS IN PLACE.
- EXISTING LIGHTS AND RECEPTACLES TO REMAIN.
- EXISTING TRANSFORMER & POWER CABINET TO REMAIN.
- AT&T FIBER OPTIC DUCT BANK TO BE REMOVED BY AT&T ANTICIPATED TO BE COMPLETE PRIOR TO START OF WORK.
- EXISTING CONDUCTOR AND CONDUIT TO REMAIN. DISCONNECT FROM EXISTING SOURCE, TO BE RECONNECTED TO NEW SOURCE.



**A**  
**E-4**  
 ELECTRICAL DEMOLITION PLAN - EAST SIDE  
 1"=10'-0"



D:\4715\Drawings\4715 E-4.dwg 11/19/21 9:56am mike

MATCHLINE E-3

REV.	DATE	DESCRIPTION

CIVIL IMPROVEMENT PLANS FOR  
 AVENUE OF THE OAKS REALIGNMENT  
 ELECTRICAL SITE PLAN  
 CITY OF SPARKS, NEVADA

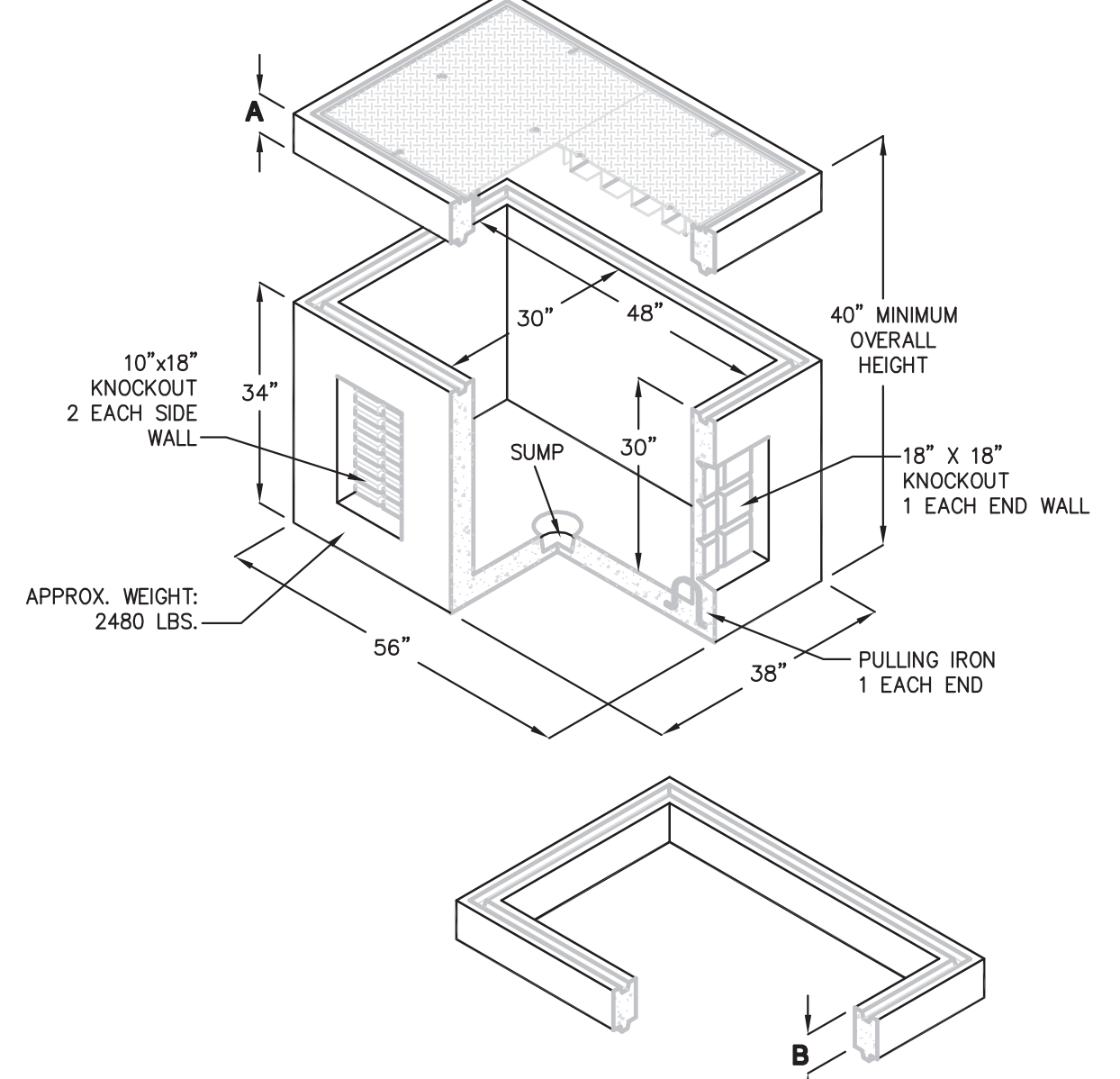
Designs and drawings contained herein are protected under USC copyright Title 17. Unauthorized duplication is a violation of state and federal law.

Date: 11/09/2021  
 Designed by: MWB  
 Checked by: ERG  
 Job No. 1594.001

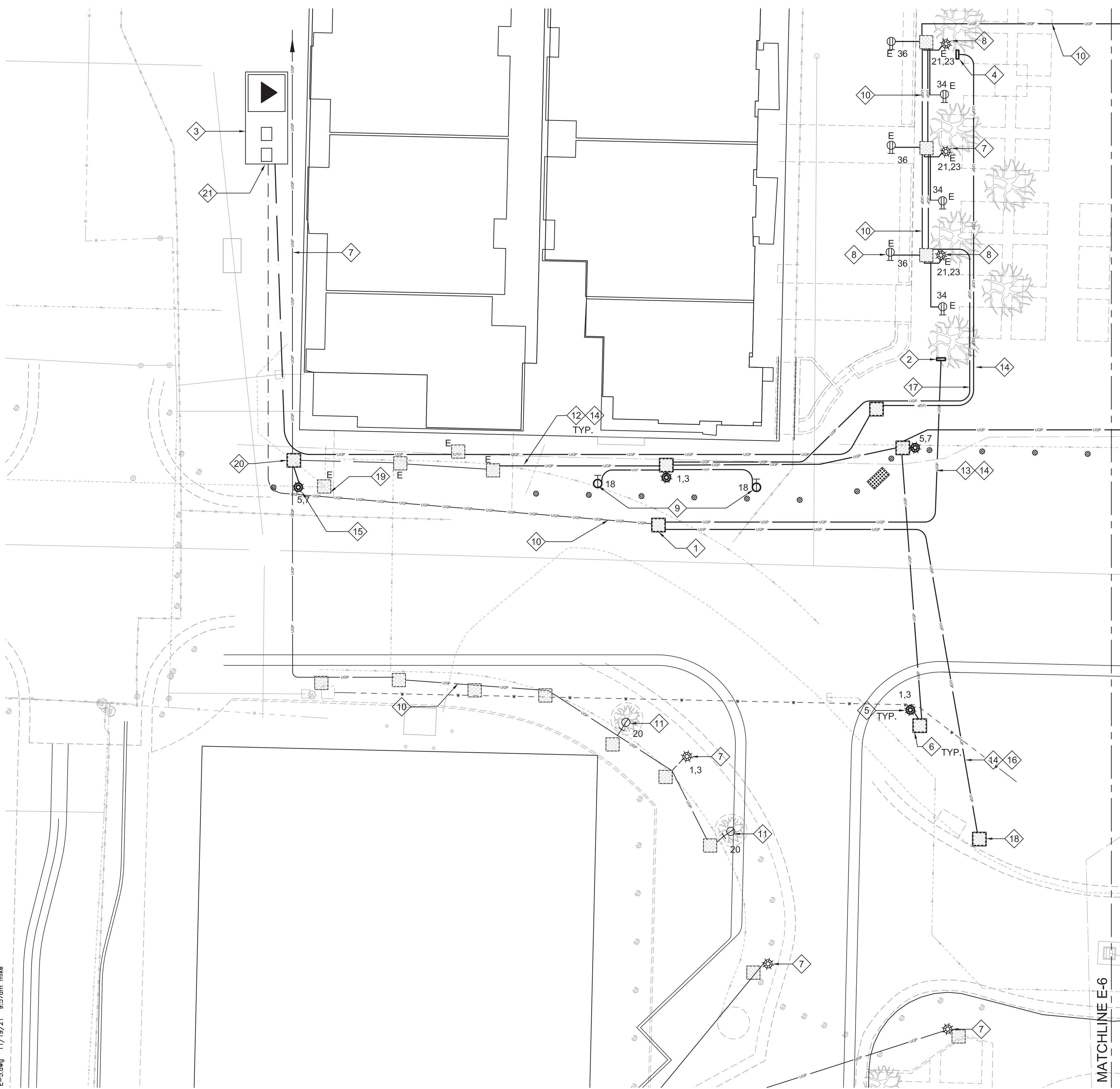
**SHEET NOTES**

- 1 NEW TRAFFIC RATED MANHOLE COORDINATE WITH CIVIL CONTRACTOR.
- 2 RELOCATED EVENT POWER STATION. COORDINATE ACTUAL LOCATION WITH CIVIL CONTRACTOR AND OWNER PRIOR TO ROUGH-IN OF CONDUIT.
- 3 EXISTING TRANSFORMER/ DISTRIBUTION CABINET.
- 4 NEW 100AMP 208V 3Ø PANEL FOR FUTURE FOUNTAIN. COORDINATE ACTUAL LOCATION WITH CIVIL CONTRACTOR AND OWNER PRIOR TO ROUGH-IN OF CONDUIT. MOUNT ON UNISTRUT SUPPORT (4) #1/0 THWN, #6GND, 1 1/2"C. FROM 3 21
- 5 NEW LIGHT POLES WITH NEW LED FIXTURE. SEE 1 & 2 E-7 & E-7
- 6 N16 HAND HOLE WITHIN 2'-0" OF LIGHT POLE. TYP. SEE 4 E-7
- 7 EXISTING CONDUIT TO LIGHTING CONTROLLER "VP-1" AT CORNER OF VICTORIAN PLAZA CIRCLE AND 13TH STREET. SEE A FOR LOCATION. SEE 1 FOR SCHEDULE E-2
- 8 EXISTING LIGHT POLE & RECEPTACLES.
- 9 2 SINGLE COMMERCIAL GRADE WEATHER PROOF RECEPTACLES WITH IN-USE COVERS. (1) FOR XMAS LIGHTS CONNECTED TO PHOTOCELL, (1) CONNECTED TO CONSTANT ON CIRCUIT. COORDINATE LOCATION WITH CIVIL CONTRACTOR. SEE 5 E-7
- 10 EXISTING UNDERGROUND CONDUIT AND CONDUCTORS TO REMAIN.
- 11 EXISTING RECEPTACLES LOCATED IN PLANTER BOX TO REMAIN. ENSURE RECEPTACLE IS OPERATIONAL WHEN PROJECT IS FINISHED.
- 12 (2) #2 THWN , # 2GND, FOR LIGHTS, (2) #2 THWN, #2GND FOR RECEPTACLES. RUN ALL CONDUCTORS IN 3"C.
- 13 MATCH EXISTING CONDUCTORS AND CONDUIT.
- 14 SEE TRENCH DETAIL 6 E-7
- 15 ATTACH STOP SIGN TO RELOCATED LIGHT POLE.
- 16 (2) 3" EC TO NEW TRAFFIC RATED PULLBOX. 19
- 17 RECONNECT EXISTING LIGHTS CONNECT TO NEW CIRCUIT VP-1 (21,23). AND RECEPTACLES TO VP-1 34 & 36. FED FROM EXISTING LIGHTING CONTROLLER VP-1. RUN #2 THWN, #2G, 3"C FOR ALL CIRCUITS. SEE 1 FOR CIRCUIT CONNECTION TO DEVICES SEE 3 E-7 & E-2
- 18 NEW TRAFFIC RATED 3048 PULLBOX. VERIFY EXACT LOCATION OF THE PULLBOX WITH THE OWNER AND CIVIL CONTRACTOR. SEE 1 E-5
- 19 AT&T VAULT TO REMAIN. VERIFY WITH CIVIL ANY WORK NEEDING TO BE DONE WITH NEW GRADE.
- 20 N16 HAND HOLE WITHIN 2'-0" OF LIGHT POLE. COORDINATE WITH CIVIL FOR ACTUAL LOCATION PRIOR TO ROUGH-IN. SEE 4 E-7
- 21 REMOVE EXISTING FOUNTAIN CIRCUIT BREAKER. REPLACE WITH NEW 100AMP 3POLE CIRCUIT BREAKER TO FEED NEW PANEL FOR FUTURE FOUNTAIN. VERIFY EXACT REQUIREMENTS IN THE FIELD.

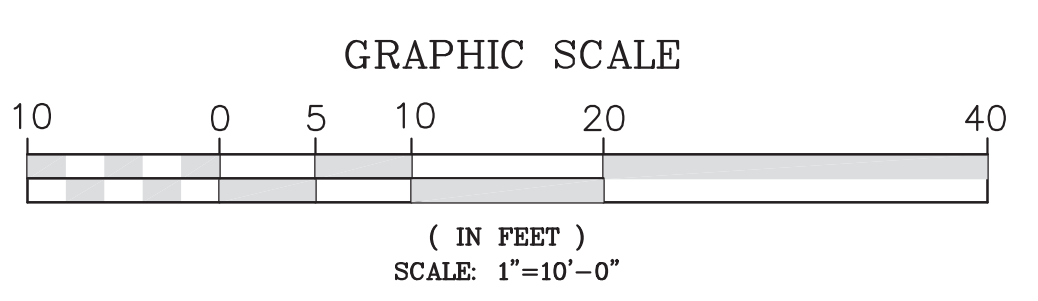
NOTICE: COORDINATE W/ CIVIL WORK FOR ANY EXISTING BOXES/ VAULTS TO REMAIN THAT NEED TO BE RAISED TO NEW FINISHED GRADE.



1 TRAFFIC RATED 3048 PULLBOX  
 E-5 NTS

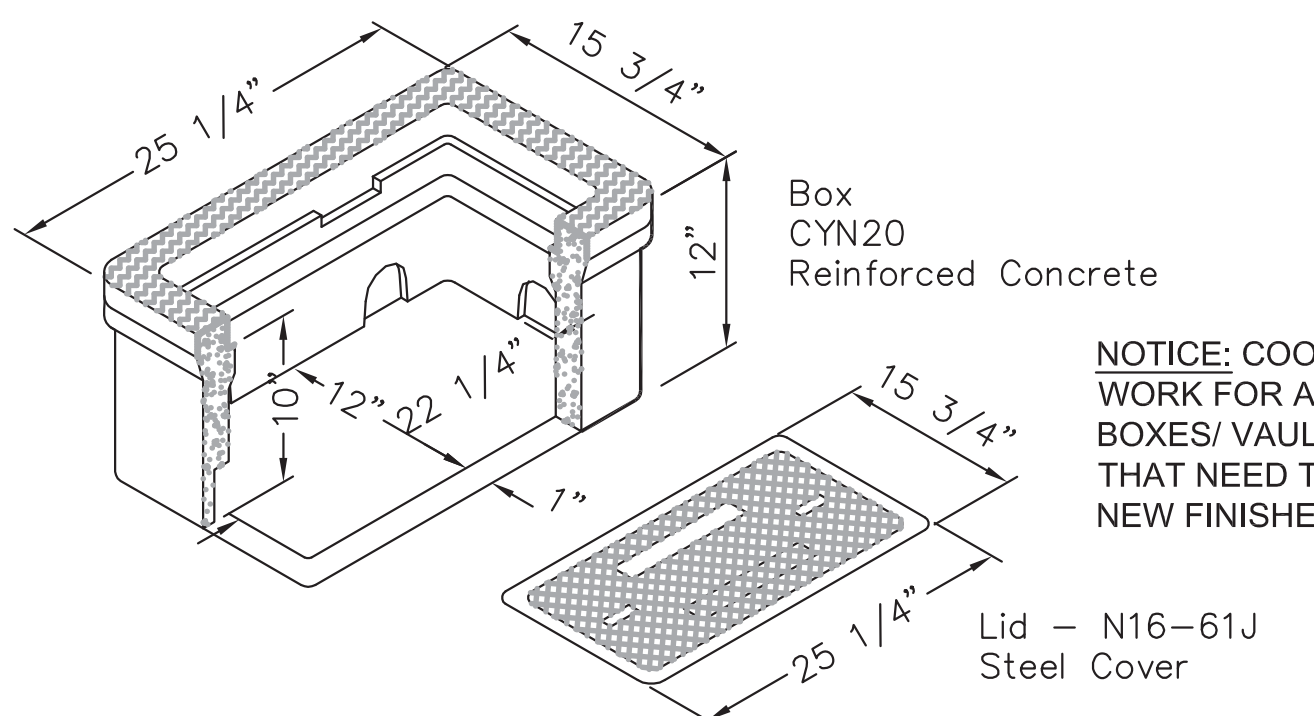
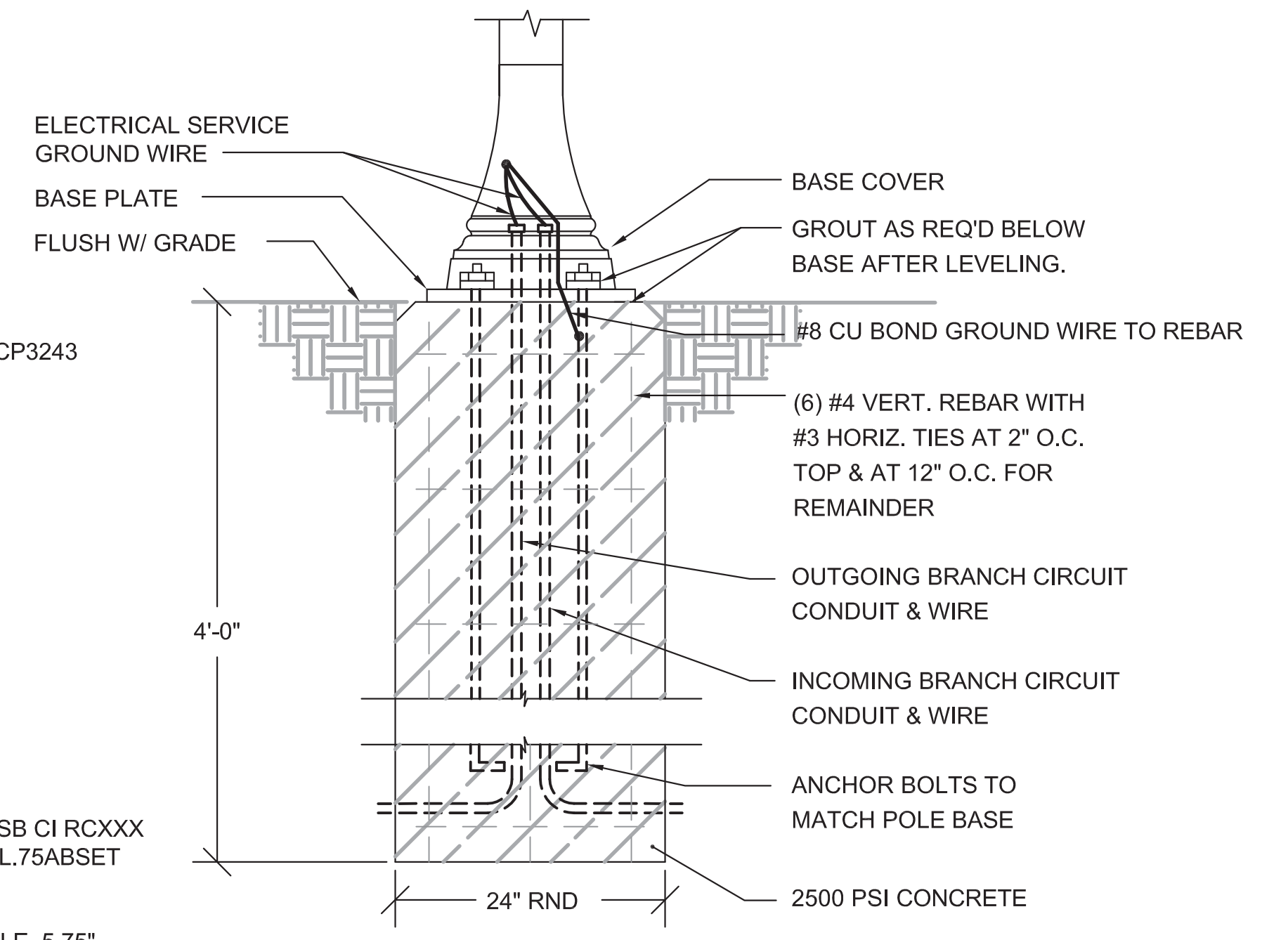
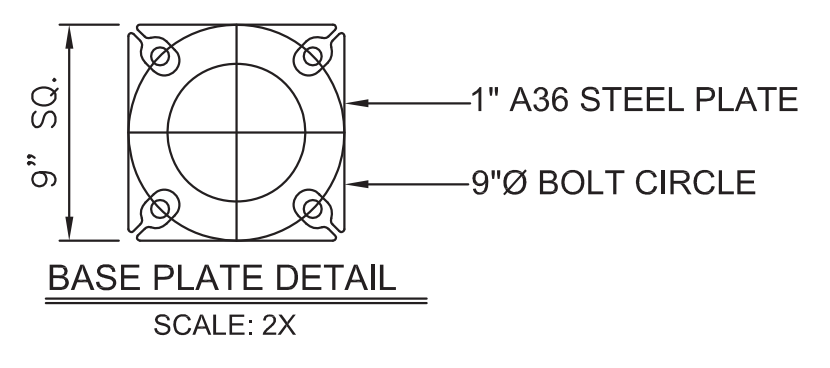
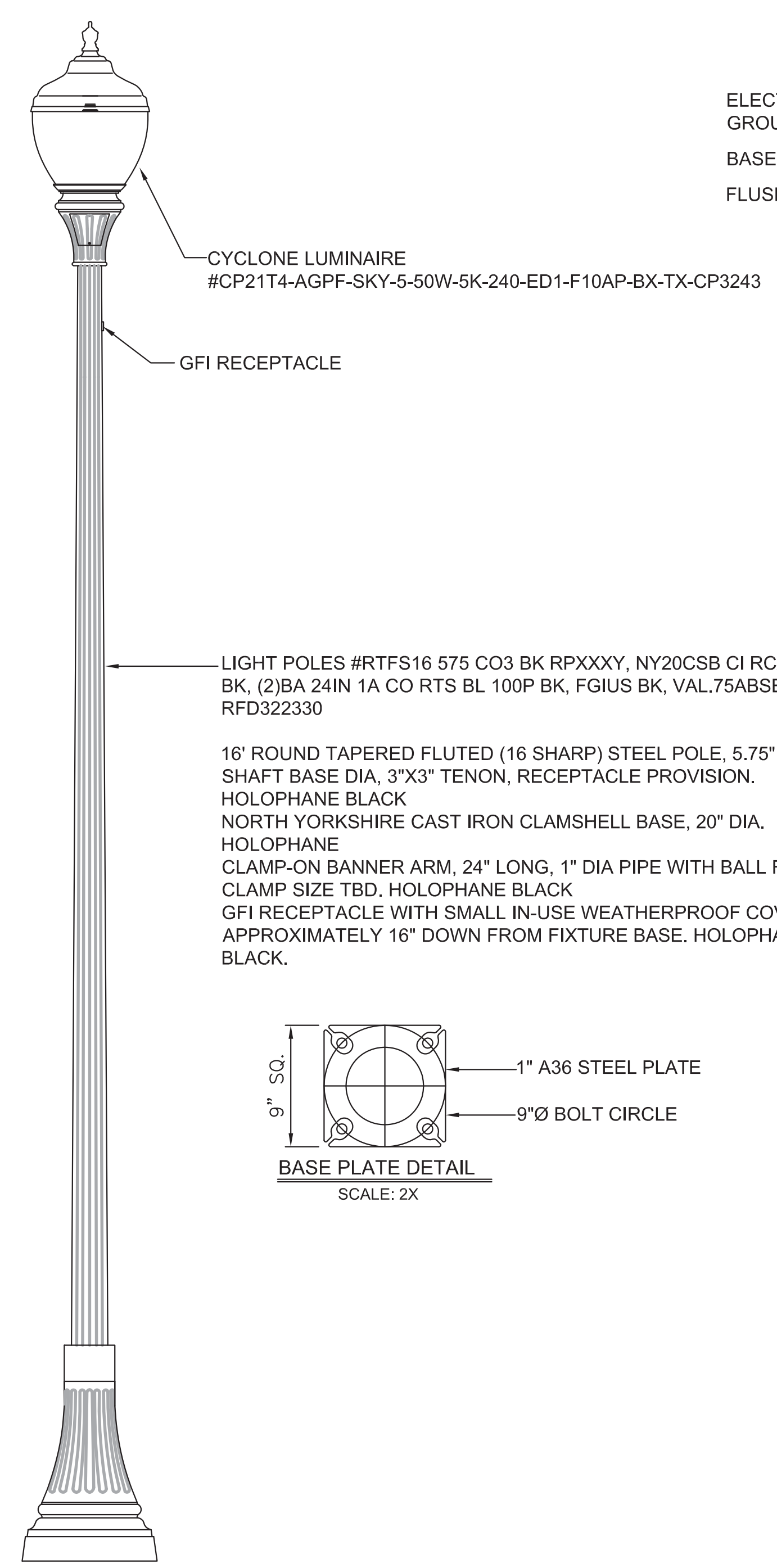


A ELECTRICAL SITE PLAN - WEST SIDE  
 E-5 1"=10'-0"

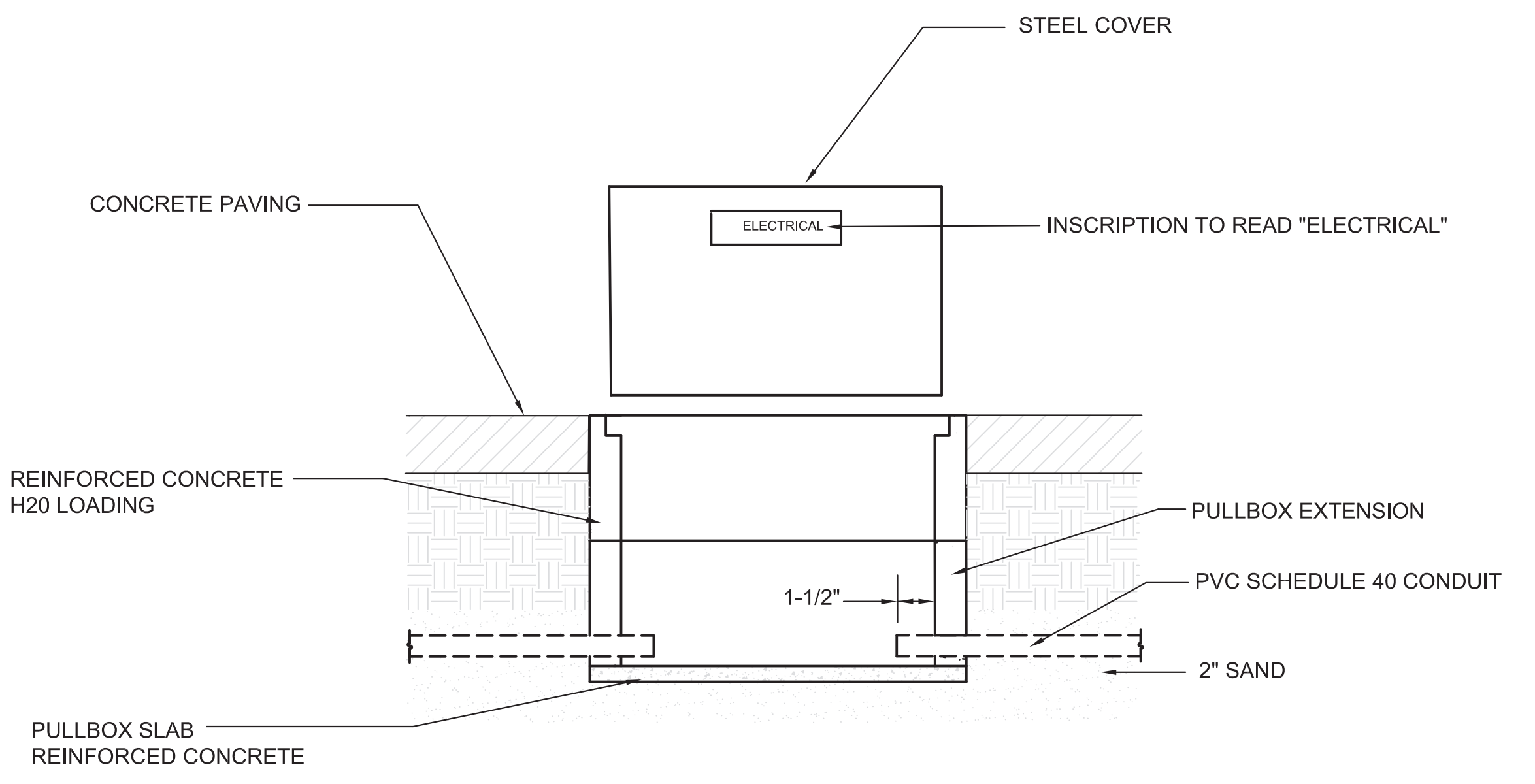
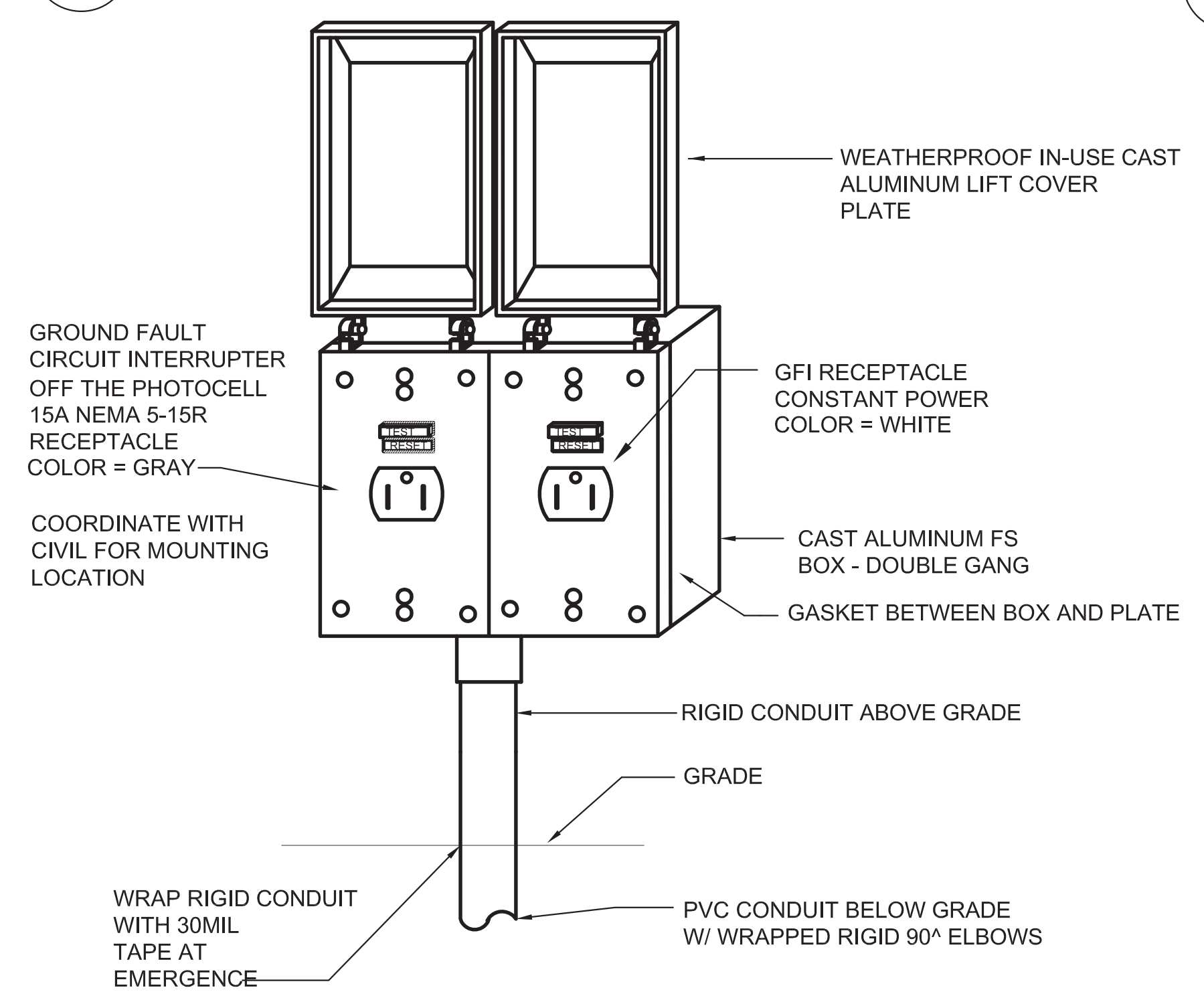
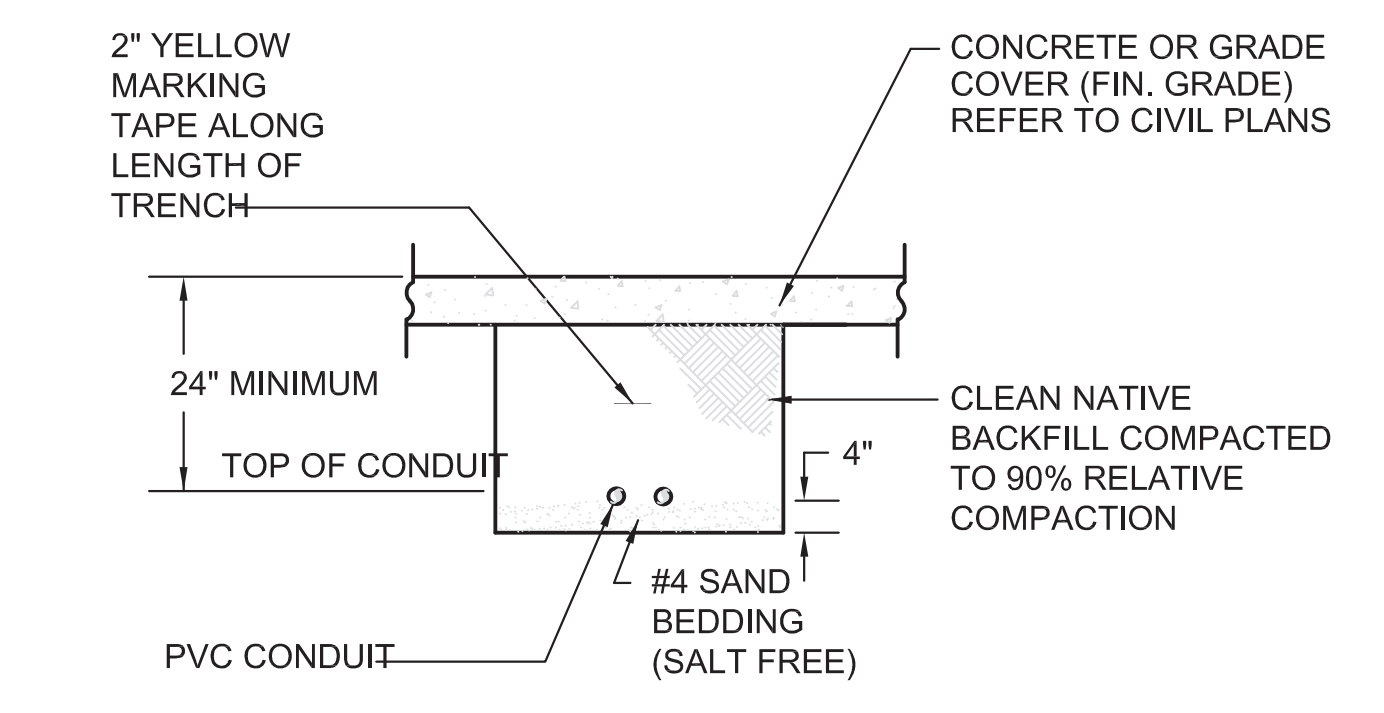
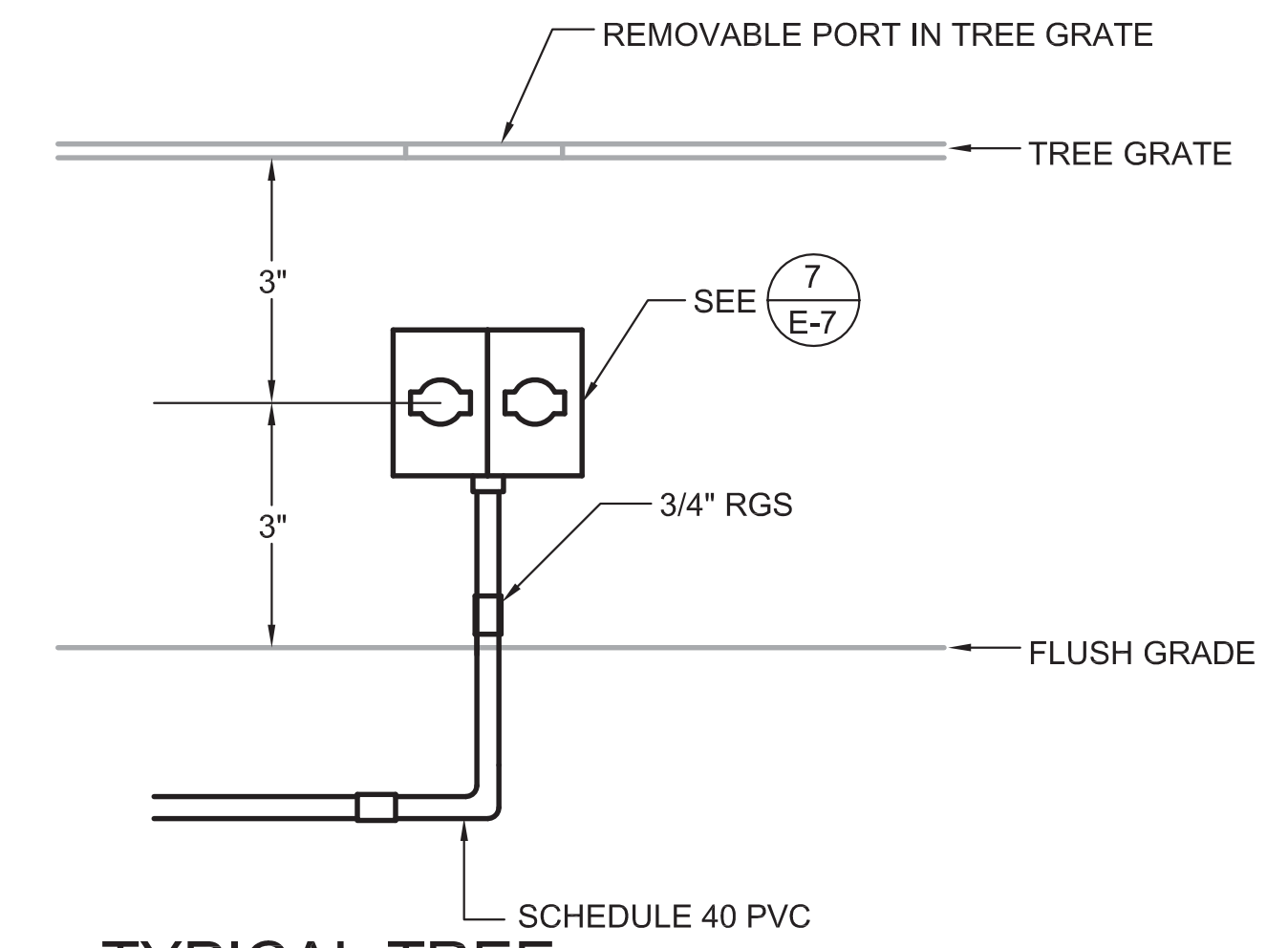
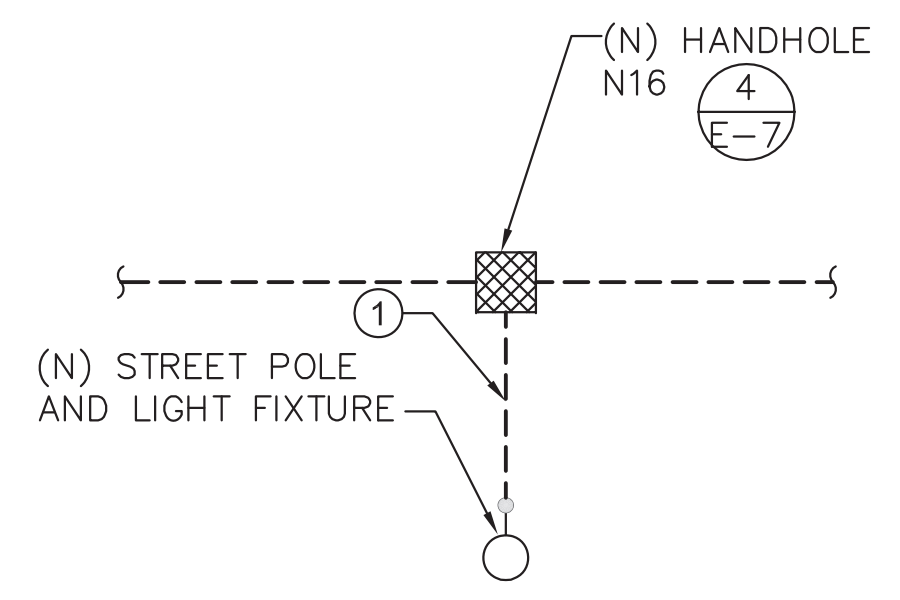




ISSUED FOR BID



NOTES:  
 1. (1) 3/4" C W/(2) #10 CU AND GROUND CONDUCTORS FOR LIGHT FIXTURE AND (2) #10 CU AND GROUND CONDUCTORS FOR RECEPTACLE ON LIGHT FIXTURE.



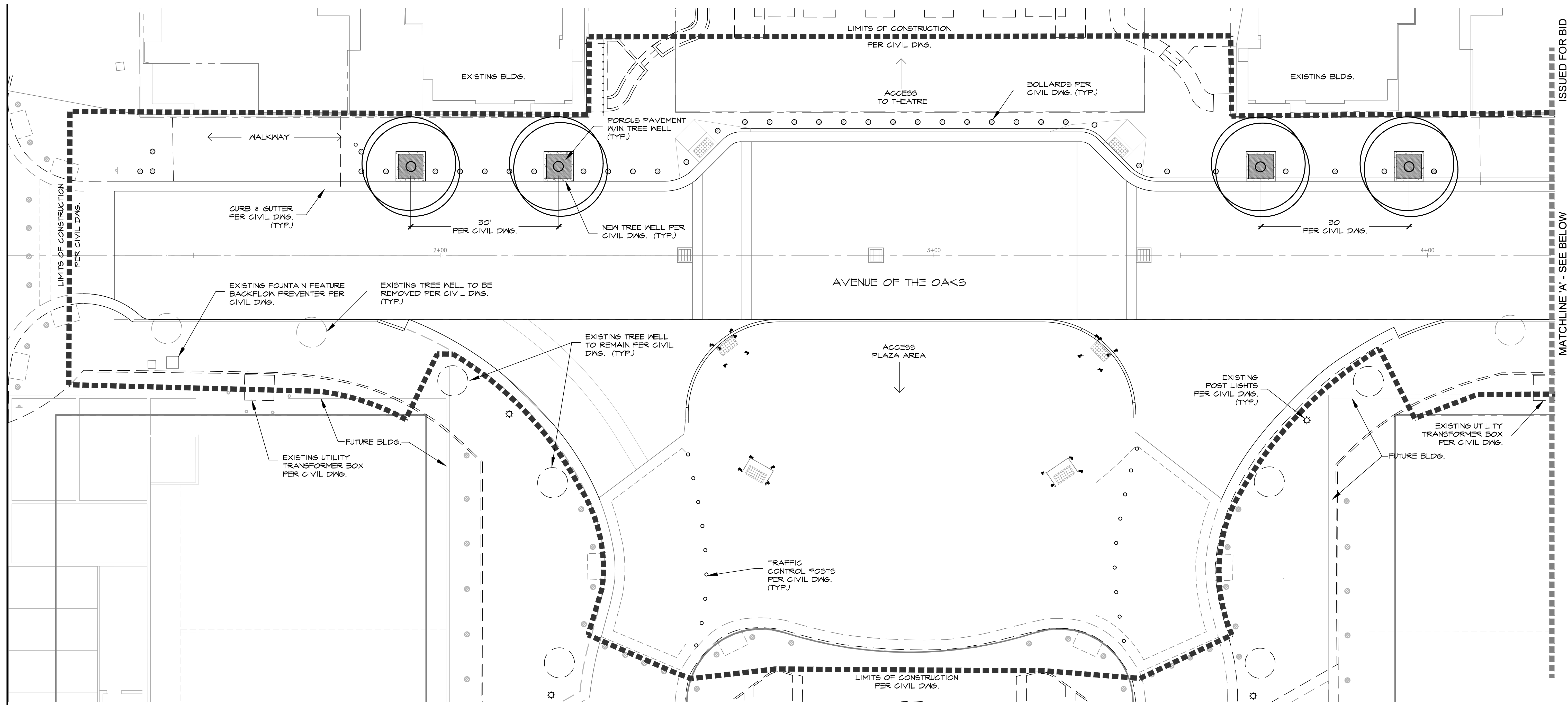
REV.	DATE	DESCRIPTION

CIVIL IMPROVEMENT PLANS FOR  
 AVENUE OF THE OAKS REALIGNMENT  
 ELECTRICAL DETAILS  
 CITY OF SPARKS  
 SPARKS, NEVADA

Designs and drawings contained herein are protected under USC copyright Title 17. Unauthorized duplication is a violation of state and federal law.

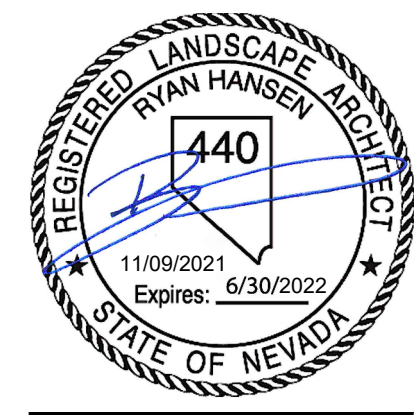
Date: 11/09/2021  
 Designed by: MVB  
 Checked by: ERG  
 Job No. 1594.001

D:\4715\Drawings\4715 E-7.dwg 11/19/21 9:58am mike



ISSUED FOR BID  
MATCHLINE 'A' - SEE BELOW

Copyright © 2021 by L.A. Studio Nevada, LLC  
**L.A. Studio Nevada**  
 the landscape architecture studio  
 1552 C Street Sparks, NV 89431 (775) 323-2223 NV RLA #440  
 www.la.studionevada.com



Nevada  
 Washoe Co.  
 Sparks  
**Landscape Plan**  
**AVENUE OF THE OAKS REALIGNMENT**  
 City of Sparks

**PLANT LEGEND**

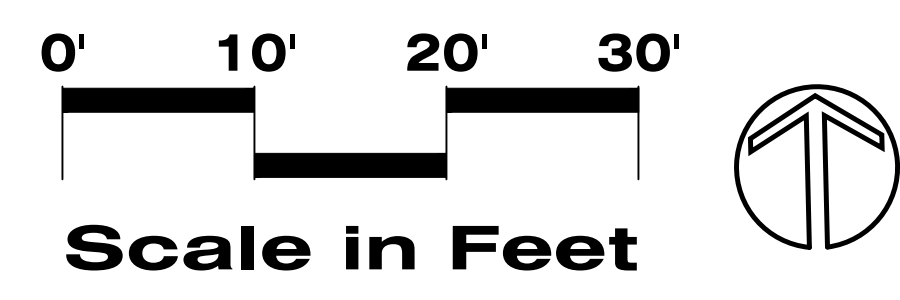
SYM.	QNT.	BOTANICAL NAME/Common Name	MIN. SIZE
	4	QUERCUS RUBRA MAXIMA/RED OAK	3-1/2" - 4" CAL.
TREE SPECIE TO MATCH EXISTING TREE SPECIE ALONG AVENUE OF THE OAKS			

**MULCH NOTE**

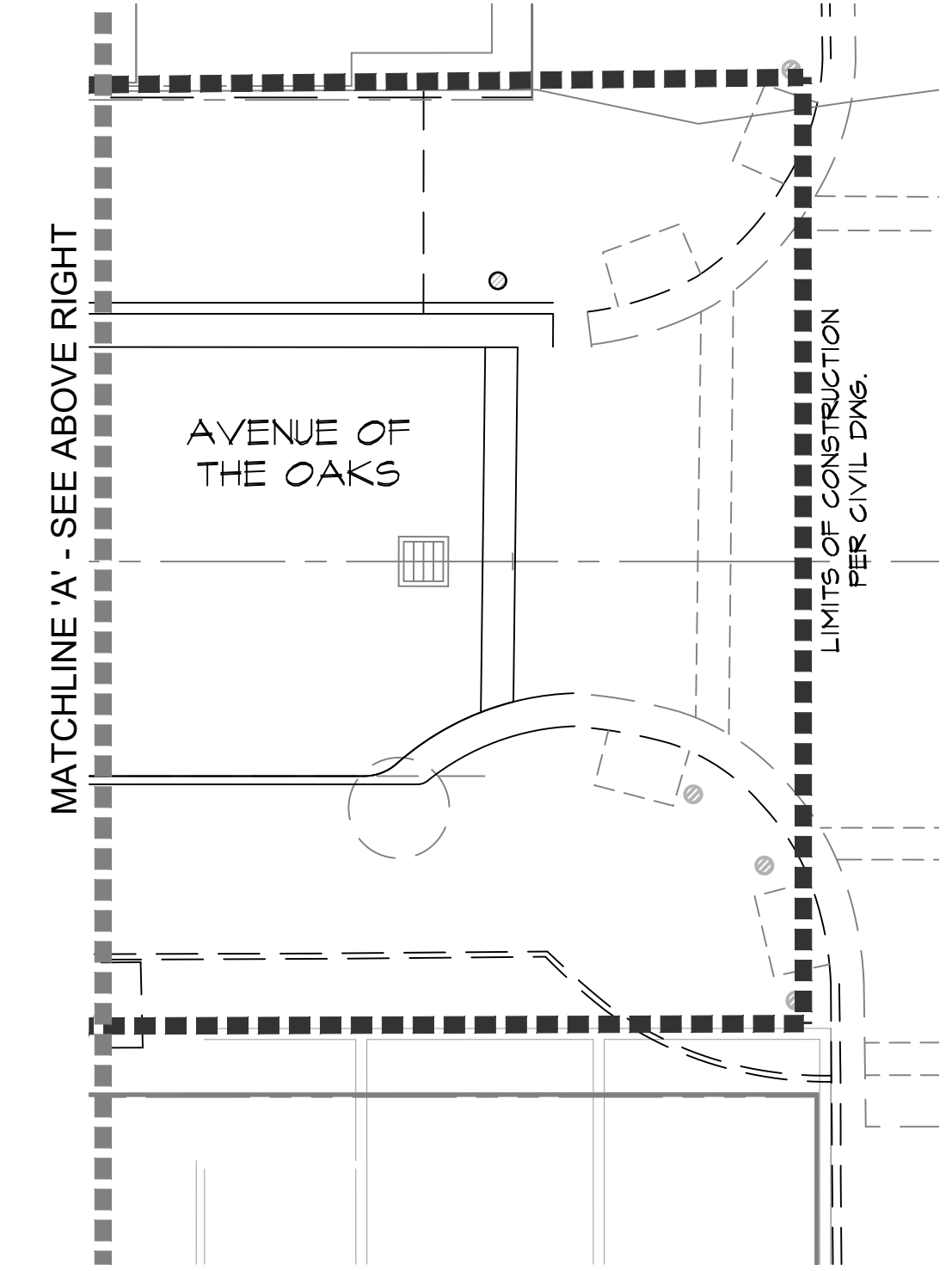
POROUS PAVEMENT  
SEE L3 FOR STREET TREE DETAIL

**GENERAL NOTE**

- EXISTING TREES & IRRIGATION LAYOUT INFORMATIONS SHOWN ON THIS PLAN WERE COLLECTED FROM VARIOUS SOURCES AND MAY NOT REPRESENT ACTUAL LAYOUT AND LOCATIONS ON PREMISES. NO RESPONSIBILITY IS ASSUMED FOR SUFFICIENCY OR ACCURACY OF THE INFORMATION DISPLAYED HEREON.
- PROTECT AND PRESERVE EXISTING TREES & IRRIGATION TO REMAIN FROM CONSTRUCTION. CONTRACTOR SHALL REPAIR OR REPLACE TREES AND IRRIGATION COMPONENTS DAMAGED FROM CONSTRUCTION.
- CONTRACTOR SHALL PROTECT & MAINTAIN IRRIGATION TO EXISTING TREES AND LANDSCAPE TO REMAIN. RE-ROUTING, MODIFICATIONS, AND/OR REPAIRS TO EXISTING IRRIGATION FOR PRESERVED LANDSCAPE AREAS OUTSIDE OF CONSTRUCTION LIMITS MAY BE REQUIRED AND SHALL BE COORDINATED WITH CITY OF SPARKS PARK DEPT.



SEE SHT. L3 FOR LANDSCAPE DETAILS & SPECIFICATIONS



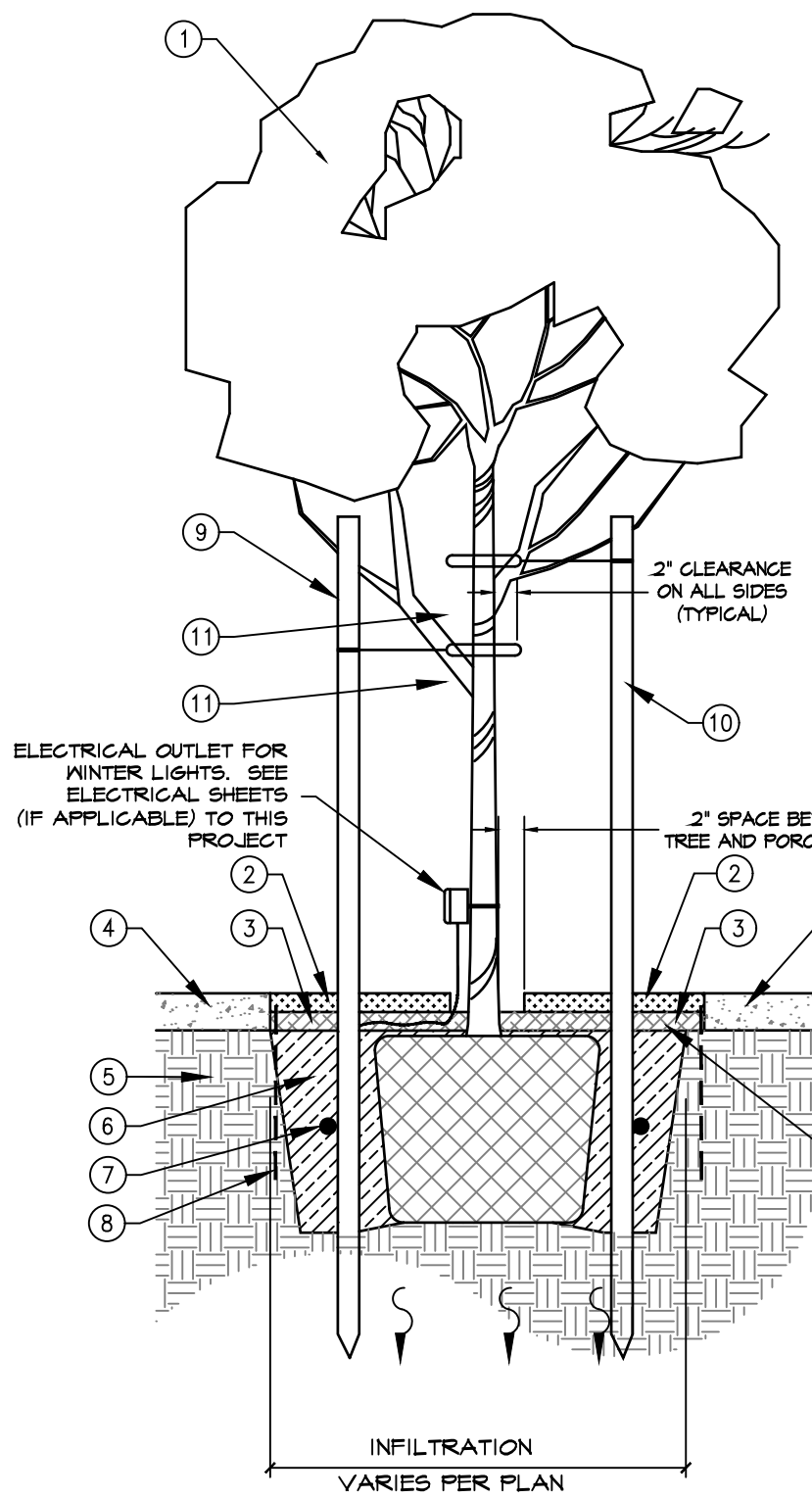
No.	Revision Date

LA No: 918-992-10-14  
 Designed: JPH  
 Drawn: JPH  
 Checked: RPH  
 Date: 11/02/2021

L1

Sheet \_\_\_\_\_ of \_\_\_\_\_  
 Sheet 29 of 32





- 1 DECIDUOUS TREE
- 2 POROUS PAVE, CONTRACTOR TO FURNISH AND INSTALL TWO-INCH (2") MINIMUM DEPTH OF FINE CUT POROUS PAVER AS PER CITY SPECIFICATION. COLOR TO BE 'GYPPRESS' COLOR. FINISH GRADE TO BE FLUSH WITH ADJACENT SIDEWALK GRADE. INSTALL PER MFG'S SPEC. INSTALL POROUS PAVE AFTER GRADE SETTLEMENT. THICKEN POROUS PAVE AS NEEDED TO ACCOUNT FOR POSSIBLE SINKAGE FROM SETTLING OF GRADE. CONTACT: (888) 448-2073 WEBSITE: WWW.POROUSPAVE.COM
- 3 DG MULCH, CONTRACTOR TO FURNISH AND INSTALL TWO-INCH (2") MINIMUM DEPTH OF DECOMPOSED GRANITE (DG) MULCH.
- 4 HARDSCAPE, PER CIVIL DMS.
- 5 EXISTING NATIVE SOIL (OR BASE AGGREGATE UNDER HARDSCAPE)
- 6 AMENDED SOIL BACKFILL MATERIAL TO BE 1/3 ORGANIC HUMUS (NITROGEN FORTIFIED ORGANIC) MIXED WITH 2/3 NATIVE SOIL AND BLENDED TOGETHER PRIOR TO BACKFILLING. ADD WATER AND BACKFILL IN 6" LIFTS.
- 7 FERTILIZER, BEST SLOW RELEASE 15-15-15 ALL PURPOSE FERTILIZER. INSTALL PER MANUFACTURER'S RECOMMENDED APPLICATION RATES FOR PLANTING.
- 8 ROOT BARRIER, 24" DEPTH, ROOT BARRIER DEFLECTOR, EP SERIES (PART NO. EP-2450) BY NDS. ROOT BARRIER (OR APPROVED EQUIVALENT). INSTALL PER MFG'S SPEC.
- TREE STAKING:**
- 9 TREE STAKES, THREE (3) LODGE POLE TREE STAKES, TWO INCH (2") DIAMETER BY EIGHT FEET (8') IN LENGTH. STAKE INTO UNDISTURBED SOIL OUTSIDE THE ROOTBALL AND PERPENDICULAR TO PREVAILING WINDS.
- 10 TYING WIRE, WHITE 14 GAUGE IRRIGATION WIRE. WRAP AROUND STAKE AND TIE TO SECURE THE TYING WIRE TO THE STAKE.
- 11 RUBBER HOSE (1/2" OR 3/4" IN SIZE) WITH FOURTEEN (14) GAUGE TYING WIRE INSIDE. LEAVE TWO INCHES (2") OF CLEARANCE BETWEEN THE TREE TRUNK AND RUBBER HOSE ON ALL SIDES. STAKE TO IMMOBILIZE ROOTBALL NOT TO STRAIGHTEN THE TREE.
- 12 INSTALL TIES OVER TREE BRANCHES SO THEY DO NOT SLIP DOWN THE TREE TRUNK OVER TIME.

**NOTES:**

1. REMOVE ALL NURSERY STAKES, TIES & TAGS. TREES MUST STAND UPRIGHT TO BE ACCEPTABLE. SEE NURSERY STOCK QUALITY STANDARDS.
2. REMOVE DAMAGED BRANCHES. DO NOT REMOVE CENTRAL LEADER OR ANY LOWER BRANCHES.
3. TOP OF ROOT BALL\* TO BE 1" ABOVE EXISTING GRADE. NO NATIVE SOIL TO BE PLACED ON TOP OF ROOT BALL.
4. GRADE WATERING BASIN SUCH THAT WATER COLLECTS AT EDGE OF ROOT BALL, NOT AT TRUNK.
5. THOROUGHLY WATER IMMEDIATELY AFTER PLANTING.
6. ORIENT GRAFT UNION TO FACE NORTH.
- \* TOP OF ROOT BALL IS DEFINED AS THE LOCATION OF THE UPPERMOST LATERAL ROOT NOT THE SOIL LEVEL IN THE PLANT CONTAINER.
7. AFTER REMOVAL OF TREE STAKES, FILL IN STAKE HOLE VOIDS WITH POROUS PAVERS PER MFG'S SPEC.

CONTRACTOR SHALL TEST INFILTRATION OF EXCAVATION / EXISTING NATIVE SOIL BASE WITHIN PLANTING AREAS PRIOR TO INSTALLATION OF AMENDED SOIL & PLANTINGS. NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IF EXCAVATION DO NOT DRAIN.

CONTRACTOR SHALL COORDINATE INSTALLATION OF THE TREE STAKES WITH CITY OF SPARKS AUTHORIZED REPRESENTATIVE.

1 STREET TREE DETAIL

NOT TO SCALE

2 NOT USED

3 NOT USED

LANDSCAPE SPECIFICATIONS

**GENERAL**

1. PLAN IS DIAGRAMMATIC ONLY. ALL LOCAL GOVERNING CODES SHALL BE MET. EXACT LOCATION OF TREES AND SHRUBS SHALL BE DETERMINED IN THE FIELD (INSTALL AS PER DETAILS) AND APPROVED BY THE OWNER'S REPRESENTATIVE.
2. A MINIMUM OF TWO WORKING DAYS BEFORE PERFORMING ANY DIGGING, CALL UNDERGROUND SERVICE ALERT FOR INFORMATION ON THE LOCATION OF NATURAL GAS LINES, ELECTRIC CABLES, TELEPHONE CABLES, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION AND PROTECTION OF ALL UTILITIES, AND REPAIR OF ANY DAMAGE RESULTING FROM HIS WORK AT NO ADDITIONAL COST TO THE OWNER.
3. DAMAGES: CONTRACTOR SHALL PROMPTLY REPAIR ALL DAMAGES TO EXISTING SITE AT NO COST TO OWNER.
4. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES (I.E. PAVING, PLUMBING, ELECTRICAL, ETC.)
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY SITE CONDITIONS PRIOR TO CONSTRUCTION AND TO NOTIFY THE OWNER'S REPRESENTATIVE SHOULD CONDITIONS EXIST WHICH PREVENT CONSTRUCTION AS PER THESE PLANS. COMMENCEMENT OF WORK SHALL CONSTITUTE ACCEPTANCE OF CONDITIONS AND RESPONSIBILITY FOR CORRECTIONS.
6. CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR ASSUMES SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS AND CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD HARMLESS THE OWNER FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT.

**PLANTING**

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH GRADING THROUGHOUT ALL LANDSCAPE AREAS SUCH THAT THERE ARE NO HUMPS OR DEPRESSIONS AND POSITIVE DRAINAGE OCCURS THROUGHOUT. THE TOP 18" OF ALL PLANTING BEDS SHALL BE CLEAN NATIVE SOIL, FREE OF ALL CONSTRUCTION DEBRIS AND NATIVE ROCKS OVER 1" IN DIAMETER. THE CONTRACTOR SHALL AMEND THE PLANTING BED OR PLANTING HOLES PER PLANS AND SPECIFICATIONS. FINAL GRADE OF ALL PLANTERS (I.E. MULCH SURFACES) SHALL BE FLUSH WITH ADJACENT HARDSCAPE SURFACES.
8. SOIL TEST: CONTRACTOR SHALL PROVIDE SOIL TEST RESULTS FOR EXISTING SITE SOIL AS FOLLOWS:
  - ANALYSIS PACKAGE LTP-4 BY SUNLAND ANALYTICAL (916)852-8557 (OAE).
  - TEST RESULTS SHALL INCLUDE SOIL SATURATION PERCENT, SOIL TEXTURE, INFILTRATION RATE, PH, CONDUCTIVITY, TOTAL DISSOLVED SALTS, CATION EXCHANGE CAPACITY, POTASSIUM, SODIUM, CALCIUM, MAGNESIUM, NITRATE & PHOSPHORUS, SULFUR, CHLORIDE, BORON, COPPER, IRON, MANGANESE, ZINC & LIME REQUIREMENT OR GYPSUM REQUIREMENT, SODIUM ABSORPTION RATIO, EXCHANGEABLE SODIUM PERCENT & ORGANIC MATTER, ALONG WITH RECOMMENDATIONS FOR SOIL AMENDMENT BASED ON ANALYSIS RESULTS.
  - CONTRACTOR SHALL FOLLOW RECOMMENDATIONS OF SOIL TEST.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TOTAL AND CONFIRM ALL MATERIAL QUANTITIES. ITEMS QUANTIFIED BY AN AREA (I.E. SQUARE FEET - SF, SQUARE YARD - SY) OR VOLUME (CUBIC FEET - CU FT, CUBIC YARD - CU YD) SHALL BE CALCULATED AND CONFIRMED BY THE CONTRACTOR. THE QUANTITIES LISTED ON THE PLANT LIST ARE ESTIMATED. IN THE EVENT OF A DISCREPANCY BETWEEN THE TOTALS LISTED ON THE PLANT LIST AND THE QUANTITY OF GRAPHIC PLANT SYMBOLS DEPICTED ON THE DRAWINGS, THE GRAPHIC SYMBOLS ON THE PLANS SHALL GOVERN. THE ACTUAL TOTAL QUANTITIES SHALL BE DETERMINED BY THE CONTRACTOR.
10. SOIL AMENDMENT: UNLESS OTHERWISE INDICATED BY THE SOIL TEST, SOIL AMENDMENT SHALL BE HUMUS COMPOSED OF TOPSOIL, BARK HUMUS, AND COMPOST. SUBMIT TO OWNER'S REPRESENTATIVE FOR APPROVAL.
11. CONTRACTOR IS RESPONSIBLE FOR PROVIDING PLANT MATERIAL PER SYMBOLS AND SPACING INDICATED ON PLAN. SYMBOLS PREVAIL OVER NUMBERS ON PLANT LIST. NO SUBSTITUTIONS WILL BE ACCEPTED WITHOUT EXPRESSED WRITTEN CONSENT OF THE OWNER'S REPRESENTATIVE. SEE SUBMITTALS.
12. ALL PLANTS NOT MEETING OR EXCEEDING REQUIREMENTS AND RECOMMENDATIONS OF THE LATEST EDITION OF THE ANSI Z601 'AMERICAN STANDARD FOR NURSERY STOCK' BY THE AMERICAN ASSOCIATION OF NURSERYMEN SHALL BE REJECTED. CONTRACTOR SHALL RECEIVE ON-SITE APPROVAL OF PLANT MATERIAL BY OWNER'S REPRESENTATIVE PRIOR TO PLANTING. FAILURE TO RECEIVE PRIOR APPROVAL MAY RESULT IN REJECTION OF PLANT MATERIAL FOLLOWING INSTALLATION. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO INSPECT AND EVALUATE PLANT MATERIAL THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD.

**13. ALL TREE WELLS SHALL RECEIVE TOP-DRESSING OF MULCH AS FOLLOWS:**

- DECOMPOSED GRANITE (DG) - INSTALL 2" MIN. DEPTH OF 5/16" COARSE OXBORROW DG (OAE) - DO NOT INSTALL KEED FABRIC UNDER DG MULCH.
- POROUS PAVING TOPPING OVER DG - INSTALL 2" MIN. DEPTH OF POROUS PAVE PER CITY OF SPARKS SPEC. FINISH GRADE TO BE FLUSH WITH ADJACENT SIDEWALK GRADE.
- HERBICIDE (OAE) TO ALL PLANTING BEDS PER MFG'S SPECIFICATIONS.

NOTE: DIGITAL PHOTOS OF ALL MULCH SAMPLES SHALL BE SUBMITTED TO CITY OF SPARKS REPRESENTATIVE FOR REVIEW AND APPROVAL MIN. 48 HOURS PRIOR TO START OF ANY LANDSCAPE OR IRRIGATION WORK. IF UNACCEPTABLE MULCH IS INSTALLED WITHOUT APPROVAL IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CORRECT THE ISSUES AT HIS EXPENSE.

**OBSERVATIONS/APPROVALS/SUBMITTALS**

14. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING OWNER'S REPRESENTATIVE, A MINIMUM OF 48 HOURS IN ADVANCE, FOR THE FOLLOWING SITE OBSERVATIONS AND/OR MEETINGS:
  - A. PRECONSTRUCTION MEETING WITH ALL PARTIES
  - B. PLANT MATERIAL ON SITE PRIOR TO INSTALLATION
  - C. FINAL PROJECT WALK-THROUGH
  - D. ADDITIONAL SITE OBSERVATIONS AS DEEMED NECESSARY BY THE OWNER'S REPRESENTATIVE AND/OR CONTRACTOR.
15. SUBMIT AMENDMENT AND MULCH SAMPLES TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION. FAILURE TO COMPLY MAY RESULT IN REJECTION OF MULCH OR AMENDMENT PRIOR TO OR FOLLOWING INSTALLATION.
16. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PROVIDE PLANT MATERIAL AS SPECIFIED ON THIS PLAN. THE CONTRACTOR MAY SUBMIT A REQUEST TO PROVIDE SUBSTITUTIONS FOR THE SPECIFIED PLANT MATERIAL UNDER THE FOLLOWING CONDITIONS:
  - A. ANY SUBSTITUTIONS PROPOSED SHALL BE SUBMITTED TO THE PROJECT OWNER'S REPRESENTATIVE WITHIN TWO WEEKS OF THE AWARD OF CONTRACT. SUBSTITUTIONS MUST MEET EQUIVALENT DESIGN AND FUNCTIONAL GOALS OF THE ORIGINAL MATERIALS AS DETERMINED BY THE OWNER'S REPRESENTATIVE. ANY CHANGES MUST HAVE THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
  - B. THE REQUEST WILL BE ACCOMPANIED BY AT LEAST THREE NOTICES FROM PLANT MATERIAL SUPPLIERS THAT THE PLANT MATERIAL SPECIFIED IS NOT AVAILABLE AND WILL NOT BE AVAILABLE PRIOR TO CONSTRUCTION.
17. SUBMIT REQUIRED SOIL REPORT, AND SAMPLE OF PROPOSED SOIL AMENDMENTS TO OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
18. RECORD (AS-BUILT) DRAWINGS: FOLLOWING COMPLETION OF PROJECT INSTALLATION, AND PRIOR TO FINAL APPROVAL, CONTRACTOR SHALL PREPARE AND SUBMIT RECORD DRAWINGS DEPICTING A COMPLETE LANDSCAPE AND IRRIGATION INSTALLATION. PROCURE FROM OWNER DIGITAL COPIES OF CONTRACT DRAWINGS. CONSTRUCTION DRAWINGS SHALL BE ON THE PROJECT SITE AT ALL TIMES DURING INSTALLATION. CONTRACTOR SHALL MAKE A DAILY RECORD OF ALL WORK INSTALLED DURING EACH DAY. ACTUAL LOCATION OF TREES AND SHRUB BEDS, IRRIGATION VALVES, AND ALL IRRIGATION AND DRAINAGE PIPING SHALL BE SHOWN ON THE PRINTS BY DIMENSIONS FROM EASILY IDENTIFIED PERMANENT FEATURES, SUCH AS BUILDING, CURBS, FENCES, WALKS, OR PROPERTY LINES. DRAWINGS SHALL SHOW MANUFACTURER'S NAME AND CATALOG NUMBER. THE DRAWINGS SHALL BE TO SCALE. ALL INFORMATION NOTED ON THE PRINT SHALL BE TRANSFERRED TO THE COPIES BY CONTRACTOR AND ALL INDICATIONS SHALL BE RECORDED IN A NEAT, ORDERLY MANNER. THE RECORD COPIES SHALL BE TURNED OVER TO THE OWNER'S REPRESENTATIVE.

**GUARANTEES/WARRANTY**

20. ALL PLANTED AREAS SHALL BE MAINTAINED FOR A PERIOD OF SIXTY DAYS FOLLOWING WRITTEN ACCEPTANCE BY OWNER'S REPRESENTATIVE. LANDSCAPE CONTRACTOR WILL GUARANTEE ALL PLANT MATERIAL (INCLUDING BUT NOT LIMITED TO TREES, SHRUBS, GROUNDCOVER, AND GRASSES) FOR A PERIOD OF ONE FULL YEAR FOLLOWING FINAL ACCEPTANCE OF THE LANDSCAPE INSTALLATION BY THE OWNER'S AUTHORIZED REPRESENTATIVE. IN BIDDING AND INSTALLING THE PLANT MATERIAL SPECIFIED ON THESE PLANS, THE LANDSCAPE CONTRACTOR AGREES THAT THE PLANT MATERIAL SPECIFIED IS SUITABLE TO THE PROJECT SITE. FURTHERMORE, THE LANDSCAPE CONTRACTOR AGREES TO HONOR THE WARRANTY AND, IF NECESSARY, REPLACE SPECIES WITH A MORE HARDY PLANT TYPE IF DEEMED NECESSARY DUE TO EXCESSIVE DIE OUT. IF THE LANDSCAPE CONTRACTOR DOES NOT BELIEVE CERTAIN PLANT MATERIAL IS SUITABLE FOR THE SITE AND/OR ITS MICRO-CLIMATES, THE LANDSCAPE CONTRACTOR SHALL REQUEST TO MAKE PLANT MATERIAL SUBSTITUTIONS IN WRITING TO THE LANDSCAPE ARCHITECT PRIOR TO THE START OF INSTALLATION. PROPOSED SUBSTITUTIONS WILL RESULT IN NO ADDED COST.

4 NOT USED

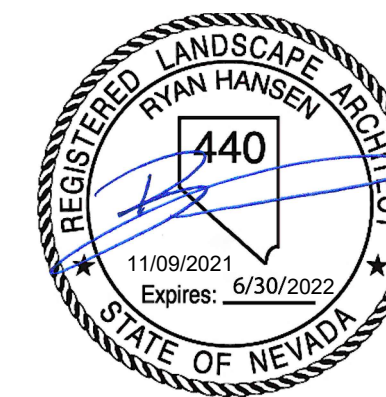
5 NOT USED

6 LANDSCAPE SPECIFICATIONS

ISSUED FOR BID

Copyright © 2021 by L.A. Studio Nevada, LLC

L.A. Studio Nevada  
the landscape architecture studio  
1552 C Street  
Sparks, NV 89431 (775) 325-2223 NV RLA #440  
www.la-studionevada.com



Nevada

Landscape Details & Specifications

AVENUE OF THE OAKS REALIGNMENT

City of Sparks

Washoe Co.

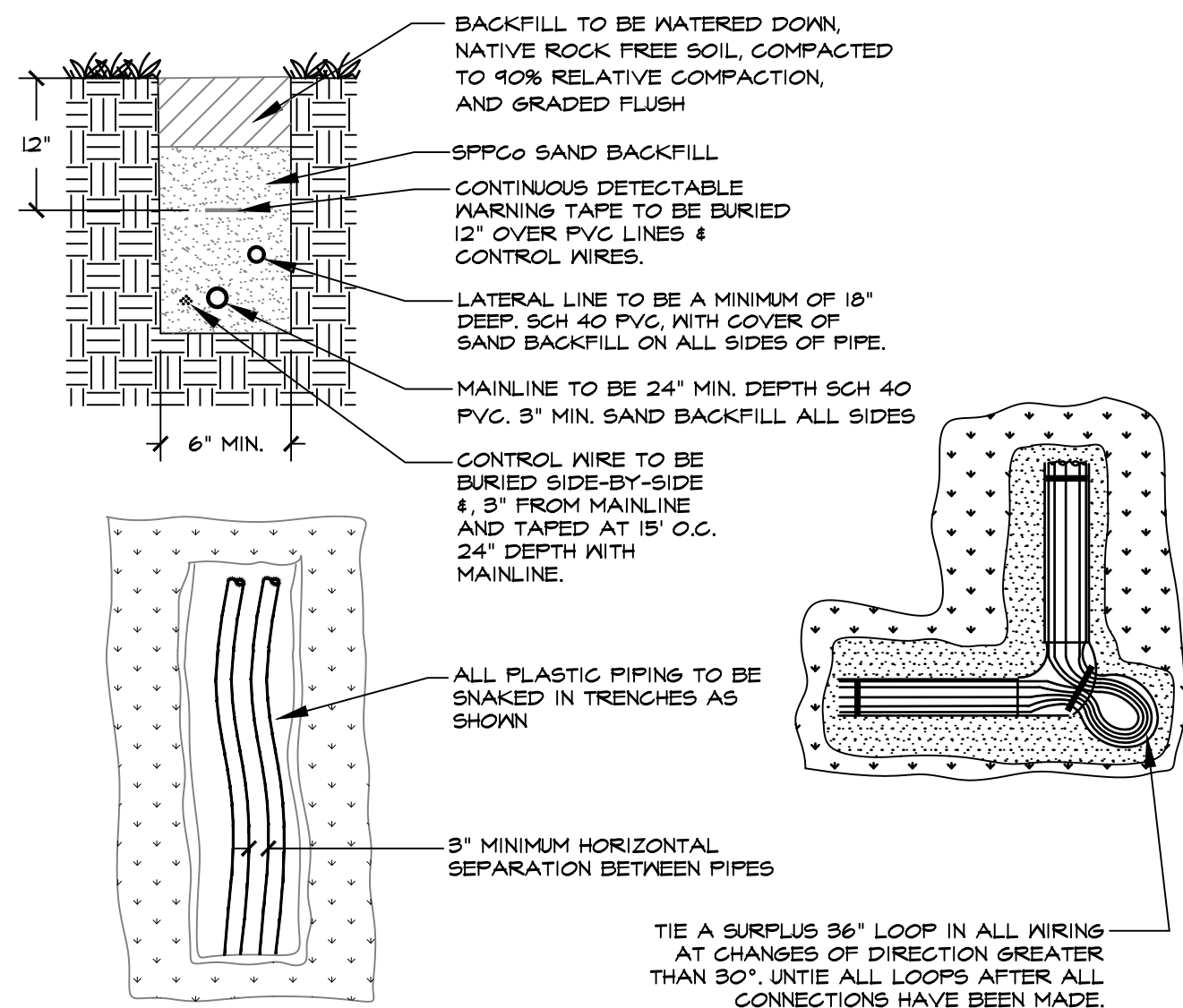
No.	Revision Date

LA No.	918-832-10-10
Designed by	JPH
Drawing by	JPH
Checked by	RPH
Date:	11/09/2021

L3

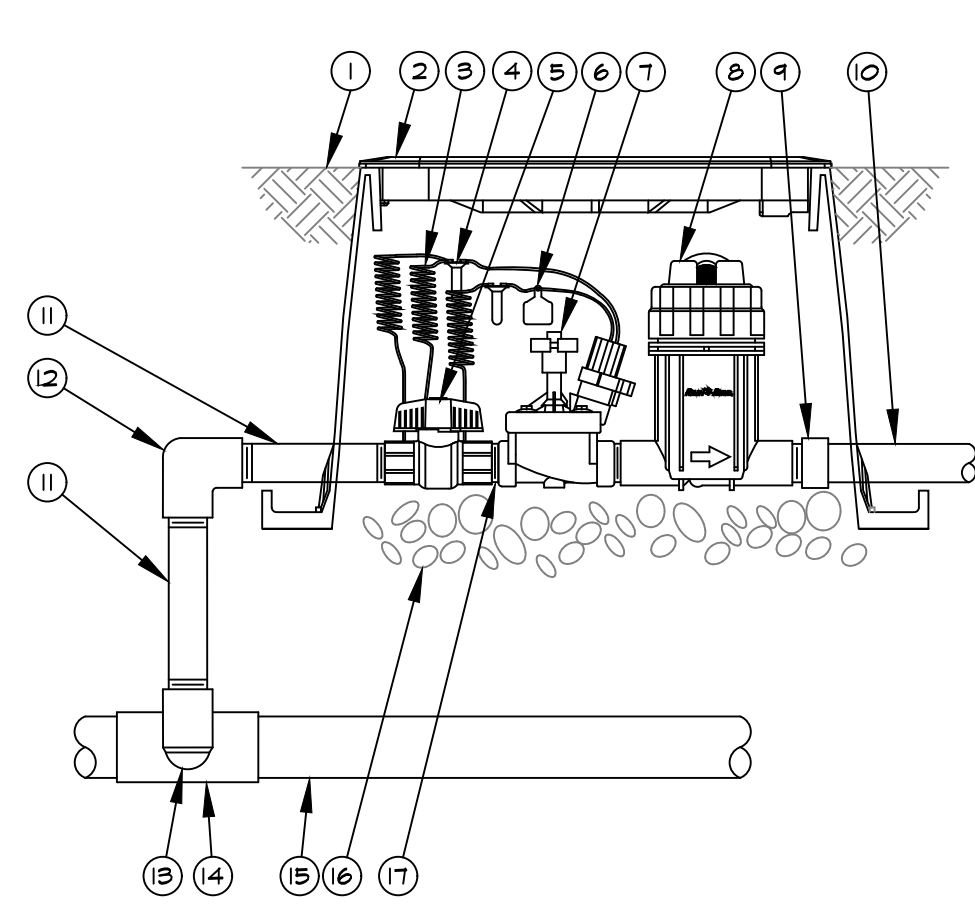
Sheet of

Sheet 31 of 32



**1 TRENCH DETAIL/CONTROLLER WIRING**

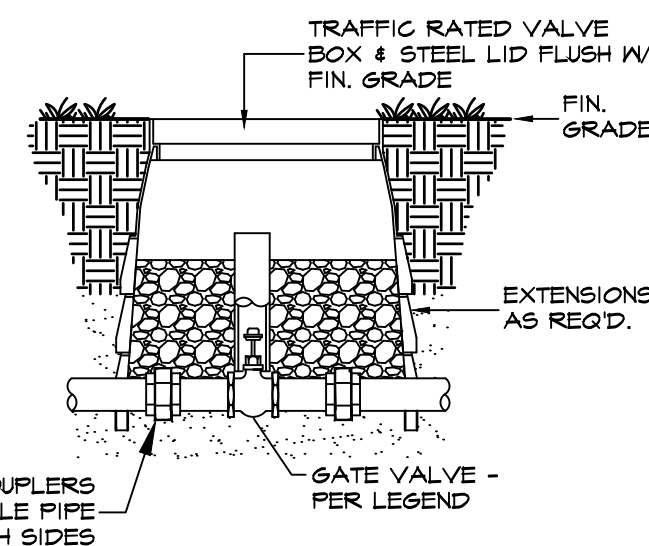
NOT TO SCALE



XCZ-FRB-100-COM 1" COMMERCIAL CONTROL ZONE KIT IN SQUARE VALVE BOX

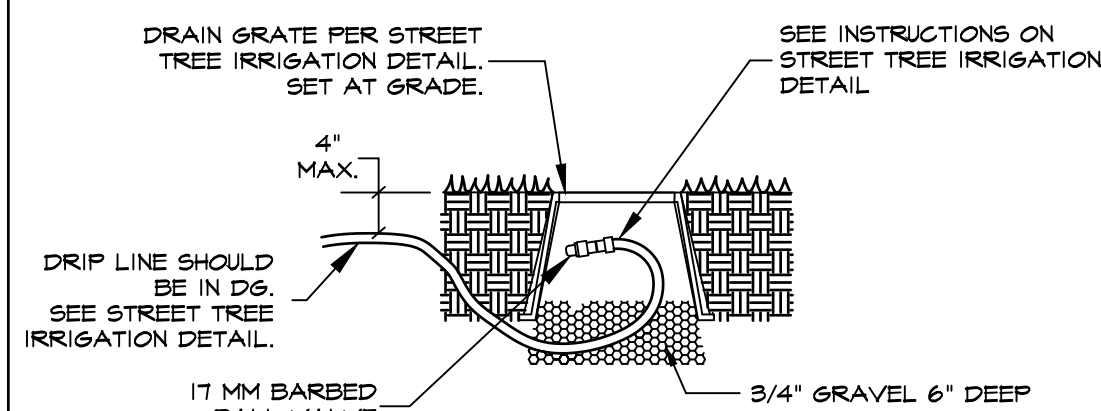
**2 DRIP VALVE ASSEMBLY**

NOT TO SCALE



**3 GATE VALVE**

NOT TO SCALE



**4 REMOVABLE FLUSH CAP**

NOT TO SCALE

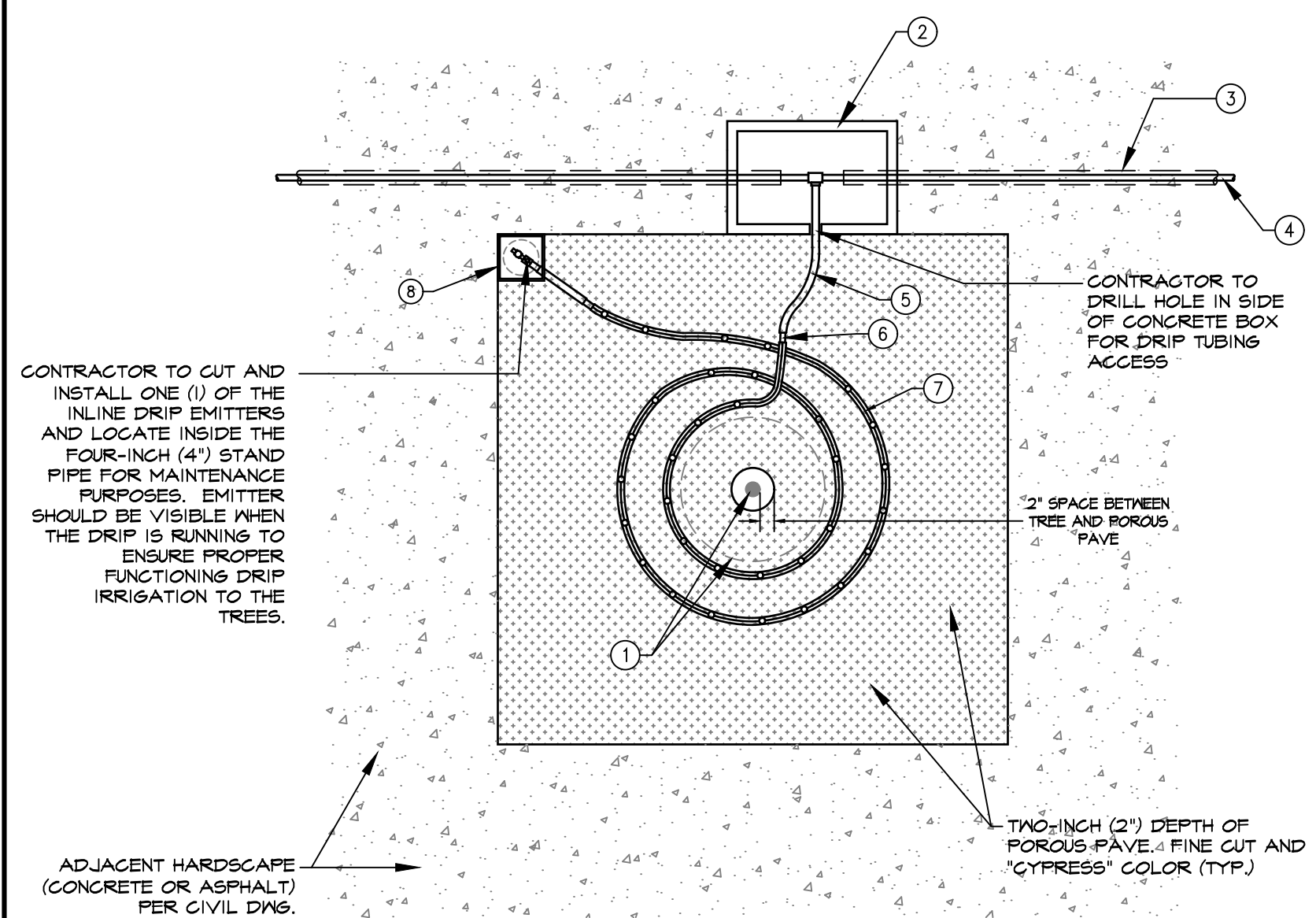
**GENERAL NOTES**

- ALL BOXES INSTALLED ON THIS PROJECT SHALL BE TRAFFIC RATED WITH STEEL LIDS.
- ALL IRRIGATION CONTROL WIRE CONNECTIONS SHALL BE WVIN VAVL BOXES.

**5 GENERAL NOTES**

NOT TO SCALE

SIZE	GPM
1/2"	4
3/4"	7
1"	12
1-1/4"	22
1-1/2"	30
2"	50
2-1/2"	70
3"	110
4"	190
6"	425



- DECIDUOUS TREE PER CITY OF SPARKS STANDARD DETAIL. EDGE OF ROOT BALL AND TREE TRUNK
- CONCRETE BOX: CONTRACTOR TO FURNISH AND INSTALL HT101 TRAFFIC RATED CONCRETE BOX WITH STEEL DIAMOND PLATE BOLT DOWN LID (HT101-LOI).
- IRRIGATION SLEEVE: TWO-INCH (2") PVC SCH 40 IRRIGATION SLEEVE FROM TREE TO TREE LOCATION. CONTRACTOR TO INSTALL WITH NO MORE THAN TWO (2) SNEEPS.
- TREE DRIP VALVE LATERAL LINE: PVC SCH 40 DRIP LATERAL LINE PIPING PER IRRIGATION PLAN. INSTALL PER LATERAL LINE TRENCHING STANDARD DETAIL.
- DRIP DISTRIBUTION TUBING: RAIN BIRD 17MM X 1/2\"/>

**6 STREET TREE IRRIGATION DETAIL**

NOT TO SCALE

**7 NOT USED**

NOT TO SCALE

**IRRIGATION SPECIFICATIONS**

**GENERAL**

- PLAN IS DIAGRAMMATIC ONLY. FINAL LOCATION OF LINES AND HEADS SHALL BE DETERMINED IN THE FIELD AND APPROVED BY THE OWNER'S REPRESENTATIVE. LINES SHALL BE IN A COMMON TRENCH WHEREVER POSSIBLE. THE POINT-OF-CONNECTION SHALL BE AS INDICATED ON THE PLAN.
- THE CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND ENSURE THAT ALL LOCAL CODES ARE MET.
- THE CONTRACTOR SHALL APPLY AND PAY FOR ALL PERMITS REQUIRED FOR INSTALLATION OF THE IRRIGATION SYSTEM AS DEPICTED ON THESE PLANS.
- CONTRACTOR SHALL VERIFY AVAILABLE FLOW AND PRESSURE DOWNSTREAM FROM THE POINT-OF-CONNECTION PRIOR TO SYSTEM INSTALLATION. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IF AVAILABLE FLOW IS LESS THAN REQUIRED TO RUN THE LARGEST ZONE. CONTRACTOR SHALL NOT PROCEED ANY FURTHER WITH INSTALLATION OF THE SYSTEM UNTIL NECESSARY DESIGN REVISIONS HAVE BEEN DETERMINED BY OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS OR DIFFERENCES IN DIMENSIONS EXIST THAT MIGHT HAVE BEEN UNKNOWN DURING ENGINEERING. SUCH OBSTRUCTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY AT NO ADDITIONAL COST TO OWNER.
- ALL SPRINKLER EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL IRRIGATION MATERIAL, INCLUDING PIPE, WITH THE LANDSCAPE DRAWINGS TO AVOID INTERFERING WITH THE PLANTING OF TREES, SHRUBS, OR OTHER PLANTINGS.
- ALL VALVES ARE TO BE LOCATED IN PLANTING AREAS WHEREVER POSSIBLE.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL IRRIGATION MATERIAL, INCLUDING PIPE, WITH THE LANDSCAPE DRAWINGS TO AVOID INTERFERING WITH THE PLANTING OF TREES, SHRUBS, OR OTHER PLANTINGS.
- BACKFILL FOR TRENCHING SHALL BE COMPACTED TO A DRY DENSITY EQUAL TO THE UNDISTURBED ADJACENT SOIL AND SHALL CONFORM TO ADJACENT GRADES WITHOUT DIPS, HUMPS, OR OTHER IRREGULARITIES.
- A MINIMUM OF TWO WORKING DAYS PRIOR TO PERFORMING ANY DISSING, CALL UNDERGROUND SERVICE ALERT AT 1-800-221-2600 FOR INFORMATION ON THE LOCATION OF NATURAL GAS LINES, ELECTRICAL CABLES, TELEPHONE CABLES, ETC.
- CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS.
- INSTALL ALL PIPE AND CONTROL WIRES IN LANDSCAPE BEDS AND IN COMMON TRENCHES WHEREVER POSSIBLE.
- INSTALL ALL PIPE AND CONTROL WIRE, WHICH RUNS UNDER PAVING, WITHIN SCH. 40 PVC SLEEVES 4\"/>

**FLUSHING AND TESTING**

- PIPING SHALL BE COMPLETELY FLUSHED OF FOREIGN PARTICLES BEFORE ATTACHING IRRIGATION COMPONENTS AND DRAIN VALVES.
- AFTER FLUSHING AND WHEN ALL VALVES AND QUICK COUPLERS ARE IN PLACE, ALL MAIN SUPPLY LINES SHALL BE TESTED AT 100 POUNDS PER SQUARE INCH (100 PSI) WITH VALVES CLOSED. MAINTAIN PRESSURE FOR A PERIOD OF NOT LESS THAN (4) CONSECUTIVE HOURS. ALL JOINTS SHOWING LEAKS SHALL BE CLEANED, REMADE, AND TESTED.
- OPERATIONAL TESTING: PERFORM OPERATIONAL TESTING AFTER HYDROSTATIC TESTING IS COMPLETED. DEMONSTRATE TO THE OWNER'S REPRESENTATIVE THAT THE SYSTEM MEETS COVERAGE REQUIREMENTS (100%) AND THAT AUTOMATIC CONTROLS FUNCTION PROPERLY.

**SUBMITTALS**

- MATERIALS LIST: WITHIN (5) DAYS AFTER AWARD OF CONTRACT, SUBMIT TO OWNER'S

**9 IRRIGATION SPECIFICATIONS**

NOT TO SCALE

REPRESENTATIVE (3) COPIES OF A COMPLETE MATERIAL LIST (PARTIAL LIST NOT ACCEPTABLE) OF ALL MATERIALS TO BE USED ON THE PROJECT, SPECIFYING MANUFACTURER, GRADE, TRADE NAME, CATALOG NUMBER, SIZE, ETC. THIS SHALL IN NO WAY BE CONSTRUED AS ALLOWING A SUBSTITUTION FOR ANY ITEM SPECIFIED ON THE PLANS. EQUIPMENT OR MATERIALS INSTALLED OR FURNISHED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE MAY BE REJECTED AND THE CONTRACTOR REQUIRED TO REMOVE THE MATERIALS AT HIS OWN EXPENSE.

INSTALLATION AND PERFORMANCE OF APPROVED SUBSTITUTIONS ARE THE CONTRACTORS RESPONSIBILITY. ANY CHANGES REQUIRED FOR INSTALLATION OF ANY APPROVED SUBSTITUTION MUST BE MADE TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE WITHOUT ADDITIONAL COST TO OWNER.

20. PRIOR TO SYSTEM INSTALLATION CONTRACTOR SHALL VERIFY AND SUBMIT TO OWNER'S REPRESENTATIVE IN WRITING, AVAILABLE FLOW AND PRESSURE AT POINT-OF-CONNECTION AS DESCRIBED IN SPECIFICATION #4 ABOVE.

21. COMPLETE WARRANTY CARDS FOR AUTOMATIC CONTROLLER AND OTHER IRRIGATION MATERIAL (CONTROLLER KEYS, ETC.) SHALL BE DELIVERED TO OWNER.

22. CONTRACTOR SHALL PREPARE AND ISSUE TO THE OWNER (AT COMPLETION OF THE INSTALLATION) AN ANNUAL CHART INDICATING LOCATION, OPERATING DATES, CYCLES, AND TIME FOR EACH ZONE.

23. ASBUILT IRRIGATION DRAWINGS: CONTRACTOR SHALL FURNISH ASBUILTS OF THE COMPLETE IRRIGATION SYSTEM. PROCURE FROM OWNER'S REPRESENTATIVE DIGITAL COPIES OF CONTRACT DRAWINGS. CONSTRUCTION DRAWINGS SHALL BE ON THE CONSTRUCTION SITE AT ALL TIMES WHILE THE IRRIGATION SYSTEM IS BEING INSTALLED. CONTRACTOR SHALL MAKE A DAILY RECORD OF ALL WORK INSTALLED DURING EACH DAY. ACTUAL LOCATION OF VALVES AND ALL IRRIGATION AND DRAINAGE PIPING SHALL BE SHOWN ON THE PRINTS BY DIMENSIONS FROM EASILY IDENTIFIED PERMANENT FEATURES, SUCH AS BUILDINGS, CURBS, FENCES, WALKS OR PROPERTY LINES. DRAWINGS SHALL SHOW APPROVED MANUFACTURER'S NAME AND CATALOG NUMBER. THE DRAWINGS SHALL BE TO SCALE AND ALL INDICATIONS SHALL BE NEAT. ALL INFORMATION NOTED ON THE PRINT SHALL BE TRANSFERRED TO THE COPIES BY CONTRACTOR AND ALL INDICATIONS SHALL BE RECORDED IN A NEAT, ORDERLY MANNER. THE RECORD COPIES SHALL BE TURNED OVER TO THE OWNER'S REPRESENTATIVE AT OR BEFORE FINAL ACCEPTANCE/ APPROVAL OF THE PROJECT.

**GUARANTEE/FINAL ACCEPTANCE**

24. CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE THE IRRIGATION SYSTEM FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. MANUFACTURER WARRANTIES SHALL ONLY EXCEED THIS GUARANTEE AND CONTRACTOR SHALL BE LIABLE FOR REPAIRS/REPLACEMENT OF FAILED MATERIAL/WORKMANSHIP.

**MAINTENANCE**

25. AFTER SYSTEM IS INSTALLED AND APPROVED, INSTRUCT OWNER'S DESIGNATED PERSONNEL IN COMPLETE OPERATION AND MAINTENANCE PROCEDURES. DRAIN ENTIRE SYSTEM AT END OF FIRST WATERING SEASON FOLLOWING INSTALLATION. TRAIN OWNER'S DESIGNATED PERSONNEL BY HAVING THEM ASSIST IN WINTERIZING PROCEDURE.

ISSUED FOR BID

Copyright © 2021 by L.A. Studio Nevada, LLC

**L.A. Studio Nevada**  
the landscape architecture studio  
Sparks, NV 89431 (775) 323-2223 NV RLA #440  
www.la-studionevada.com



Nevada  
Washoe Co.  
City of Sparks  
Irrigation Details  
**AVENUE OF THE OAKS REALIGNMENT**

No.	Revision Date

LA No: 918-932-10-14  
Designed: JPH  
Drawn: JPH  
Checked: RPH  
Date: 11/09/2021

**L4**