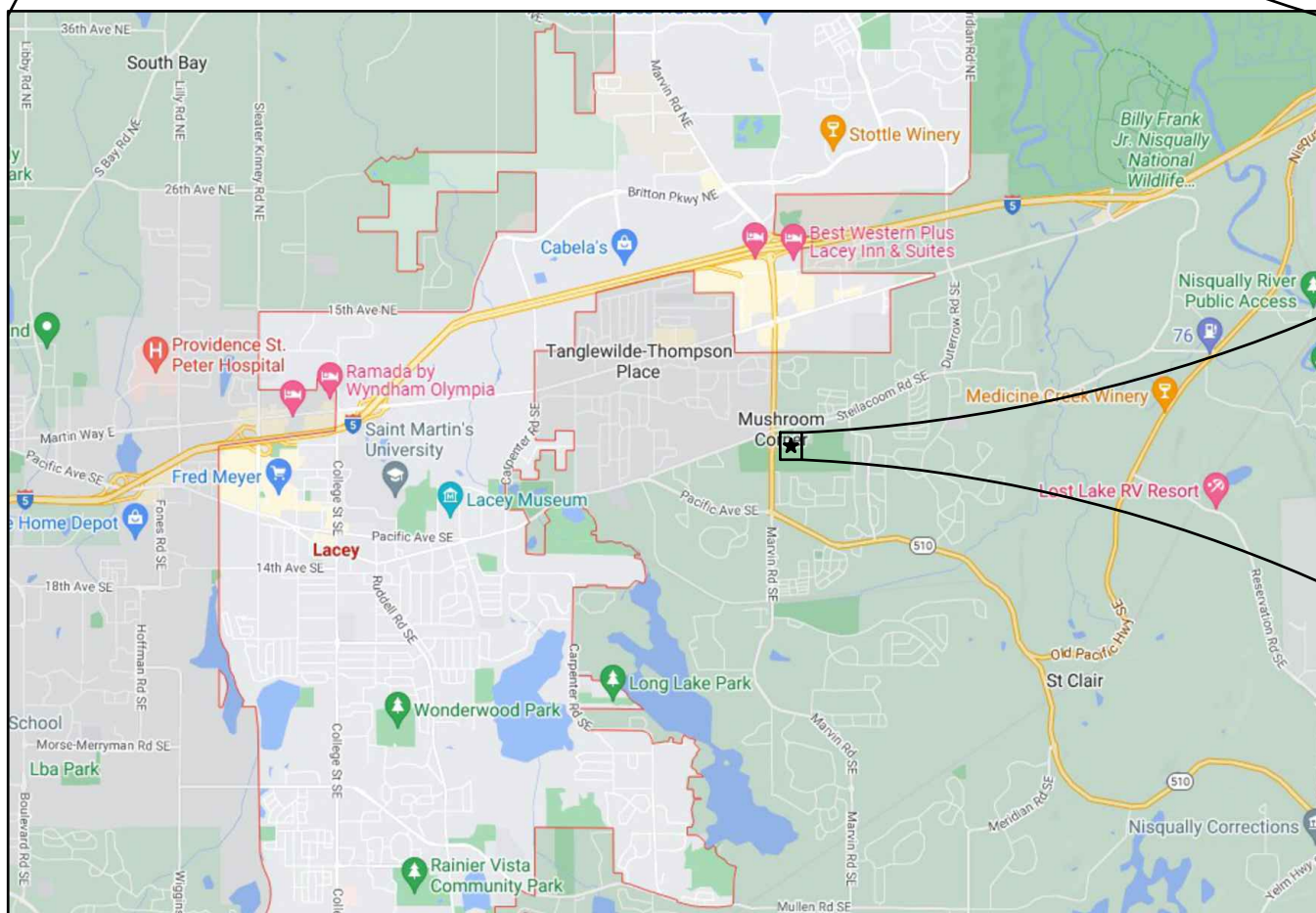


LACEY, WA



Sep 13, 2023 3:14:00pm - User kelcie.hopkins  
 FILE-N: PROJECTS\0620 CITY OF LACEY\22-000313 RAC PARKING LOT DESIGN\CADD\22-000313 CV-01.DWG



## ABBREVIATIONS

# CITY OF LACEY GENERAL CONSTRUCTION NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF LACEY STANDARDS AND REQUIREMENTS AS SET FORTH BY THE CURRENT EDITION OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (WSDOT/APWA). IN CASES OF CONFLICT, THE MOST STRINGENT STANDARD SHALL APPLY.
2. THE CONTRACTOR SHALL BE IN COMPLIANCE WITH ALL SAFETY STANDARDS AND REQUIREMENTS AS SET FORTH BY OSHA, WISHA AND THE STATE OF WASHINGTON, DEPARTMENT OF LABOR AND INDUSTRIES.
3. ALL APPROVALS AND PERMITS REQUIRED BY THE CITY OF LACEY SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
4. IF CONSTRUCTION IS TO TAKE PLACE IN THE COUNTY RIGHT-OF-WAY, THE CONTRACTOR SHALL NOTIFY THE COUNTY AND OBTAIN ALL THE REQUIRED APPROVALS AND PERMITS.
5. A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE CITY OF LACEY CONSTRUCTION INSPECTOR A MINIMUM 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
6. THE CITY OF LACEY CONSTRUCTION INSPECTOR SHALL BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE OF A TAP CONNECTION TO AN EXISTING MAIN. THE INSPECTOR SHALL BE PRESENT AT THE TIME OF THE TAP.
7. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 NOT LESS THAN TWO BUSINESS DAYS AND NOT MORE THAN 10 BUSINESS DAYS PRIOR TO ANY EXCAVATION. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR MAINTAINING ALL LOCATE MARKS ONCE THE UTILITIES HAVE BEEN LOCATED.
8. TEMPORARY STREET PATCHING SHALL BE ALLOWED FOR AS APPROVED BY THE CITY ENGINEER. TEMPORARY STREET PATCHING SHALL BE PROVIDED BY PLACEMENT AND COMPACTION OF 1-INCH MAXIMUM ASPHALT CONCRETE COLD MIX. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AS REQUIRED.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL IN ACCORDANCE WITH THE WSDOT/APWA STANDARD PLANS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (ALL APPLICABLE K'PLANS) AND/OR THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). PRIOR TO DISRUPTION OF ANY TRAFFIC, A TRAFFIC CONTROL PLAN SHALL BE PREPARED AND SUBMITTED TO THE CITY FOR APPROVAL. NO WORK SHALL COMMENCE UNTIL ALL APPROVED TRAFFIC CONTROL IS IN PLACE.
10. EROSION CONTROL/WATER POLLUTION MEASURES SHALL BE REQUIRED IN ACCORDANCE WITH SECTION 1-07.15 OF THE WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AND THE CITY OF LACEY STORMWATER DESIGN MANUAL. AT NO TIME WILL SILTS AND DEBRIS BE ALLOWED TO DRAIN INTO AN EXISTING OR NEWLY INSTALLED FACILITY UNLESS SPECIAL PROVISIONS HAVE BEEN DESIGNED.
11. ALL SURVEYING AND STAKING SHALL BE PERFORMED PER THE CORRESPONDING CHAPTER OF THE CITY OF LACEY DEVELOPMENT GUIDELINES AND PUBLIC WORKS STANDARDS.
12. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A COPY OF AN APPROVED SET OF PLANS ON THE CONSTRUCTION SITE AT ALL TIMES.
13. ANY CHANGES TO THE DESIGN SHALL FIRST BE REVIEWED AND APPROVED BY THE PROJECT ENGINEER AND THE CITY OF LACEY.
14. IF CONSTRUCTION IS TO TAKE PLACE IN OTHER JURISDICTION'S RIGHT-OF-WAY (I.E., THE COUNTY, THE STATE, THE CITY OF OLYMPIA, OR OTHER ADJACENT MUNICIPALITIES), THE CONTRACTOR SHALL NOTIFY THE JURISDICTION AND OBTAIN ALL THE REQUIRED APPROVALS AND PERMITS.
15. PRIOR TO BACKFILL ALL MAINS AND APPURTENANCES SHALL BE INSPECTED AND APPROVED BY THE CITY OF LACEY CONSTRUCTION INSPECTOR. APPROVAL SHALL NOT RELIEVE THE CONTRACTOR FOR CORRECTION OF ANY DEFICIENCIES AND/OR FAILURES AS DETERMINED BY SUBSEQUENT TESTING AND INSPECTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY OF LACEY FOR THE REQUIRED INSPECTIONS.
16. THE CITY WILL BE GIVEN 72-HOURS' NOTICE PRIOR TO SCHEDULING A SHUTDOWN. WHERE CONNECTIONS REQUIRE "FIELD VERIFICATION", CONNECTION POINTS SHALL BE EXPOSED BY THE CONTRACTOR AND FITTINGS VERIFIED 72 HOURS PRIOR TO DISTRIBUTING SHUT-DOWN NOTICES.

- [illegible]

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.



TOPOGRAPHIC SURVEY OF  
REGIONAL ATHLETIC COMPLEX  
EAST ½, SEC. 14, T18N, R1W, W.M.

**BASIS OF BEARING**  
MERIDIAN IS WASHINGTON COORDINATE SYSTEM OF 1983/91 - SOUTH ZONE DERIVED FROM TIES TO HPGN STATIONS SANDERSON, MCKENNA AND CBL1110 AND TO WSDOT GPS STATIONS G259R, GP34005-2, GP34005-4, GP34101-32, GP34101-39, HC34-2, LUHR RM2, TS34-33, TS34-59 AND TO THURSTON COUNTY GPS STATIONS U-531, AT-194, AT-352, AT-355, AT-447, AT449 AND AT-478.  
DISTANCES SHOWN ARE GROUND SCALE U.S. SURVEY FEET. COMBINED SCALE FACTOR (GROUND TO GRID) IS 0.999935701. SURVEY AF# 3111152 DATED 09-24-1997.

**METHOD OF SURVEY**  
SURVEY PERFORMED BY CONVENTIONAL FIELD TRAVERSE USING A LEICA TS-16 (THREE SECOND TOTAL STATION), LINEAR AND ANGULAR CLOSURE OF THE TRAVERSE MEET THE STANDARDS OF WAC 332-130-090.

**BOUNDARY**  
THE BOUNDARY WAS COMPILED USING PHYSICAL FEATURES TIED IN THE FIELD AND DOCUMENTS OF RECORD AS SHOWN BELOW.

**BLA REFERENCED**  
AFN-4335756

**VERTICAL**  
THE CITY OF LACEY BENCHMARKS ARE BASED ON NGVD 29 DATUM FROM PRIMARY CONTROL ESTABLISHED BY FEDERAL AND STATE AGENCIES TO FIRST OR SECOND ORDER ACCURACY. THE CITY OF LACEY'S BENCHMARKS ARE GENERALLY TO THIRD ORDER ACCURACY.

**BENCHMARK**  
CITY OF LACEY BM#993  
2" SURFACE MONUMENT AT THE C/L OF VINE MAPLE DR SE, 80' +/- SOUTH OF STELLACOOM RD SE  
ELEV.=218.711'

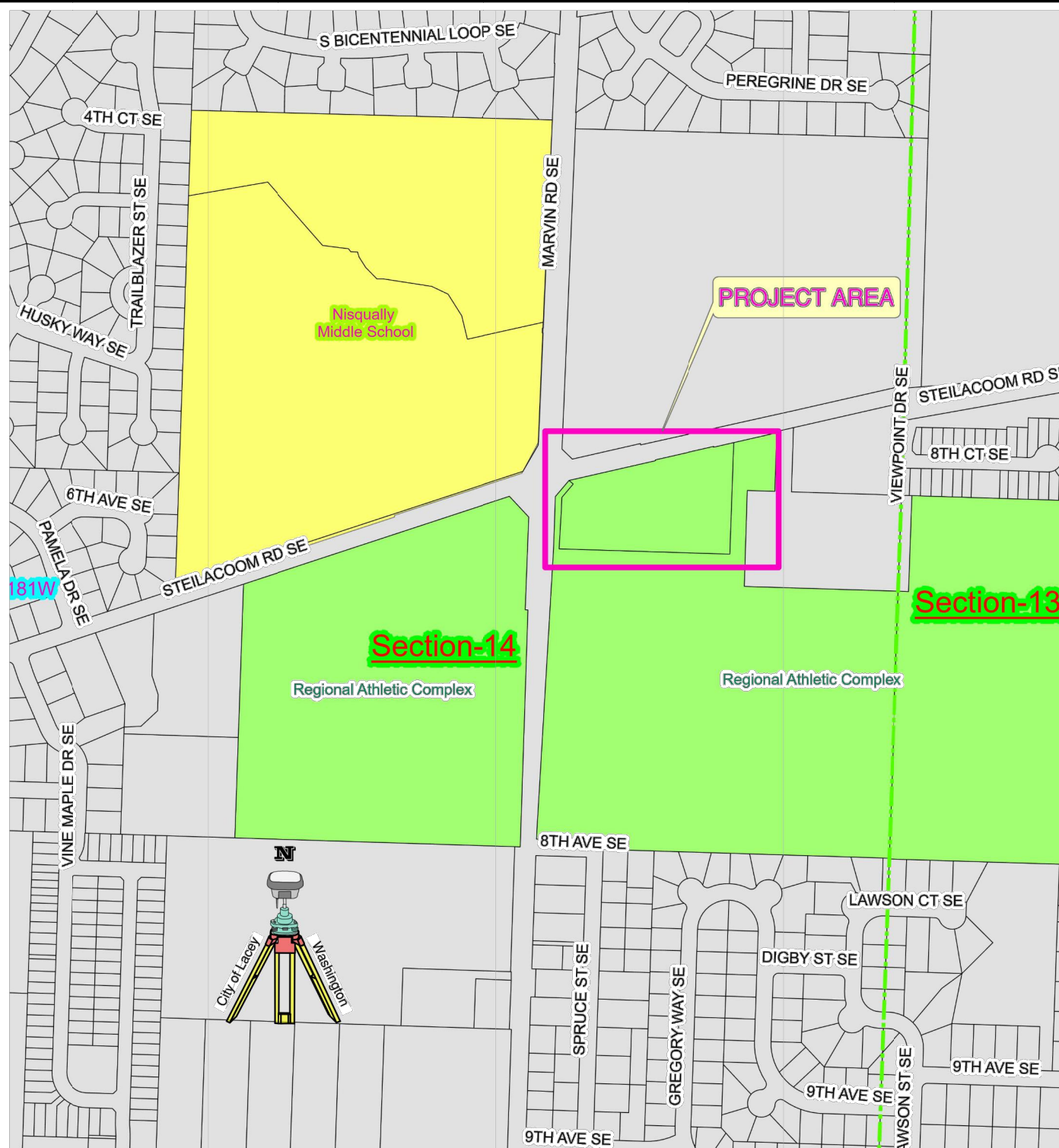
**SOURCE OF CONTOURS**  
COMPILE FIELD MEASUREMENTS USING AUTOCAD CIVIL 3D-2020

**SOURCE OF UTILITY MARKINGS**  
SURFACE MARKINGS PROVIDED BY UTILITY NOTIFICATION CENTER (callbeforeyoudig.org)  
TICKET # 21189894  
"COMMUNICATION UTILITY WAS NOT PROPERLY MARKED IN FIELD"

**FIELD SURVEYOR & FIELD BOOK**  
MIKE BREDESON & 256

	BARB WIRE FENCE
	CHAIN LINK FENCE
	CONCRETE FENCE
	ROCK FENCE
	WIRE FENCE
	WOOD FENCE
	GRAVEL
	TOE OF SLOPE
	TOP OF SLOPE
	DITCH
	STORM (PAINTED)
	SEWER (PAINTED)
	RIGHT OF WAY
	OVERHEAD CABLE
	UNDERGROUND CABLE (PAINTED)
	GAS (PAINTED)
	OVERHEAD PHONE
	OVERHEAD FIBER OPTIC
	UNDER GROUND PHONE (PAINTED)
	UNDERGROUND FIBER OPTIC (PAINTED)
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC (PAINTED)
	WATER (PAINTED)
	RECLAIMED WATER (PAINTED)

	CONCRETE
	BUILDING
	GRAVEL
	ASPHALT



**VICINITY MAP**  
(NTS)

DATE OF SURVEY  
06/2021  
SCALE: 1" = 20'  
0 10 20 40  
CONTOUR INTERVAL=1'

**PURPOSE OF TOPOGRAPHIC SURVEY:**  
TO PROVIDE CITY OF LACEY ENGINEERS TOPOGRAPHIC INFORMATION FOR A PROPOSED PARKING LOT.

**NOTE:**  
The Topographic Survey depicts the physical features that were visible at the time of the survey. The City of Lacey is not responsible for the location of underground utilities that are marked or not marked in the field by other utility providers. All feature locations should be independently verified prior to design or construction.

SURVEY SYMBOL LEGEND											
	Axle		Bike Symbol		Sewer Meter		Reduce Pressure Backflow Assem.		Gate		PVC Pipe
	Brass Disk		Handicap		Sewer Pump		Water Service		Guy Pole		Rock
	Boatspike		Left turn		Sewer Valve		Water Service-Reclaimed		Headstone		Service Disconnect
	Cased Monument		Only Text		Blowoff		Water Tank		Junction Box type 1		Service Pole
	Concrete Monument		Parallel Park End		Blowoff-Reclaimed		Water Valve		Junction Box type 2		Sign
	Hub & Tack		Parallel Park Tie		Hydrant		Water Valve-Reclaimed		Junction Box type 3		Sign (Large)
	Iron Pipe		Railroad Crossing		Hydrant-Reclaimed		Water Vault		Light Pole		Signal Control Cabinet
	Magnail w/ flasher		Right turn		Irrigation Valve		Water Vault-Reclaimed		Light Standard		Signal Pole
	Magnail		Straight Thru		Irrigation Valve-Reclaimed		Well		Luminaire		Street Light
	PKnail w/flasher		Straight Thru and Left Turn		Post Indicator Valve		Anchor		Mailbox		Telephone Booth
	PKnail		Straight thru and Right Turn		Sampling Station		Basketball Hoop		Telephone Manhole		Telephone Pedestal
	Rebar no/cap		Catch Basin		Sampling Station-Reclaimed		BBQ		Telephone Vault		Trash Can
	1/2" or #4 Rebar w/cap		Catch Basin w/EJW inlet		Sprinkler head		Bollard		TV Pedestal		Utility Pole
	5/8" or #5 Rebar w/cap		Culvert		Sprinkler head-Reclaimed		Dumpster		Yard Light		Water Air Release-Reclaimed
	Railroad Spike		Storm C/O		Water Air Release		Filler Cap		Tree Grate		
	Scribe		Storm Manhole		Flag Pole		Gas Manhole				
	Traverse Point		Storm Strip Drain		Gas Meter		Gas pump				
	Non Standard Curb Return		Lift Station		Water Meter		Gas Vavle				
	Truncated Domes		Sewer C/O		Water Meter-Reclaimed						
			Sewer Manhole		Water Pump						

CITY OF LACEY, WASHINGTON  
DEPARTMENT OF PUBLIC WORKS  
420 COLLEGE STREET S.E.  
LACEY, WA 98503 (360) 491-5600



DATE: 06-07-2021  
DRAFTED: MKB  
CHECKED: M. BREDESON  
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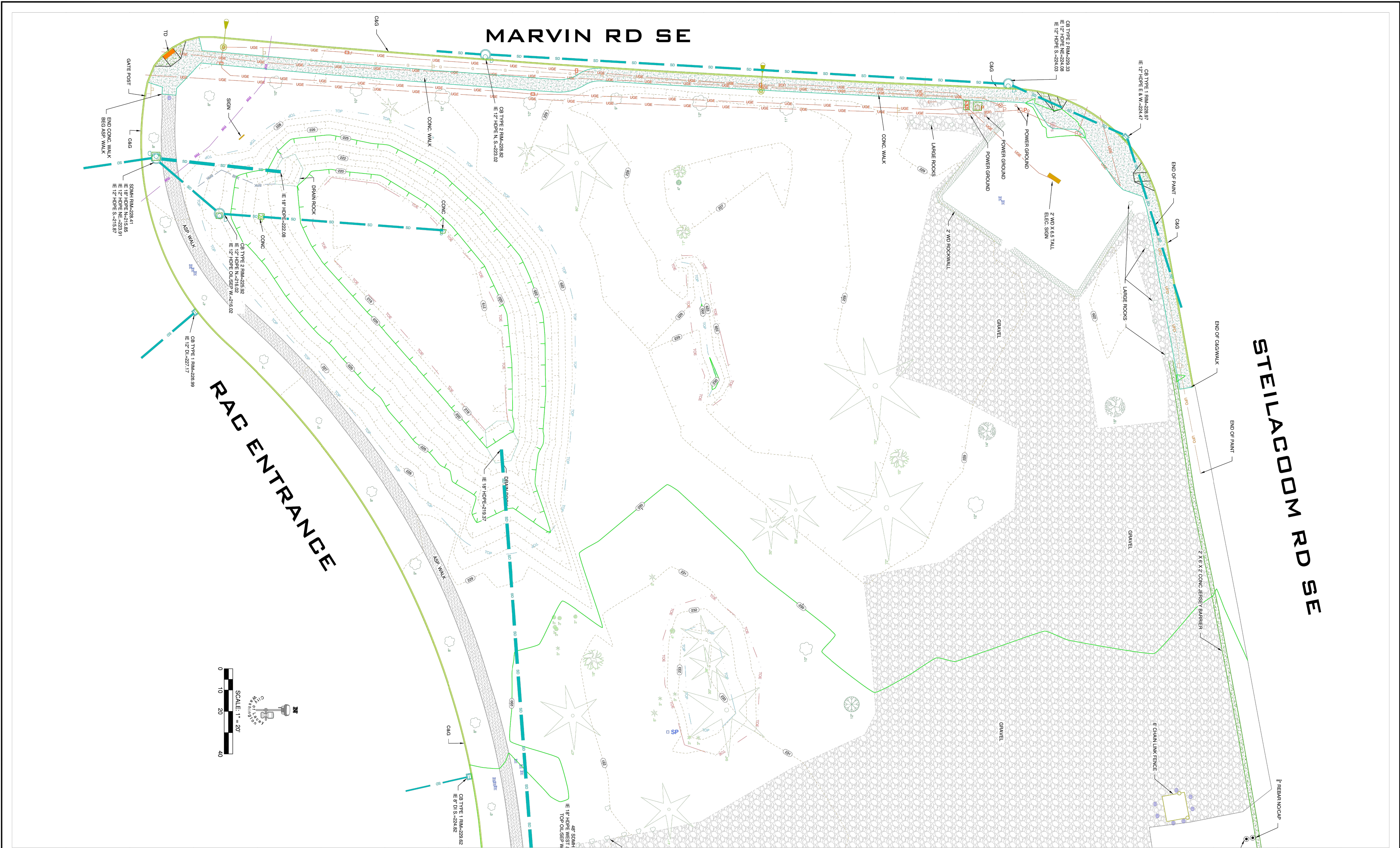


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TOPOGRAPHIC SURVEY

REVISION BLOCK			DWG. NO.
NO.	DATE	DESCRIPTION	
			EX-01
			3 of 44





CITY OF LACEY, WASHINGTON  
DEPARTMENT OF PUBLIC WORKS  
420 COLLEGE STREET S.E.  
LACEY, WA 98503 (360) 491-5600



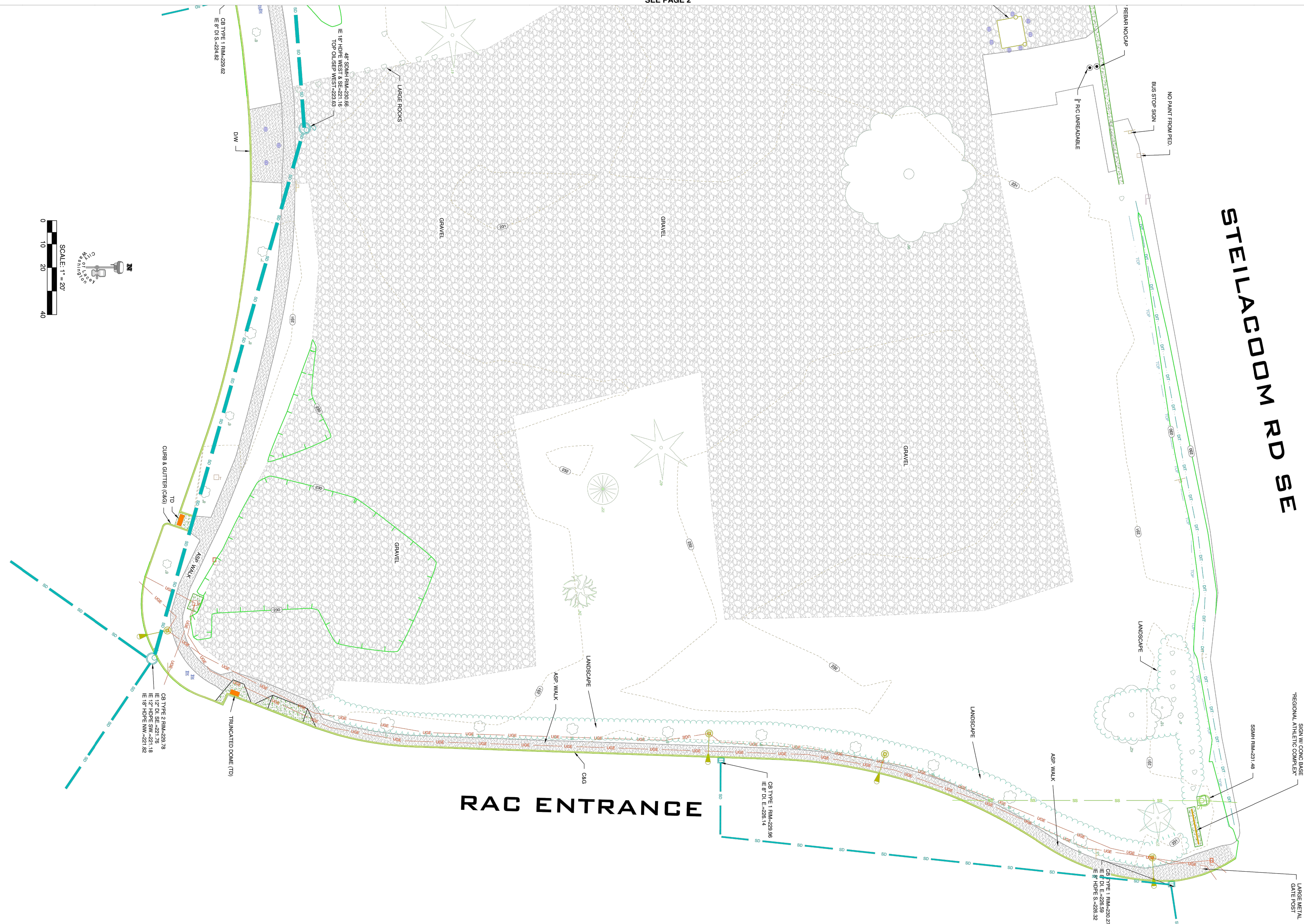
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Sheet: 4 of 44  
**TOPOGRAPHIC SURVEY**

REVISION BLOCK			DWG. NO.
NO.	DATE	DESCRIPTION	
			EX-02
			4 of 44





CITY OF LACEY, WASHINGTON  
DEPARTMENT OF PUBLIC WORKS  
420 COLLEGE STREET S.E.  
LACEY, WA 98503 (360) 491-5600



DATE: 06-07-2021  
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# TOPOGRAPHIC SURVEY

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DWG. NO.  
EX-03  
5 of 44




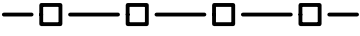

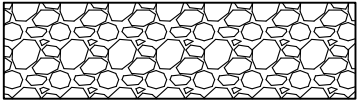
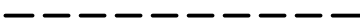
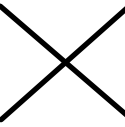







SEC. 14, T 18N., R 1W., W.M.



A horizontal number line with three tick marks. The first tick mark is labeled '0', the second is labeled '40', and the third is labeled '80'. Below the number line, the text 'SCALE IN FEET' is centered.

### LEGEND


- |   |   |
|---|---|
|    | INLET SEDIMENT PROTECTION: SEE EC-02                                    |
|    | INLET SEDIMENT PROTECTION FOR EXISTING STORMWATER STRUCTURES: SEE EC-02 |
|    | EXISTING CATCH BASIN  |
|    | SILT FENCE: SEE EC-02   |
|    | CLEARING AND GRUBBING LIMITS  |
|    | STABILIZED CONSTRUCTION ENTRANCE: SEE EC-02                             |
|    | SAWCUT  |
|    | EXISTING TREE AND ROOT BALL TO BE REMOVED AND BACK FILLED               |
|   | EXISTING GRAVEL TO BE REMOVED   |
|  | EXISTING ASPHALT/CONCRETE TO BE REMOVED                                 |
|  | TREE PROTECTION FENCING<br>SEE EC-02                                    |
|  | SITE BOUNDARY   |
|  | RIGHT OF WAY  |

**XX DEMOLITION NOTES:**


1. PSE GAS AND ELECTRICAL EQUIPMENT AND ASSOCIATED FENCE AND BOLLARDS SHALL BE REMOVED; CONTRACTOR SHALL COORDINATE WITH PSE. (PAID AS REMOVAL OF STRUCTURES AND OBSTRUCTIONS)
2. IRRIGATION VALVES TO BE REMOVED AND RELOCATED; SEE LANDSCAPE PLANS
3. SPRINKLER HEAD TO BE REMOVED AND RELOCATED; SEE LANDSCAPE PLANS
4. PROTECT-IN-PLACE EXISTING STORM LINE AND STRUCTURES
5. REMOVE EXISTING ECOLOGY BLOCKS AND RETURN TO CITY OF LACEY. CONTRACTOR SHALL COORDINATE WITH CITY OF LACEY ON DELIVERY LOCATION. (PAID AS REMOVAL OF STRUCTURES AND OBSTRUCTIONS)
6. PROTECT-IN-PLACE DIGITAL MESSAGE BOARD AND ASSOCIATED WIRING
7. SAWCUT
8. SIGN REMOVAL (PAID AS REMOVAL OF STRUCTURES AND OBSTRUCTIONS)

CALL BEFORE YOU DIG

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

<div><div>SCJ ALLIANCE CONSULTING SERVICES</div><div>8730 TALLON LANE NE SUITE 200, LACEY, WA 98516 P: 360.532.1238 SCJALLIANCE.COM</div></div> <div><div></div><div>CITY OF LACEY, WASHINGTON DEPARTMENT OF PUBLIC WORKS 420 COLLEGE STREET S.E. LACEY, WA 98503-1238 (360) 491-5600</div></div>		REVISIONS		DATE	BY

DEMOLITION AND TESC PLAN		RAC PARKING LOT EXPANSION	
SHEET TITLE:		PROJECT NAME:	
8345 STEILACOOM RD SE LACEY, WA			

<div>SEAL:<div><div>WITTNEY G. HOLM</div><div>STATE OF WASHINGTON</div><div></div><div>48811 REGISTERED ENGINEER</div></div><div>09/13/2024</div></div>	
DESIGNER: K. GANS	
DRAWN BY: W. HOLM	
APPROVED BY: W. HOLM	
DATE: SEPT. 13, 2023	
JOB NO: 22-000313	
DRAWING FILE NO: 22-000313 EC-01	
DRAWING NO: EC-01	
SHEET NO: 06 OF 45	



CITY OF LACEY STANDARD EROSION CONTROL NOTES

- A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL) IS REQUIRED FOR ALL CONSTRUCTION PROJECTS. THE NAMED PERSON OR FIRM SHALL BE ON-SITE OR ON-CALL AT ALL TIMES. FOR THIS SITE, THE PERSON/FIRM IS \_\_\_\_\_ AND THEIR TELEPHONE NUMBERS ARE: (OFFICE:) \_\_\_\_\_ (CELL:) \_\_\_\_\_
- APPROVAL OF THIS EROSION & SEDIMENT CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
- THE CLEARING LIMIT BOUNDARIES SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
- THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE SURFACE WATER, GROUND WATER, OR DISCHARGE STANDARDS.
- THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
- THE ESC FACILITIES ON ACTIVE SITES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR--AND MAINTAINED, REPAIRED, OR AUGMENTED AS NECESSARY--TO ENSURE THEIR CONTINUED FUNCTIONING.
- THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED MONTHLY AND WITHIN 48 HOURS FOLLOWING A MAJOR STORM EVENT (≥1" RAINFALL IN 24 HOURS) BY THE APPLICANT/CONTRACTOR --AND MAINTAINED, REPAIRED, OR AUGMENTED AS NECESSARY --TO ENSURE THEIR CONTINUED FUNCTIONING. STORM DRAIN INLETS OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT STORMWATER RUNOFF DOES NOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR TREATED TO REMOVE SEDIMENT. AT NO TIME SHALL MORE THAN 1 FOOT OR 1/3 OF THE SUMP VOLUME (WHICHEVER IS LESS) OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PROJECT COMPLETION AND ACCEPTANCE. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER OFFSITE WITHOUT TREATMENT.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- ROADS SHALL BE CLEANED THOROUGHLY AS NEEDED TO PROTECT DOWNSTREAM WATER RESOURCES OR STORMWATER INFRASTRUCTURE. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR PICKUP SWEEPING AND SHALL BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- FROM OCTOBER 1 THROUGH APRIL 30, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN 2 DAYS. FROM MAY 1 TO SEPTEMBER 30, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN 7 DAYS. SOILS SHALL BE STABILIZED AT THE END OF THE SHIFT BEFORE A HOLIDAY OR WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST. LINEAR CONSTRUCTION ACTIVITIES, SUCH AS RIGHT-OF-WAY AND EASEMENT CLEARING, ROADWAY DEVELOPMENT, PIPELINES, AND TRENCHING FOR UTILITIES, SHALL COMPLY WITH THESE REQUIREMENTS. THESE STABILIZATION REQUIREMENTS APPLY TO ALL SOILS ON SITE, WHETHER AT FINAL GRADE OR NOT. THE LOCAL PERMITTING AUTHORITY MAY ADJUST THESE TIME LIMITS IF IT CAN BE SHOWN THAT A DEVELOPMENT SITE'S EROSION OR RUNOFF POTENTIAL JUSTIFIES A DIFFERENT STANDARD.
- FROM OCTOBER 1 THROUGH APRIL 30, CLEARING, GRADING, AND OTHER SOIL-DISTURBING ACTIVITIES SHALL ONLY BE PERMITTED IF SHOWN TO THE SATISFACTION OF THE LOCAL PERMITTING AUTHORITY THAT THE TRANSPORT OF SEDIMENT FROM THE CONSTRUCTION SITE TO RECEIVING WATERS WILL BE PREVENTED.

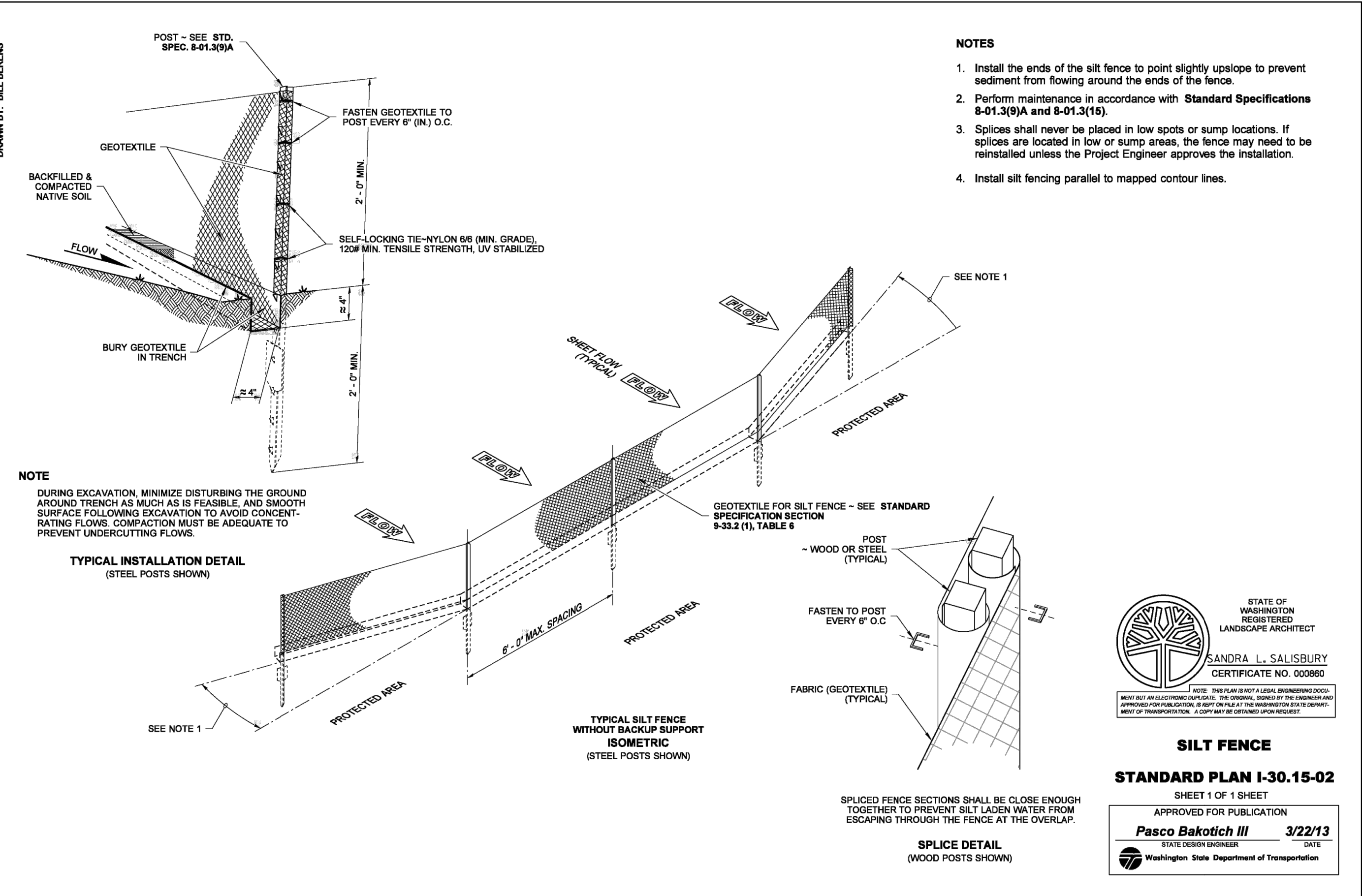
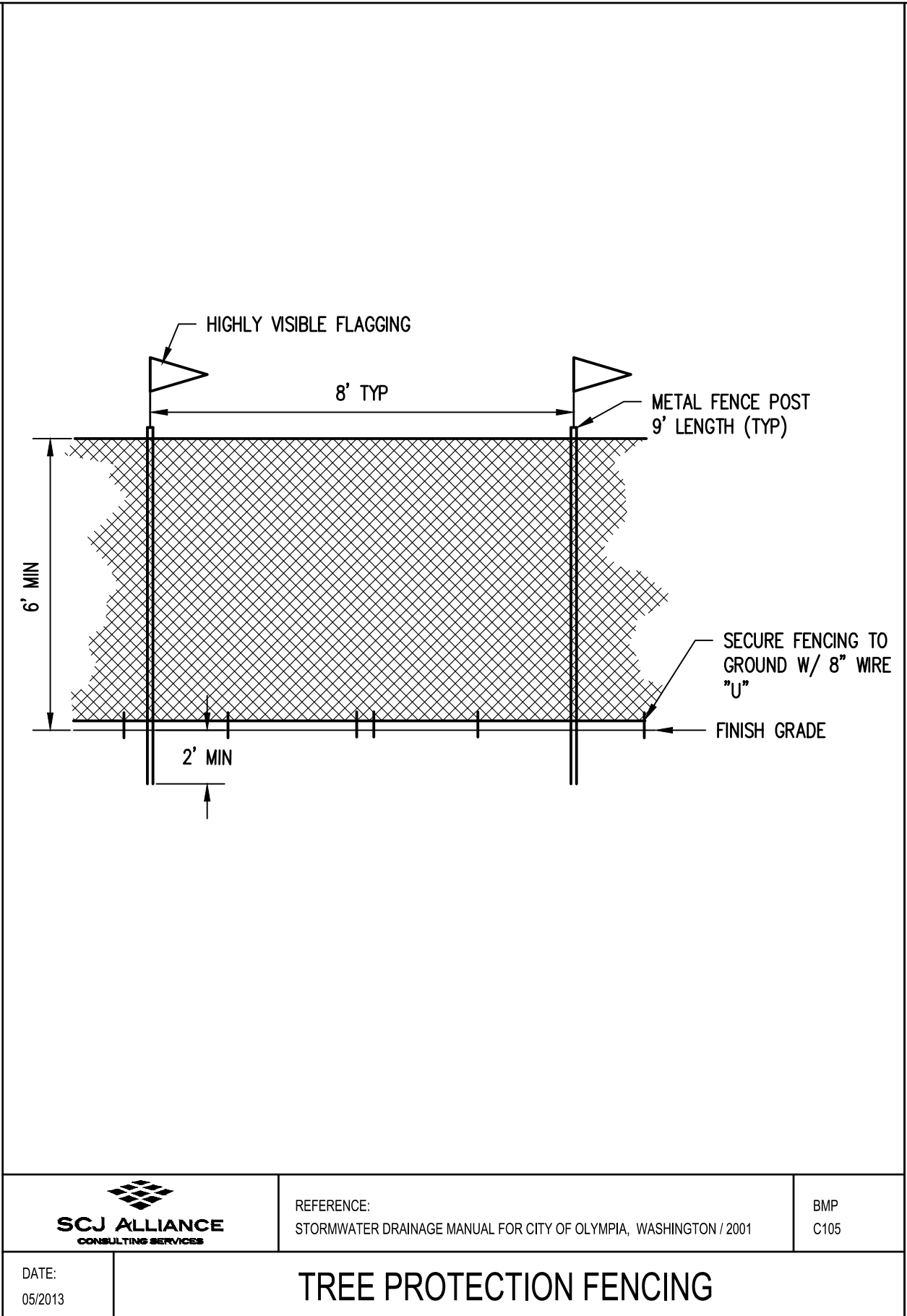
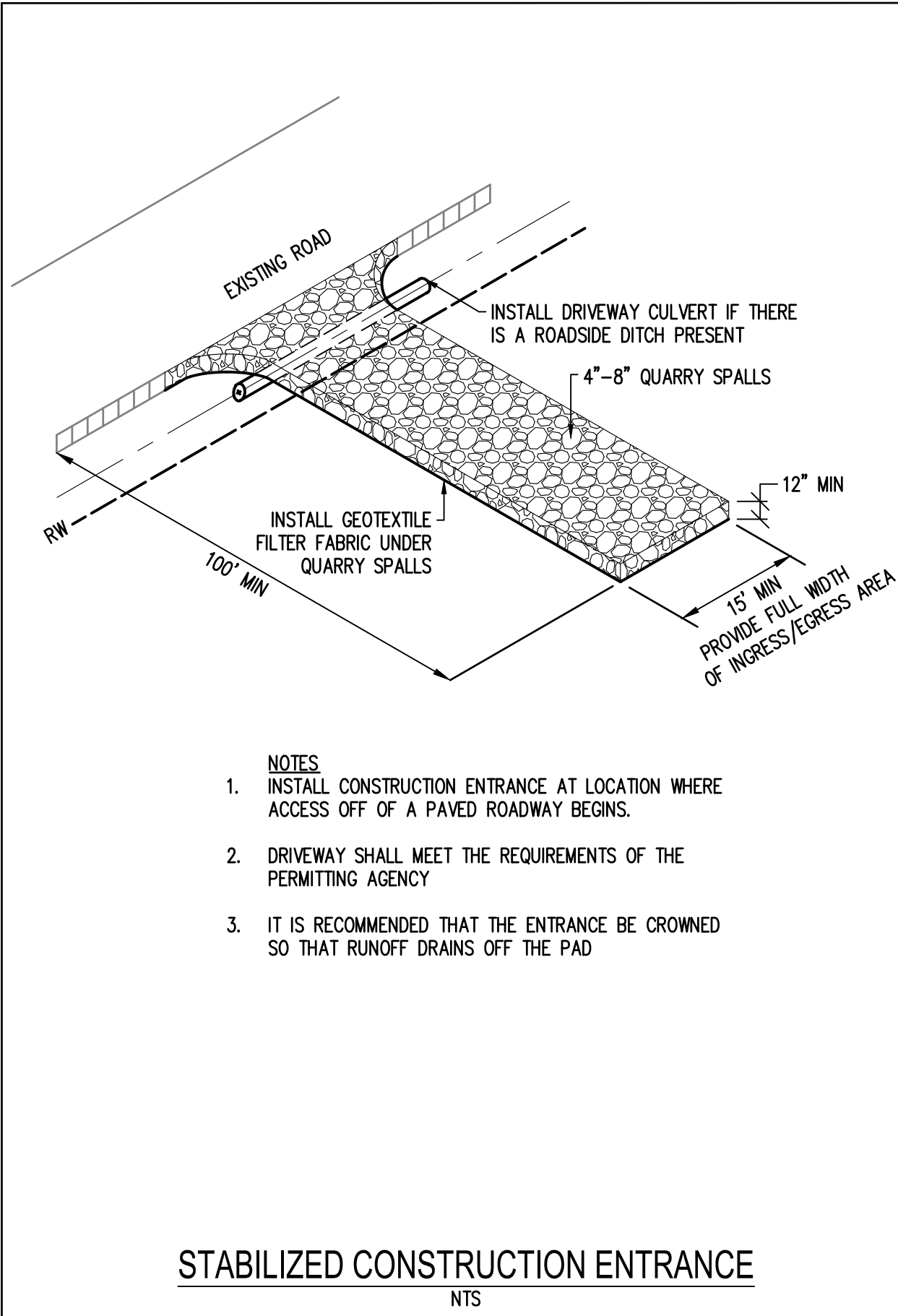
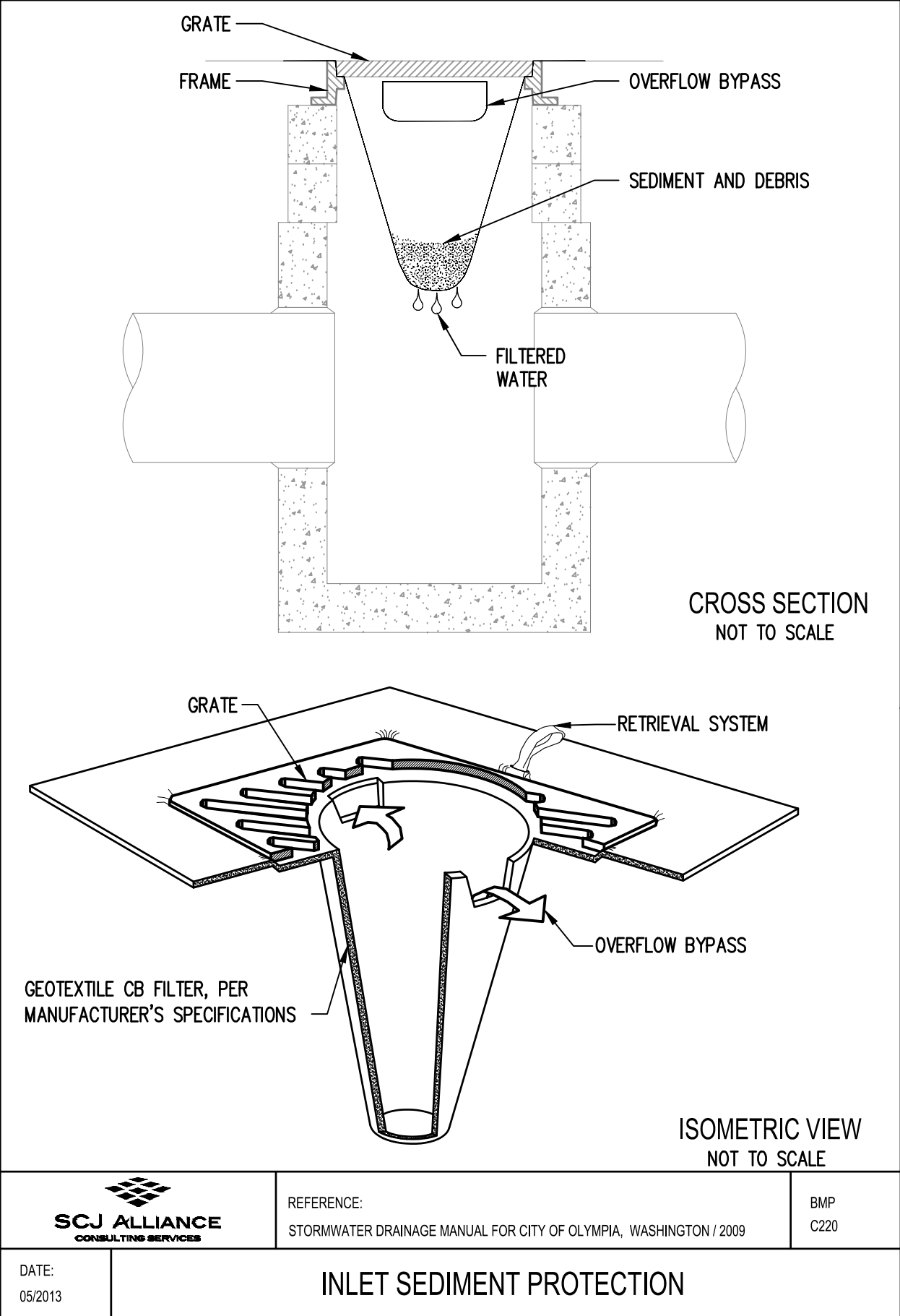
- SOIL STOCKPILES MUST BE STABILIZED AND PROTECTED WITH SEDIMENT-TRAPPING MEASURES.
- ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS, THAT OCCUR ON SITE DURING CONSTRUCTION SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER. WOODY DEBRIS MAY BE CHOPPED AND SPREAD ON SITE.
- MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES AND OTHER ACTIVITIES WHICH MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF MUST BE CONDUCTED USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. REPORT ALL SPILLS TO 911.
- WATER FROM MOST DEWATERING OPERATIONS SHALL BE DISCHARGED INTO A SEDIMENT TRAP OR POND. CLEAN, NON-TURBID WATER MAY BE DISCHARGED TO STATE SURFACE WATERS, PROVIDED THE DISCHARGE DOES NOT CAUSE EROSION OR FLOODING. HIGHLY TURBID OR CONTAMINATED DEWATERING WATER FROM CONSTRUCTION EQUIPMENT OPERATION, CLAMSHELL DIGGING, CONCRETE TREMIE POUR, OR WORK INSIDE A COFFERDAM SHALL BE HANDLED SEPARATELY FROM STORMWATER AND PROPERLY DISPOSED.

CITY OF LACEY SILT FENCE NOTES

- FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY FASTENED AT BOTH ENDS TO POST.
- POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 30 INCHES).
- A TRENCH SHALL BE EXCAVATED APPROXIMATELY 8 INCHES WIDE AND 12 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
- WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 20 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
- WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING IS USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ABOVE NOTES APPLYING.
- FILTER FABRIC FENCES SHALL NOT BE REMOVED BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
- FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

CITY OF LACEY INLET PROTECTION NOTES

- PLACE CONCRETE BLOCKS LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PRIMER OF THE INLET, SO THAT THE OPEN ENDS FACE OUTWARD, NOT UPWARD. THE ENDS OF ADJACENT BLOCKS SHALL ABUT. THE HEIGHT OF THE BARRIER CAN BE VARIED, DEPENDING ON DESIGN NEEDS, BY STACKING COMBINATIONS OF BLOCKS THAT ARE 4 INCHES, AND 12 INCHES WIDE, THE ROW OF BLOCKS SHALL BE AT LEAST 12 INCHES BUT NO GREATER THAN 24 INCHES HIGH.
- PLACE WIRE MESH OVER THE OUTSIDE VERTICAL FACE (OPEN END) OF THE CONCRETE BLOCKS TO PREVENT STONE FROM BEING WASHED THROUGH THE BLOCKS. USE HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENINGS.
- PILE STONE AGAINST THE WIRE MESH TO THE TOP OF THE BLOCKS. USE 3/4-TO 3-INCH GRAVEL.
- PLACE WIRE MESH OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FT BEYOND EACH SIDE OF THE INLET STRUCTURE, USE HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENINGS. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, OVERLAP THE STRIPS. PLACE FILTER FABRIC OVER WIRE MESH.
- PLACE 3/4-INCH GRAVEL OVER THE WIRE MESH. THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. EXTEND THE STONE BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
- IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT, THE STONES MUST BE PULLED AWAY FROM THE INLET AND CLEANED OR REPLACED.



EROSION CONTROL NOTES AND DETAILS

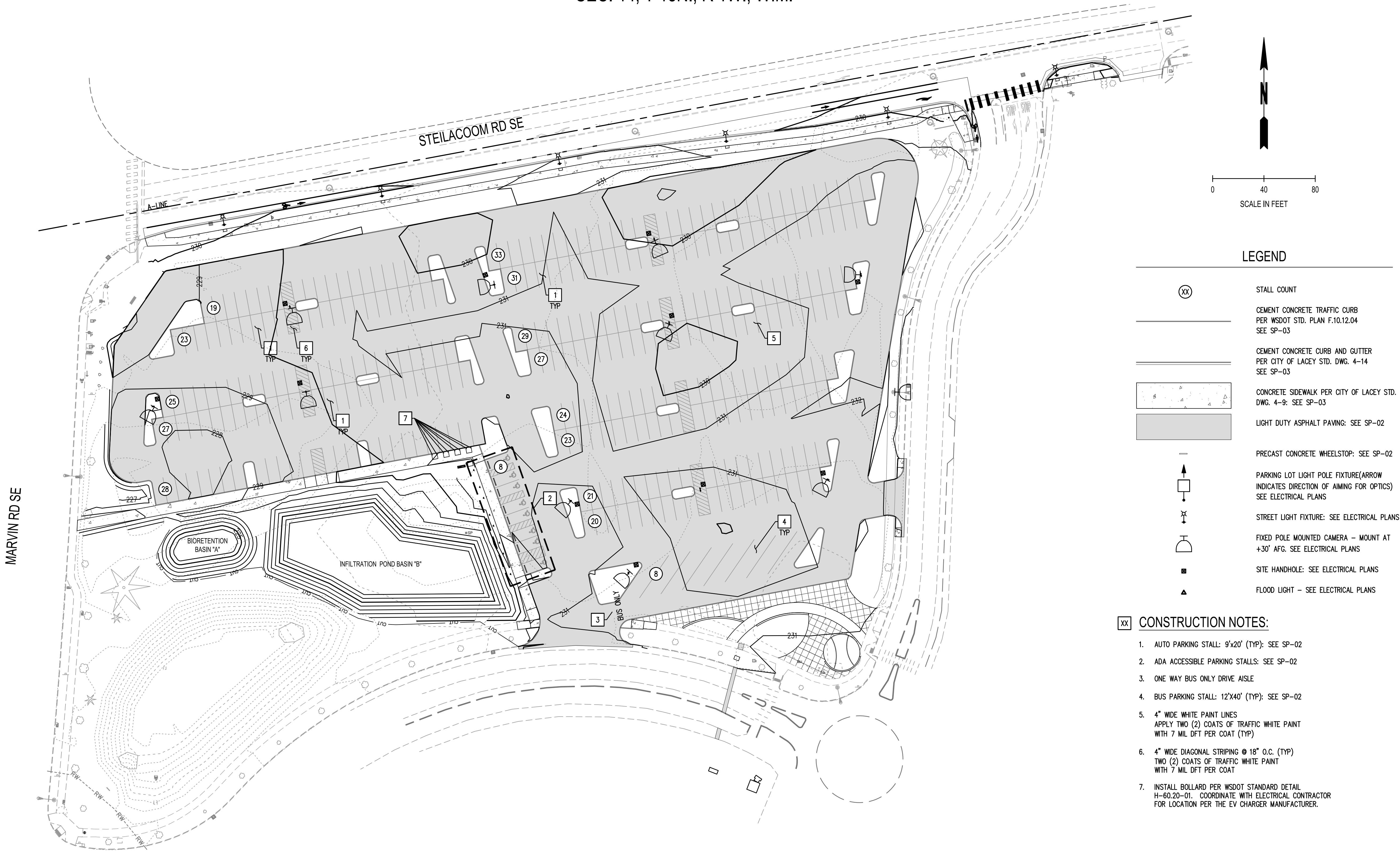
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PROJECT NAME: RAC PARKING LOT EXPANSION  
8345 STEILACOOM RD SE  
LACEY, WA

DESIGNER: K. GANS  
DRAWN BY: W. HOLM  
APPROVED BY: W. HOLM  
DATE: SEPT. 13, 2023  
JOB NO: 22-000313  
DRAWING FILE NO: 22-000313 EC-02  
DRAWING NO: EC-02  
SHEET NO: 07 OF 45

SEAL: **WHITNEY G. HOLM**  
STATE OF WASHINGTON  
REGISTERED  
PROFESSIONAL ENGINEER  
09/13/2023



SEC. 14, T 18N., R 1W., W.M.



### LEGEND

(XX)

STALL COUNT

CEMENT CONCRETE TRAFFIC CURB  
PER WSDOT STD. PLAN F.10.12.04  
SEE SP-03

CEMENT CONCRETE CURB AND GUTTER  
PER CITY OF LACEY STD. DWG. 4-14  
SEE SP-03

CONCRETE SIDEWALK PER CITY OF LACEY STD.  
DWG. 4-9: SEE SP-03

LIGHT DUTY ASPHALT PAVING: SEE SP-02

PRECAST CONCRETE WHEELSTOP: SEE SP-02

PARKING LOT LIGHT POLE FIXTURE (ARROW  
INDICATES DIRECTION OF AIMING FOR OPTICS)  
SEE ELECTRICAL PLANS

STREET LIGHT FIXTURE: SEE ELECTRICAL PLANS

FIXED POLE MOUNTED CAMERA - MOUNT AT  
+30' AFG. SEE ELECTRICAL PLANS

SITE HANDHOLE: SEE ELECTRICAL PLANS

FLOOD LIGHT - SEE ELECTRICAL PLANS

### CONSTRUCTION NOTES:

- AUTO PARKING STALL: 9'x20' (TYP): SEE SP-02
- ADA ACCESSIBLE PARKING STALLS: SEE SP-02
- ONE WAY BUS ONLY DRIVE AISLE
- BUS PARKING STALL: 12'x40' (TYP): SEE SP-02
- 4" WIDE WHITE PAINT LINES  
APPLY TWO (2) COATS OF TRAFFIC WHITE PAINT  
WITH 7 MIL DFT PER COAT (TYP)
- 4" WIDE DIAGONAL STRIPING @ 18" O.C. (TYP)  
TWO (2) COATS OF TRAFFIC WHITE PAINT  
WITH 7 MIL DFT PER COAT
- INSTALL BOLLARD PER WSDOT STANDARD DETAIL  
H-60.20-01. COORDINATE WITH ELECTRICAL CONTRACTOR  
FOR LOCATION PER THE EV CHARGER MANUFACTURER.

REVISIONS	DATE	BY

<b>SCJ ALLIANCE</b> CONSULTING SERVICES 8739 TALON LANE NE SUITE 200, LACEY, WA 98516 P: 360.352.2464 F: 360.352.1509 WWW.SCJALLIANCE.COM	<b>CITY OF LACEY WASHINGTON</b> DEPARTMENT OF PUBLIC WORKS 420 COLLEGE STREET S.E. LACEY, WA 98503-1238 (360) 491-5800
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<b>SITE AND PAVING PLAN</b>	<b>RAC PARKING LOT EXPANSION</b> 8345 STEILACOOM RD SE LACEY, WA
-----------------------------	--

SHEET TITLE:	PROJECT NAME:
SEAL:	
DESIGNER:	K. GANS
DRAWN BY:	W. HOLM
APPROVED BY:	W. HOLM
DATE:	SEPT. 13, 2023
JOB NO:	22-000313
DRAWING FILE NO:	22-000313 SP-01
DRAWING NO:	SP-01
SHEET NO:	08 OF 45

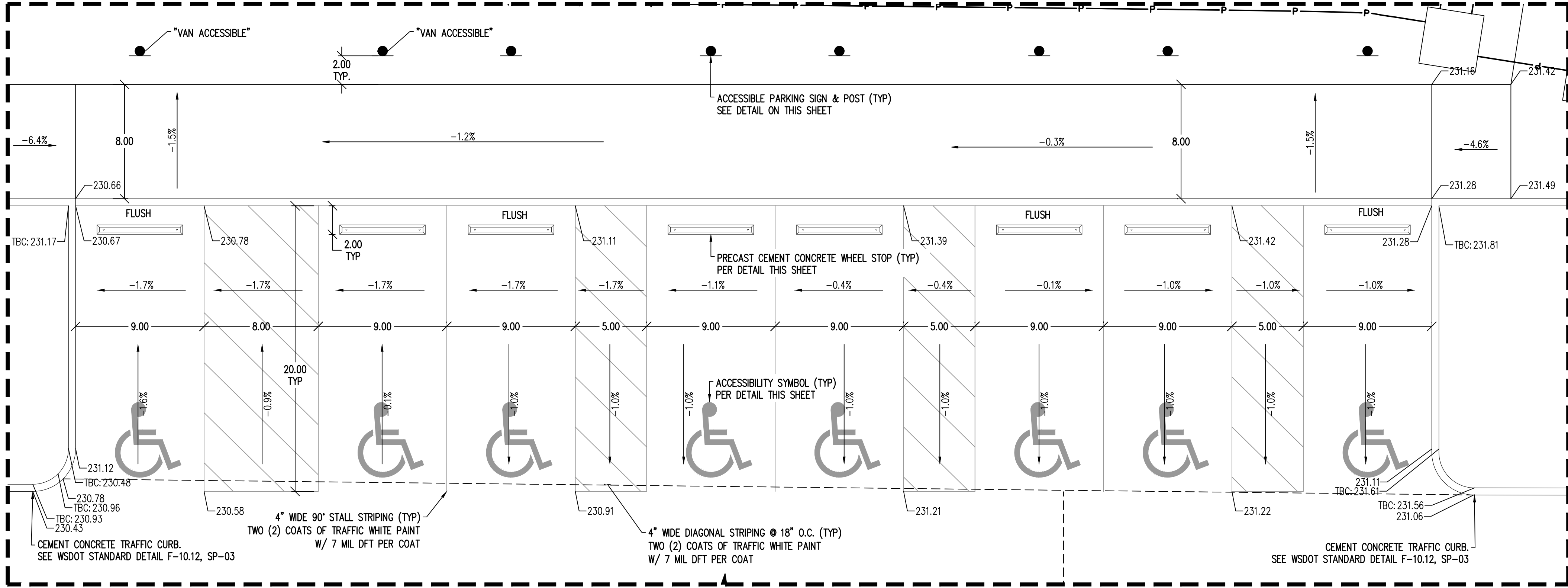
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NO PROJECTS OPENED CITY OF LACEY\22-000313 RAC PARKING LOT DESIGN\CADD\22-000313 SP-01.DWG

### CALL BEFORE YOU DIG

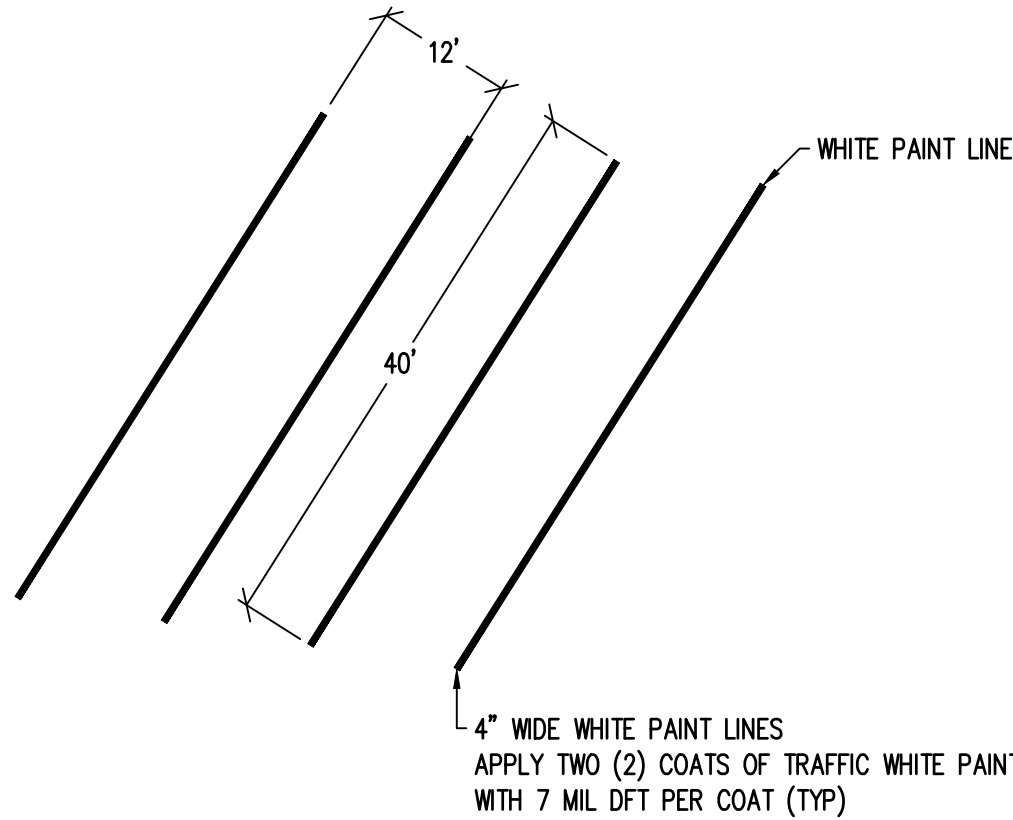
THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.



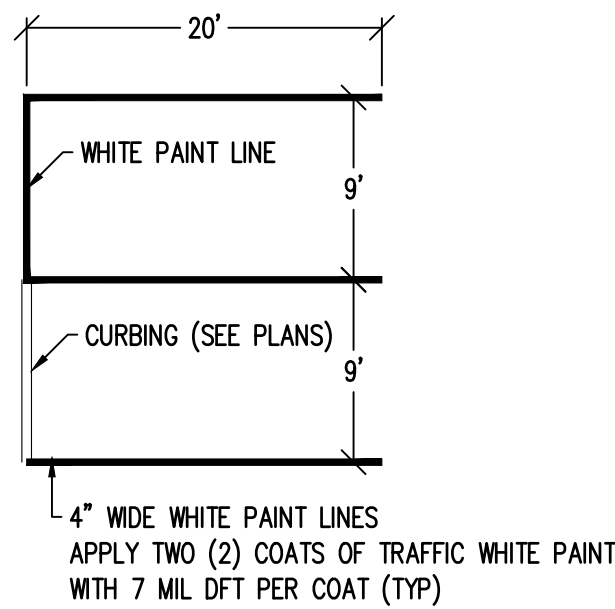
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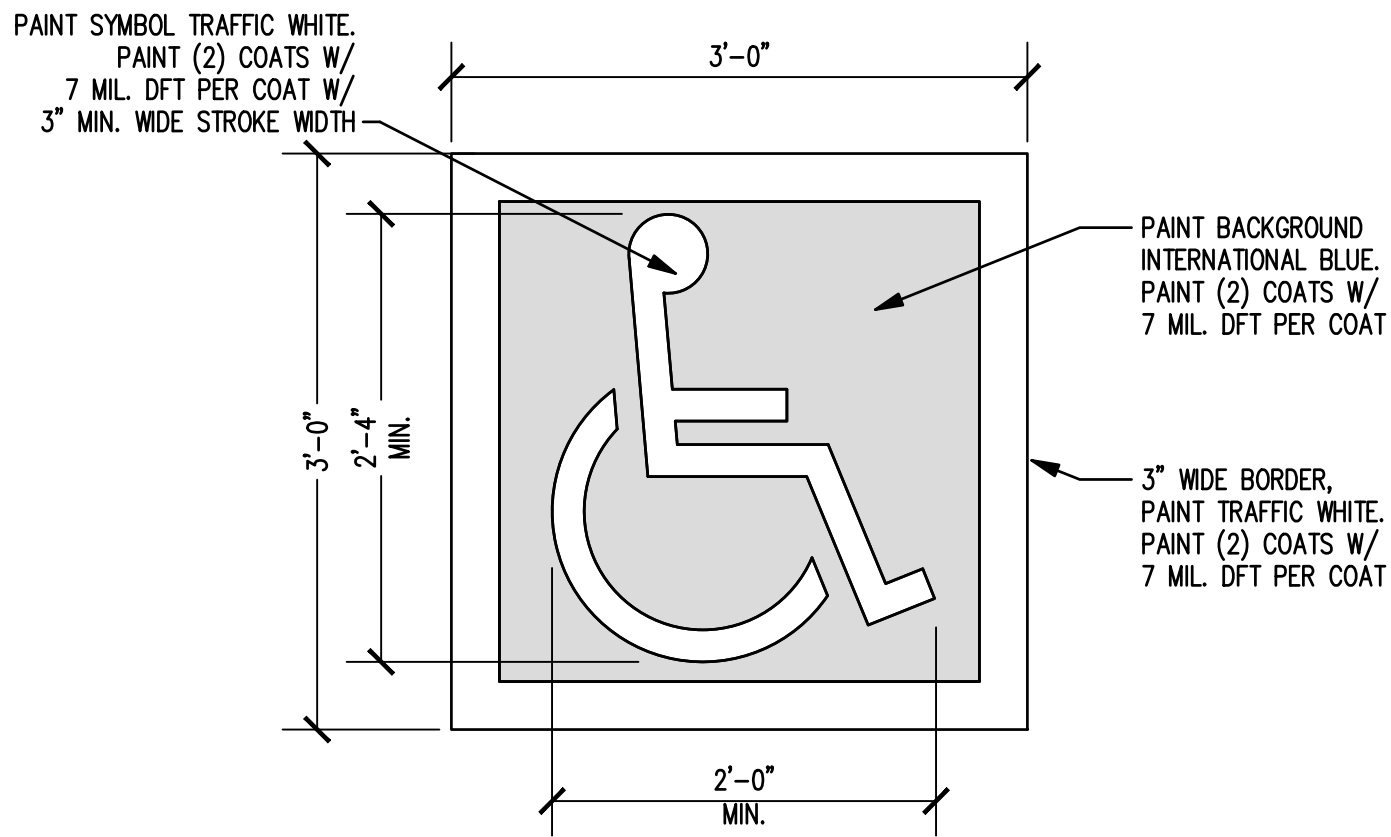
ACCESSIBLE PARKING STALLS  
 1" = 5'



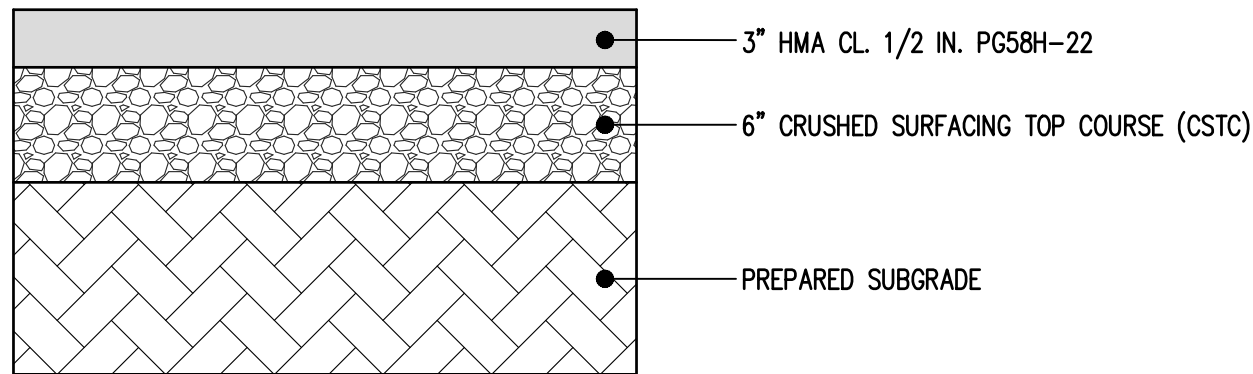
BUS PARKING STALL  
 NTS



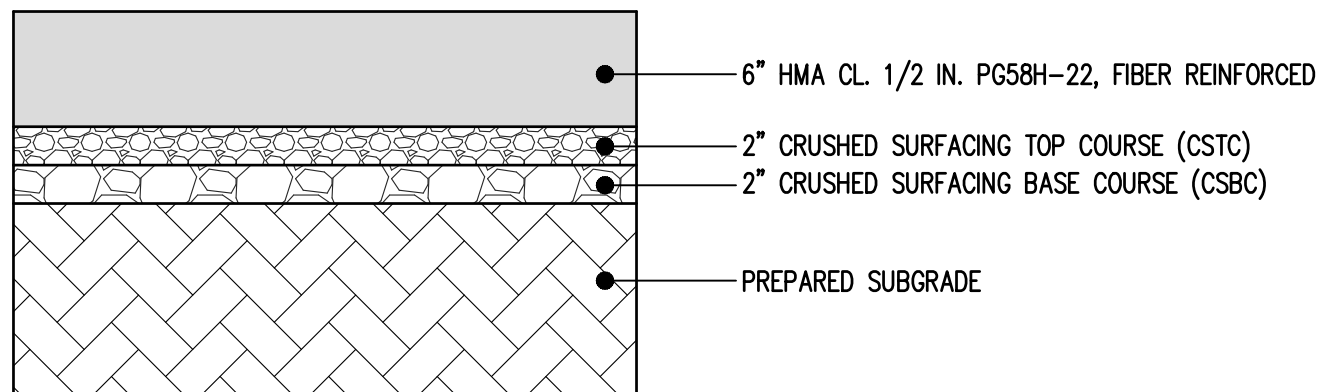
AUTO PARKING STALL  
 NTS



ACCESSIBILITY SYMBOL  
 NTS



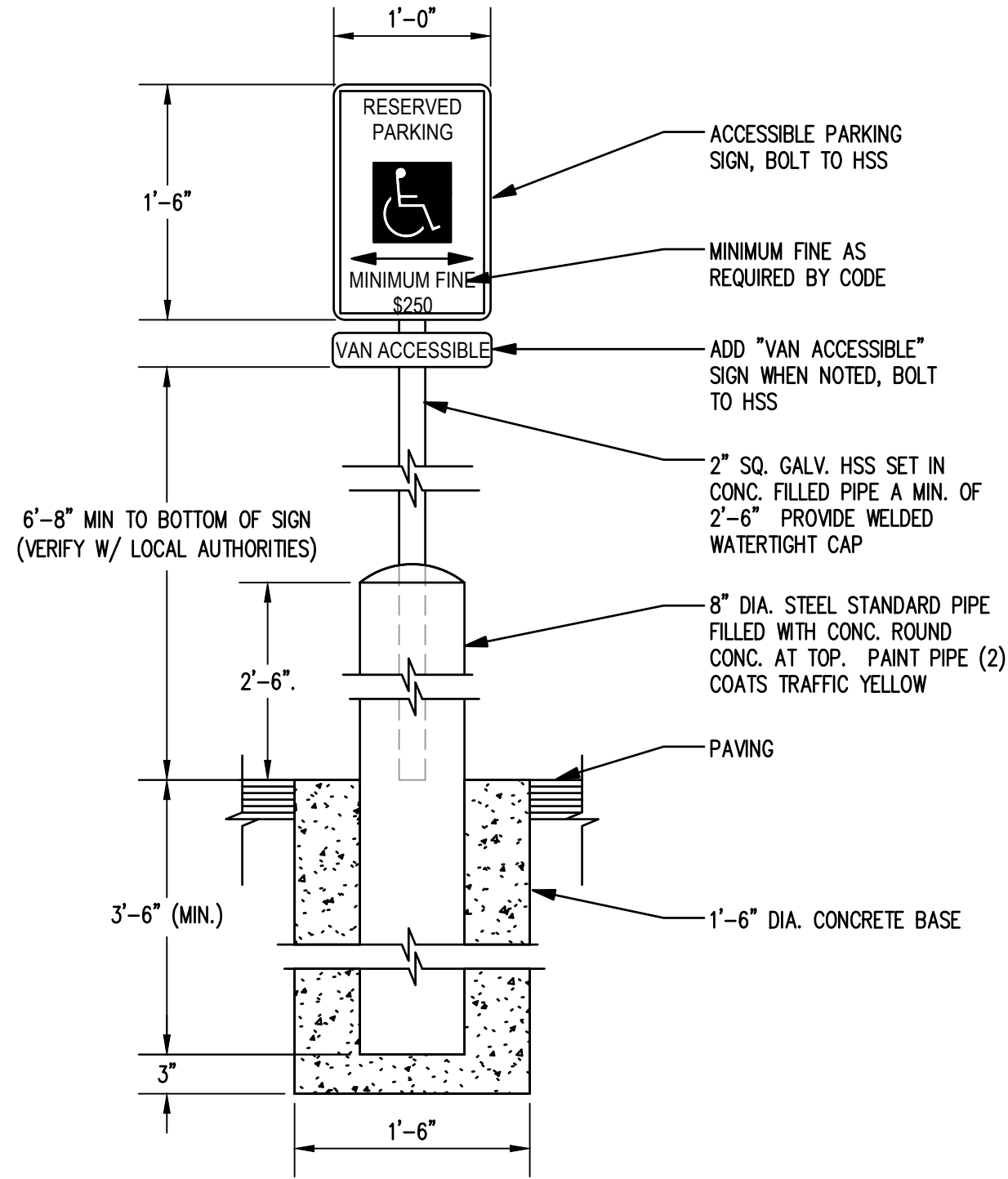
LIGHT DUTY ASPHALT PAVING  
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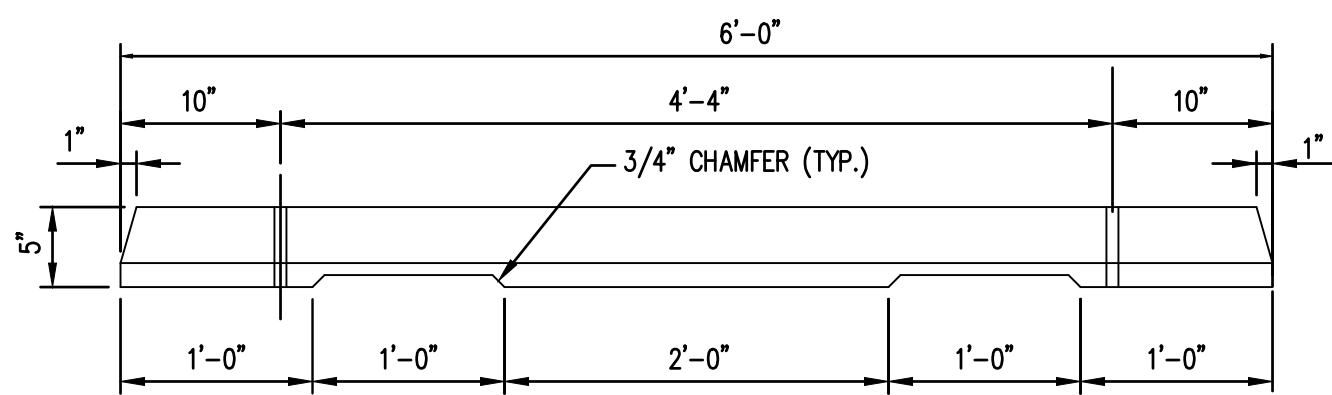
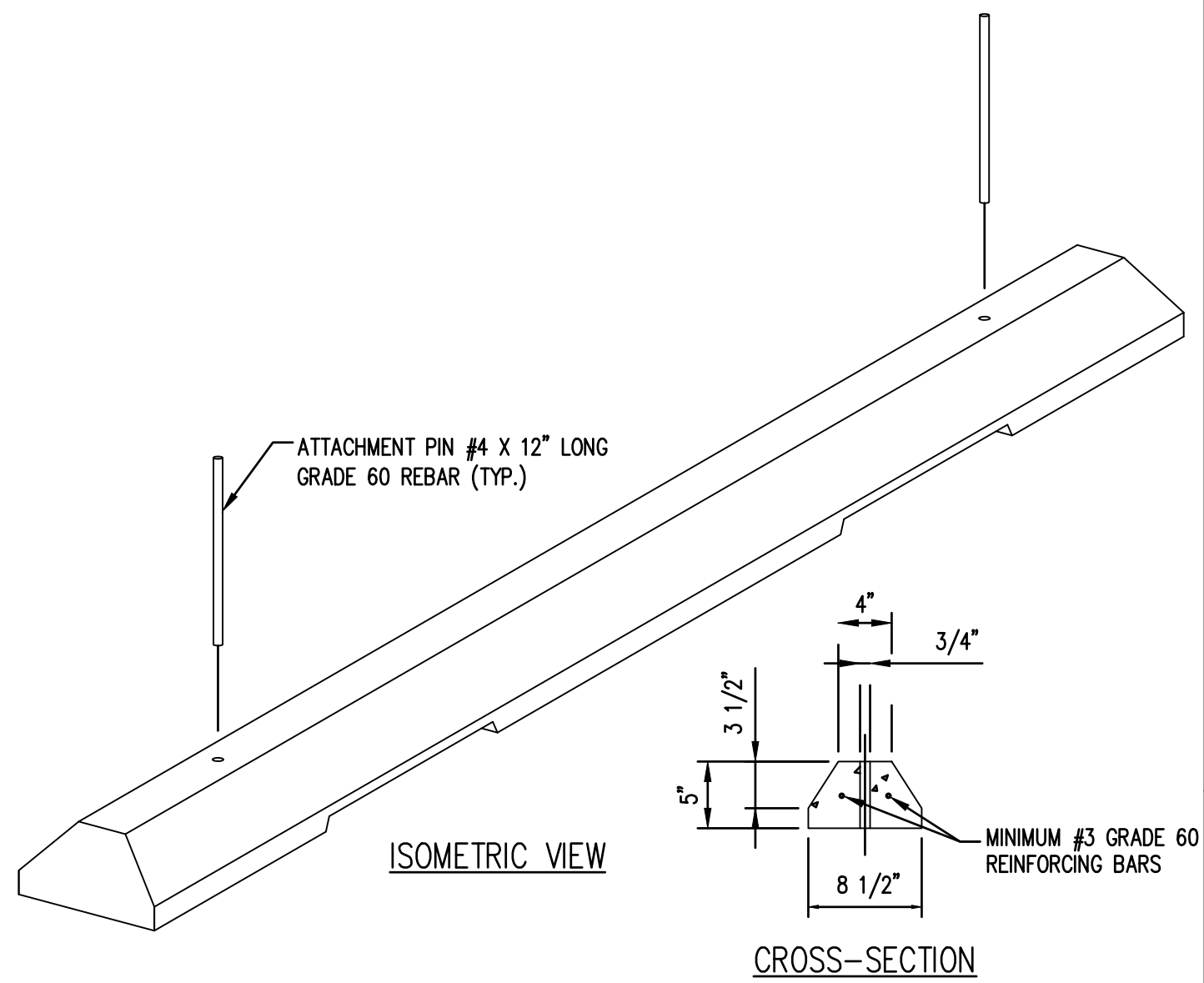
HEAVY DUTY ASPHALT PAVING  
 NTS

- NOTES
1. THE ASPHALT MIXTURE AND ASPHALT CEMENT SHALL CONFORM TO THE 2023 WSDOT STANDARD SPECIFICATION SECTION 5-04 FOR ASPHALT BINDER.
  2. MATERIALS SHALL MEET THE 2023 WSDOT STANDARD SPECIFICATION PROVIDED IN THE GEOTECHNICAL REPORT.
  3. MATERIALS AND CONSTRUCTION OF PAVEMENTS FOR PROJECT SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE GEOTECHNICAL ENGINEERING REPORT THAT WAS FINALIZED BY LANDAU ASSOCIATES INC, ON SEPTEMBER 1ST 2022.
  4. THE AGGREGATE BASE COURSE MATERIALS SHOULD BE PLACED ON A STABLE SUBGRADE AND COMPACTED TO AT LEAST 95 PERCENT OF THE MATERIAL'S MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557)

TYPICAL ASPHALT PAVEMENT SECTIONS  
 NTS



ACCESSIBLE PARKING SIGN AND POST  
 NTS



- GENERAL NOTES:
1. CONCRETE FOR WHEEL STOP: MINIMUM 3,000 PSI IN 28 DAYS
  2. REINFORCING STEEL: PER ASTM A615, GRADE 60
  3. ATTACHMENT PINS SHALL HAVE 7 INCH EMBEDMENT.

PRECAST CONCRETE WHEEL STOP  
 NTS

REVISIONS	DATE	BY

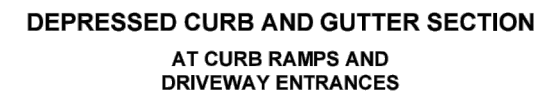
SCJ ALLIANCE  
CONSULTING SERVICES  
8730 TALON LANE NE SUITE 200, LACEY, WA 98516  
P: 360.752.2100 F: 360.752.1509

CITY OF LACEY, WASHINGTON  
DEPARTMENT OF PUBLIC WORKS  
420 COLLEGE STREET S.E.  
LACEY, WA 98503-1238 (360) 491-5800

SHEET TITLE:	SITE PLAN NOTES AND DETAILS
PROJECT NAME:	RAC PARKING LOT EXPANSION 8345 STEILACOOM RD SE LACEY, WA
DESIGNER:	K. GANS
DRAWN BY:	W. HOLM
APPROVED BY:	W. HOLM
DATE:	SEPT. 13, 2023
JOB NO:	22-000313
DRAWING FILE NO:	22-000313 SP-02
DRAWING NO:	SP-02
SHEET NO:	09 OF 45

09/13/2023





1. See **Standard Plan F-30.10** for Curb Expansion and Contraction Joint spacing. See **Standard Specification, Sections 8-04 and 9-04** for additional requirements.



SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION  
Date: 2020.09.24  
07:57:43 -07'00'

 STATE DESIGN ENGINEER  
Washington State Department of Transportation

DG4-14.DWG



1. EXPANSION JOINT MATERIAL TO BE 3/8" THICK PREMOLDED. JOINT FILLER FULL THICKNESS OF CONCRETE SPACING.
2. FORM AND SUBGRADE INSPECTION REQUIRED BEFORE POURING CONCRETE.
3. TYPE I USED ON OUTSIDE LANES.
4. TYPE II USED IN REVERSE SLOPE AREAS.
5. SEE 4B.025 FOR SPECIFICATIONS FOR CURBS AT MEDIANS.

12/15/2014 DG4-9.DWG



1. FORMS SHALL BE WOOD OR METAL AND SHALL EXTEND FOR THE FULL DEPTH OF THE CONCRETE. SEE SECTION 8-14.3(2).
2. ALL FORMS SHALL BE STRAIGHT, FREE FROM WARP, AND OF SUFFICIENT STRENGTH TO RESIST THE PRESSURE OF THE CONCRETE WITHOUT SPRING.
3. FOR JOINTS AND SCORING SEE DETAIL 4-10.
4. SIDEWALK DRIVEWAYS REQUIRE A MINIMUM DEPTH OF 6".
5. SEE ROADWAY SECTIONS FOR STREET TREE LOCATIONS.
6. THE TOP OR TOE OF ALL SLOPES SHALL BEGIN 2' BACK OF THE SIDEWALK OR THE RIGHT-OF-WAY LINE.
7. WHEN APPLICABLE THE RIGHT-OF-WAY LINE SHALL BE 1' BEHIND THE SIDEWALK.

**SHEET TITLE:**

## SITE PLAN DETAILS

**RAC PARKING LOT EXPANSION**  
8345 STEILACOOM RD SE  
LACEY, WA



09/13/2023

DESIGNER:

K. GANS

DRAWN BY:

W. HOLM

APPROVED BY:

W. HOLM

DATE: 08/12/12

SEP. 13,  
JOB NO.

JOB NO: 23 000312

DRAWING FILE

DRAWING FILE  
22-000313

DRAWING NO:

3

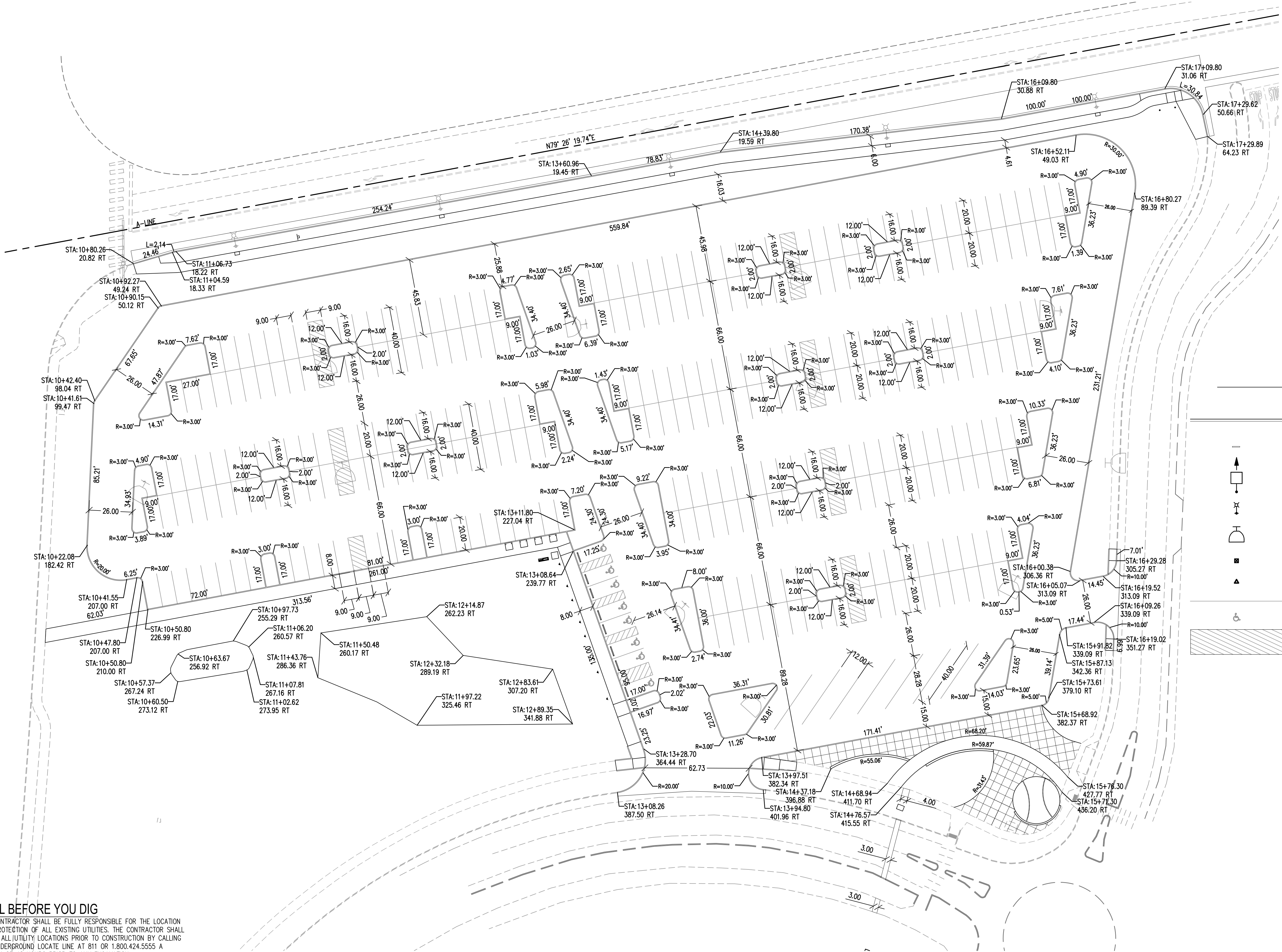
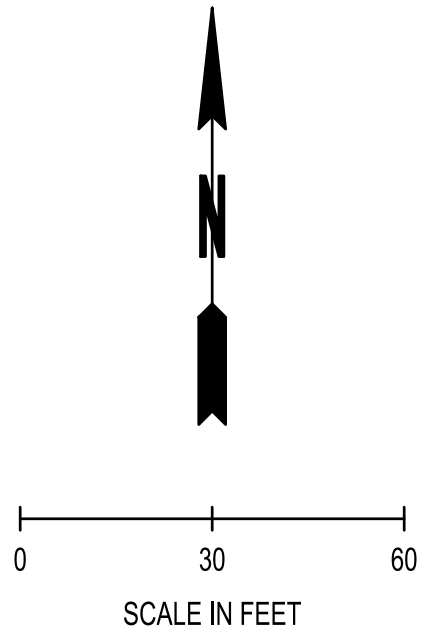
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SEC. 14, T 18N., R 1W., W.M.



LEGEND

- CEMENT CONCRETE CURB AND GUTTER  
PER CITY OF LACEY STD. DWG. 4-14  
SEE SP-03
- PRECAST CONCRETE WHEELSTOP: SEE SP-02
- PARKING LOT LIGHT POLE FIXTURE (ARROW  
INDICATES DIRECTION OF AIMING FOR OPTICS)  
SEE ELECTRICAL PLANS
- STREET LIGHT FIXTURE: SEE ELECTRICAL PLANS
- FIXED POLE MOUNTED CAMERA - MOUNT AT  
+30' AFG. SEE ELECTRICAL PLANS
- SITE HANDHOLE: SEE ELECTRICAL PLANS
- FLOOD LIGHT - SEE ELECTRICAL PLANS
- PARKING LOT STRIPING: SEE SP-01
- ADA SYMBOL: SEE SP-02
- CROSSWALK HATCH: SEE SP-01

BY	
DATE	
REVISIONS	
CITY OF LACEY, WASHINGTON DEPARTMENT OF PUBLIC WORKS 420 COLLEGE STREET S.E. LACEY, WA 98503-1238 (360) 491-5800	
HORIZONTAL CONTROL PLAN	
RAC PARKING LOT EXPANSION 8345 STEILACOOM RD SE LACEY, WA	
DESIGNER: K. GANS	
DRAWN BY: W. HOLM	
APPROVED BY: W. HOLM	
DATE: SEPT. 13, 2023	
JOB NO: 22-000313	
DRAWING FILE NO: 22-000313 HC-01	
DRAWING NO: HC-01	
SHEET NO: 11 OF 45	

SEP 13, 2023 3:15:26pm User: lachelle.holm  
NO PROJECTS OPENED CITY OF LACEY 12-000313 RAC PARKING LOT EXPANSION 12-000313 HC-01.DWG

CALL BEFORE YOU DIG

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.



STEILACOOM RD SE

SEE ENLARGEMENT ON SHEET CG-03

A-LINE

A horizontal number line with three tick marks. Below the first tick mark is the number 0. Below the second tick mark is the number 30. Below the third tick mark is the number 60. Below the number 30 is the text 'SCALE IN FEET'.

## LEGEND

XX  
XX  
XX  
XX

XX  
XX

XXX.XX

X%

CUT CUT CUT

FILL FILL FILL

EXISTING CONTOURS (MAJOR/MINOR)

PROPOSED CONTOURS (MAJOR/MINOR)

GRADE BREAK

SPOT ELEVATION

SLOPE LABEL

CUT LINE

FILL LINE

GENERAL NOTES:




1. SPOT ELEVATIONS REPRESENT FINISHED GRADE AT FLOW LINE UNLESS OTHERWISE NOTED
2. ACRONYMS FOR SPOT ELEVATIONS:
  - FG: FINISH GRADE
  - HP: HIGH POINT
  - LP: LOW POINT
  - MATCH EX: MATCH EXISTING GRADE
  - TBC: TOP BACK OF CURB
  - BW: BACK OF WALK

SEE ENLARGEMENT ON SHEET CG-02 -

SEE ENLARGEMENT ON  
SHEET CG-02

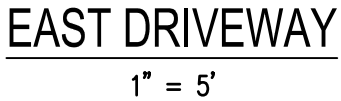
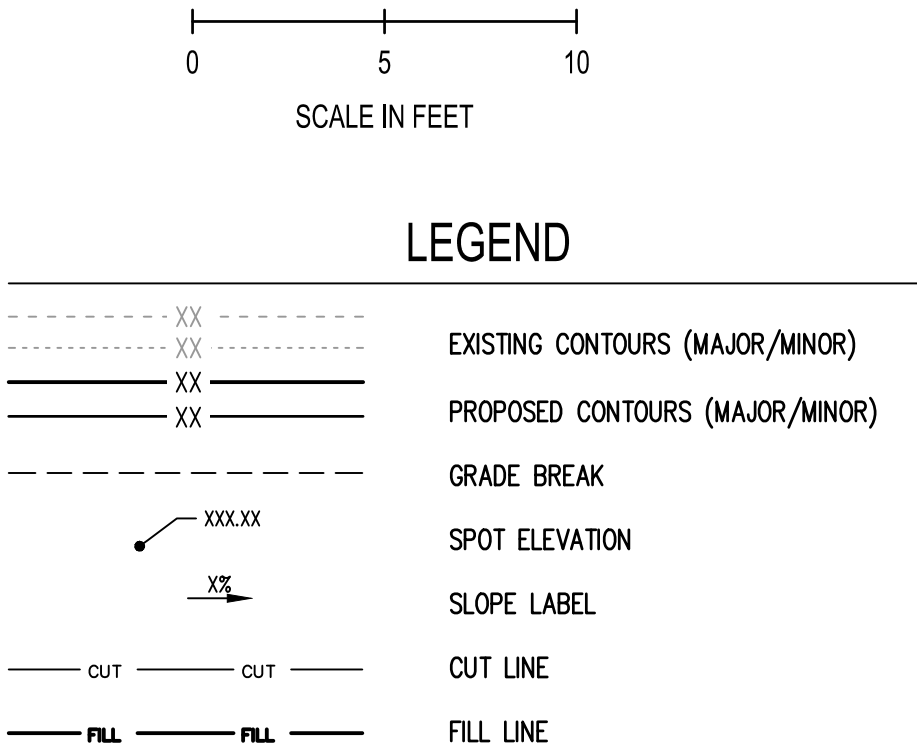
CALL BEFORE YOU DIG

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<div style="text-align: center;">  <p><b>SCJ ALLIANCE</b> CONSULTING SERVICES 8739 TAYLOR LANE NE, SUITE 200, LACEY, WA 98516 P: 360.521.1226 F: 360.521.1228 SCJALLIANCE.COM</p> </div>	<div style="text-align: center;">  <p><b>CITY OF LACEY, WASHINGTON</b> DEPARTMENT OF PUBLIC WORKS 420 COLLEGE STREET S.E. LACEY, WA 98503-1238 (360) 491-5800</p> </div>		DATE	BY
	<div style="text-align: center;">  <p><b>KEITH W. G. HOLM</b> STATE OF WASHINGTON PROFESSIONAL ENGINEER 48811 REG. EXPIRES 09/13/2023</p> </div>		REVISIONS	
<div style="text-align: center;"> <p><b>GRADING PLAN</b></p> <p><b>RAC PARKING LOT EXPANSION</b> 8345 STEILACOOM RD SE LACEY, WA</p> </div>				
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<div style="display: flex; justify-content: space-between;"> <div> <p>DESIGNER: K. GANS</p> <p>DRAWN BY: W. HOLM</p> <p>APPROVED BY: W. HOLM</p> <p>DATE: SEPT. 13, 2023</p> <p>JOB NO: 22-000313</p> <p>DRAWING FILE NO: 22-000313 CG-01</p> <p>DRAWING NO: CG-01</p> <p>SHEET NO: 12 OF 45</p> </div> <div> <p>09/13/2023</p> </div> </div>				



SEC. 14, T 18N., R 1W., W.M.



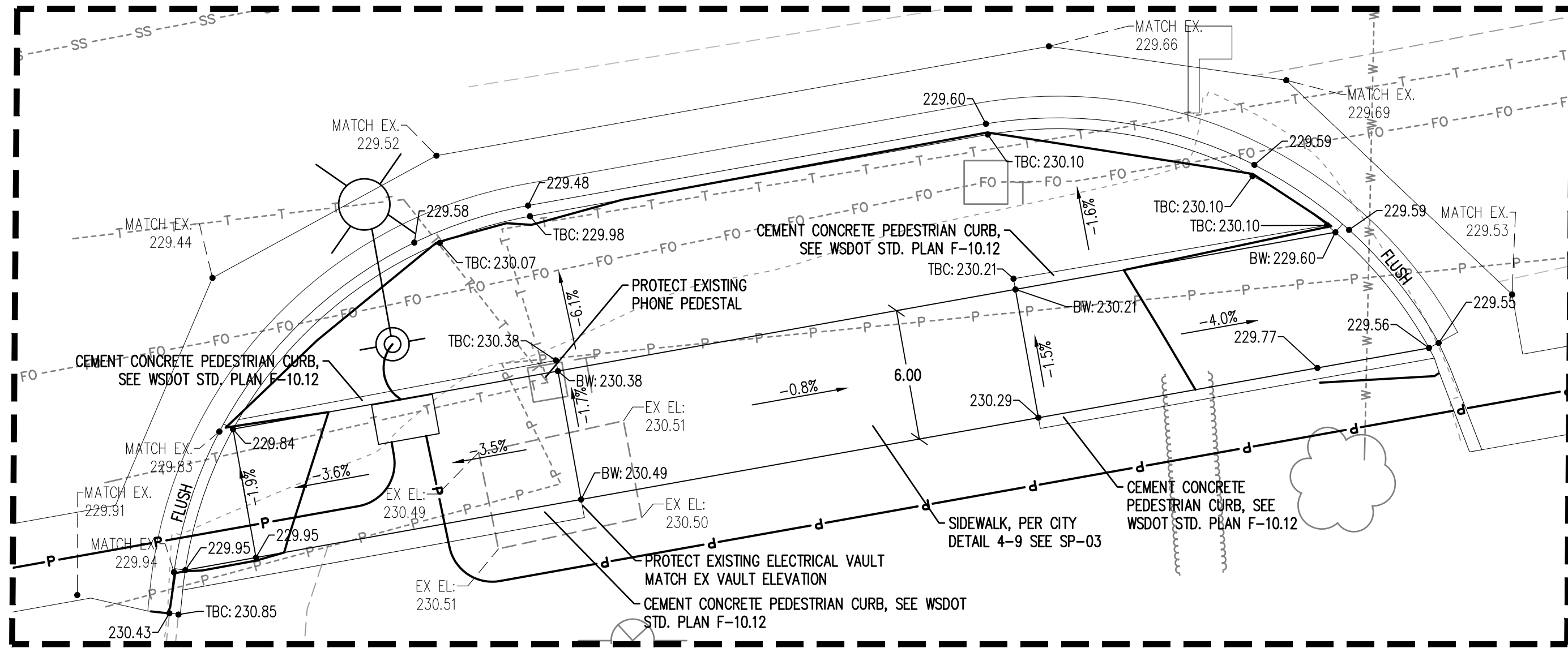
CALL BEFORE YOU DIG

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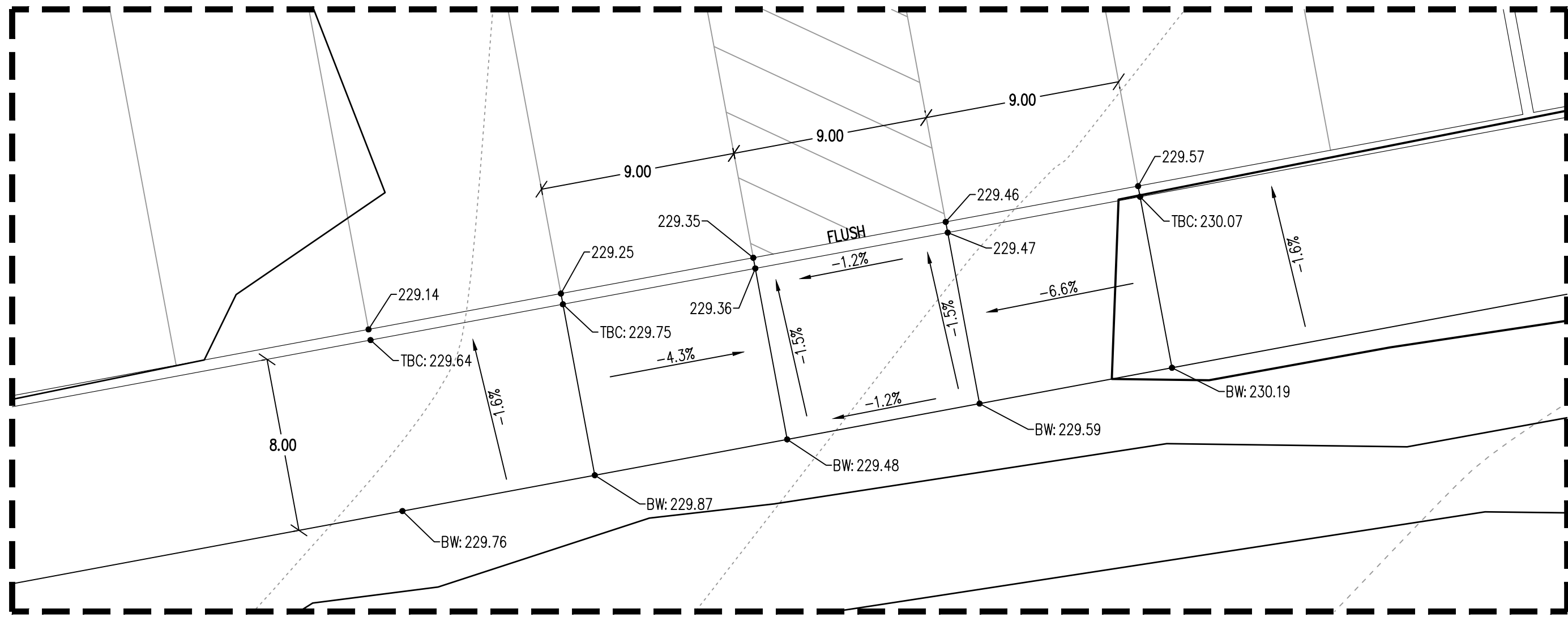
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SEC. 14, T 18N., R 1W., W.M.







## STEILACOOM ROAD WALKWAY

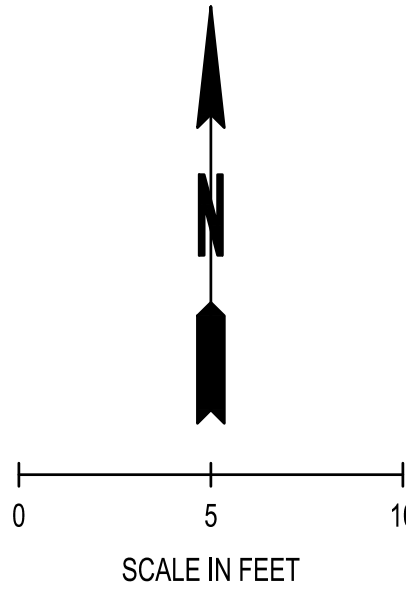
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NORTH ADA STALL

 $1'' = 5$ 

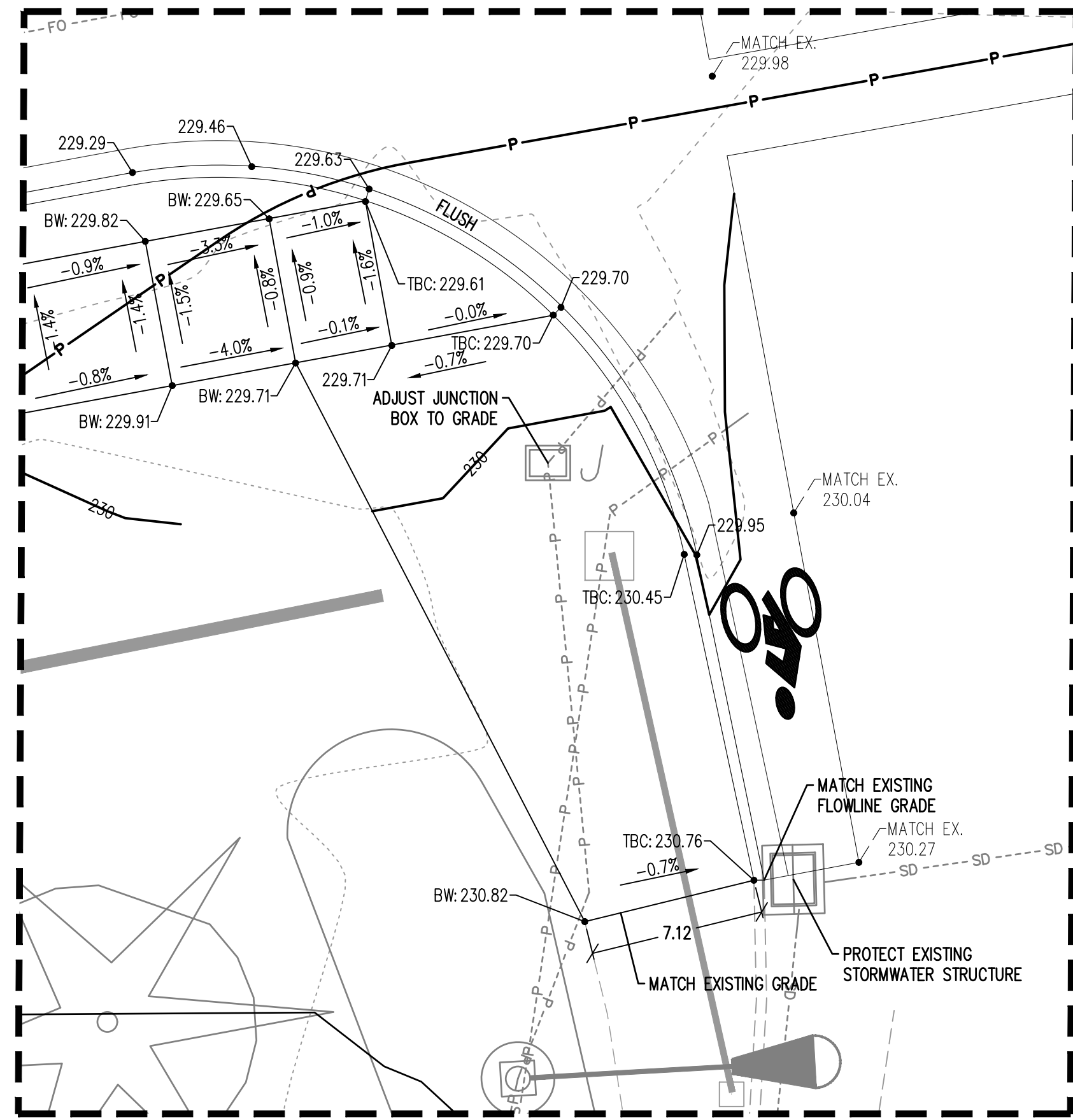
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	EXISTING CONTOURS (MAJOR/MINOR)
	PROPOSED CONTOURS (MAJOR/MINOR)
	GRADE BREAK
	SPOT ELEVATION
	SLOPE LABEL



## GENERAL NOTES

1. SPOT ELEVATIONS REPRESENT FINISHED GRADE AT FLOW LINE UNLESS OTHERWISE NOTED
2. ACRONYMS FOR SPOT ELEVATIONS:
  - FG: FINISH GRADE
  - HP: HIGH POINT
  - LP: LOW POINT
  - MATCH EX: MATCH EXISTING GRADE
  - TBC: TOP BACK OF CURB
  - BW: BACK OF WALK



STEILACOOM ROAD RAM

 $1'' =$ 

September 13, 2023 3:16:02pm - User kelcie.hopkins  
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CALL BEFORE YOU DIG

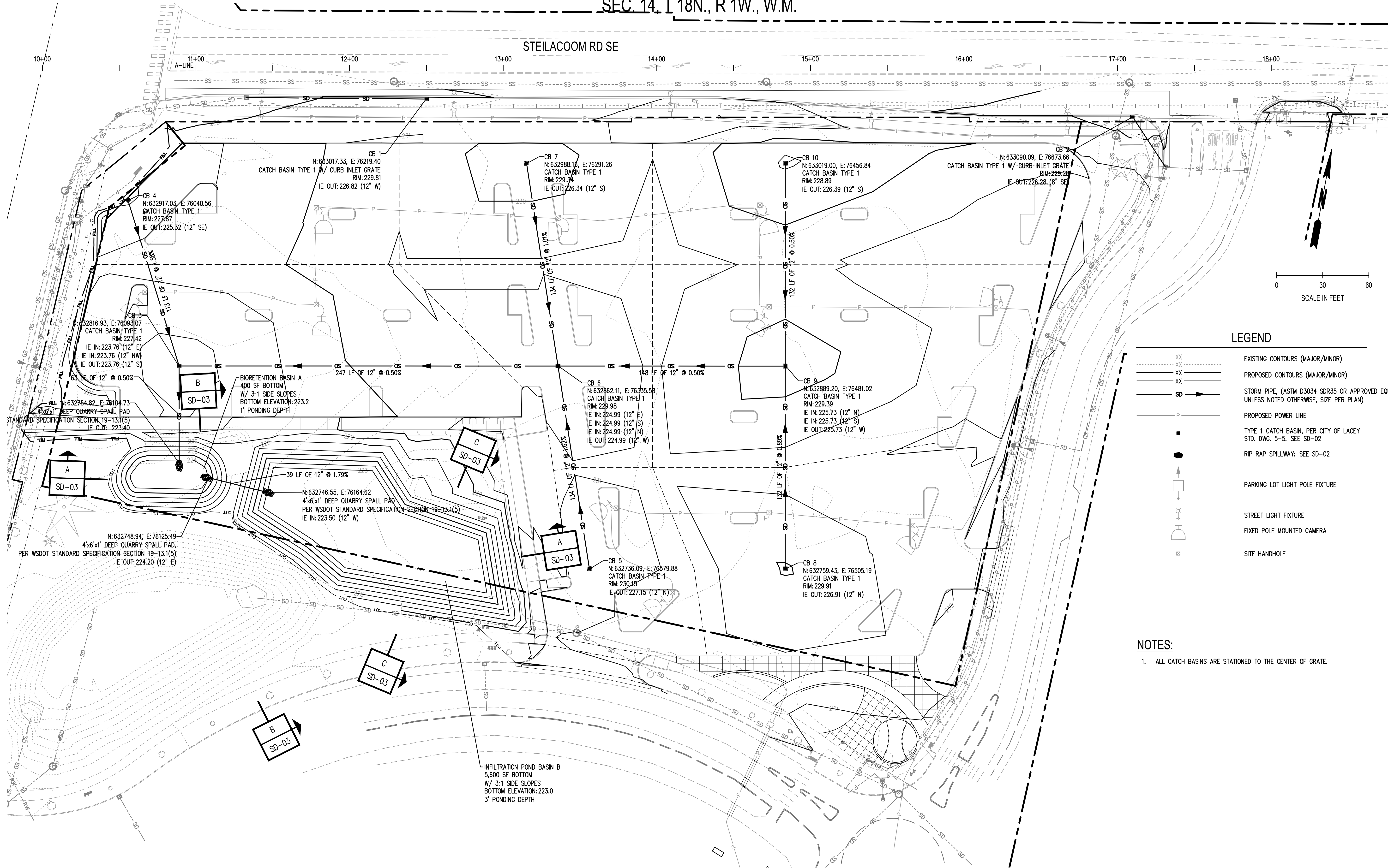
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SEC. 14, T 18N., R 1W., W.M.

STEILACOOM RD SE



LEGEND




- XX --- EXISTING CONTOURS (MAJOR/MINOR)
- XX --- PROPOSED CONTOURS (MAJOR/MINOR)
- SD --- STORM PIPE, (ASTM D3034 SDR35 OR APPROVED EQUAL UNLESS NOTED OTHERWISE, SIZE PER PLAN)
- P --- PROPOSED POWER LINE
- TYPE 1 CATCH BASIN, PER CITY OF LACEY
- STD. DWG. 5-5: SEE SD-02
- RIP RAP SPILLWAY: SEE SD-02
- PARKING LOT LIGHT POLE FIXTURE
- STREET LIGHT FIXTURE
- FIXED POLE MOUNTED CAMERA
- SITE HANDHOLE

NOTES:

- ALL CATCH BASINS ARE STATIONED TO THE CENTER OF GRATE.

CALL BEFORE YOU DIG

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

BY	
DATE	
REVISIONS	
 8739 TALLON LANE NE, SUITE 200, LACEY, WA 98516 P: 360.352.3400 F: 360.352.1509	
 CITY OF LACEY, WASHINGTON DEPARTMENT OF PUBLIC WORKS 420 COLLEGE STREET S.E. LACEY, WA 98503-1238 (360) 491-5800	
DRAINAGE PLAN	
RAC PARKING LOT EXPANSION 8345 STEILACOOM RD SE LACEY, WA	
SHEET TITLE:	
PROJECT NAME:	
SEAL:	 09/13/2023
DESIGNER:	K. GANIS
DRAWN BY:	W. HOLM
APPROVED BY:	W. HOLM
DATE:	SEPT. 13, 2023
JOB NO:	22-000313
DRAWING FILE NO:	22-000313 SD-01
DRAWING NO:	SD-01
SHEET NO:	15 OF 45



Sep 13, 2023 3:16:23pm - User: helman.julie  
 NO PROJECTS OPENED CITY OF LACEY 12-000313 RAC PARKING LOT DESIGN (CADD) 12-000313 SD-02.DWG

CITY OF LACEY GENERAL STORM DRAIN CONSTRUCTION NOTES

1. ALL APPROVALS AND PERMITS REQUIRED BY THE CITY OF LACEY SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. A GRADING PERMIT FOR STORM POND CONSTRUCTION MAY BE REQUIRED.
2. STORM DRAIN PIPE MATERIAL SHALL BE ON THE WSDOT QUALIFIED PRODUCTS LIST FOR THE SPECIFICATION LISTED BELOW AND APPROVED BY THE CITY PRIOR TO INSTALLATION:

A. PLAIN CONCRETE STORM SEWER PIPE OR REINFORCED CONCRETE STORM SEWER PIPE PER WSDOT STANDARD SPECIFICATION 9-05.7.

B. SOLID WALL PVC STORM SEWER PIPE PER WSDOT STANDARD SPECIFICATION 9-05.12(1).

C. DUCTILE IRON SEWER PIPE PER WSDOT STANDARD SPECIFICATION 9-05.13.

D. HANCOR BLUE SEAL™ AND ADVANCED DRAINAGE SYSTEMS (ADS/HANCOR) N-12 HDPE AND (ADS/HANCOR) SANITITE UP TO 36 INCH IN DIAMETER PER WSDOT STANDARD SPECIFICATIONS 9-05.20 AND 9-05.24.

E. ADVANCE DRAINAGE SYSTEMS (ADS) CORRUGATED POLYPROPYLENE PIPE (CPEP) FROM 42" TO 60" IN DIAMETER PER WSDOT 9-05.24 (1) FOR USE NOT IN RIGHT OF WAY.

F. CONTECH DUROMAXX STEEL RIB REINFORCED POLYETHYLENE PIPE, IN DIAMETERS FROM 24 INCH TO 60 INCH PER WSDOT STANDARD SPECIFICATION 9-05.22.
3. ALL STORM DRAINAGE SYSTEMS SHALL BE TESTED PER WSDOT STANDARD SPECIFICATION SECTION 7-04.3. TESTING SHALL BE DONE BY THE CONTRACTOR.
4. TESTING OF THE STORM SEWER SHALL INCLUDE VIDEO RECORDING OF THE MAIN BY THE CONTRACTOR, IMMEDIATELY PRIOR TO VIDEO RECORDING, ENOUGH WATER SHALL BE RUN DOWN THE LINE SO IT COMES OUT THE LOWER CATCH BASIN. A COPY OF THE VIDEO RECORDING SHALL BE SUBMITTED TO THE CITY OF LACEY. ACCEPTANCE OF THE LINE WILL NOT BE MADE UNTIL AFTER THE RECORDING HAS BEEN REVIEWED AND APPROVED BY THE CITY. TESTING SHALL TAKE PLACE AFTER ALL UNDERGROUND UTILITIES ARE INSTALLED AND COMPACTION OF THE ROADWAY SUBGRADE IS COMPLETE.
5. SPECIAL STRUCTURES, OIL/WATER SEPARATORS, AND OUTLET CONTROLS SHALL BE INSTALLED PER PLANS AND MANUFACTURERS' RECOMMENDATIONS. WHERE OIL/WATER SEPARATORS ARE CONNECTED TO A SEWER SYSTEM, THEY SHALL BE INSTALLED WITH A P-TRAP OR CHECK VALVE TO PREVENT ODORS.
6. ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH CORE REQUIREMENT 2 OF THE CURRENT CITY OF LACEY STORMWATER DESIGN MANUAL. FOR SITES WHERE VEGETATION HAS BEEN PLANTED THROUGH HYDROSEEDING, THE FINANCIAL GUARANTEE WILL NOT BE RELEASED UNTIL THE VEGETATION HAS BEEN THOROUGHLY ESTABLISHED.
7. WHERE CONNECTIONS REQUIRE "FIELD VERIFICATIONS", CONNECTION POINTS WILL BE EXPOSED BY CONTRACTOR AND FITTINGS VERIFIED 48 HOURS PRIOR TO DISTRIBUTING SHUT-DOWN NOTICES.
8. ALL CATCH BASINS/MANHOLES SHALL HAVE PADS PER LACEY STANDARD DETAIL.
9. ANY CHANGES TO THE DESIGN SHALL FIRST BE REVIEWED AND APPROVED IN WRITING BY THE PROJECT ENGINEER AND THE CITY OF LACEY.
10. ALL STORM PIPE SHALL BE A MINIMUM OF 12-INCH DIAMETER FOR MAINS AND 8- INCH DIAMETER FOR LATERALS CROSSINGS. WHEN PRIVATE STORMWATER (I.E. ROOF, LOT, OR FOOTING DRAINS) CANNOT BE INFILTRATED ON INDIVIDUAL LOTS, THE MINIMUM STANDARD PIPING CONNECTION TO THE PUBLIC SYSTEM SHALL BE 8- INCH PVC. THE 8-INCH MAIN USED FOR CONNECTION SHALL BEGIN AT THE RIGHT OF-WAY. THE CONNECTION TO THE CATCH BASIN OR MANHOLE SHALL BE CORED.
11. ALL STORM MAINS AND STORMWATER TREATMENT AND/OR FLOW CONTROL BMPS/FACILITIES AREAS SHALL BE STAKED FOR GRADE AND ALIGNMENT BY AN ENGINEERING OR SURVEY FIRM LICENSED TO PERFORM SUCH WORK.
12. THE MINIMUM STAKING OF STORM SEWER SYSTEMS SHALL BE AS FOLLOWS:

A. STAKE LOCATION OF ALL CATCH BASINS, MANHOLES, AND OTHER FIXTURES FOR GRADE AND ALIGNMENT.

B. STAKE LOCATION, SIZE, AND DEPTH OF STORMWATER TREATMENT AND/OR FLOW CONTROL BMPS/FACILITIES.

C. STAKE FINISHED GRADE OF ALL STORMWATER FEATURES, INCLUDING BUT NOT LIMITED TO CATCH BASIN/MANHOLE RIM ELEVATIONS, OVERFLOW STRUCTURES, WEIRS, AND INVERT ELEVATIONS OF ALL PIPES IN CATCH BASINS, MANHOLES, AND PIPES THAT DAYLIGHT.
13. PIPE SIZE, SLOPE, COVER, ETC., SHALL BE AS SPECIFIED IN THE CITY OF LACEY DEVELOPMENT GUIDELINES AND PUBLIC WORKS STANDARDS.
14. ALL DRIVEWAY CULVERTS SHALL BE OF SUFFICIENT LENGTH TO PROVIDE A MINIMUM 3:1 SLOPE FROM THE EDGE OF THE DRIVEWAY TO THE BOTTOM OF THE DITCH AT THE CULVERT END. CULVERTS SHALL HAVE BEVELED END SECTIONS TO MATCH THE SIDE SLOPE.
15. IF DRAINAGE OUTLETS (STUB-OUTS) ARE TO BE PROVIDED FOR EACH INDIVIDUAL LOT, THE STUB-OUTS SHALL CONFORM TO THE FOLLOWING:

A. EACH OUTLET SHALL BE SUITABLY LOCATED AT THE LOWEST ELEVATION ON THE LOT, SO AS TO SERVICE ALL FUTURE ROOF DOWNSPOUTS, FOOTING DRAINS, DRIVEWAYS, YARD DRAINS, AND ANY OTHER SURFACE OR SUBSURFACE DRAINS NECESSARY TO RENDER THE LOTS SUITABLE FOR THEIR INTENDED USE. EACH OUTLET SHALL HAVE FREE-FLOWING, POSITIVE DRAINAGE TO AN APPROVED STORM WATER CONVEYANCE SYSTEM OR TO AN APPROVED OUTFALL LOCATION.

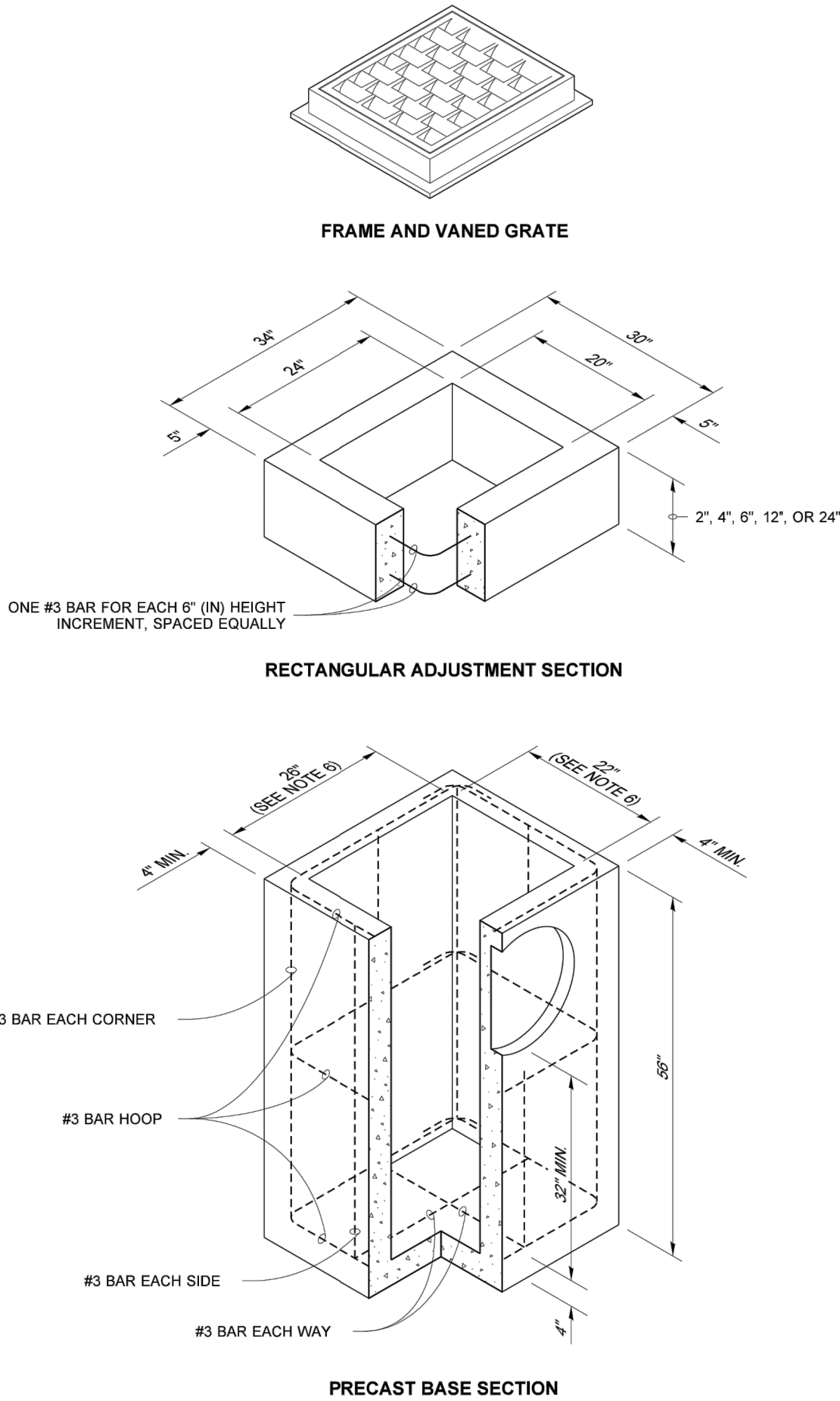
B. OUTLETS ON EACH LOT SHALL BE LOCATED WITH A FIVE-FOOT-HIGH, 2-INCH BY 4-INCH STAKE MARKED "STORM" OR "DRAIN." THE STUB-OUT SHALL VISIBLY EXTEND ABOVE SURFACE LEVEL AND BE SECURED TO THE STAKE.

C. DRAINAGE EASEMENTS ARE REQUIRED FOR DRAINAGE SYSTEMS DESIGNED TO CONVEY FLOWS THROUGH INDIVIDUAL LOTS.

D. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATIONS OF ALL STUB-OUT CONVEYANCE LINES WITH RESPECT TO THE UTILITIES (E.G., POWER, GAS, TELEPHONE, TELEVISION).

E. ALL INDIVIDUAL STUB-OUTS SHALL BE PRIVATELY OWNED AND MAINTAINED BY THE LOT HOMEOWNER.
16. THE STORM DRAINAGE SYSTEM SHALL BE CONSTRUCTED ACCORDING TO APPROVED PLANS ON FILE WITH THE CITY. ANY MATERIAL DEVIATION FROM THE APPROVED PLANS WILL REQUIRE WRITTEN APPROVAL FROM THE CITY AND SHALL BE CORRECTED IN THE AS-BUILT DRAWINGS.
17. ALL AREAS SUBJECT TO CLEARING AND GRADING THAT HAVE NOT BEEN COVERED BY IMPERVIOUS SURFACE, INCORPORATED INTO A DRAINAGE FACILITY, OR ENGINEERED AS STRUCTURAL FILL OR SLOPE SHALL BE AMENDED IN ACCORDANCE WITH THE CURRENT CITY OF LACEY STORMWATER DESIGN MANUAL AND THEN SEEDED, PLANTED, AND MULCHED OR SIMILARLY STABILIZED AFTER CONSTRUCTION TO THE SATISFACTION OF THE CITY. FOR SITES WHERE GRASS HAS BEEN PLANTED THROUGH HYDROSEEDING, THE PERFORMANCE BOND WILL NOT BE RELEASED UNTIL THE GRASS HAS BEEN THOROUGHLY ESTABLISHED, UNLESS OTHERWISE APPROVED BY THE CITY.
18. ALL EROSION CONTROL AND STORMWATER FACILITIES SHALL BE REGULARLY INSPECTED AND MAINTAINED BY THE CONTRACTOR DURING THE CONSTRUCTION PHASE OF THE DEVELOPMENT PROJECT.
19. NO FINAL CUT OR FILL SLOPE SHALL EXCEED 2:1 WITHOUT STABILIZATION BY ROCKERY OR BY A STRUCTURAL RETAINING WALL.
20. THE PROJECT ENGINEER SHALL VERIFY THE LOCATIONS, WIDTHS, THICKNESSES, AND ELEVATIONS OF ALL EXISTING PAVEMENTS AND STRUCTURES, INCLUDING UTILITIES AND OTHER FRONTAGE IMPROVEMENTS, WHICH ARE TO INTERFACE WITH NEW WORK. THE CONTRACTOR SHALL PROVIDE ALL TRIMMING, CUTTING, SAW CUTTING, GRADING, LEVELING, SLOPING, COATING, AND OTHER WORK, INCLUDING MATERIALS AS NECESSARY TO CAUSE THE INTERFACE WITH EXISTING WORKS TO BE PROPER, WITHOUT CONFLICT, ACCEPTABLE TO THE ENGINEER AND THE CITY, COMPLETE IN PLACE, AND READY TO USE.
21. COMPACTION OF ALL FILL AREAS SHALL BE PER CURRENT APWA SPECIFICATIONS. FILL SHALL BE PROVIDED IN 6-INCH MAXIMUM LIFTS AND SHALL BE COMPACTED TO 95 PERCENT OF ITS MAXIMUM RELATIVE DENSITY. DEVIATION FROM THIS STANDARD MAY BE APPROVED BY THE DIRECTOR, OR DESIGNEE, WHERE RECOMMENDED BY THE LICENSED PROFESSIONAL ENGINEER FOR PLANNED OR EXISTING INFILTRATION FACILITIES.

DRAWN BY: LISA CYFORD

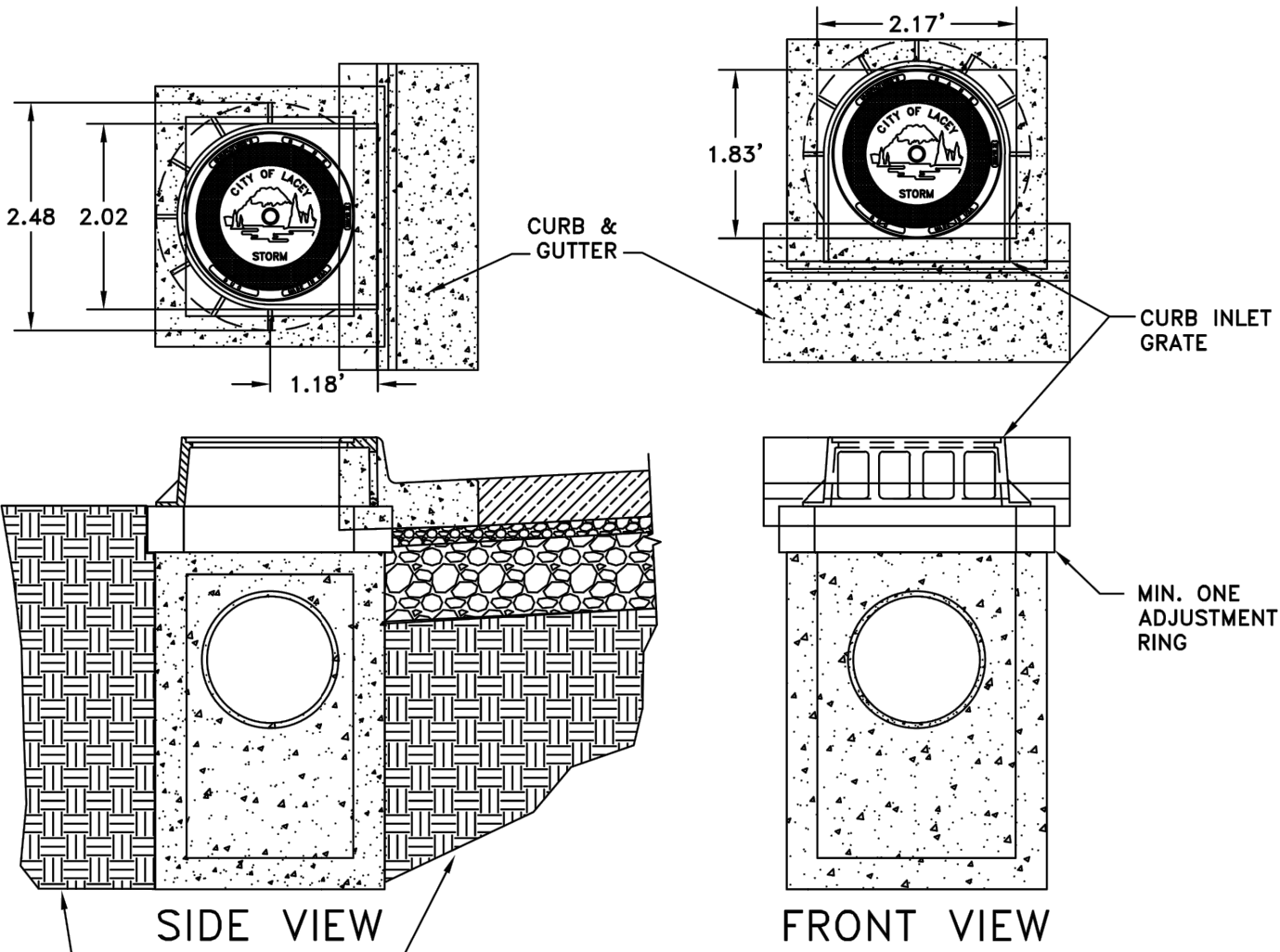
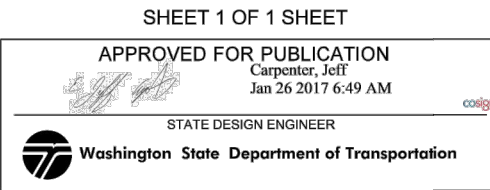


NOTES

1. As acceptable alternatives to the rebar shown in the **PRECAST BASE SECTION**, fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot, shall be used with the minimum required rebar shown in the **ALTERNATIVE PRECAST BASE SECTION**. Wire mesh shall not be placed in the knockouts.
2. The knockout diameter shall not be greater than 18" (in). Knockouts shall have a wall thickness of 2" (in) minimum to 2.5" (in) maximum. Provide a 1.5" (in) minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with **Standard Specification Section 9-04.3**.
3. The maximum depth from the finished grade to the lowest pipe invert shall be 5' (ft).
4. The frame and grate may be installed with the flange down, or integrally cast into the adjustment section with flange up.
5. The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1 : .24 or steeper.
6. The opening shall be measured at the top of the Precast Base Section.
7. All pickup holes shall be grouted full after the basin has been placed.



Julie Heilman  
Heilman, Julie  
Jan 25 2017 2:56 PM  
**CATCH BASIN TYPE 1P  
(FOR PARKING LOT)**  
**STANDARD PLAN B-5.60-02**



- GENERAL NOTES:
1. CONCRETE PADS FOR ALL CURB INLET BASINS SHALL BE A MINIMUM OF 3' X 3' X 8".
2. ALL STORM MANHOLE LID AND RING ASSEMBLIES SHALL BE EAST JORDAN IRON WORKS OR OLYMPIC FOUNDRY WITH CITY OF LACEY LOGO LIDS WHEN AVAILABLE.
3. ALL STORM MANHOLE LID AND RING ASSEMBLIES SHALL BE DUCTILE IRON AND MANUFACTURED IN THE USA.
4. THIS APPLICATION SHALL BE USED FOR INSTALLATIONS ON ARTERIALS AND BOULEVARDS OR WHEN STORM PIPING IS TOO SHALLOW TO MEET THE MINIMUM 2' OF COVER WHERE THE STORM PIPE ENDS UP IN THE ROADWAY STRUCTURE REGARDLESS OF THE TYPE OF PIPE BEING USED.
5. USE A 2" RECTANGULAR ADJUSTMENT SECTION TURNED LENGTHWISE TO ELIMINATE THE GAP UNDER THE FRAME.
6. DEVIATION FROM THE COMPACTION STANDARDS MAY BE APPROVED BY THE DIRECTOR, OR DESIGNEE, WHERE RECOMMENDED BY THE LICENSED PROFESSIONAL ENGINEER FOR PLANNED OR EXISTING INFILTRATION FACILITIES.

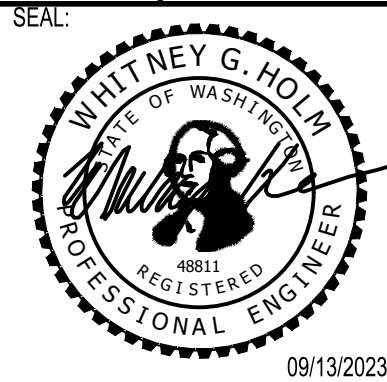


THE CITY OF LACEY LOGO LIDS SHALL BE USED WHEN AVAILABLE

CITY OF LACEY, WASHINGTON DEPT. OF PUBLIC WORKS			
CURB INLET GRATE & CATCH BASIN INSTALLATION			
APPROVED <i>Ben A. Schmitt</i> CITY ENGINEER		DWG. NO. 5-5	
DES WHO	DWN WHO	CKD RAS	DATE 08/24/2017

SHEET TITLE: STORM DRAINAGE NOTES AND DETAILS

PROJECT NAME:  
RAC PARKING LOT EXPANSION  
8345 STEILACOOM RD SE  
LACEY, WA

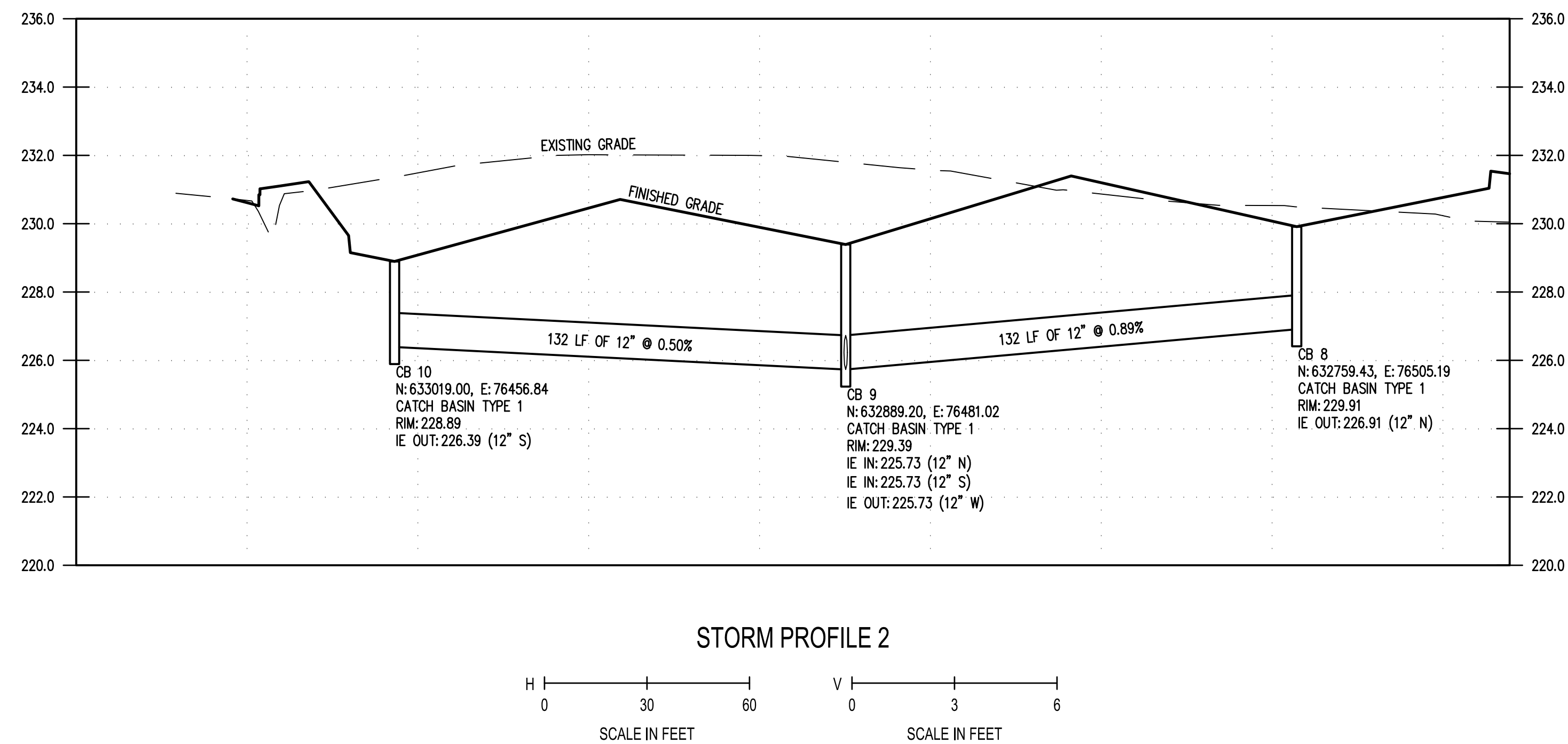
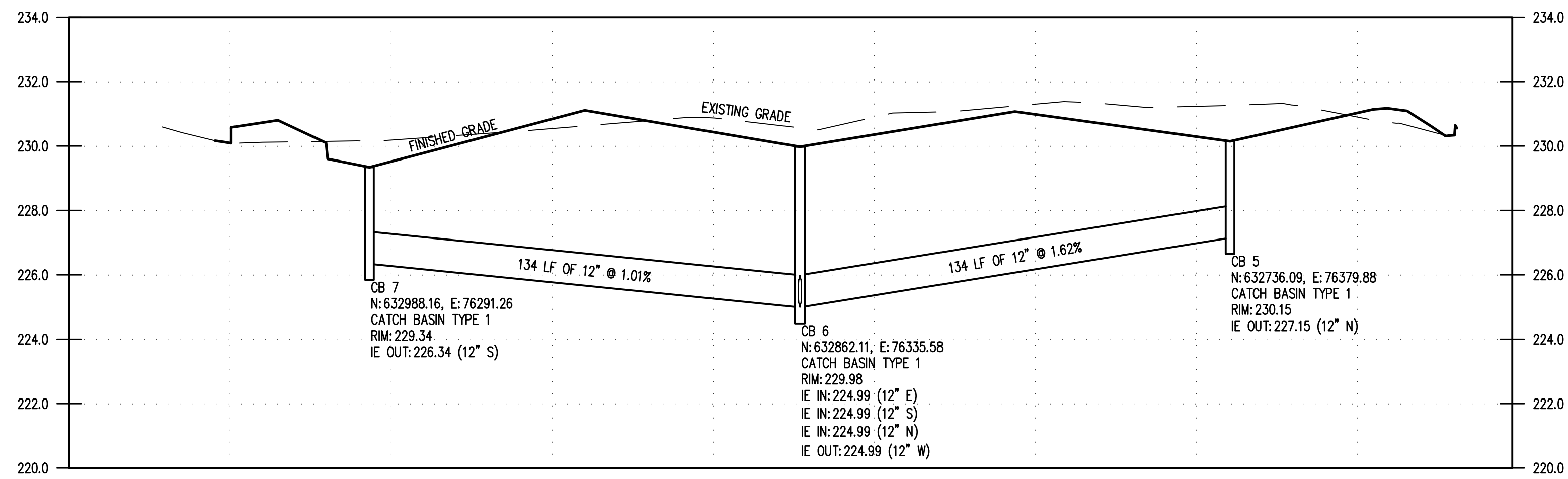


DESIGNER: K. GANS
DRAWN BY: W. HOLM
APPROVED BY: W. HOLM
DATE: SEPT. 13, 2023
JOB NO: 22-000313
DRAWING FILE NO: 22-000313 SD-02
DRAWING NO: SD-02
SHEET NO: 16 OF 45







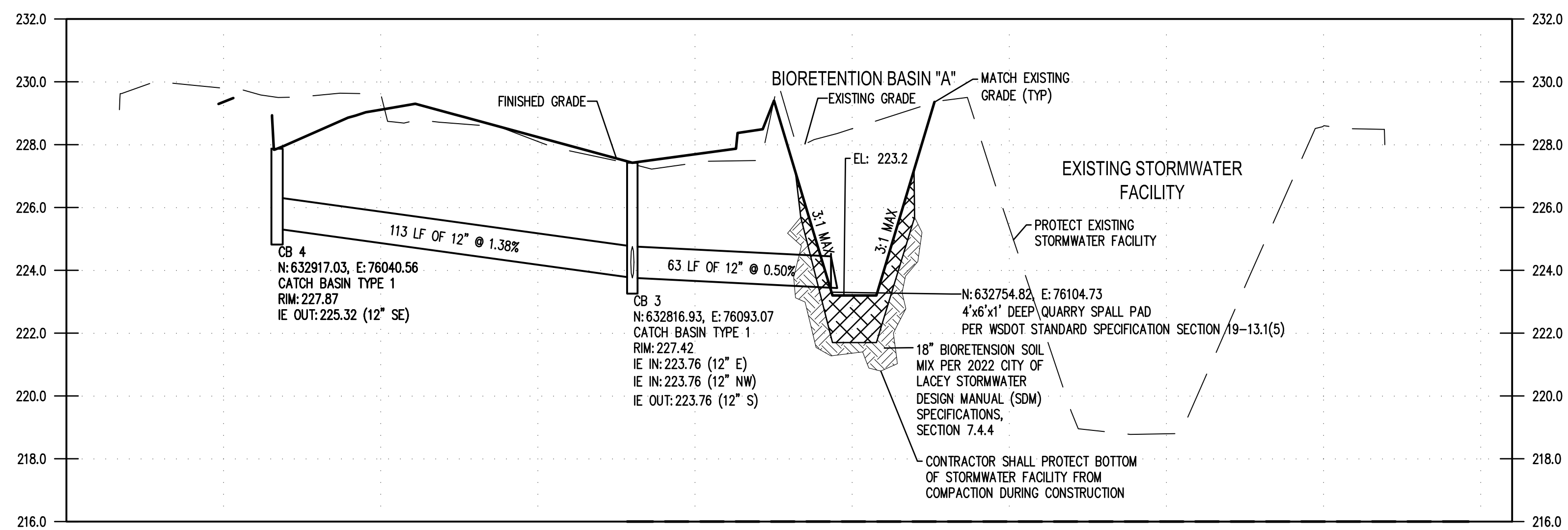
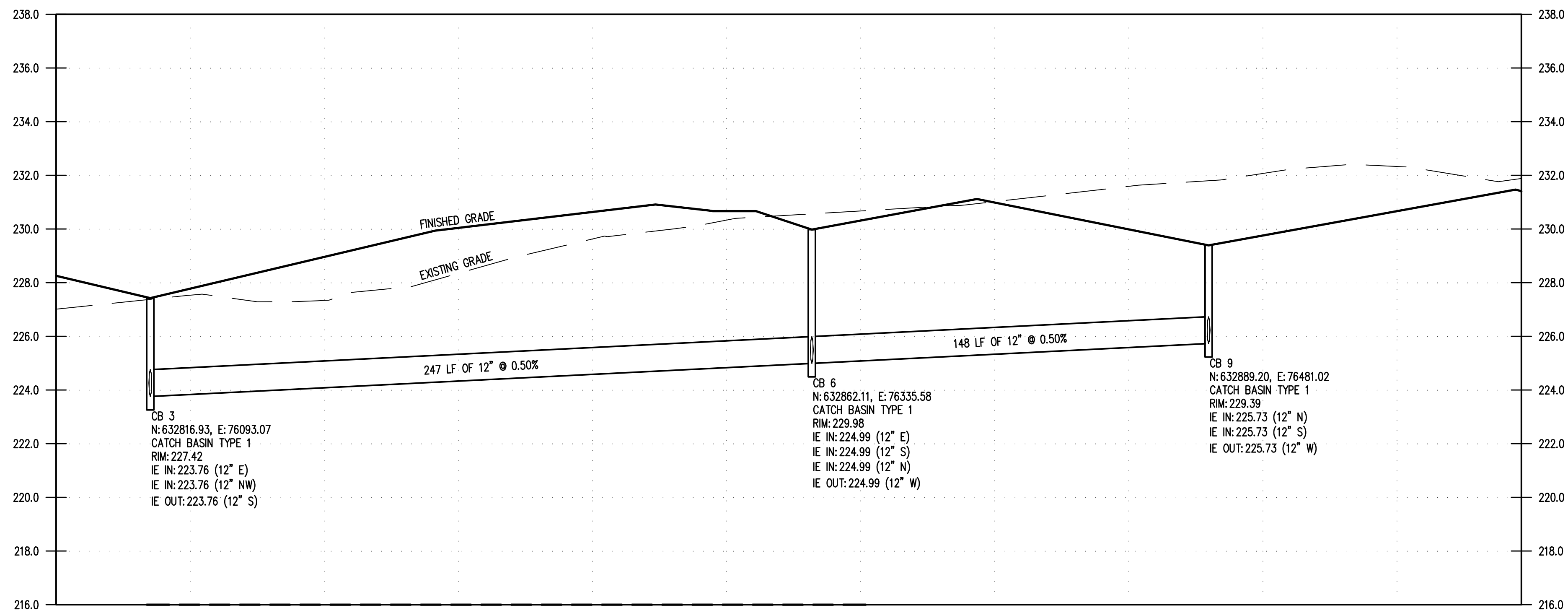


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<div>  <div> <b>SCJ ALLIANCE</b>  CONSTRUCTIVE SERVICES  8730 116th Ave. S.E. #100  P. 360.382.1445 F. 360.382.1459  SCJALLIANCE.COM </div> </div>		<div>  <div> <b>CITY OF LACEY, WASHINGTON</b>  DEPARTMENT OF PUBLIC WORKS  420 COLLEGE STREET S.E.  LACEY, WA 98503-1238 (360) 491-5600 </div> </div>	
<div> <b>STORM PIPE DETAILS</b>   <b>RAC PARKING LOT EXPANSION</b>  8345 STEILACOOM RD SE  LACEY, WA </div>		<div> <div> SHEET TITLE:   PROJECT NAME: </div> <div>  <div> 09/13/2023 </div> </div> </div>	
<div> SEAL: </div>		<div> DESIGNER: K. GANS  DRAWN BY: W. HOLM  APPROVED BY: W. HOLM  DATE: SEPT. 13, 2023  JOB NO: 22-000313  DRAWING FILE NO: 22-000313 SD-04  DRAWING NO: SD-05  SHEET NO: 19 OF 45 </div>	



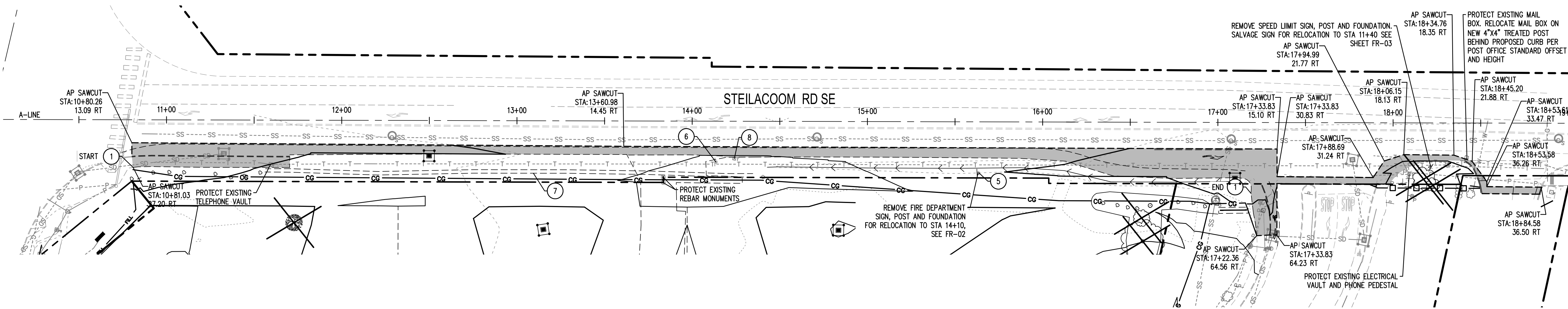
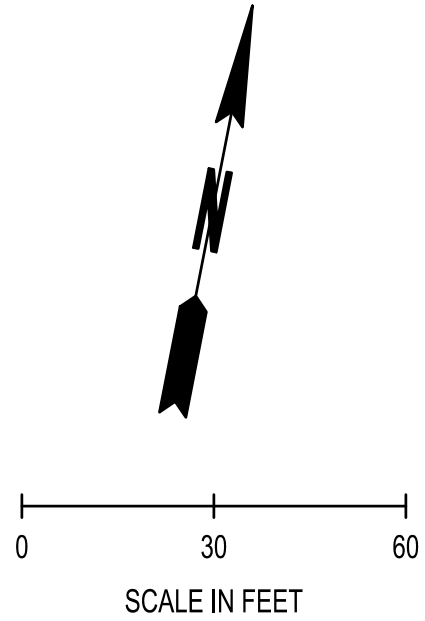
SEC. 14, T 18N., R 1W., W.M.

DEMOLITION NOTES:

1. SAWCUT
2. RELOCATE EXISTING COMMUNICATION VAULT, CONTRACTOR SHALL COORDINATE WITH CITY OF LACEY AND PSE FOR LOCATION
3. MOVE EXISTING SPEED LIMIT TO FIRST PROPOSED LUMINAIRE CLOSEST TO STEILACOOM/MARVIN INTERSECTION
4. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ASPHALT/CONCRETE AND REMOVE AS NEEDED
5. MOVE EXISTING FIRE DEPARTMENT SIGN TO NEAREST PROPOSED LUMINAIRE
6. CITY OF LACEY WILL COORDINATE WITH INTERCITY TRANSIT ON REMOVAL OF BUS SIGN, POST AND FOUNDATION. SIGN AND POST SHALL BE RETURNED TO INTERCITY TRANSIT.
7. REMOVE ECOLOGY BLOCKS, CONTRACTOR SHALL SALVAGE BLOCKS AND DELIVER TO CITY OF LACEY PROPERTY. CONTRACTOR SHALL COORDINATE LOCATION AND SCHEDULE WITH THE CITY OF LACEY
8. CONTRACTOR SHALL COORDINATE WITH UTILITY SURVEYOR ON RELOCATION OF PHONE PEDESTAL

LEGEND

- INLET SEDIMENT PROTECTION: SEE EC-02
- INLET SEDIMENT PROTECTION FOR EXISTING STORMWATER STRUCTURES: SEE EC-02
- SILT FENCE: SEE EC-02
- CLEAR AND GRUBBING LIMITS
- SAWCUT
- EXISTING TREE AND ROOT BALL TO BE REMOVED
- EXISTING ASPHALT/CONCRETE AND BASE TO BE REMOVED
- RIGHT OF WAY



REVISIONS	DATE	BY

**SCJ ALLIANCE**  
CONSULTING SERVICES  
8730 TALON LANE NE, SUITE 200, LACEY, WA 98516  
P: 360.352.2400 F: 360.352.1509  
WWW.SCJALLIANCE.COM

**CITY OF LACEY, WASHINGTON**  
DEPARTMENT OF PUBLIC WORKS  
420 COLLEGE STREET S.E.  
LACEY, WA 98503-1238 (360) 491-5800

**STEILACOOM TESC & DEMO PLAN**

**RAC PARKING LOT EXPANSION**  
8345 STEILACOOM RD SE  
LACEY, WA

SHEET TITLE: STEILACOOM TESC & DEMO PLAN

PROJECT NAME: RAC PARKING LOT EXPANSION

SEAL:

DESIGNER:	K. GANS
DRAWN BY:	W. HOLM
APPROVED BY:	W. HOLM
DATE:	SEPT. 13, 2023
JOB NO:	22-000313
DRAWING FILE NO:	22-000313 FR-01
DRAWING NO:	FR-01
SHEET NO:	20 OF 45

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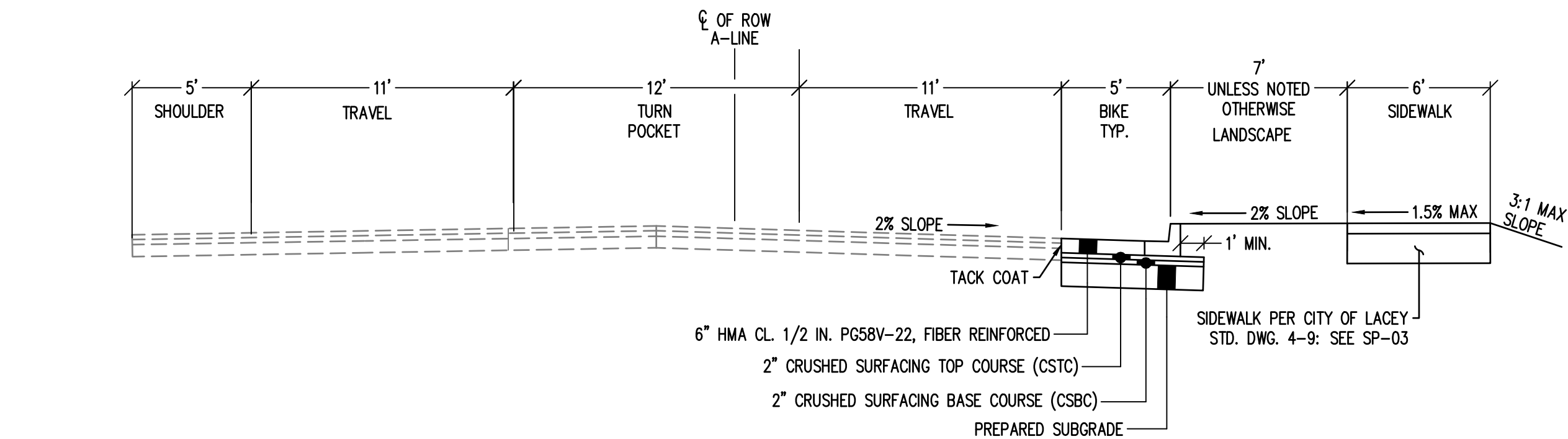
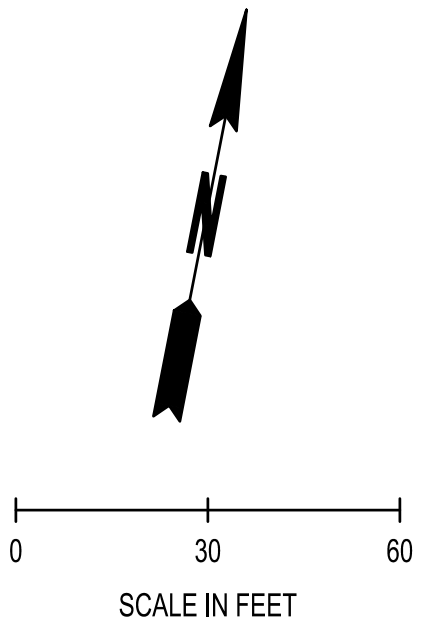
**CALL BEFORE YOU DIG**  
THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.



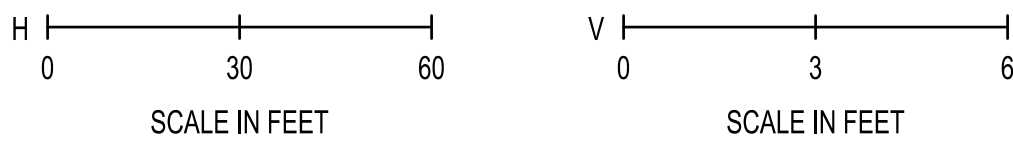
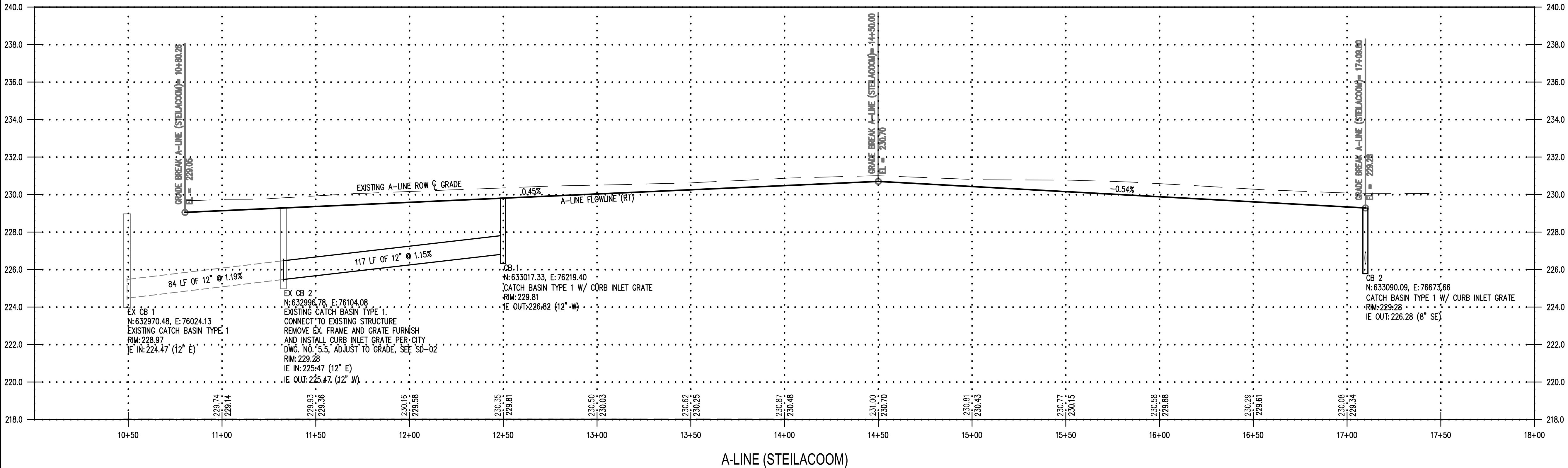
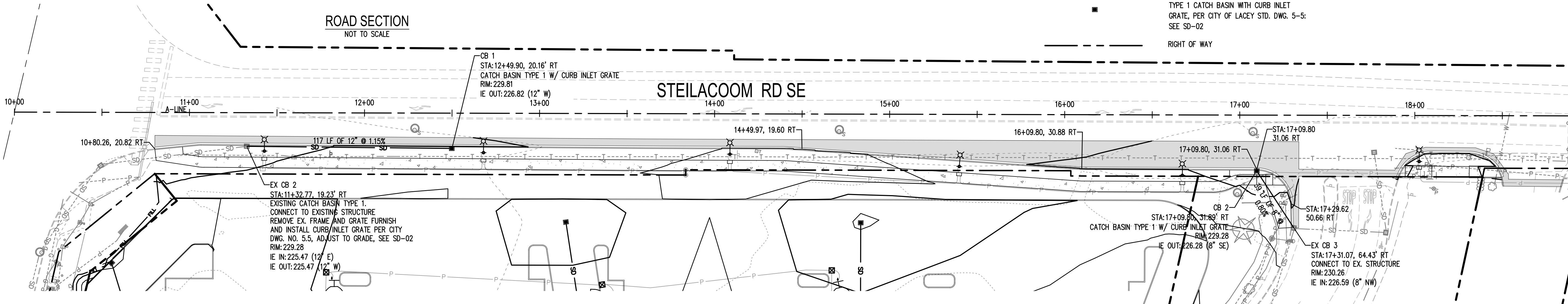
SEC. 14, T 18N., R 1W., W.M.

LEGEND

- CEMENT CONCRETE TRAFFIC CURB  
PER WSDOT STD. PLAN F.10.12.04  
SEE SP-03
- CEMENT CONCRETE CURB & GUTTER  
PER CITY OF LACEY STD. DWG. 4-14  
SEE SP-03
- SIDEWALK PER CITY OF LACEY STD. DWG.  
4-9: SEE SP-03
- HEAVY DUTY ASPHALT PAVING  
SEE SP-02
- STORM PIPE, (ASTM D3034 SDR35 OR  
APPROVED EQUAL UNLESS NOTED  
OTHERWISE, SIZE PER PLAN)
- TYPE 1 CATCH BASIN WITH CURB INLET  
GRATE, PER CITY OF LACEY STD. DWG. 5-5:  
SEE SD-02
- RIGHT OF WAY



ROAD SECTION  
NOT TO SCALE



CALL BEFORE YOU DIG

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

REVISIONS	DATE	BY

**SCJ ALLIANCE**  
CONSULTING SERVICES  
8730 FALLON LANE NE SUITE 200, LACEY, WA 98516  
P: 360.752.2466 F: 360.832.1509  
WWW.SCJALLIANCE.COM

**CITY OF LACEY, WASHINGTON**  
DEPARTMENT OF PUBLIC WORKS  
420 COLLEGE STREET S.E.  
LACEY, WA 98503-1238 (360) 491-5800

**STEILACOOM ROADWAY PLAN**

**RAC PARKING LOT EXPANSION**  
8345 STEILACOOM RD SE  
LACEY, WA

SHEET TITLE: STEILACOOM ROADWAY PLAN

PROJECT NAME: RAC PARKING LOT EXPANSION

SEAL:

DESIGNER: K. GANS

DRAWN BY: W. HOLM

APPROVED BY: W. HOLM

DATE: SEPT. 13, 2023

JOB NO: 22-000313

DRAWING FILE NO: 22-000313 FR-02

DRAWING NO: FR-02

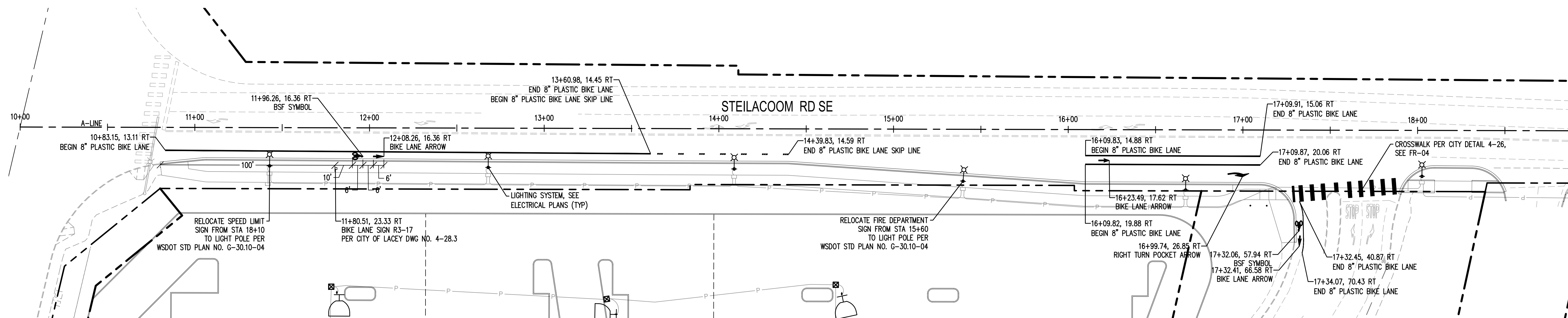
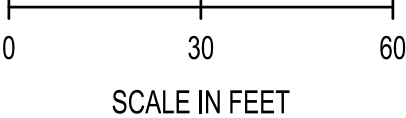
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SEC. 14, T 18N., R 1W., W.M.


## LEGEND

- CEMENT CONCRETE TRAFFIC CURB  
PER WSDOT STD. PLAN F.10.12.04  
SEE SP-03
- CEMENT CONCRETE CURB AND GUTTER  
PER CITY OF LACEY STD. DWG. 4-14  
SEE SP-03
- 8" SOLID DOUBLE YELLOW CENTER LINES  
PER CITY OF LACEY STD. DWG. 4-27 &  
4-28.5: SEE FR-04
- 8" SOLID AND BROKEN YELLOW CENTER LINES  
PER CITY OF LACEY STD. DWG. 4-27 &  
4-28.5: SEE FR-04
- 8" SOLID WHITE BIKE LINES  
PER CITY OF LACEY STD. DWG. 4-27  
SEE FR-04
- LEFT AND RIGHT TURN POCKET ARROWS  
PER CITY OF LACEY DWG NO. 4-28.1  
SEE FR-04
- BSF SYMBOL & BIKE LANE ARROW  
PER CITY OF LACEY DWG NO. 4-28.2  
SEE FR-04
- CROSSWALK  
PER CITY OF LACEY STD. NO. 4-26  
SEE FR-04
- RIGHT OF WAY
- PROPOSED UNDERGROUND ELECTRICAL LINE
- EXISTING STREET LIGHT

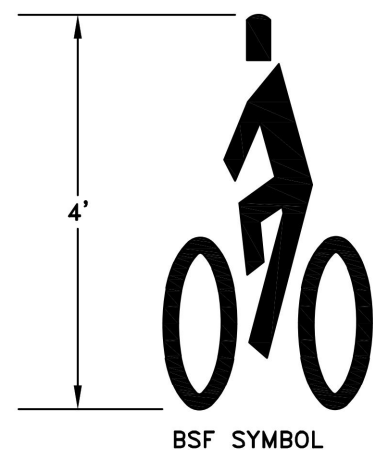
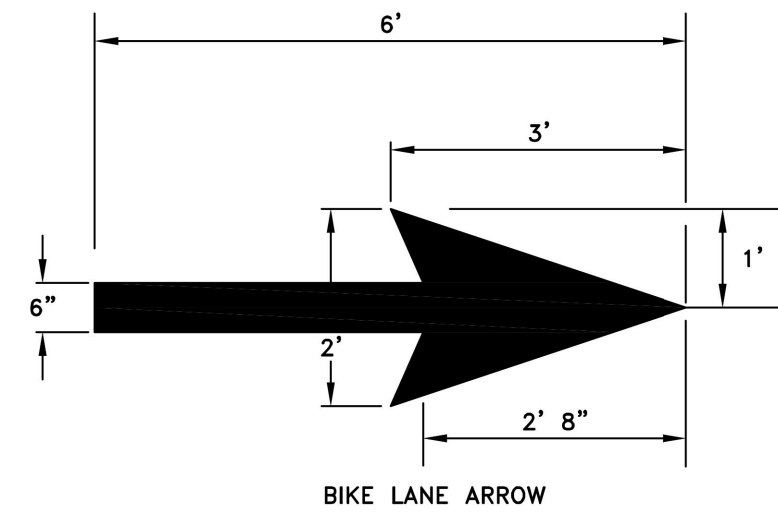


# CALL BEFORE YOU DIG

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

SHEET TITLE:		STEILACOOM STRIPING PLAN	
PROJECT NAME:		RAC PARKING LOT EXPANSION 8345 STEILACOOM RD SE LACEY, WA	
SEAL:		 09/13/2023	
DESIGNER:		K. GANS	
DRAWN BY:		W. HOLM	
APPROVED BY:		W. HOLM	
DATE:		SEPT. 13, 2023	
JOB NO:		22-000313	
DRAWING FILE NO:		22-000313 FR-03	
DRAWING NO:		FR-03	
SHEET NO:		22 OF 45	





**GENERAL NOTES:**

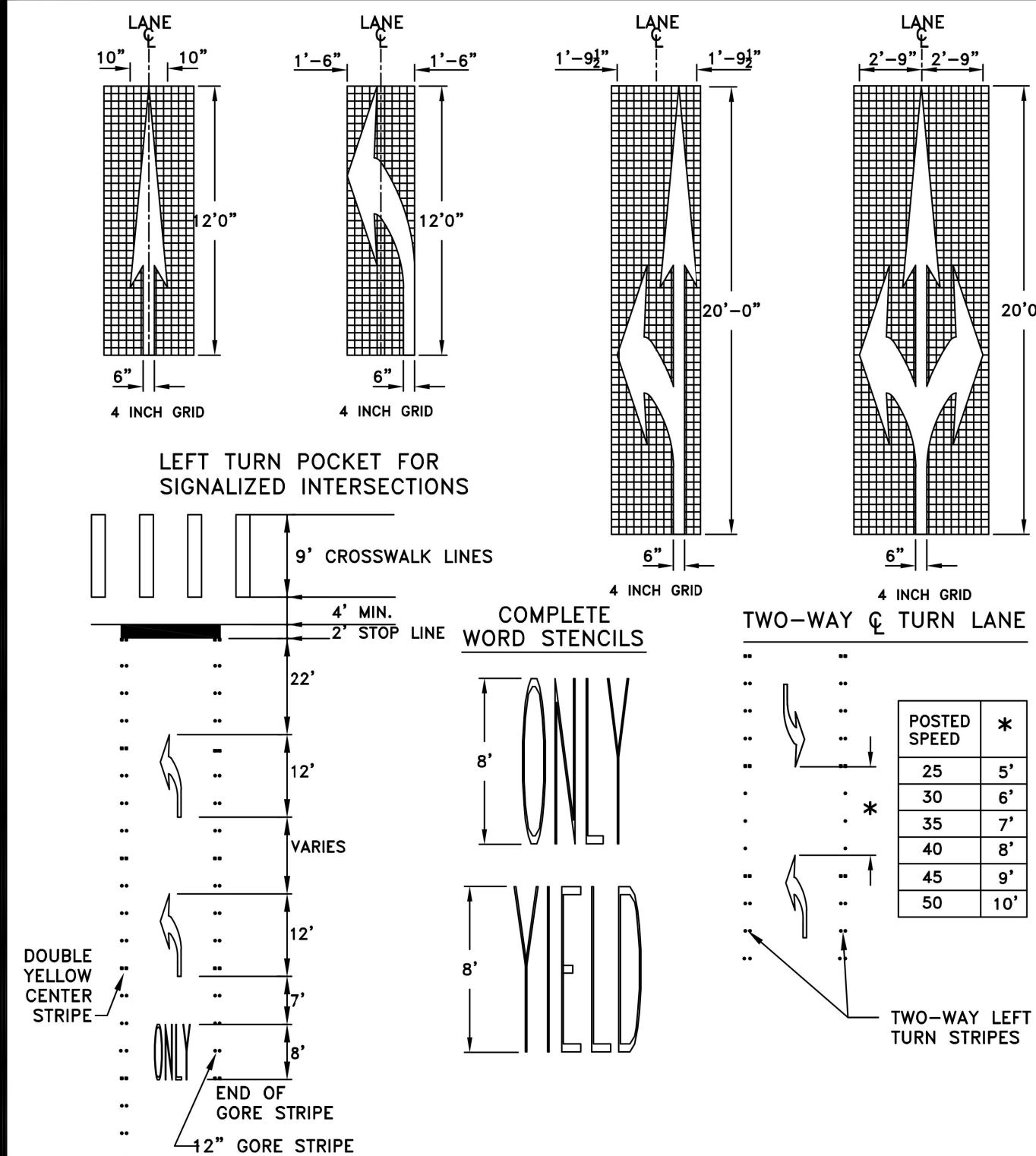
1. THE MATERIALS USED FOR ALL STOP LINES, CROSSWALKS, ARROWS, PARKING DELINEATION LINES, LETTERS, LEGENDS, AND SYMBOLS SHALL BE PREMARK OR HOT TAP PREFORMED THERMOPLASTIC 125 MIL THICKNESS.
2. THE PLASTIC MATERIAL USED TO FORM ALL LONG LINE PAVEMENT MARKINGS SHALL BE PAVE-MARK OR NORLINE THERMOPLASTIC.
2. ALL MARKINGS SHALL MEET FEDERAL METRIC STANDARDS.

CITY OF LACEY, WASHINGTON  
DEPT. OF PUBLIC WORKS

## PAVEMENT MARKINGS

### BICYCLE LANES

APPROVED <i>Roger A. Schoenwald</i> CITY ENGINEER			DWG. NO. 4-28.2
DES WHO	DWN WHO	CKD RAS	DATE 12/15/2014



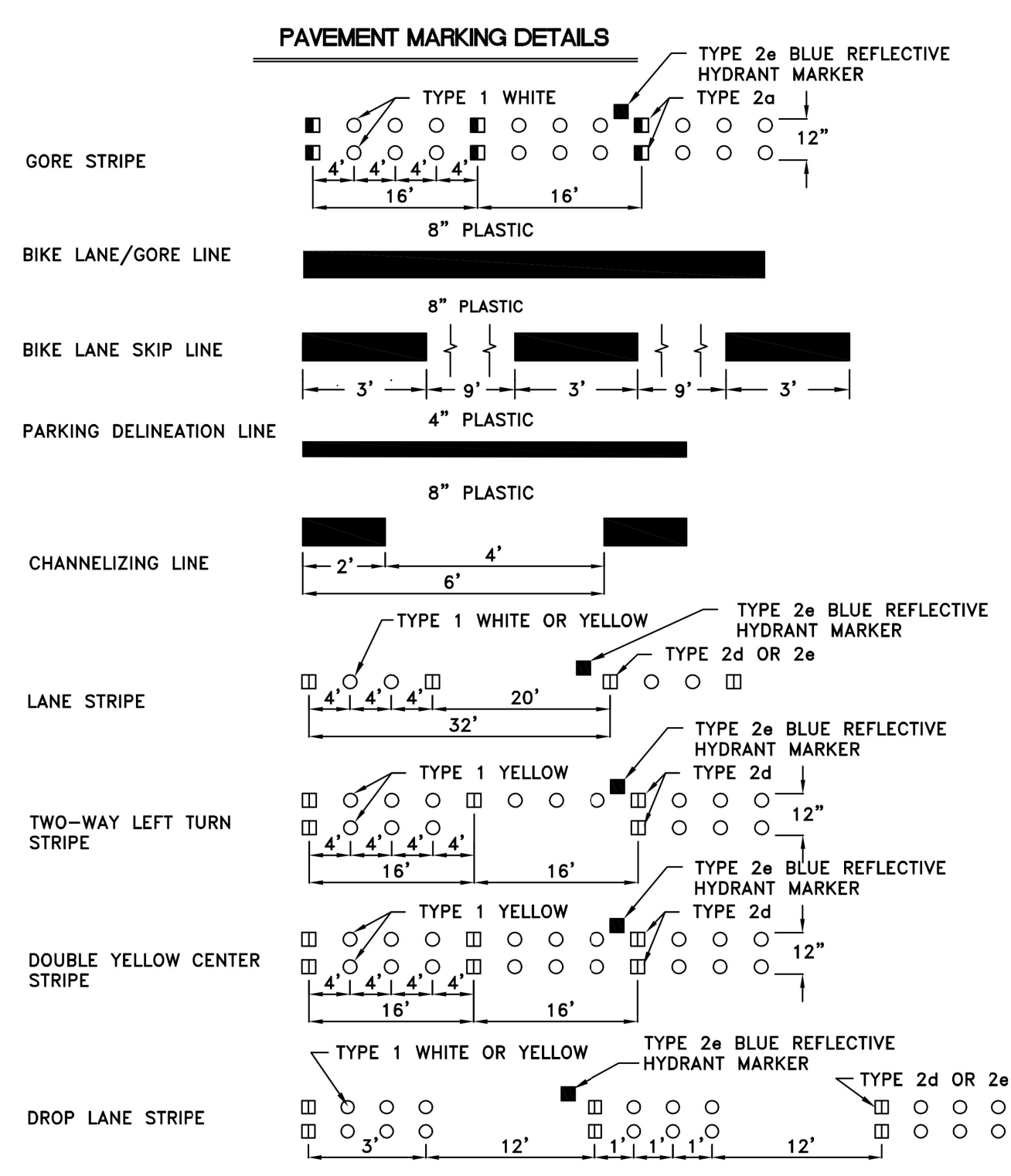
GENERAL NOTES:

1. THE MATERIALS USED FOR ALL STOP LINES, CROSSWALKS, ARROWS, PARKING DELINEATION LINES, LETTERS, LEGENDS, AND SYMBOLS SHALL BE PREMARK OR HOT TAPE PREFORMED THERMOPLASTIC 125 MIL THICKNESS.
2. THE PLASTIC MATERIAL USED TO FORM ALL LONG LINE PAVEMENT MARKINGS SHALL BE PAVE-MARK OR NOBLETHERMOPLASTIC, HYDROCARBON FORMULATION 125 MIL THICKNESS MARKING MATERIAL.
3. ALL MARKINGS SHALL MEET FEDERAL METRIC STANDARDS.

CITY OF LACEY, WASHINGTON  
DEPT. OF PUBLIC WORKS

PAVEMENT MARKINGS

APPROVED <i>Rog A Schoenel</i> CITY ENGINEER			DWG. NO. 4-28.1
DES MAH	DWN MAH	CKD PDM	DATE 12/15/2014



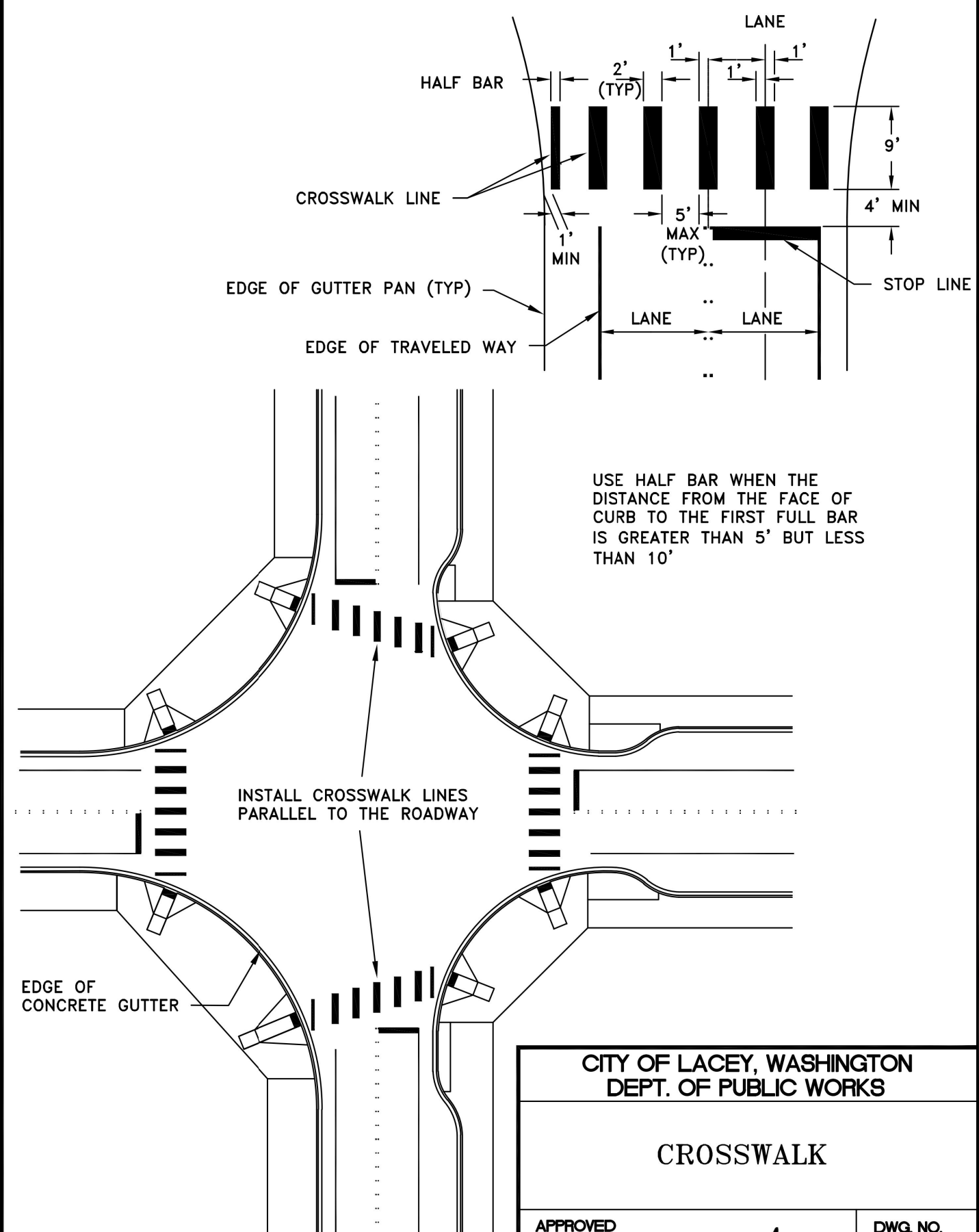
## LANE MARKERS

- TYPE 1 LANE MARKERS, WHITE OR YELLOW
- TYPE 2a REFLECTIVE LANE MARKER, WHITE AND RED
- ▣ TYPE 2d REFLECTIVE LANE MARKER, YELLOW AND YELLOW
- ▣ TYPE 2e REFLECTIVE LANE MARKER, WHITE ONE SIDE ONLY
- TYPE 2w TWO WAY BLUE REFLECTIVE HYDRANT MARKER INSTALLED 8" ON CENTER FROM THE CENTER OF THE ROADWAY.

CITY OF LACEY, WASHINGTON  
DEPT. OF PUBLIC WORKS

STRIPING DETAIL

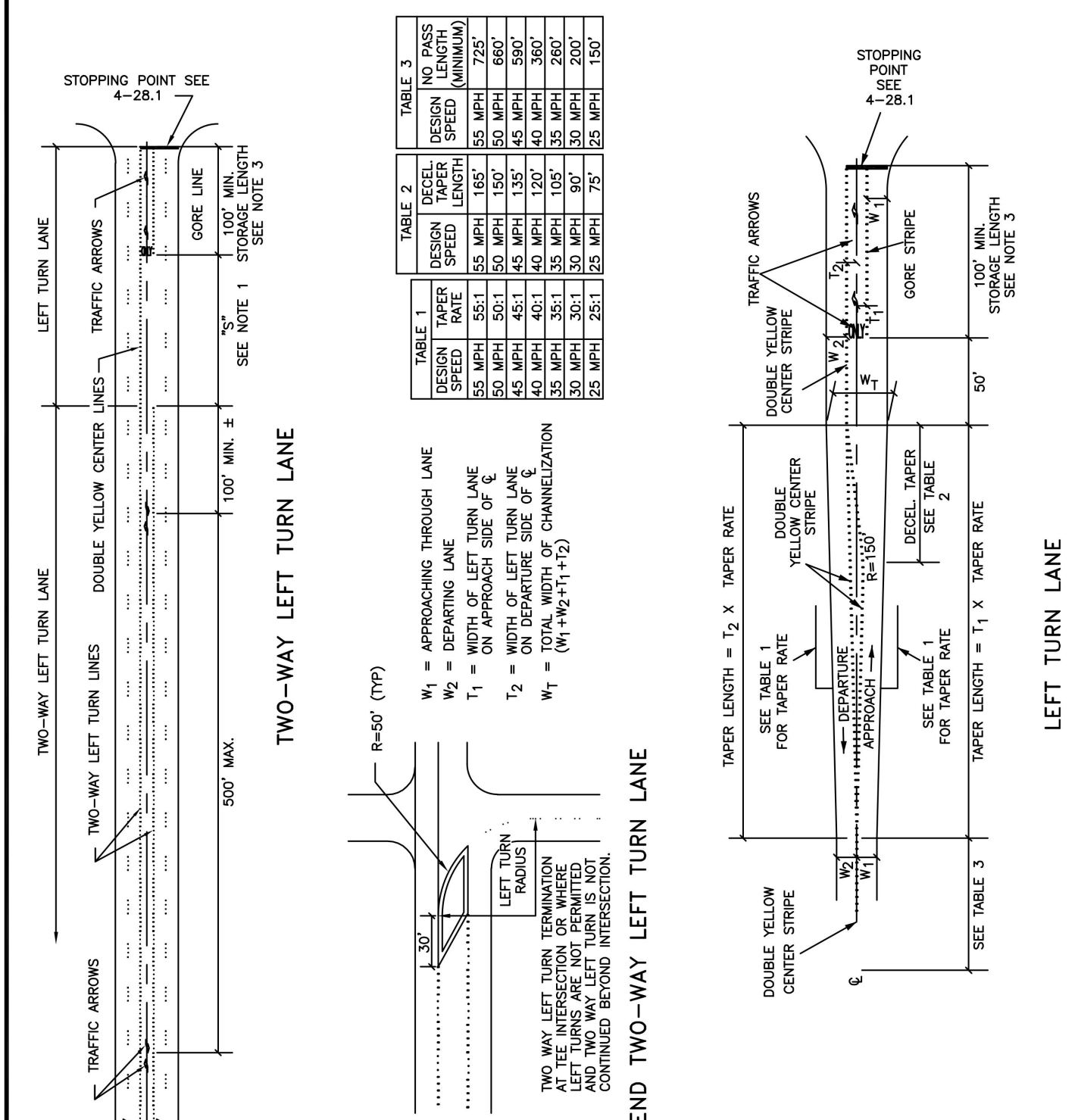
APPROVED <i>Roger A. Schenkel</i>			DWG. NO. 4-27
CITY ENGINEER			
DES MAH	DWN WHO	CKD PDM	DATE 12/15/2014



CITY OF LACEY, WASHINGTON  
DEPT. OF PUBLIC WORKS

## CROSSWALK

APPROVED <i>Rog A Schoenel</i> CITY ENGINEER			DWG. NO. 4-26
DES WHO	DWN WHO	CKD RAS	DATE 12/15/2014



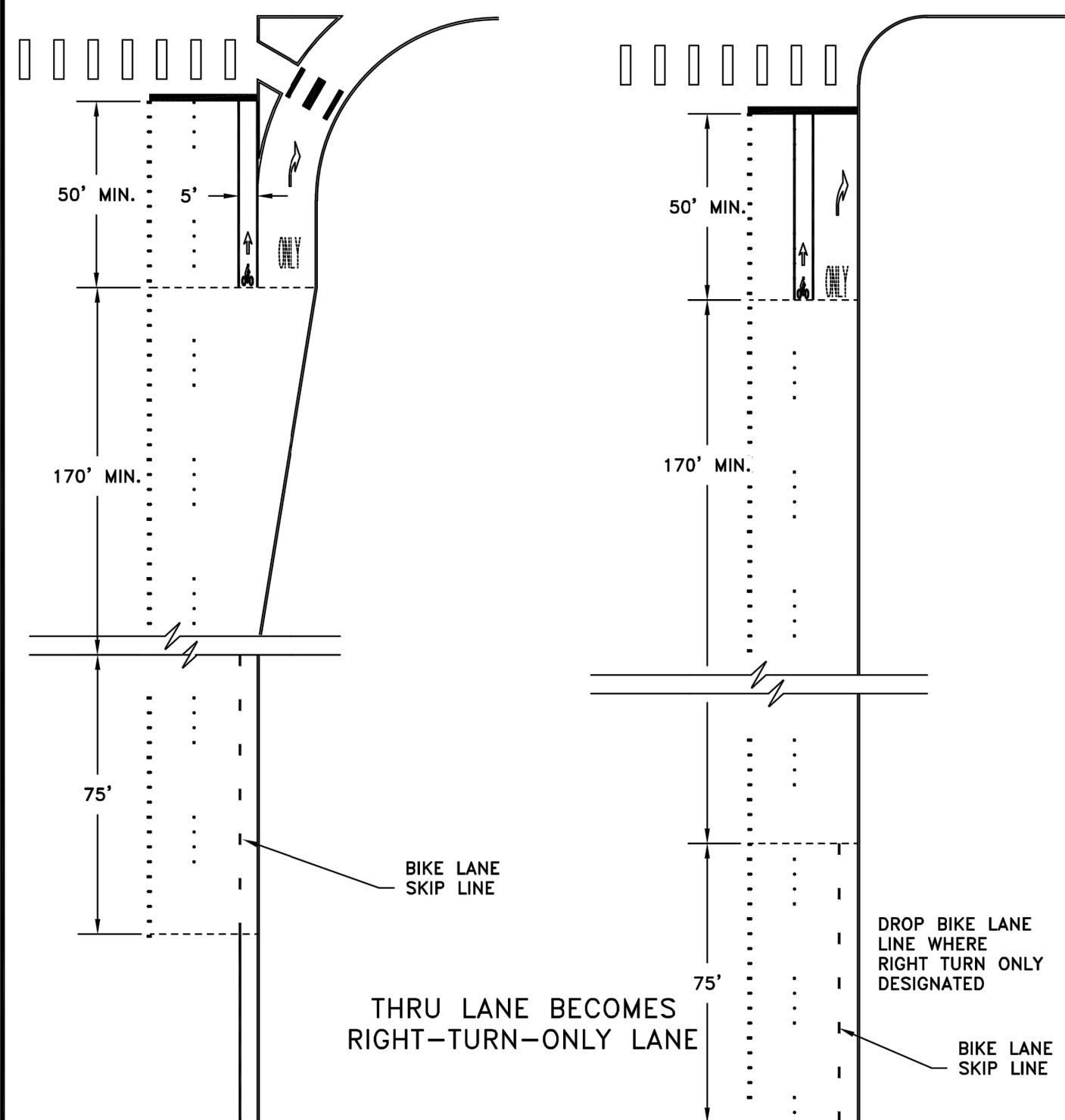
NOTES:

1. "S" = 80' FOR POSTED SPEED  $\leq 30$  M.P.H.  
"S" = 120' FOR POSTED SPEED 35-50 M.P.H.  
"S" = 170' FOR POSTED SPEED  $> 50$  M.P.H.
2. SEE DETAIL 4-28.1 FOR STRIPING SPECIFICATIONS.
3. USE DESIGN LENGTH DETERMINED BY THE T.I.A.

CITY OF LACEY, WASHINGTON  
DEPT. OF PUBLIC WORKS

## LEFT TURN LANE PAVEMENT MARKINGS

APPROVED <i>Rog A Schoenel</i> CITY ENGINEER			DWG. NO. 4-28.5
DES MAH	DWN WHO	CKD PDM	DATE 12/15/2014

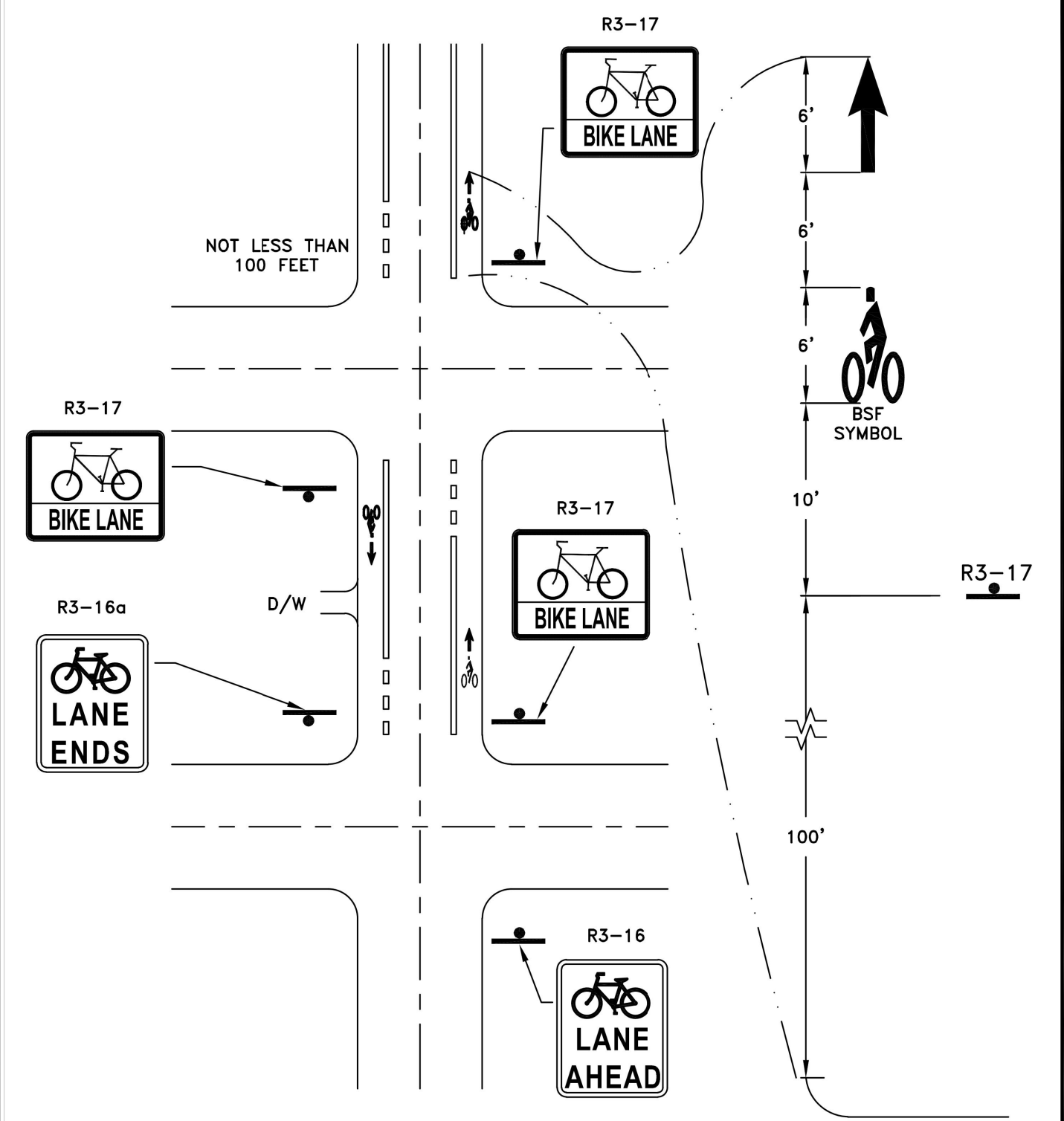


GENERAL NOTE:  
1. SEE STRIPING DETAIL 4-27 AND 4-28.2 FOR  
BIKE LANE PAVEMENT MARKINGS.

CITY OF LACEY, WASHINGTON  
DEPT. OF PUBLIC WORKS

## BIKE LANES AT RIGHT TURNS

APPROVED <i>[Signature]</i>			DWG. NO. 4-28.4
CITY ENGINEER			
DES MAH	DWN MKB	CKD PDM	DATE 08/24/2017




**GENERAL NOTES:**

1. BIKE LANE SIGNS R3-17 SHALL BE PLACED AT FAR SIDE OF THE INTERSECTION.
2. THE SPACING FOR THE R3-17 SIGNS SHALL BE 800 FEET MAXIMUM.

CITY OF LACEY, WASHINGTON  
DEPT. OF PUBLIC WORKS

## BIKE LANE SIGNING AT INTERSECTIONS

APPROVED <i>Rog A Schenkel</i>			DWG. NO. 4-28.3
CITY ENGINEER			
DES MAH	DWN WHO	CKD PDM	DATE 12/15/2014

STEILACOOM ROAD DETAILS		RAC PARKING LOT EXPANSION 8345 STEILACOOM RD SE LACEY, WA	
SHEET TITLE:		PROJECT NAME:	
SEAL:		09/13/2023	
			
DESIGNER: K. GANS			
DRAWN BY: W. HOLM			
APPROVED BY: W. HOLM			
DATE: SEPT. 13, 2023			
JOB NO: 22-000313			
DRAWING FILE NO: 22-000313 FR-04			
DRAWING NO: FR-04			
SHEET NO: 23 OF 45			



REFERENCE NOTES SCHEDULE

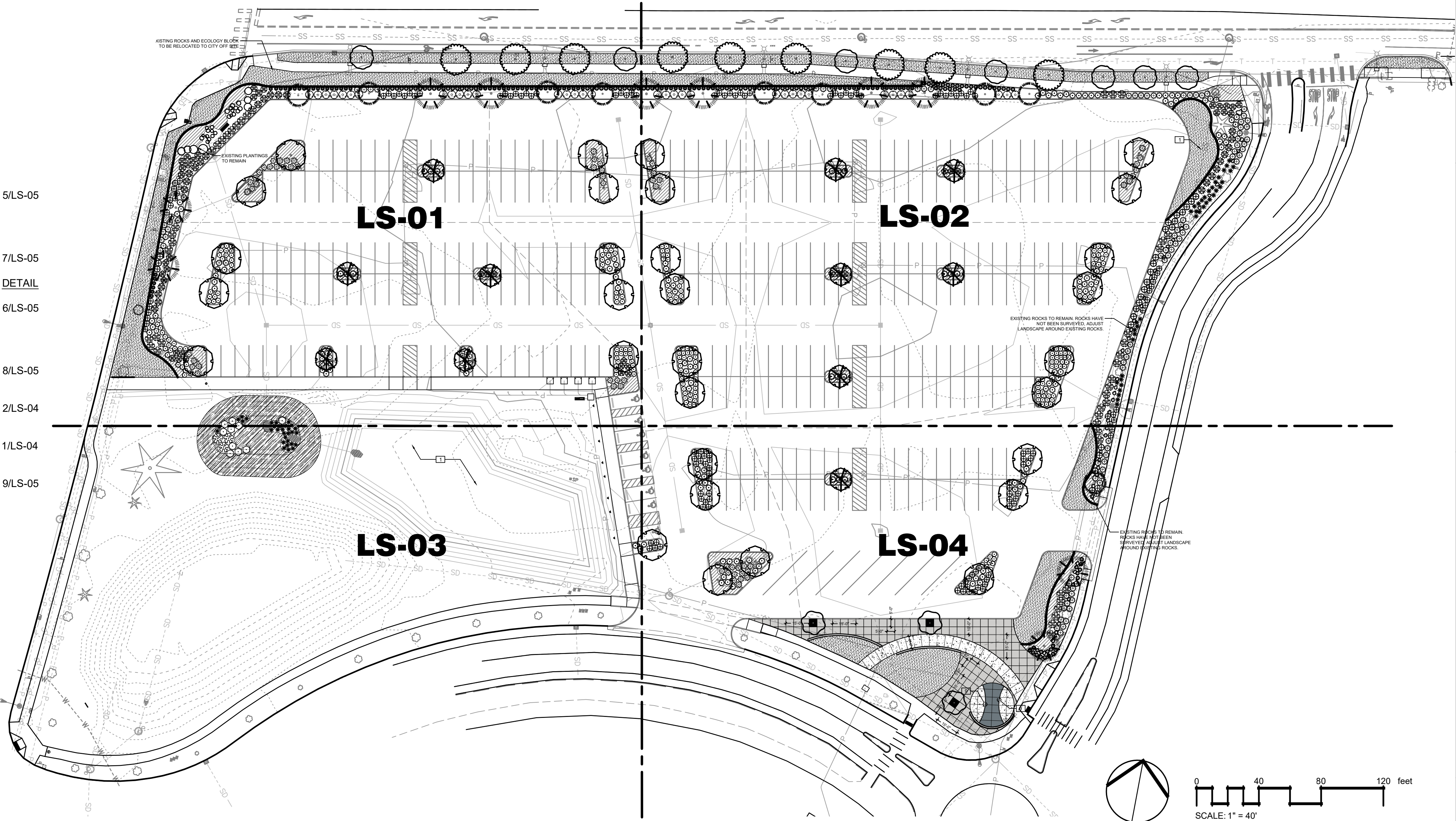
SYMBOL	DESCRIPTION	DETAIL
	1 HYDROSEED STANDARD LAWN MIX, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION	
	2 COLORED & STAMPED CONCRETE UTILIZING MEDIUM GRAY COLOR WITH CHARGREEN RELEASE AGENT WITH SAND BLAST FINISH. TOOLED CONTROL JOINTS AS NOTED IN DETAIL.	
	3 COLORED CONCRETE WITH BOMANITE - COBBLESTONE GRAY (OR APPROVED EQUAL). WITH 5" O.C. TOOLED SCORING - SEE CIVIL PLANS FOR CONCRETE DETAILS.	
	4 STANDARD CONCRETE	
	5 PLAZA SEAT WALL, STANDARD CONCRETE COLOR	5/LS-05
	6 ADD SPECIFIED ROOT BARRIER ALONG NEW CONCRETE SIDEWALK WITHIN 8' OF TREE TRUNK.	
	7 6" CONCRETE MOW STRIP	7/LS-05
SYMBOL	DESCRIPTION	DETAIL
	8 5' X 5' KIVA TREE GRATE AS AVAILABLE FROM URBAN ACCESSORIES (PH: 877-487-0488) OR APPROVED EQUAL	6/LS-05
	9 BASEBALL STITCHING - BRICKS SET ON END, CENTERED ALONG EXPANSION JOINT.	8/LS-05
	10 CAULKED EXPANSION JOINT - AT 15' O.C. OR AS SHOWN	2/LS-04
	11 TOOLED CONTROL JOINT, SEE DETAIL FOR ADDITIONAL INFORMATION.	1/LS-04
	12 STREET TREE WITH EDGING - TYP. ALL NEW STREET TREES	9/LS-05

GENERAL NOTES (ALL SHEETS)

1. SOIL PREPARATION - (LAWN AND ALL LANDSCAPE AREAS). SPREAD TOPSOIL 'A' TO A DEPTH OF 12" IN ALL BEDS AND 3" DEPTH IN LAWN AREAS. SPREAD 100 LBS./1000 S.F. OF DOLOMITE LIME (IN LAWN AREAS ONLY), 150 LBS./1000 S.F. OF AGRICULTURAL GYPSUM AND 15 LBS./1000 S.F. OF 16-8-8 COMMERCIAL FERTILIZER OVER SOIL AMENDMENT. ROTO-TILL ALL OF THE ABOVE TO A 6"-8" DEPTH AND GRADE SMOOTH, COMPACTING AS REQUIRED AND REMOVING ALL ROCKS, CLOUDS AND DEBRIS.
2. ALL PLANTING BEDS TO BE DRESSED WITH 3" OF BARK MULCH.

SHEET NOTES

1. REFER TO DETAILS AND SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
2. ALL PLANTS MUST BE APPROVED BY PROJECT ENGINEER PRIOR TO INSTALLATION.
3. NO PLANT SUBSTITUTIONS SHALL BE PERMITTED WITHOUT PRIOR APPROVAL OF PROJECT ENGINEER.
4. PLANT LIST QUANTITIES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES IN LIST WITH ACTUAL PLAN CALL-OUTS, AND INSTALLING PLANTINGS PER THE LANDSCAPE PLAN. GROUNDCOVER QUANTITIES SHALL BE ADJUSTED AS REQUIRED FOR FIELD CONDITIONS AT THE SPECIFIED SPACING.
5. ALL WORK SHALL BE PERFORMED TO THE SATISFACTION OF THE PROJECT ENGINEER.



BY	DATE	REVISIONS	SCJ ALLIANCE CONSULTING SERVICES 8730 TALON LANE NE SUITE 200, LACEY, WA 98516 P: 360.352.1500 F: 360.352.1509 WWW.SCJALLIANCE.COM	CITY OF LACEY, WASHINGTON DEPARTMENT OF PUBLIC WORKS 420 COLLEGE STREET S.E. LACEY, WA 98503-1238 (360) 491-5800
SHEET TITLE: NORTHWEST LANDSCAPE PLAN			PROJECT NAME: RAC PARKING LOT EXPANSION 8345 STEILACOOM RD SE LACEY, WA	
SEAL: [Professional Engineer Seal for Jeffrey B. Glander, State of Washington, License No. 4065, Exp. 02/08/25]			DESIGNER: T. GRANTHAM DRAWN BY: T. GRANTHAM APPROVED BY: J. GLANDER DATE: SEPT. 13, 2023 JOB NO: 22-000313 DRAWING FILE NO: 22-000313 X-LS DRAWING NO: LS-00 SHEET NO: 25 OF 45	


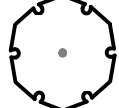

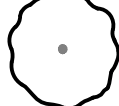
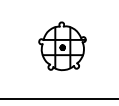
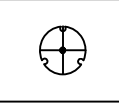
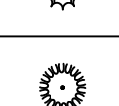
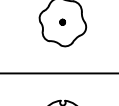
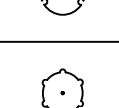

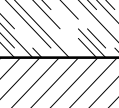



CALL BEFORE YOU DIG

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

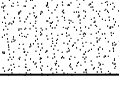
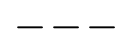





See 13, 2023 3:18:10pm - User: jclark-halliday  
PROJECT: 22-000313 RAC PARKING LOT DESIGN (CADD) 22-000313 X-LS-DWG

PLANT SCHEDULE LS-01

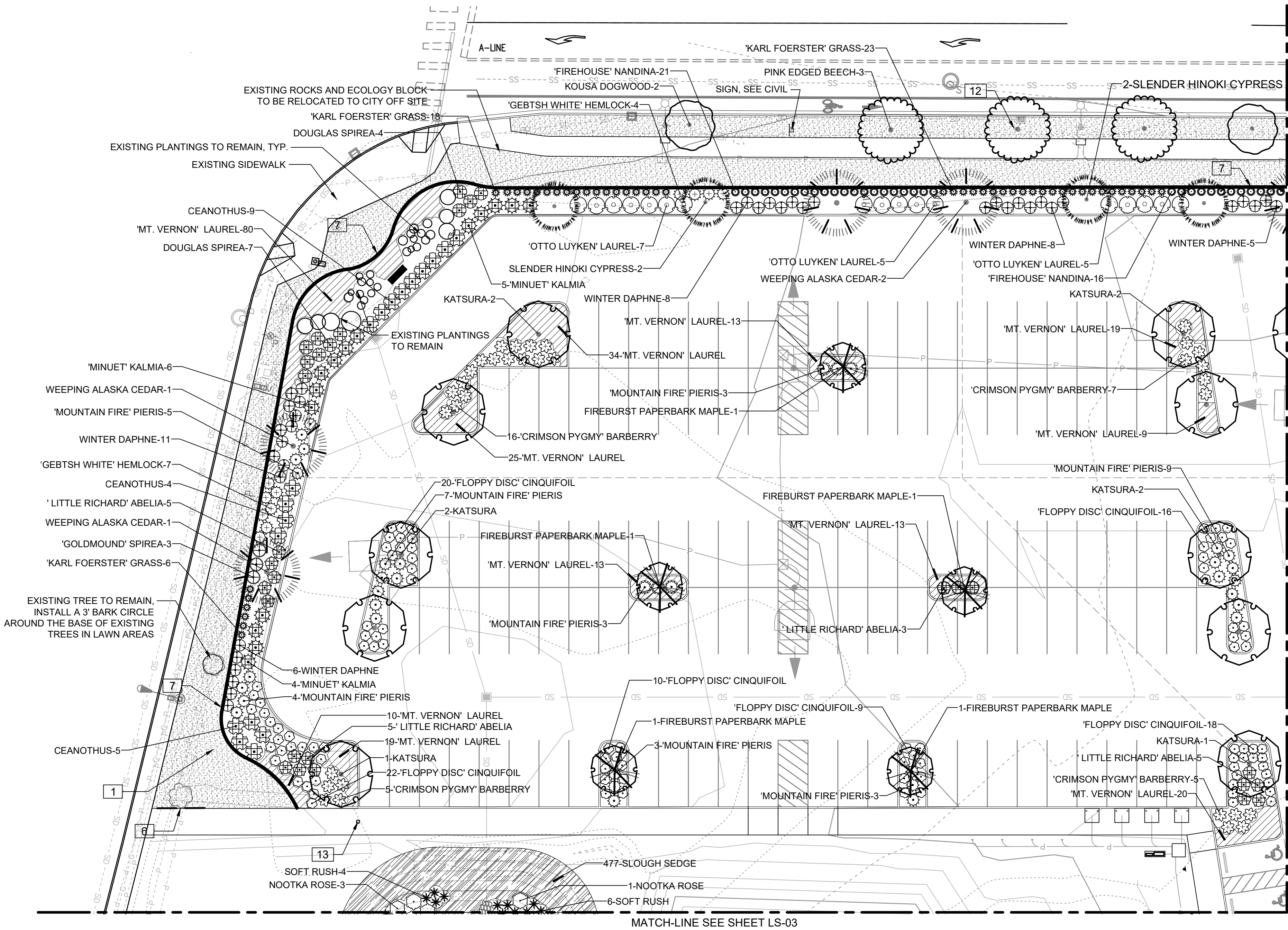
TREES	QTY	BOTANICAL / COMMON NAME	SIZE	DESC.
	5	ACER GRISEUM 'JFS KW8AGR' FIREBURST PAPERBARK MAPLE	2" CAL.	2" CAL., 8'-10' HT.
	10	CERCIDIPHYLLUM JAPONICUM KATSURA 5' BRANCHING HT.	2" CAL., B&B/ CONT.	12'-14' HT.
	4	CHAMAECYPARIS NOOTKATENSIS 'PENDULA' WEeping ALASKA CEDAR	8" HT. MIN.	B&B/ CONT.
	4	CHAMAECYPARIS OBTUSA 'GRACILIS' SLENDER HINOKI CYPRESS	8" HT. MIN.	B&B/ CONT.
	2	CORNUS KOUSA KOUSA DOGWOOD	1 1/2" CAL	6'-8' HT., B&B
	3	FAGUS SYLVATICA 'ROSEOMARGINATA' PINK EDGED BEECH	2" CAL., B&B/ CONT.	12'-14' HT.
SHRUBS	QTY	BOTANICAL / COMMON NAME	SIZE	SPACING
	18	ABELIA X GRANDIFLORA 'LITTLE RICHARD' 'LITTLE RICHARD' ABELIA	5 GAL	4' O.C.
	33	BERBERIS THUNBERGII 'CRIMSON PYGMY' 'CRIMSON PYGMY' BARBERRY	2 GAL	3.5' O.C.
	47	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' 'KARL FOERSTER' GRASS	2 GAL	3' O.C.
	18	CEANOTHUS X 'JULIA PHELPS' CEANOTHUS	5 GAL	6' O.C.
	38	DAPHNE ODORA WINTER DAPHNE	2 GAL	3.5' O.C.
	10	JUNCUS EFFUSUS SOFT RUSH	1 GAL	3' O.C.
	15	KALMIA LATIFOLIA 'MINUET' 'MINUET' KALMIA	5 GAL	5' O.C.
	33	NANDINA DOMESTICA 'FIREHOUSE' 'FIREHOUSE' NANDINA	2 GAL	2-1/2' O.C.
	37	PIERIS JAPONICA 'MOUNTAIN FIRE' 'MOUNTAIN FIRE' PIERIS	5 GAL	4' O.C.
	95	POTENTILLA FRUTICOSA 'FLOPPY DISC' 'FLOPPY DISC' CINQUIFOIL	1 GAL	3' O.C.
	17	PRUNUS LAUROCERASUS 'OTTO LUYKEN' 'OTTO LUYKEN' LAUREL	21"-24" HT., B&B	5' O.C.
	4	ROSA NUTKANA NOOTKA ROSE	1 GAL	5' O.C.
	11	SPIRAEA DOUGLASII DOUGLAS SPIREA	5 GAL	4' O.C.
	3	SPIRAEA JAPONICA 'GOLDMOUND' 'GOLDMOUND' SPIREA	3 GAL	4' O.C.
	11	TSUGA CANADENSIS 'GENTSH WHITE' 'GEBTSH WHITE' HEMLOCK	5 GAL	4' O.C.
GROUND COVERS	QTY	BOTANICAL / COMMON NAME	SIZE	SPACING
	477	CAREX OBNUPTA SLOUGH SEDGE	4"POT	18" O.C.
	255	PRUNUS LAUROCERASUS 'MOUNT VERNON' 'MT. VERNON' LAUREL	1 GAL	2-1/2' O.C.

REFERENCE NOTES SCHEDULE LS-01

SYMBOL	DESCRIPTION	DETAIL
	1 HYDROSEED STANDARD LAWN MIX. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION	
	6 INSTALL SPECIFIED ROOT BARRIER ALONG NEW CONCRETE SIDEWALK WITHIN 8' OF TREE TRUNK OF THIS EXISTING TREE TO REMAIN.	1/LS-03
	7 6" CONCRETE MOW STRIP	7/LS-05
	12 STREET TREE WITH EDGING - TYP. ALL NEW STREET TREES	1/LS-03
	13 REMOVABLE BOLLARD	9/LS-05

CALL BEFORE YOU DIG

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.



BY

DATE

REVISIONS

SCJ ALLIANCE  
CONSULTING SERVICES  
8730 TALON LANE NE, SUITE 200, LACEY, WA 98516  
P: 360.752.1565 F: 360.752.1569

CITY OF LACEY, WASHINGTON  
DEPARTMENT OF PUBLIC WORKS  
420 COLLEGE STREET S.E.  
LACEY, WA 98503-1238 (360) 491-5600

SHEET TITLE: NORTHEAST LANDSCAPE PLAN

PROJECT NAME: RAC PARKING LOT EXPANSION  
8345 STEILACOOM RD SE  
LACEY, WA

SEAL: STATE OF WASHINGTON  
JEREMY B. GLANDER  
REGISTERED LANDSCAPE ARCHITECT  
NO. 4905 EXP. 07/08/25  
09/13/2023

DESIGNER: T. GRANTHAM  
DRAWN BY: T. GRANTHAM  
APPROVED BY: J. GLANDER  
DATE: SEPT. 13, 2023  
JOB NO: 22-000313  
DRAWING FILE NO: 22-000313 X-LS  
DRAWING NO: LS-01  
SHEET NO: 26 OF 45















REFER TO DETAILS FOR ADDITIONAL INFORMATION.

2. CHEMICALLY KILL AND REMOVE FROM SITE ALL EXISTING WEEDS AND VEGETATION NOT SHOWN TO REMAIN ON PLANS.

3. DISTRIBUTE IMPORTED SANDY LOAM TOPSOIL (APPROVED BY THE LANDSCAPE ARCHITECT) IN AREAS SHOWN AND AT DEPTHS INDICATED FOR CROWNING AND BERMING OF LANDSCAPE AREAS, AND BACKFILL OF RETAINING WALLS (IF REQUIRED). DOTTED LINES INDICATE 1' CONTOUR INTERVALS. ALL LANDSCAPE AREAS SHALL RECEIVE TOPSOIL, WHETHER INDICATED ON PLANS OR NOT, SO THAT FINISH GRADES OF ALL SHRUB BEDS SHALL BE 2" BELOW TOPS OF ADJACENT CURBS AND PAVEMENT, AND LAWN AREAS SHALL BE 1/2" BELOW TOPS OF ADJACENT CURBS AND PAVEMENT. STRUCTURAL FILL AREAS: ANY LANDSCAPE AREAS OCCURRING WITHIN STRUCTURAL FILL ZONES SHALL HAVE SAID STRUCTURAL FILL MATERIALS EXCAVATED TO A DEPTH OF 12" BELOW FINISH GRADES IN SHRUB AREAS AND 6" BELOW GRADE IN LAWN AREAS, AND REPLACED WITH SPECIFIED TOPSOIL. DISPOSE OF EXCAVATED MATERIAL OFF SITE.

4. FINE GRADE ALL LANDSCAPE BEDS PRIOR TO PLANTING OPERATIONS.

5. NO PLANT SUBSTITUTIONS SHALL BE PERMITTED WITHOUT PRIOR APPROVAL OF LANDSCAPE ARCHITECT/OWNER.

6. ALL PLANTS SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK.

7. ALL PLANT MATERIALS AND PLANT LOCATIONS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

8. ROOT BARRIER SHALL BE INCORPORATED ADJACENT AND PARALLEL TO PAVING, CURB AND SIDEWALK, A MINIMUM OF 15 LINEAR FEET (7.5' ON EITHER SIDE OF TRUNK), 24" DEEP, WHERE ANY TREE IS WITHIN 8' OF PAVING, CURB OR SIDEWALK. ROOT BARRIER SHALL BE DEEPROOT UB-24 AS AVAILABLE FROM EWING IRRIGATION PRODUCTS, 2901 S TACOMA WAY, TACOMA, WA 98409 (253) 476-9530 OR APPROVED EQUAL.

9. SOIL AMENDMENT FOR SOIL PREPARATION AND PLANTING BACKFILL SHALL BE A SCREENED 5/8" MINUS NITRIFIED WOOD RESIDUAL COMPOST EQUAL TO:

A. "SILVER SPRINGS TOP GRADE COMPOST" BRAND COMPOST AS AVAILABLE FROM CORLISS RESOURCES LAKE TAPPS, WA (253) 279-9102.

B. "CEDAR GROVE COMPOST" BRAND COMPOST AS AVAILABLE FROM CEDAR GROVE COMPOST, MAPLE VALLEY, WA (877) 764-5748.

C. PREPLRI COMPOST AS AVAILABLE FROM RANDES SAND AND GRAVEL, INC., PUYALLUP, WA (253) 537-6828.

10. SOIL PREPARATION - (ALL LANDSCAPE AREAS). SPREAD 8 C.Y. OF SPECIFIED SOIL AMENDMENT PER 1000 S.F. (APPROX. 3" DEPTH) OF AREA. SPREAD 100 LBS./1000 S.F. OF DOLOMITE LIME (IN LAWN AREAS ONLY), 150 LBS./1000 S.F. OF AGRICULTURAL GYPSUM AND 15 LBS./1000 S.F. OF 16-8-8 COMMERCIAL FERTILIZER OVER SOIL AMENDMENT. ROTO-TILL ALL OF THE ABOVE TO A 6"-8" DEPTH AND GRADE SMOOTH, COMPACTING AS REQUIRED AND REMOVING ALL ROCKS, CLODS AND DEBRIS.

11. LAWN AREAS (SEED OR SOD REFER TO PLANS) SHALL CONSIST OF ONE OF THE FOLLOWING TURF TYPES:

60% TURF-TYPE PERENNIAL RYE GRASS VARIETIES	60% TURF-TYPE PERENNIAL RYE GRASS VARIETIES
20% BLUEGRASS	40% TURF-TYPE FESCUE
20% HARD FESCUE	

12. SEED AND SOD SHALL BE EQUAL TO THAT AS GROWN BY COUNTRY GREEN TURF FARMS; OLYMPIA, WA OR JB INSTANT LAWN, REDMOND, WA. SEED SHALL BE APPLIED AT 7 LBS/1000 S.F. AND INCLUDE 10 LBS./1000 S.F. OF UNITED HORTICULTURE 15-5-10 FERTILIZER IN ALL LAWN AREAS.

13. ALL TREES IN LAWN AREAS SHALL BE PLANTED IN A 3' DIAMETER CIRCLE OF BED MULCH, EXCEPT STREET TREES. ALL STREET TREES PLANTED IN LAWN AREAS SHALL BE PLANTED IN TRAPEZOID-SHAPED TREE WELL, WITH THE LONGER SIDE OF THE TREE WELL ALONG THE STREET. ALL TREE WELLS SHALL BE MULCHED WITH 3" DEPTH OF "FINE GRIND" HEM/FIR BARK MULCH AS TOP DRESSING.

14. BACKFILL MIX FOR ALL PLANTS (EXCEPT RHODODENDRONS & AZALEAS) SHALL BE A BLEND OF 1/3 EXISTING SITE SOIL, 1/3 COARSE SAND, AND 1/3 SOIL AMENDMENT SPECIFIED IN NO. 9. BACKFILL MIX FOR RHODODENDRONS AND AZALEAS SHALL CONSIST OF 2/3 ABOVE SPECIFIED BACKFILL MIX AND 1/3 FINE GRIND HEM-FIR BARK MULCH.

15. APPLY OSMOCOTE 18-6-12, 9 MONTH SLOW RELEASE FERTILIZER OVER THE SURFACE OF ALL PLANT PITS AT THE FOLLOWING RATES:

TREES OVER 10' HEIGHT	2 CUPS	TREES UNDER 10' HEIGHT:	1 CUP
ALL SHRUBS EXCEPT 1 GALLONS:	1/2 CUP	1 GALLON PLANTS:	1/4 CUP
GROUND COVERS:	1/4 CUP		

16. FERTILIZER TABLETS FOR ALL PLANTS SHALL BE AGRIFORM (20-10-5) 21 GRAM OR 10 GRAM TABLETS DISTRIBUTED AS FOLLOWS: ALL TREES: 4-21 GRAM TABLETS, ALL SHRUBS (EXCEPT 1 GALLONS): 3-21 GRAM TABLETS, ALL 1 GALLONS: 1-21 GRAM TABLET, ALL 2-1/4" AND 4" POT GROUND COVERS: 1-10 GRAM TABLET EACH. SET TABLETS DIRECTLY NEXT TO ROOTBALL.

17. ALL SHRUB AND GROUND COVER BEDS SHALL RECEIVE A 2" DEPTH (6 C.Y. PER 1000 S.F.) OF "FINE GRIND" HEM/FIR BARK MULCH AS TOP DRESSING.

18. APPLY A GRANULAR PRE-EMERGENT HERBICIDE TO ALL SHRUB AND GROUND COVER BEDS AT THE CONCLUSION OF THE MAINTENANCE PERIOD. DO NOT USE CASARON OR NORASAC BRANDS.

19. ALL WORK SHALL BE PERFORMED TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT/OWNER.

20. ALL PLANTS SHALL BE GUARANTEED FOR ONE FULL YEAR FROM DATE OF PROJECT ACCEPTANCE. ALL REPLACED PLANTS SHALL BE RE-GUARANTEED. ALL REPLACEMENTS SHALL BE MADE WITHIN 21 DAYS OF RECEIVING WRITTEN NOTICE FROM THE OWNER. CONTRACTOR SHALL NOT BE RESPONSIBLE FOR PLANTS DYING DUE TO OWNER NEGLIGENCE OR VANDALISM, AFTER THE MAINTENANCE PERIOD.

21. PLANT LIST QUANTITIES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES IN LIST WITH ACTUAL PLAN CALL-OUTS, AND INSTALLING PLANTINGS PER THE LANDSCAPE PLAN. GROUND COVER AND/OR MASS SHRUB QUANTITIES SHALL BE ADJUSTED AS REQUIRED FOR FIELD CONDITIONS AT THE SPECIFIED SPACING.

22. FINAL INSPECTION SHALL OCCUR AT THE CONCLUSION OF A 60-DAY MAINTENANCE & PLANT ESTABLISHMENT PERIOD. MAINTENANCE PERIOD SHALL COMMENCE UPON COMPLETION OF ALL LANDSCAPE INSTALLATION ACTIVITIES AND SHALL INCLUDE THE FOLLOWING:

A. MOW LAWNS ONCE PER WEEK.

B. REMOVE ALL WEEDS OVER 1" IN HEIGHT.

C. REPLACE DEAD OR UNHEALTHY PLANTS.

D. ENSURE PROPER FUNCTION OF IRRIGATION SYSTEM.

E. ENSURE ADEQUATE MOISTURE IS DELIVERED TO ALL LANDSCAPE BEDS INCLUDING NON-IRRIGATED AREAS.

F. FERTILIZE ALL LAWNS AT CONCLUSION OF MAINTENANCE AND PLANT ESTABLISHMENT PERIOD.



		09/13/2023
DESIGNER:		
T. GRANTHAM		
DRAWN BY:		
T. GRANTHAM		
APPROVED BY:		
J. GLANDER		
DATE:		
SEPT. 13, 2023		
JOB NO:		
22-000313		
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22-000313 X-LS		
DRAWING NO:		
LS-05		
SHEET NO:		
30 OF 45		



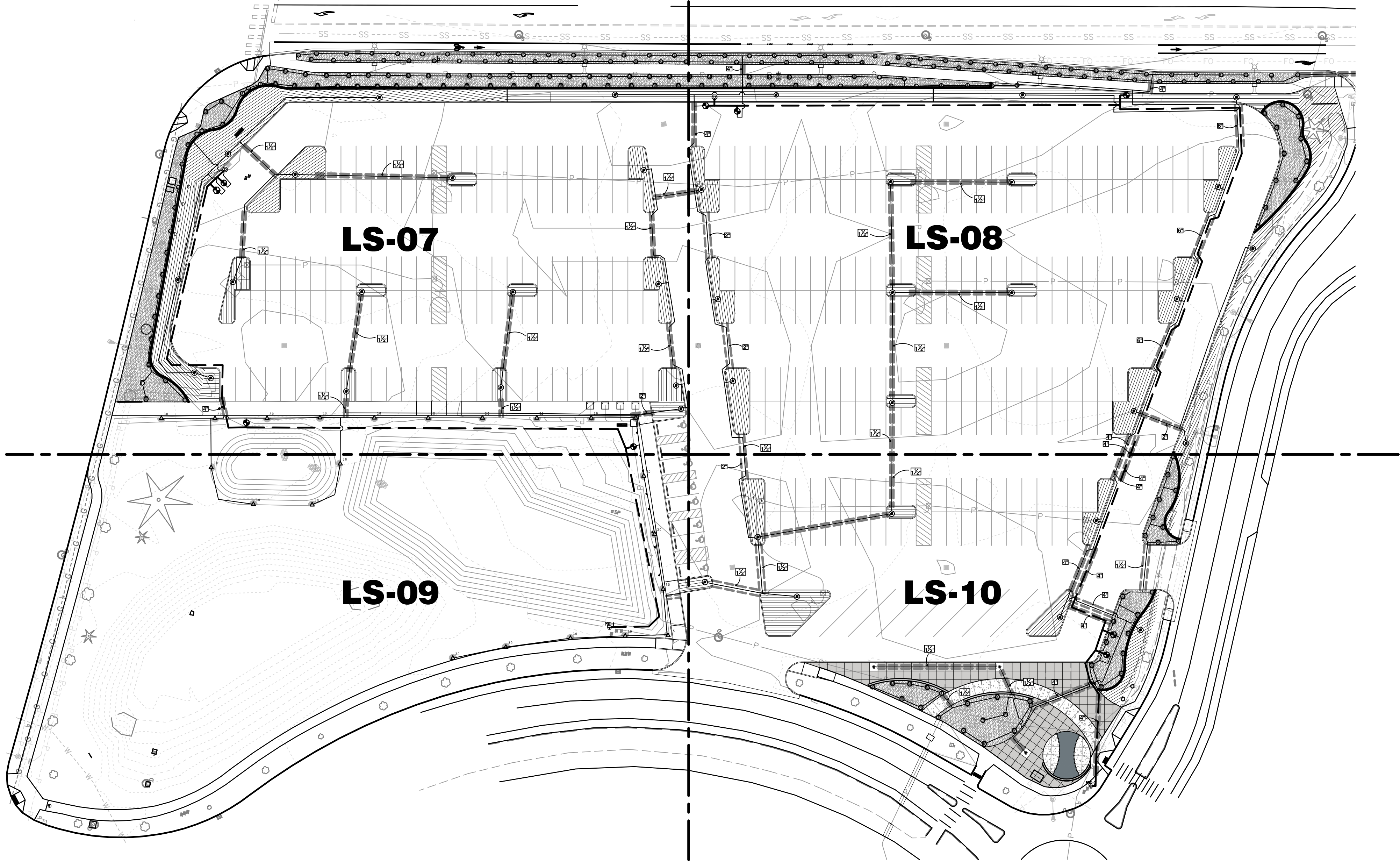
Sep 13, 2023 3:18:46pm User: jclandier  
 NO PROJECTS 09/20/2023 CITY OF LACEY\22-000313 RAC PARKING LOT DESIGN\000\22-000313 X-RW.DWG

IRRIGATION SCHEDULE			
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
①	HUNTER MP CORNER PROS-04-PRS40-CV TURF ROTATOR, 4IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE. T=TURQUOISE ADJ ARC 45-105 ON PRS40 BODY.	40	5/LS-11
① ② ③ LST SST RST	HUNTER MP STRIP PROS-04-PRS40-CV TURF ROTATOR, 4IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. LST=IVORY LEFT STRIP, SST=BROWN SIDE STRIP, RST=COPPER RIGHT STRIP.	45	5/LS-11
④ ⑤ ⑥	HUNTER MP1000 PROS-04-PRS40-CV TURF ROTATOR, 4IN. POP-UP WITH CHECK VALVE, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.	40	5/LS-11
⑦ ⑧ ⑨	HUNTER MP2000 PROS-04-PRS40-CV TURF ROTATOR, 4IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC.	40	5/LS-11
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
△ <sup>1.5</sup>	HUNTER I-20-06 1.5 TURF ROTOR, 6IN. POP-UP. ADJUSTABLE AND FULL CIRCLE. PLASTIC RISER. DRAIN CHECK VALVE. STANDARD NOZZLE.	35	6/LS-11
△ <sup>3.0</sup>	HUNTER I-20-06 3.0 TURF ROTOR, 6IN. POP-UP. ADJUSTABLE AND FULL CIRCLE. PLASTIC RISER. DRAIN CHECK VALVE. STANDARD NOZZLE.	35	6/LS-11
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
⑩	SUPPLY HEADER TRANSITION LATERAL PIPE TRANSITION TO PVC SUPPLY HEADER, SEE DETAIL.		8/LS-11
⑪	DOUBLE DRIP RING 2 DRIP RINGS USING 12" EMITTER SPACING @ 0.6 GPH. FIRST RING SHALL BE 12 INCHES FROM TRUNK SECOND RING SHALL BE 30" FROM TRUNK.	30	7/LS-11
	AREA TO RECEIVE DRIPLINE NETAFIM TLCV-06-18 TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 0.6 GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. 17MM.	30	8/LS-11
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION		DETAIL
⑫	WEATHERMATIC MAX-DW PLASTIC REMOTE CONTROL VALVE, 1IN., 1-1/2IN., 2IN. SIZE AS NOTED.		3/LS-11
⑬	WEATHERMATIC MAX-DW-XPR DFXX-140 PLASTIC REMOTE CONTROL VALVE WITH PRESSURE REGULATOR, AND NETAFIM 140 MESH DISK FILTER, MATCH VALVE SIZE. 1IN., 1-1/2IN., 2IN. SIZE AS NOTED. FOR USE AS A DRIP ZONE CONTROL VALVE.		4/LS-11
⑭	MANUAL DRAIN VALVE CHAMPION #200 3/4" ANGLE VALVE FOR MANUAL DRAIN ASSEMBLY WITH KEY EXTENSION		2/LS-11
POC-1 H	POINT OF CONNECTION 3" IRRIGATION POC 1 AT TEE OFF EXISITNG 3" MAINLINE "D", FIELD VERIFY LOCATION. VERIFY WITH OWNER'S REPRESENTATIVE PRIOR TO CONNECTION. VERIFY AND PRESERVE (2) EXISTING SPARE WIRES FOR USE, THIS INSTALLATION. 70N PSI EXISTING STATIC PRESSURE PER CITY OF LACEY REP.		
POC-2 H	POINT OF CONNECTION 3" IRRIGATION POC 2 AT TEE OFF EXISITNG 3" MAINLINE "A", FIELD VERIFY LOCATION. VERIFY WITH OWNER'S REPRESENTATIVE PRIOR TO CONNECTION. IRRIGATION POC 2 AT TEE OFF EXISITNG 3" MAINLINE, FIELD VERIFY LOCATION. VERIFY WITH OWNER'S REPRESENTATIVE PRIOR TO CONNECTION. VERIFY AND PRESERVE (5) EXISTING SPARE WIRES FOR USE, THIS INSTALLATION. 70 PSI STATIC PRESSURE PER CITY OF LACEY REP.		
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21		
	IRRIGATION MAINLINE: PVC SCHEDULE 40		
	PIPE SLEEVE: PVC CLASS 200 SDR 21		



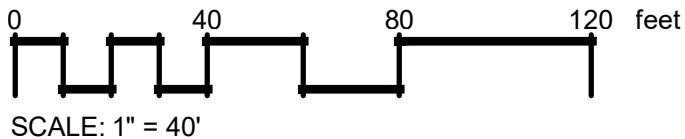
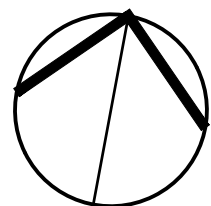
CALL BEFORE YOU DIG

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.



VALVE SCHEDULE - ALL SHEETS

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC
1-1	WEATHERMATIC MAX-DW	1-1/2"	TURF ROTOR	27.1	41.7	42.6
1-2	WEATHERMATIC MAX-DW	1-1/2"	TURF ROTOR	29.7	39.3	42.1
1-3	WEATHERMATIC MAX-DW-XPR DFXX-140	1-1/2"	AREA FOR DRIPLINE	24.26	34.7	37.7
1-4	WEATHERMATIC MAX-DW	1-1/2"	TURF ROTARY	29.18	48.2	52.4
2-1	WEATHERMATIC MAX-DW	1"	TURF ROTARY	17.61	44.3	44.6
2-2	WEATHERMATIC MAX-DW-XPR DFXX-140	1-1/2"	AREA FOR DRIPLINE	25.31	37.2	37.8
2-3	WEATHERMATIC MAX-DW	1-1/2"	TURF ROTARY	31.76	47.7	52.3
2-4	WEATHERMATIC MAX-DW	1"	TURF ROTARY	21.61	51.9	55.1
2-5	WEATHERMATIC MAX-DW-XPR DFXX-140	1-1/2"	AREA FOR DRIPLINE	30.23	37.4	43.4



BY	DATE	REVISIONS	 <b>SCJ ALLIANCE</b> CONSULTING SERVICES 8739 TALON LANE NE SUITE 200, LACEY, WA 98516 P: 360.352.1500 F: 360.352.1509 WWW.SCJALLIANCE.COM	 <b>CITY OF LACEY, WASHINGTON</b> DEPARTMENT OF PUBLIC WORKS 420 COLLEGE STREET S.E. LACEY, WA 98503-1238 (360) 491-5800
SHEET TITLE: <b>OVERALL IRRIGATION PLAN</b>			PROJECT NAME: <b>RAC PARKING LOT EXPANSION</b> 8345 STEILACOOM RD SE LACEY, WA	
SEAL:			DESIGNER: J. MCFARLAND DRAWN BY: J. MCFARLAND APPROVED BY: J. GLANDER DATE: SEPT. 13, 2023 JOB NO: 22-000313 DRAWING FILE NO: 22-000313 X-LS DRAWING NO: <b>LS-06</b> SHEET NO: 31 OF 45	



The diagram illustrates the components of a valve callout and its placement on an irrigation sleeve. On the left, a 'Valve Callout' box is shown with three fields: 'Valve Number' (containing '#'), 'Valve Flow' (containing '#'), and 'Valve Size' (containing '#'). On the right, an 'IRRIGATION SLEEVE & CALL OUT' is shown as a horizontal dashed line. A callout line points from a small circle on the sleeve to a box containing the number '6'.

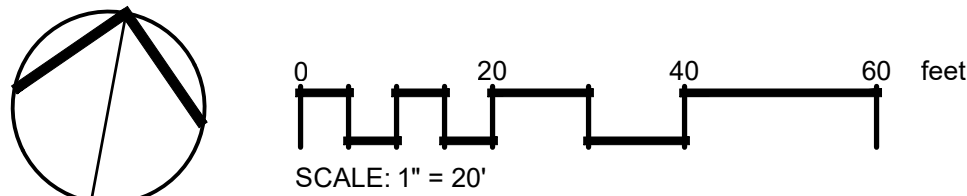
## BEFORE YOU DIG

CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL CALL ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING 811. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.



1. SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. PLAN IS DIAGRAMMATIC. ALL PIPING, LATERALS, AND WIRE TO BE LOCATED IN BED OR LAWN AREAS WHERE APPROPRIATE.
3. PIPE SIZES ARE TO REMAIN CONSTANT BETWEEN PIPE SIZE CALL-OUTS. PIPES ARE LABELED TO SMALLEST PIPE SIZE ONLY ( $\frac{3}{4}$ ").
4. ALL IRRIGATION HEADS LOCATED IN LAWN AREAS SHALL BE 4" POP-UPS AND HEADS IN SHRUB AREAS SHALL BE 12" POP-UPS.
5. ALL DRIP TUBING SHALL BE INSTALLED BELOW THE FINISH SOIL GRADE UNLESS NOTED OTHERWISE. INSTALL TUBING AT A CONSISTENT DEPTH OF 2" BELOW TOP OF SOIL.
6. ALL PIPES AND SLEEVES UNDER PAVED AREAS SHALL BE 24" DEEP. ALL MAINLINE SHALL BE 18" DEEP IN ALL UNPAVED AREAS, 24" IN PAVED AREAS. ALL LATERALS SHALL BE 12" DEEP IN ALL UNPAVED AREAS AND 24" DEEP IN PAVED AREAS.
7. LOCATE ALL MAINLINES WITHIN THE PROJECT LIMITS. INSTALL #14-AWG DIRECT BURIAL LOW VOLTAGE WIRE ALONG MAINLINE; TAPE AND BUNDLE WIRE EVERY 20' FT. PROVIDE RED COLOR WIRE FOR SIGNAL AND WHITE COLOR WIRE FOR COMMON. PROVIDE A MINIMUM OF ONE SPARE WIRE FOR EVERY 10 VALVES FOR A MAXIMUM OF FIVE SPARE WIRES.
8. ALL WORK SHALL BE PERFORMED TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT/OWNER.

<u>SYMBOL</u>	<u>DESCRIPTION</u>
I-101	PRESERVE AND PROTECT EXISTING TREES AND/OR LANDSCAPE PLANTINGS TO REMAIN, THIS AREA. PRESERVE AND PROTECT EXISTING IRRIGATION LINES AND HEADS TO REMAIN ALONG EXISTING PAVING/WALKS. FIELD VERIFY EXTENTS OF EXISTING LANDSCAPE TO REMAIN AND ADJUST IRRIGATION EQUIPMENT AS NEEDED.
I-102	PRESERVE AND PROTECT EXISTING IRRIGATION VALVES AND EQUIPMENT, THIS AREA. ENSURE THAT THE OPERATION AND FUNCTION OF EXISTING IRRIGATION ZONES IN THIS AREA ARE PRESERVED.
I-103	IRRIGATION PLAN IS DIAGRAMMATIC, TYP. ALL LINES, HEADS, VALVES AND OTHER IRRIGATION EQUIPMENT SHALL BE INSTALLED IN LANDSCAPE AREAS WHERE POSSIBLE AND WITHIN PROJECT LIMITS UNLESS OTHERWISE NOTED.
I-108	TWO EXISTING CONTROL VALVES HERE, AND RELATED EQUIPMENT, TO BE REMOVED AND A USABLE LENGTH OF THE CONTROL WIRES RETAINED (MIN. 6"), NEAR POINT OF CONNECTION '1'. CONFIRM LOCATION OF VALVES WITH OWNER'S REPRESENTATIVE.

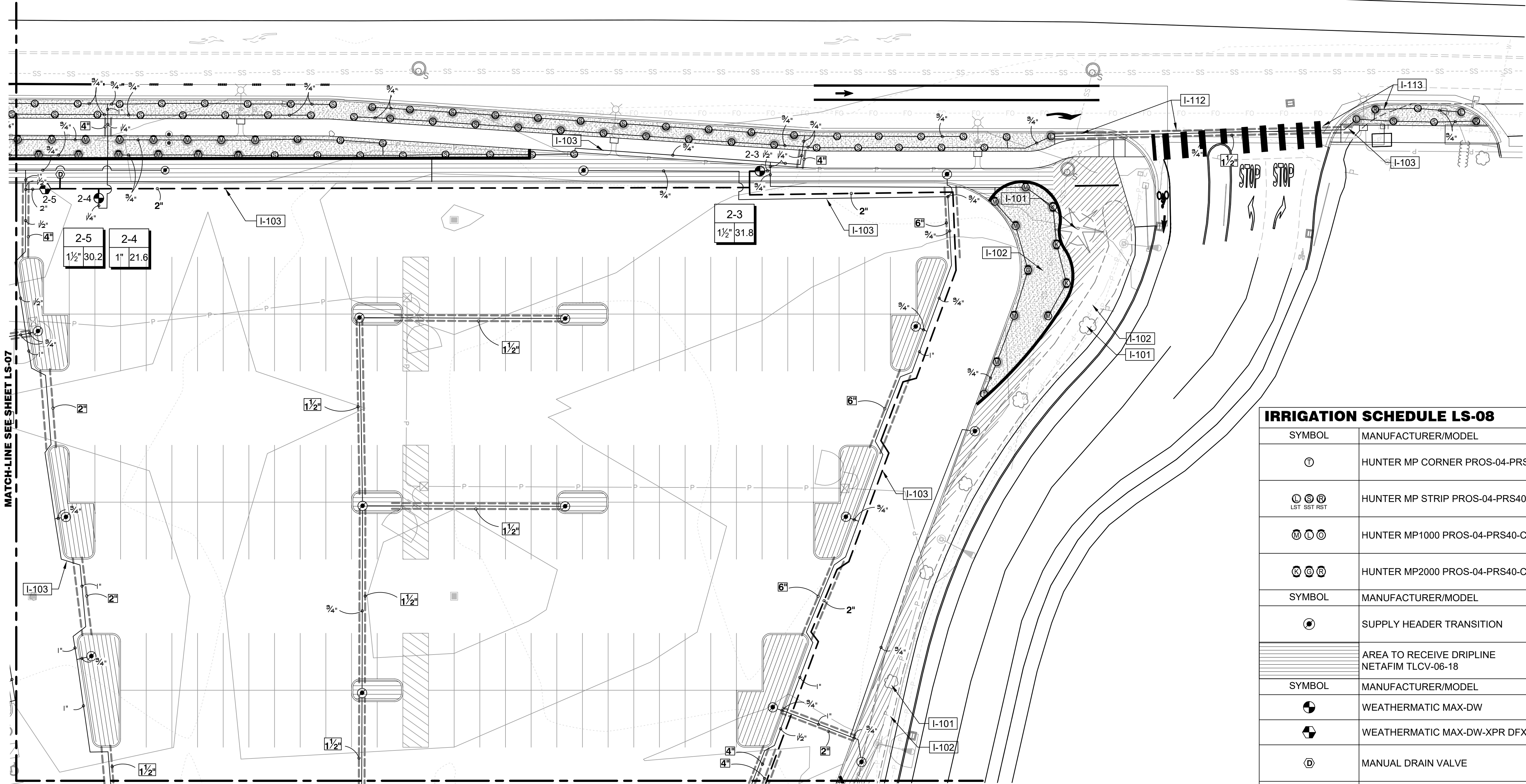
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NO PROJECTS/2023 CITY OF LACEY/22-000313 RAC PARKING LOT DESIGN/CADD/22-000313 X-R-DWG

### CALL BEFORE YOU DIG

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

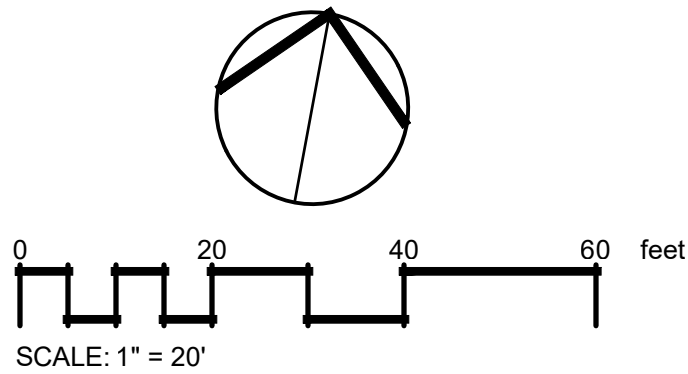


### IRRIGATION SCHEDULE LS-08

SYMBOL	DESCRIPTION
I-101	PRESERVE AND PROTECT EXISTING TREES AND/OR LANDSCAPE PLANTINGS TO REMAIN, THIS AREA. PRESERVE AND PROTECT EXISTING IRRIGATION LINES AND HEADS TO REMAIN ALONG EXISTING PAVING/WALKS. FIELD VERIFY EXTENTS OF EXISTING LANDSCAPE TO REMAIN AND ADJUST IRRIGATION EQUIPMENT AS NEEDED.
I-102	PRESERVE AND PROTECT EXISTING IRRIGATION VALVES AND EQUIPMENT, THIS AREA. ENSURE THAT THE OPERATION AND FUNCTION OF EXISTING IRRIGATION ZONES IN THIS AREA ARE PRESERVED.
I-103	IRRIGATION PLAN IS DIAGRAMMATIC, TYP. ALL LINES, HEADS, VALVES AND OTHER IRRIGATION EQUIPEMENT SHALL BE INSTALLED IN LANDSCAPE AREAS WHERE POSSIBLE AND WITHIN PROJECT LIMITS UNLESS OTHERWISE NOTED.
I-112	COORDINATE PIPE CROSSING AND SLEEVE UNDER EXISTING PAVING TO REMAIN WITH PROPOSED ELECTRICAL CONDUIT
I-113	PROVIDE IRRIGATION FOR THIS LAWN AREA, IF IRRIGATION SLEEVE CAN BE LOCATED IN THE UTILITY TRENCH, SEE ELECTRICAL AND/OR UTILITY PLANS.

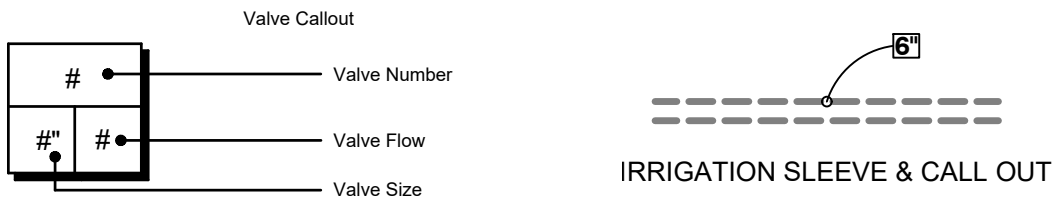
### IRRIGATION SHEET NOTES

- SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PLAN IS DIAGRAMMATIC. ALL PIPING, LATERALS, AND WIRE TO BE LOCATED IN BED OR LAWN AREAS WHERE APPROPRIATE.
- PIPE SIZES ARE TO REMAIN CONSTANT BETWEEN PIPE SIZE CALL-OUTS. PIPES ARE LABELED TO SMALLEST PIPE SIZE ONLY (3/4").
- ALL IRRIGATION HEADS LOCATED IN LAWN AREAS SHALL BE 4" POP-UPS AND HEADS IN SHRUB AREAS SHALL BE 12" POP-UPS.
- ALL DRIP TUBING SHALL BE INSTALLED BELOW THE FINISH SOIL GRADE UNLESS NOTED OTHERWISE. INSTALL TUBING AT A CONSISTENT DEPTH OF 2" BELOW TOP OF TOPSOIL.
- ALL PIPES AND SLEEVES UNDER PAVED AREAS SHALL BE 24" DEEP. ALL MAINLINE SHALL BE 18" DEEP IN ALL UNPAVED AREAS, 24" IN PAVED AREAS. ALL LATERALS SHALL BE 12" DEEP IN ALL UNPAVED AREAS AND 24" DEEP IN PAVED AREAS.
- LOCATE ALL MAINLINES WITHIN THE PROJECT LIMITS. INSTALL #14-AWG DIRECT BURIAL LOW VOLTAGE WIRE ALONG MAINLINE; TAPE AND BUNDLE WIRE EVER 20' FT. PROVIDE RED COLOR WIRE FOR SIGNAL AND WHITE COLOR WIRE FOR COMMON. PROVIDE A MINIMUM OF ONE SPARE WIRE FOR EVERY 10 VALVES FOR A MAXIMUM OF FIVE SPARE WIRES.
- ALL WORK SHALL BE PERFORMED TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT/OWNER.



### IRRIGATION SCHEDULE LS-08

SYMBOL	MANUFACTURER/MODEL	DETAIL
①	HUNTER MP CORNER PROS-04-PRS40-CV	5/LS-11
① ② ③ LST SST RST	HUNTER MP STRIP PROS-04-PRS40-CV	5/LS-11
④ ⑤ ⑥	HUNTER MP1000 PROS-04-PRS40-CV	5/LS-11
⑦ ⑧ ⑨	HUNTER MP2000 PROS-04-PRS40-CV	5/LS-11
SYMBOL	MANUFACTURER/MODEL	DETAIL
⊙	SUPPLY HEADER TRANSITION	8/LS-11
▨	AREA TO RECEIVE DRIPLINE NETAFIM TLCV-06-18	8/LS-11
SYMBOL	MANUFACTURER/MODEL	DETAIL
⊕	WEATHERMATIC MAX-DW	3/LS-11
⊕	WEATHERMATIC MAX-DW-XPR DFX-140	4/LS-11
ⓓ	MANUAL DRAIN VALVE	2/LS-11
— — — — —	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21	
— — — — —	IRRIGATION MAINLINE: PVC SCHEDULE 40	
=====	PIPE SLEEVE: PVC CLASS 200 SDR 21	



### VALVE SCHEDULE LS-08

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC
2-3	WEATHERMATIC MAX-DW	1-1/2"	TURF ROTARY	31.76	47.7	52.3
2-4	WEATHERMATIC MAX-DW	1"	TURF ROTARY	21.61	51.9	55.1
2-5	WEATHERMATIC MAX-DW-XPR DFX-140	1-1/2"	AREA FOR DRIPLINE	30.23	37.4	43.4

BY  
DATE  
REVISIONS

SCJ ALLIANCE  
CONSULTING SERVICES  
8730 TALON LANE NE SUITE 200, LACEY, WA 98516  
P: 360.352.1500 F: 360.352.1509

CITY OF LACEY WASHINGTON  
DEPARTMENT OF PUBLIC WORKS  
420 COLLEGE STREET S.E.  
LACEY, WA 98503-1238 (360) 491-5800

NORTHEAST IRRIGATION

RAC PARKING LOT EXPANSION  
8345 STEILACOOM RD SE  
LACEY, WA

STATE OF WASHINGTON  
J. GLENN B. GLANDER  
NO. 12345  
LICENSED LANDSCAPE ARCHITECT  
09/13/2023







DESIGNER:  
J. MCFARLAND  
DRAWN BY:  
J. MCFARLAND  
APPROVED BY:  
J. GLANDER  
DATE:  
SEPT. 13, 2023  
JOB NO:  
22-000313  
DRAWING FILE NO:  
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SHEET NO:  
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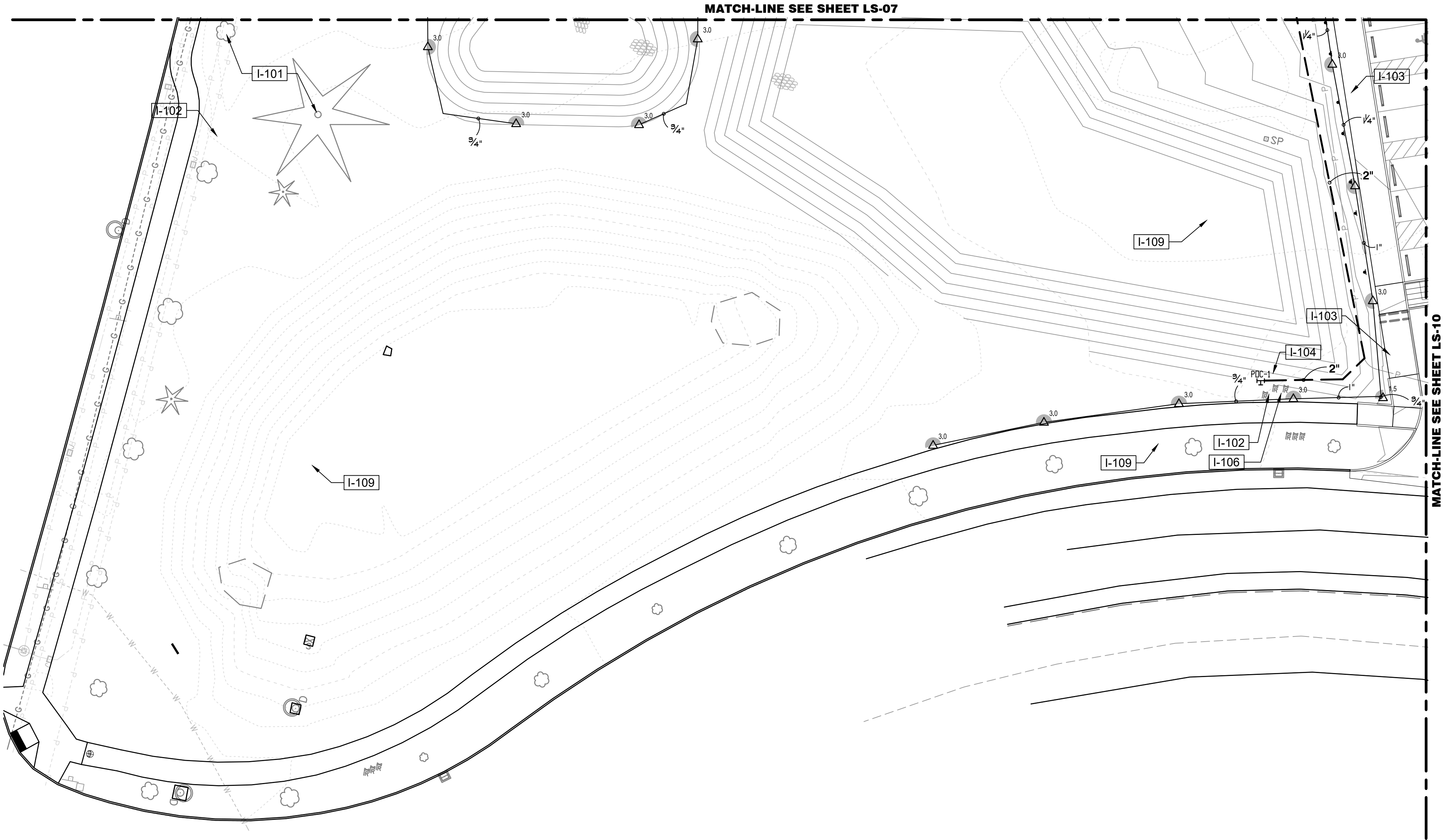
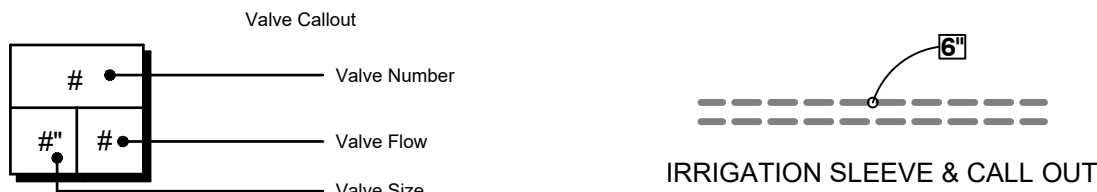


SEP 13, 2023 3:18 PM - User: jclark-hodges  
PROJECT: 22-000313 CITY OF LACEY 22-000313 RAC PARKING LOT DESIGN (CADD) 22-000313 X-R-LDWG

CALL BEFORE YOU DIG

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.







IRRIGATION SCHEDULE LS-09			
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
	HUNTER I-20-06 1.5 TURF ROTOR, 6IN. POP-UP. ADJUSTABLE AND FULL CIRCLE. PLASTIC RISER. DRAIN CHECK VALVE. STANDARD NOZZLE.	35	6/LS-11
	HUNTER I-20-06 3.0 TURF ROTOR, 6IN. POP-UP. ADJUSTABLE AND FULL CIRCLE. PLASTIC RISER. DRAIN CHECK VALVE. STANDARD NOZZLE.	35	6/LS-11
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION		DETAIL
	POINT OF CONNECTION 3" IRRIGATION POC 1 AT TEE OFF EXISITNG 3" MAINLINE "D", FIELD VERIFY LOCATION. VERIFY WITH OWNER'S REPRESENTATIVE PRIOR TO CONNECTION. VERIFY AND PRESERVE (2) EXISTING SPARE WIRES FOR USE, THIS INSTALLATION. 70N PSI EXISTING STATIC PRESSURE PER CITY OF LACEY REP.		
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21		
	IRRIGATION MAINLINE: PVC SCHEDULE 40		
	PIPE SLEEVE: PVC CLASS 200 SDR 21		





IRRIGATION SHEET NOTES

- SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PLAN IS DIAGRAMMATIC. ALL PIPING, LATERALS, AND WIRE TO BE LOCATED IN BED OR LAWN AREAS WHERE APPROPRIATE.
- PIPE SIZES ARE TO REMAIN CONSTANT BETWEEN PIPE SIZE CALL-OUTS. PIPES ARE LABELED TO SMALLEST PIPE SIZE ONLY (3/4").
- ALL IRRIGATION HEADS LOCATED IN LAWN AREAS SHALL BE 4" POP-UPS AND HEADS IN SHRUB AREAS SHALL BE 12" POP-UPS.
- ALL DRIP TUBING SHALL BE INSTALLED BELOW THE FINISH SOIL GRADE UNLESS NOTED OTHERWISE. INSTALL TUBING AT A CONSISTENT DEPTH OF 2" BELOW TOP OF TOPSOIL.
- ALL PIPES AND SLEEVES UNDER PAVED AREAS SHALL BE 24" DEEP. ALL MAINLINE SHALL BE 18" DEEP IN ALL UNPAVED AREAS, 24" IN PAVED AREAS. ALL LATERALS SHALL BE 12" DEEP IN ALL UNPAVED AREAS AND 24" DEEP IN PAVED AREAS.
- LOCATE ALL MAINLINES WITHIN THE PROJECT LIMITS. INSTALL #14-AWG DIRECT BURIAL LOW VOLTAGE WIRE ALONG MAINLINE; TAPE AND BUNDLE WIRE EVER 20' FT. PROVIDE RED COLOR WIRE FOR SIGNAL AND WHITE COLOR WIRE FOR COMMON. PROVIDE A MINIMUM OF ONE SPARE WIRE FOR EVERY 10 VALVES FOR A MAXIMUM OF FIVE SPARE WIRES.
- ALL WORK SHALL BE PERFORMED TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT/OWNER.

IRRIGATION SCHEDULE LS-09

SYMBOL	DESCRIPTION
	PRESERVE AND PROTECT EXISTING TREES AND/OR LANDSCAPE PLANTINGS TO REMAIN, THIS AREA. PRESERVE AND PROTECT EXISTING IRRIGATION LINES AND HEADS TO REMAIN ALONG EXISTING PAVING/WALKS. FIELD VERIFY EXTENTS OF EXISTING LANDSCAPE TO REMAIN AND ADJUST IRRIGATION EQUIPMENT AS NEEDED.
	PRESERVE AND PROTECT EXISTING IRRIGATION VALVES AND EQUIPMENT, THIS AREA. ENSURE THAT THE OPERATION AND FUNCTION OF EXISTING IRRIGATION ZONES IN THIS AREA ARE PRESERVED.
	IRRIGATION PLAN IS DIAGRAMMATIC, TYP. ALL LINES, HEADS, VALVES AND OTHER IRRIGATION EQUIPEMENT SHALL BE INSTALLED IN LANDSCAPE AREAS WHERE POSSIBLE AND WITHIN PROJECT LIMITS UNLESS OTHERWISE NOTED.
	IRRIGATION POINT OF CONNECTION 1 AT TEE OFF OF EXISTING 3" IRRIG. MAINLINE "D". FIELD VERIFY LOCATION AND EQUIPMENT AND CONFIRM CONNECTION WITH OWNER'S REPRESENTATIVE. STATIC PRESSURE IS 70 PSI PER CITY OF LACEY.
	PRESERVE TWO (2) EXISTING SPARE WIRES AT EXISTING CONTROL VALVE TO REMAIN, THIS LOCATION. FIELD VERIFY CONDITION AND OPERATION. SPARE WIRES SHALL BE USED FOR CONNECTION TO PROPOSED CONTROL VALVES CONNECTED TO POC 1
	NO WORK THIS AREA

BY	DATE	REVISIONS	SCJ ALLIANCE CONSULTING SERVICES 8730 FALLON LANE NE SUITE 200, LACEY, WA 98516 P: 360.352.2100 F: 360.352.1509 WWW.SCJALLIANCE.COM	 LACEY CITY OF LACEY, WASHINGTON DEPARTMENT OF PUBLIC WORKS 420 COLLEGE STREET S.E. LACEY, WA 98503-1238 (360) 491-5800
SHEET TITLE: SOUTHEAST IRRIGATION PLAN		PROJECT NAME: RAC PARKING LOT EXPANSION 8345 STEILACOOM RD SE LACEY, WA		
SEAL: 		DESIGNER: J. MCFARLAND DRAWN BY: J. MCFARLAND APPROVED BY: J. GLANDER DATE: SEPT. 13, 2023 JOB NO: 22-000313 DRAWING FILE NO: 22-000313 X-LS DRAWING NO: LS-09 SHEET NO: 34 OF 45		



The diagram illustrates the components of a valve callout and an irrigation sleeve. On the left, a 'Valve Callout' is shown as a rectangular box divided into three sections. The top section contains a '#' symbol and a dot, labeled 'Valve Number'. The middle section contains a '#' symbol and a dot, labeled 'Valve Flow'. The bottom section contains a '#' symbol and a dot, labeled 'Valve Size'. On the right, an 'IRRIGATION SLEEVE & CALL OUT' is shown as a horizontal dashed line with a small circle at its right end, labeled '6'.

## BEFORE YOU DIG

CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL LOCATE ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

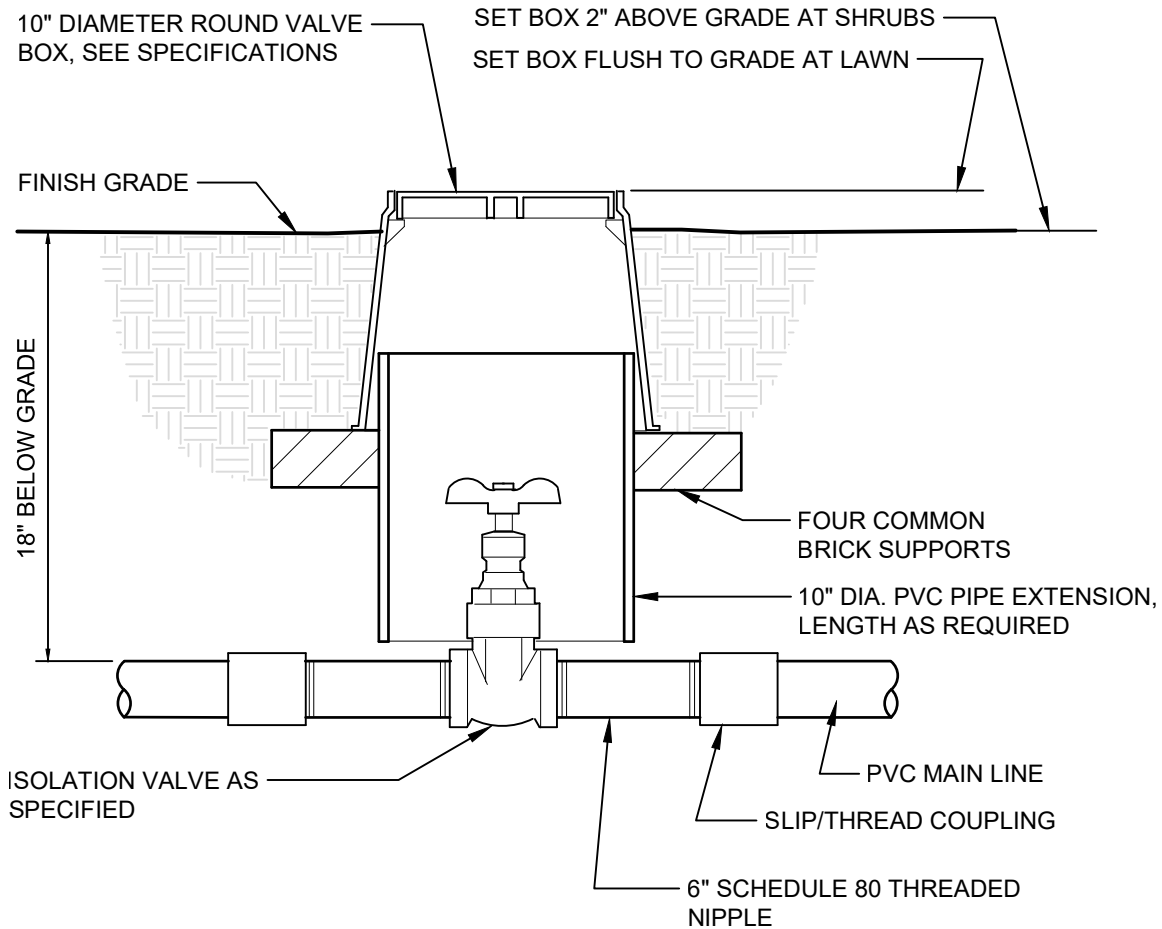


- ## IRRIGATION SCHEDULE LS-10

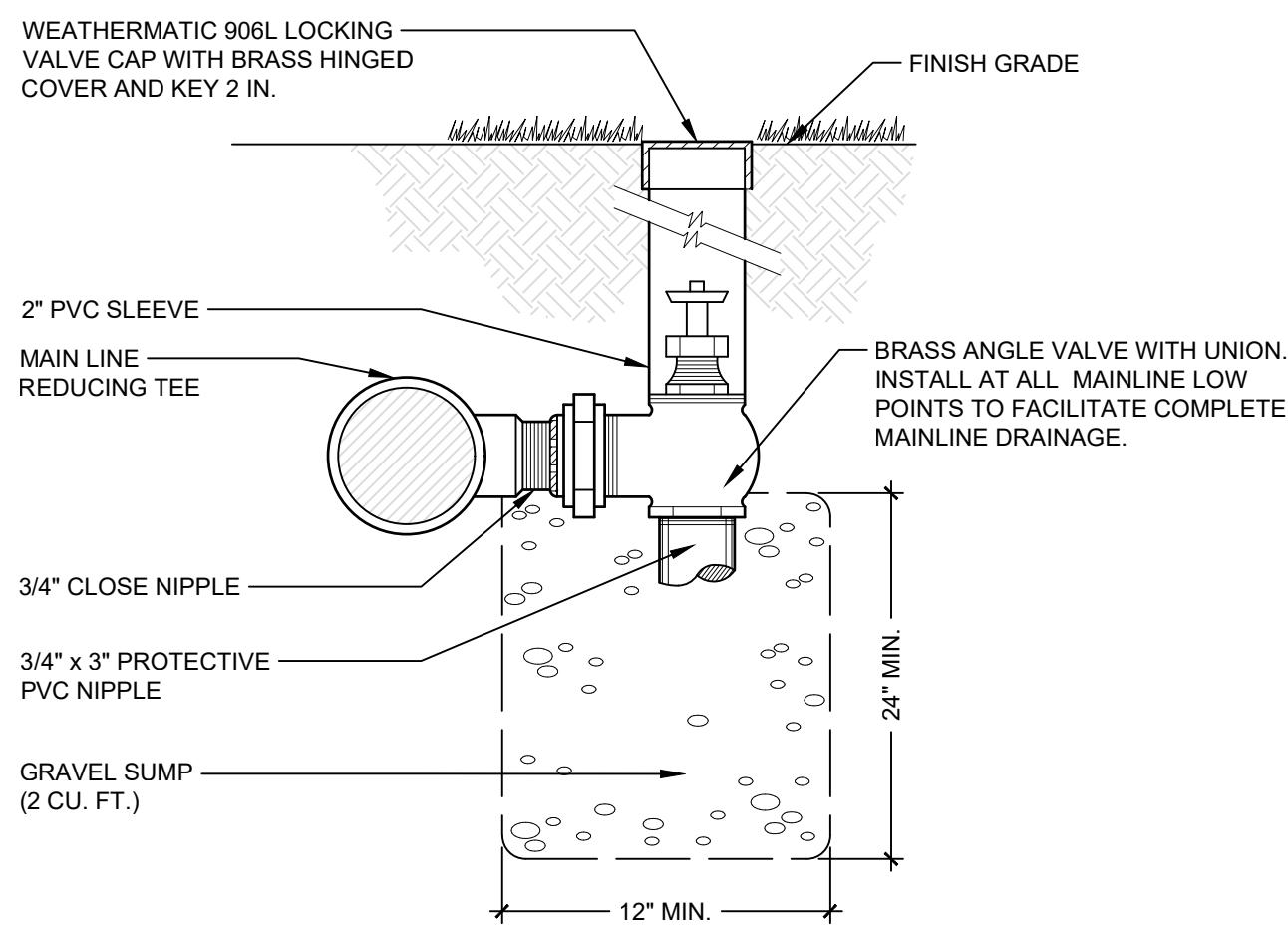
0 20 40 60 feet

SCALE: 1" = 20'

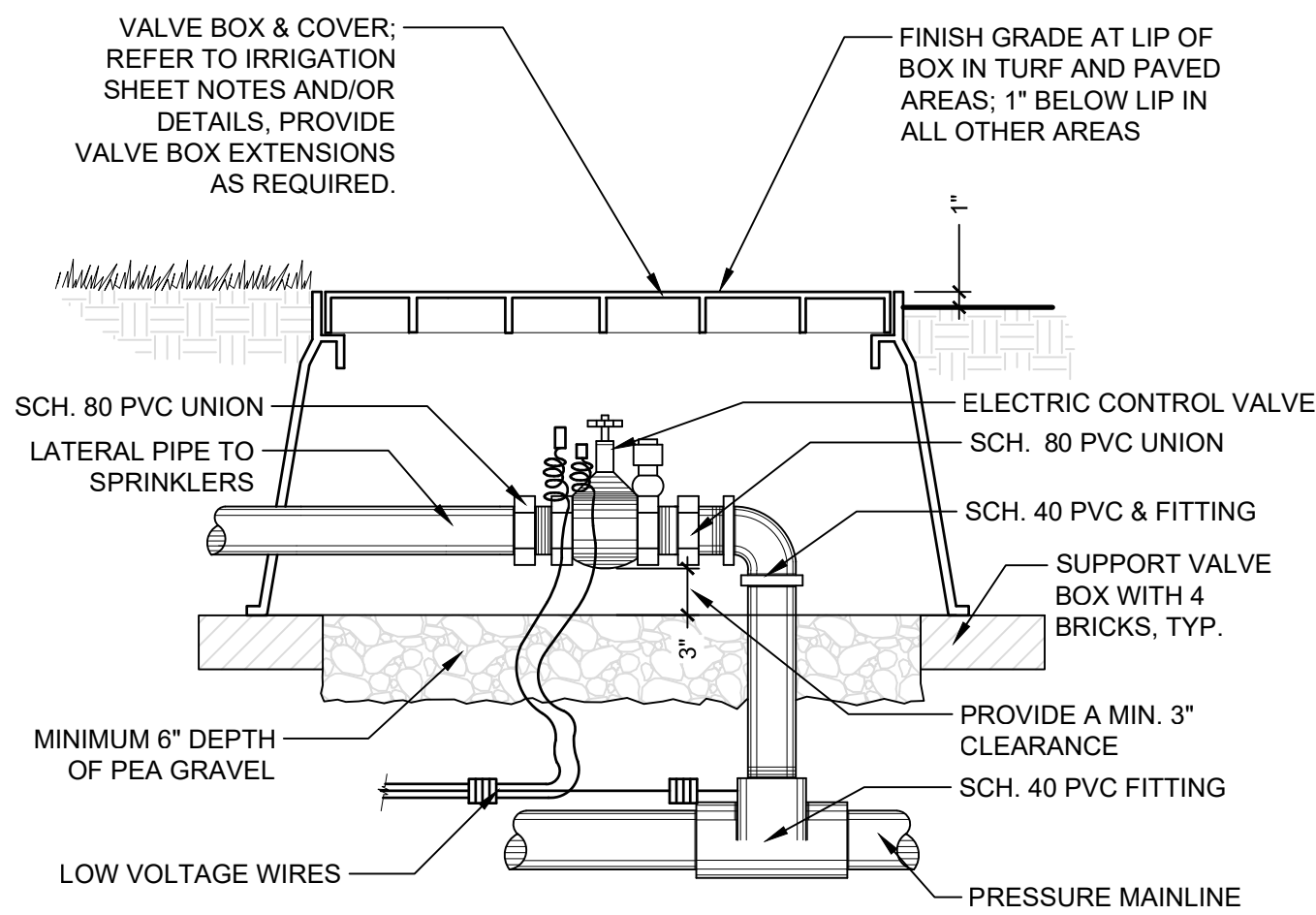




**1 SHUT OFF VALVE**  
1 1/2" = 1'-0" P-PU-RAC-06

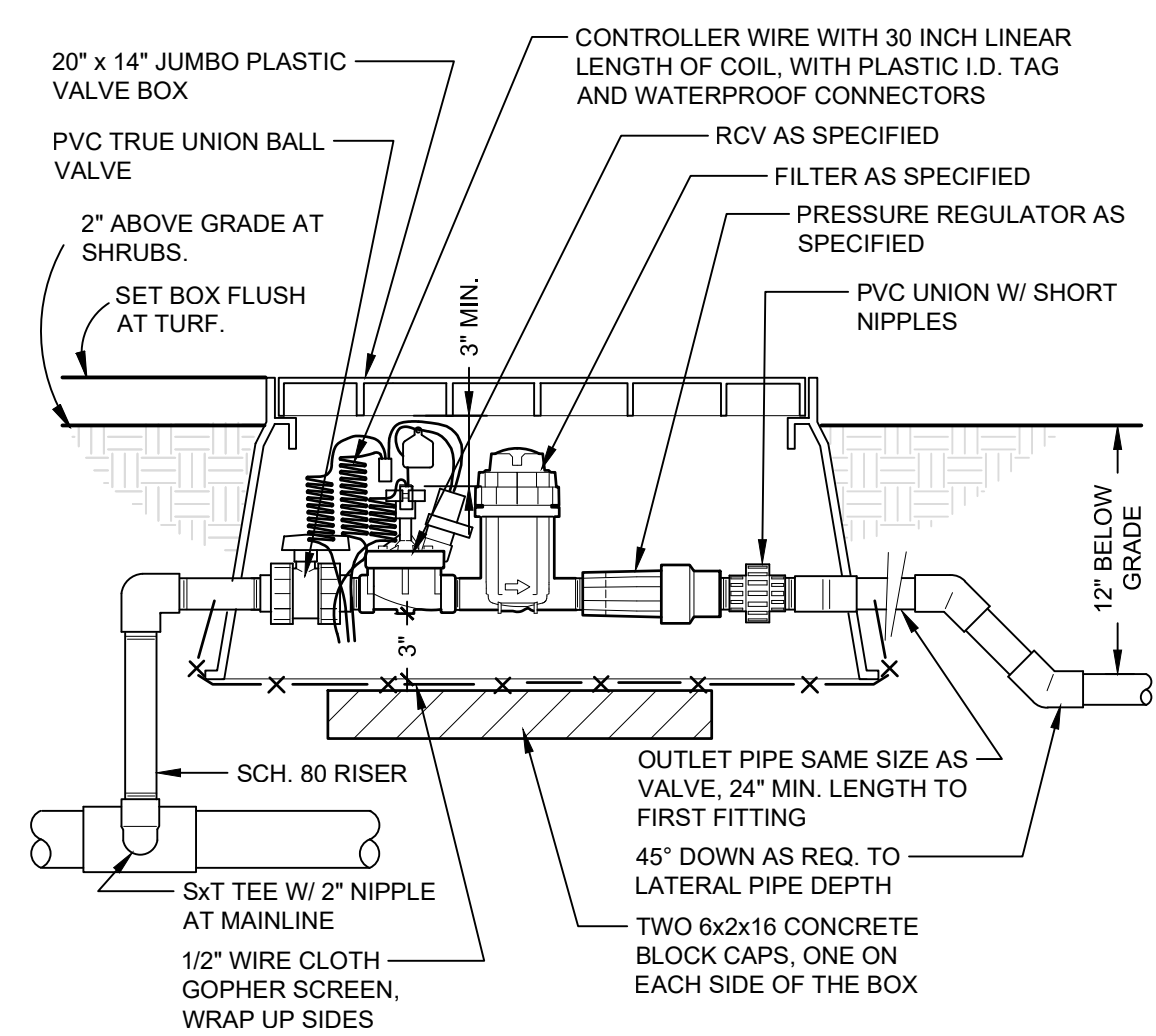


**2 MANUAL DRAIN VALVE DETAIL**  
NTS P-PU-RAC-04



**3 ELECTRONIC CONTROL VALVE**  
1" = 1'-0" P-PU-RAC-12

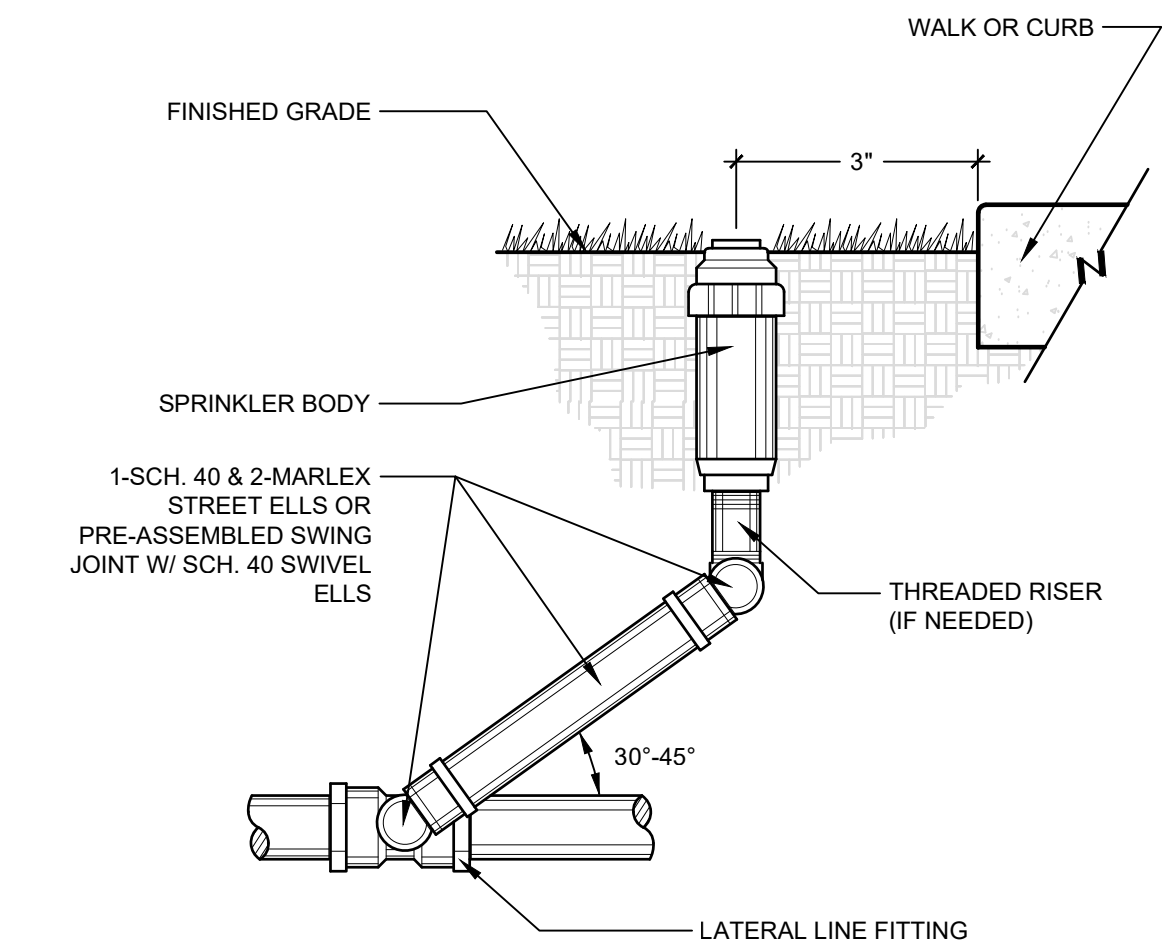
**NOTE:** ALL WIRES TO BE INSTALLED AS PER LOCAL CODES. NO "IN-LINE" WIRE SPLICES ALLOWED. TAPE AND BUNDLE WIRES EVERY 20 FEET. PROVIDE EXPANSION COILS AT EACH VALVE - WRAPPING WIRE AROUND 1/2" PIPE 15 TIMES. ALL THREADED CONNECTIONS SHALL BE MADE WITH TEFLON TAPE.



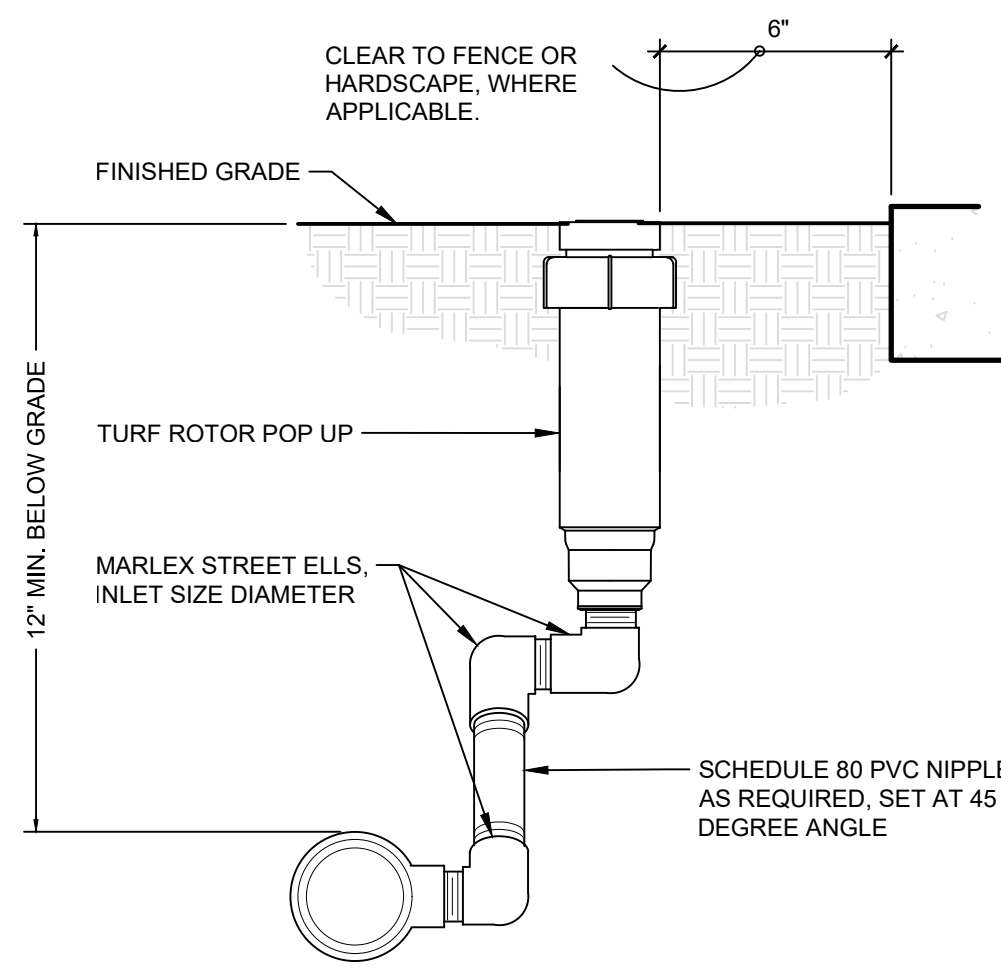
**4 1" DRIP VALVE W/BASKET FILTER**  
1 1/2" = 1'-0" P-PU-RAC-08

## IRRIGATION SPECIFICATIONS

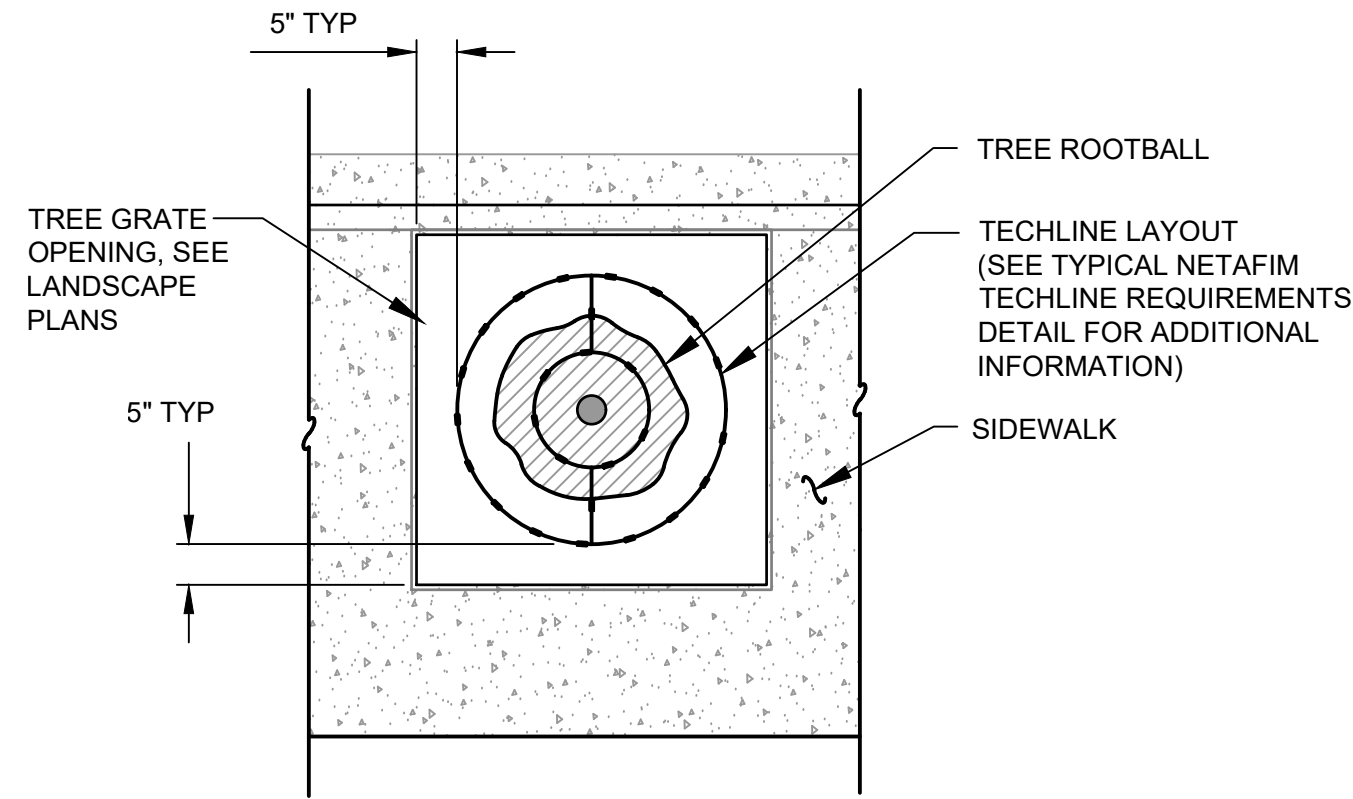
- THIS PLAN IS DIAGRAMMATIC; ALL PIPING, VALVES, ETC. SHALL BE INSTALLED IN SHRUB BEDS WHERE POSSIBLE AND SHALL FOLLOW THE PLAN AS CLOSE AS IS PRACTICAL.
- LOCATE ALL MAINLINES WITHIN THE PROJECT LIMITS.
- PIPE SIZES ARE CONSTANT BETWEEN PIPE SIZE CALL-OUTS. ALL LATERAL PIPES SHALL BE INSTALLED AT 12" DEPTH AND 24" DEPTH UNDER PAVED AREAS. MAINLINE PIPE SHALL BE INSTALLED AT 18" BELOW GRADE AND 24" BELOW PAVED AREAS.
- REFER TO DETAILS FOR ADDITIONAL INFORMATION.
- ALL PIPING AND WIRING UNDER PAVED AREAS SHALL BE HOUSED IN CLASS 200 PVC SLEEVES INSTALLED AT A 24" DEPTH. SIZE SLEEVES AS NEEDED TO ACCOMMODATE PIPE AND WIRES, UNLESS OTHERWISE SPECIFIED ON DRAWING.
- CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED TO OBTAIN FULL COVERAGE. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE NOZZLE CHANGES AS NEEDED AT NO ADDITIONAL COST. ADJUST HEAD POSITIONS AND ADD OR DELETE HEADS AS NEEDED DEPENDING ON ACTUAL FIELD CONDITIONS.
- ALL MANUAL, GATE AND ELECTRICAL VALVES AND OTHER UNDERGROUND EQUIPMENT SHALL BE HOUSED IN NELSON, AMETEK OR EQUAL RECTANGULAR VALVE BOXES.
- NO IN-LINE WIRE SPLICES ALLOWED. SUPPLY VALVE BOXES AT ALL ELECTRICAL JUNCTIONS. TAPE AND BUNDLE WIRES EVERY 25 LINEAR FEET.
- CONTRACTOR IS RESPONSIBLE FOR COMPLETE SYSTEM DRAINAGE. INSTALL KING BROS. 1/2" AUTOMATIC DRAIN VALVES AT LATERAL LINE LOW POINT(S). INSTALL MANUAL DRAINS AT ALL MAINLINE LOW POINT(S) AND WHERE INDICATED ON PLAN. CONTRACTOR SHALL PROVIDE ADJUSTABLE CHECK VALVES ON ANY IRRIGATION HEAD THAT EXPERIENCES LOW HEAD DRAINAGE.
- ALL THREADED PIPE CONNECTIONS SHALL BE MADE USING TEFLON TAPE WRAPPED AT LEAST THREE TIMES AROUND PIPE THREADS.
- ALL GATE AND ELECTRIC VALVES SHALL BE INSTALLED WITH UNIONS ON THE DOWNSTREAM END OF THE VALVE (REFER TO DETAILS).
- ALL PIPE SHALL HAVE A FIRM UNIFORM BEARING FOR THE ENTIRE LENGTH OF EACH LINE, FREE OF ROCKS OR DEBRIS. ALL TRENCHES CONTAINING PIPE AND/OR WIRES SHALL BE BACKFILLED WITH CLEAN TOPSOIL, FREE OF ALL LUMBER, RUBBISH AND ROCKS OVER 1" IN SIZE, OR CLEAN SAND IF CLEAN TOPSOIL IS NOT AVAILABLE.
- CONTRACTOR SHALL PROVIDE OWNER WITH ONE SET OF AS-BUILT RECORD DRAWINGS SHOWING EXACT ACTUAL LOCATIONS OF ALL SPRINKLER EQUIPMENT. CONTRACTOR SHALL ORIENT OWNER WITH COMPLETE SYSTEM AND CONTROLLER OPERATIONS, AND WINTERIZATION PROCEDURES.
- CONTRACTOR SHALL SUPPLY AND INSTALL ALL EQUIPMENT SHOWN ON THE PLANS AND INDICATED IN THE SPECIFICATIONS TO ACHIEVE PROPER OPERATION OF SAID EQUIPMENT. ALL EQUIPMENT INSTALLATIONS, ELECTRICAL AND PLUMBING CONNECTIONS SHALL BE IN CONFORMANCE WITH ALL APPLICABLE CODES AND ORDINANCES, THESE SPECIFICATIONS, AND THE MANUFACTURERS RECOMMENDATIONS WHETHER INDICATED ON THE DRAWINGS OR NOT.
- CONTRACTOR SHALL INCLUDE IN HIS BID ONE FALL WINTERIZATION AND ONE SPRING ACTIVATION OF IRRIGATION SYSTEM. THESE ACTIVITIES SHALL BE INCLUDED AS PART OF OWNER ORIENTATION PROCEDURES. ANY DAMAGE TO THE IRRIGATION SYSTEM OR THE LANDSCAPE AS A RESULT OF FAILURE TO COMPLY WITH THESE REQUIREMENTS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL GUARANTEE IN WRITING ON HIS COMPANY LETTERHEAD ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE FULL YEAR FOLLOWING ACCEPTANCE OF SYSTEM INSTALLATION.
- BACKFLOW PREVENTOR SHALL BE INSPECTED AND TESTED BY A CERTIFIED BACKFLOW DEVICE INSPECTOR. PROVIDE OWNER WITH ONE COPY OF APPROVAL CERTIFICATE.



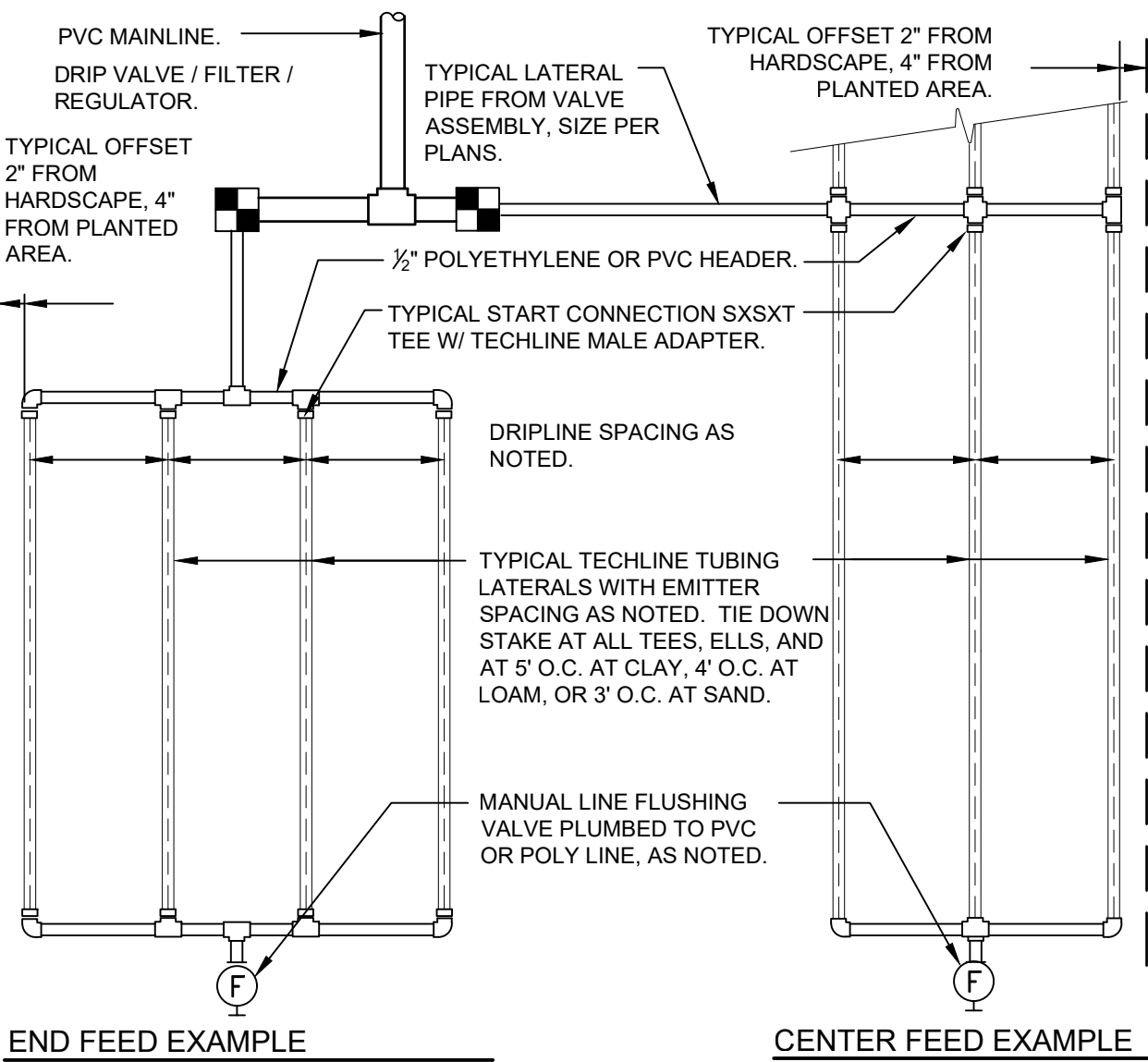
**5 POP-UP SPRINKLER HEAD**  
N.T.S. P-PU-RAC-05



**6 TURF ROTOR MARLEX ASSEMBLY**  
3" = 1'-0" P-PU-RAC-20

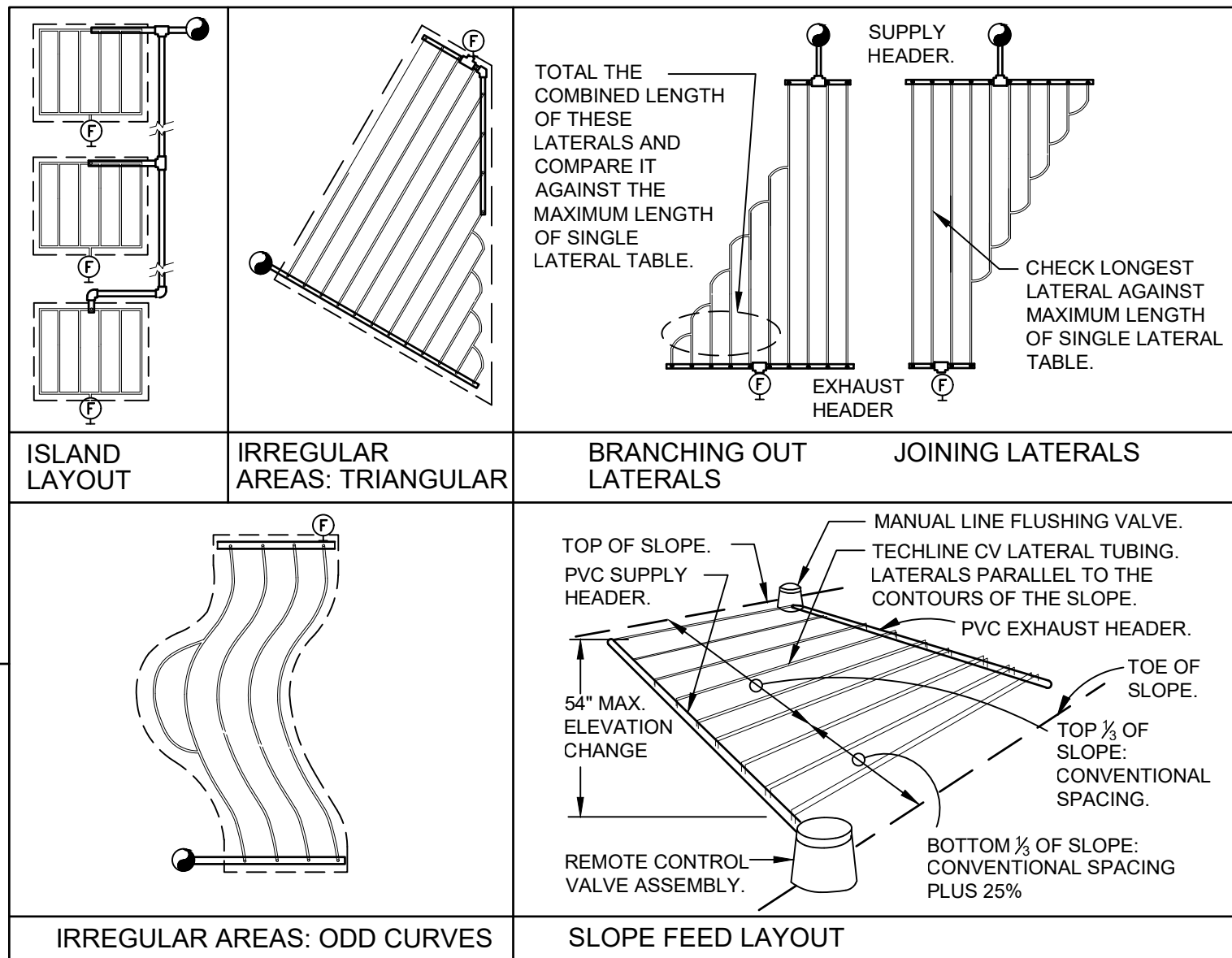
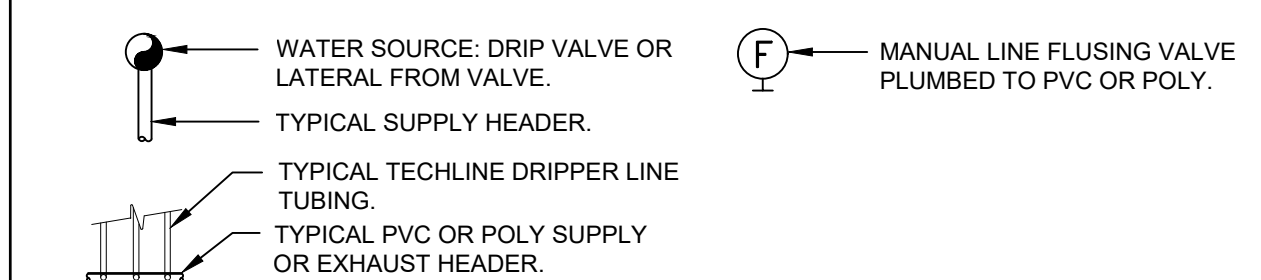


**7 TREE IN TREE GRATE IRRIGATION LAYOUT**  
1" = 1" P-PU-RAC-35



**8 TYPICAL NETAFIM TECHLINE CV REQUIREMENTS**  
3" = 1'-0" P-PU-RAC-34

TECHLINE CV MAXIMUM LENGTH OF SINGLE LATERAL (FEET)											
DRIPPER SPACING		12"				18"				24"	
DRIPPER FLOW RATE (GPH)		0.26	0.4	0.6	0.9	0.26	0.4	0.6	0.9	0.6	0.9
INLET PRESSURE (PSI)	15	127	109	86	65	177	151	120	91	152	116
	25	427	325	256	194	604	459	361	274	458	348
	35	539	409	322	244	763	579	456	346	580	440
INLET PRESSURE (PSI)	45	618	469	369	280	877	664	523	397	666	506
	45	618	469	369	280	877	664	523	397	666	506
TECHLINE CV FLOW PER 100 FEET											
DRIPPER SPACING		0.26 GPH DRIPPER		0.4 GPH DRIPPER		0.6 GPH DRIPPER		0.9 GPH DRIPPER			
DRIPPER SPACING	GPH	GPM	GPH	GPM	GPH	GPM	GPH	GPM	GPH	GPM	GPM
	12"	26.40	0.44	40.00	0.67	61.00	1.02	92.00	1.53		
	18"	17.58	0.29	26.67	0.44	41.00	0.68	61.00	1.02		
	24"	N/A	N/A	N/A	N/A	31.00	0.51	46.00	0.77		



## CALL BEFORE YOU DIG

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

BY  
DATE  
REVISIONS

**SCJ ALLIANCE**  
CONSULTING SERVICES  
8739 TALON LANE, SUITE 200, LACEY, WA 98516  
P: 360.752.2466 F: 360.832.1509  
WWW.SCJALLIANCE.COM

**CITY OF LACEY, WASHINGTON**  
DEPARTMENT OF PUBLIC WORKS  
420 COLLEGE STREET S.E.  
LACEY, WA 98503-1238 (360) 491-5800

IRRIGATION DETAILS

PROJECT NAME  
**RAC PARKING LOT EXPANSION**  
8345 STEILACOOM RD SE  
LACEY, WA

SHEET TITLE  
DESIGNER: J. MCFARLAND  
DRAWN BY: J. MCFARLAND  
APPROVED BY: J. GLANDER  
DATE: SEPT. 13, 2023  
JOB NO: 22-000313  
DRAWING FILE NO: 22-000313 X-LS  
DRAWING NO: LS-11  
SHEET NO: 36 OF 45



Sep 13, 2023, 11:17:30am - User: Michael Meredith  
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SEC. 14, T 18N., R 1W., W.M.

GENERAL CONSTRUCTION NOTES

1. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL BE FAMILIAR WITH THE SITE AND CONDITIONS, AND SHALL NOT RELY SOLELY ON REVIEW OF THE DOCUMENTS IN DETERMINING THE EXTENT OF WORK REQUIRED. COORDINATION OF THESE DRAWINGS WITH REQUIREMENTS FOR CONTRACT WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.
2. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND UTILITY FEES.
3. SEE EACH SHEET FOR ADDITIONAL GENERAL NOTES THAT ARE SPECIFIC TO AN AREA OR SHEET.
6. MATERIALS AND WORKMANSHIP SHALL FULLY COMPLY WITH THE REQUIREMENT OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (N.F.P.A. #70), THE LAWS AND REGULATION OF WASHINGTON STATE, AND THE LOCAL AHJ OF ALL WORK AND MATERIAL TO BUILDING STANDARDS AND CODE UNLESS NOTED OTHERWISE.
7. ALL PVC CONDUITS SHALL CONTAIN EQUIPMENT GROUNDING CONDUCTOR. ALL CONDUITS UNDER THE ROADWAY SHALL BE PVC SCHEDULE 80.

STREET LIGHTING CONSTRUCTION NOTES

1. ALL WORK TO BE PROVIDED AND INSTALLED PER THE CITY OF LACEY AND WSDOT STANDARDS.
2. PROVIDE POLE AND BRACKET CABLE UP EACH POLE.
3. ALL LUMINARIES SHALL HAVE FUSES LOCATED AT THE POLE BASE.
4. ALL SPLICES SHALL BE MADE IN JUNCTION BOXES.
5. PROVIDE NUMBERING ON EACH POLE PER CITY OF LACEY STANDARDS.
6. E.C. TO CONTACT THE LACEY PLANNING DEPARTMENT FOR THE MAXIMUM ALLOWED POLE HEIGHT PRIOR TO ORDERING.

ADDITIVE ALTERNATES

- 1

**ADDITIVE ALTERNATE #1:**

BASE

UNDER BASE BID, PROVIDE ROUGH-IN ONLY FOR FUTURE EV CHARGING STATION #5, AS NOTED IN THESE DRAWINGS.

ALTERNATE:

UNDER ALTERNATE BID, FURNISH AND INSTALL EV CHARGING STATION #5, CHARGEPOINT CPE250, 480V/3P EV CHARGING STATION, COMPLETE WITH ALL HARDWARE, TERMINATIONS, APPURTENANCES, AND COMMISSIONING FOR A FULLY FUNCTIONAL SYSTEM. PROVIDE WITH 5-YEAR SERVICE AGREEMENT AND CLOUD PLAN. COORDINATE WITH GC AND THE SITE CONTRACTOR FOR INSTALLATION OF BOLLARDS UNDER THIS ALTERNATE.
- 2

**ADDITIVE ALTERNATE #2:**

BASE

UNDER BASE BID, PROVIDE ROUGH-IN ONLY FOR FUTURE EV CHARGING STATION #6, AS NOTED IN THESE DRAWINGS.

ALTERNATE:

UNDER ALTERNATE BID, FURNISH AND INSTALL EV CHARGING STATION #6, CHARGEPOINT CPE250, 480V/3P EV CHARGING STATION, COMPLETE WITH ALL HARDWARE, TERMINATIONS, APPURTENANCES, AND COMMISSIONING FOR A FULLY FUNCTIONAL SYSTEM. PROVIDE WITH 5-YEAR SERVICE AGREEMENT AND CLOUD PLAN. COORDINATE WITH GC AND THE SITE CONTRACTOR FOR INSTALLATION OF BOLLARDS UNDER THIS ALTERNATE.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
LIGHTING	
	PARKING LOT POLE LIGHT FIXTURE (ARROW INDICATES DIRECTION OF AIMING FOR OPTICS)
	STREET LIGHT FIXTURE (ARROW INDICATES DIRECTION OF AIMING FOR OPTICS)
EQUIPMENT, WIRING AND RACEWAYS	
	CONDUIT STUB OUT (PROVIDE CONCRETE MARKER ON EXTERIOR)
	DEDICATED CONDUIT HOMERUN TO PANEL & CIRCUIT NUMBERS AS INDICATED ON PLANS
	RACEWAY CONCEALED IN WALL OR CEILING
	RACEWAY CONCEALED UNDERGROUND OR UNDER FLOOR SLAB
	MARKS INDICATE NUMBER OF #12 AWG UNLESS NOTED OTHERWISE
	GROUNDING CONDUCTOR
	JUNCTION BOX - SIZE PER CODE
	SITE HANDHOLE
MISCELLANEOUS	
	CONSTRUCTION NOTES
	DEMOLITION NOTES
	W INDICATES WEATHERPROOF FOR ALL DEVICES, PROVIDE LOCKING COVER ON RECEPTACLES.
	WG INDICATES WIRE GUARD
	ALL DEVICES WITH LIGHT LINE WEIGHT INDICATES EXISTING TO BE RETAINED
	ALL DEVICES WITH DASH LINE INDICATES EXISTING TO BE REMOVED
	DETAIL CALL OUT - A INDICATES DETAIL IDENTIFICATION, X INDICATES SHEET DRAWN ON
CCTV SYSTEM	
	FIXED POLE MOUNT CAMERA - MOUNT AT +30' AFG. PROVIDE CAMERA AND ACCESSORIES AS SPECIFIED FOR EACH LOCATION.

ELECTRICAL ABBREVIATIONS

AIC	AMPERE INTERRUPTING CAPACITY
AFC	AVAILABLE FAULT CURRENT
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GUAGE
C.	CONDUIT
CO	CONDUIT ONLY
CU	COPPER
EMT	ELECTRICAL METALLIC TUBING
FLA	FULL LOAD AMPERE(S)
G	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GR	GROUND
KVA	KILOVOLT-AMPERE(S)
KW	KILOWATT(S)
LCP	LIGHTING CONTROL PANEL
LED	LIGHT-EMITTING DIODE(S)
LTG	LIGHTING
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NTS	NOT TO SCALE
PH	PHASE
SCH	SCHEDULE
SPD	SURGE PROTECTION DEVICE
UG	UNDER GROUND
V	VOLT(S)
VA	VOLT-AMPERE(S)
WR	WIRE(S)
XFMR	TRANSFORMER

LIGHTING FIXTURE SCHEDULE

SYMBOL	FIXTURE DESCRIPTION	MANUFACTURER/MODEL #	LAMPS	V	W	MOUNTING & REMARKS
AL1A	SINGLE HEAD LED PARKING LOT FIXTURE	LITHONIA #: HEAD: DSX2 LED-XX-40K-70CRI-XXX-MVOLT-RPA-NLTAIR2-PIRHN-DBLXD POLE: RSS-5B-DM19-TP-DBLBXD	LED 4000K	120/277	160	PROVIDE WITH 5" DIAMETER 30" STEEL ROUND POLE
AL1B	SINGLE HEAD LED PARKING LOT FIXTURE	LITHONIA #: HEAD: DSX2 LED-XX-40K-70CRI-XXX-MVOLT-RPA-NLTAIR2-PIRHN-DBLXD POLE: RSS-5B-DM19-TP-DBLBXD	LED 4000K	120/277	160	PROVIDE WITH 5" DIAMETER 30" STEEL ROUND POLE
AL1C	DOUBLE HEAD LED PARKING LOT FIXTURE	LITHONIA #: HEAD: DSX2 LED-XX-40K-70CRI-XXX-MVOLT-RPA-NLTAIR2-PIRHN-DBLXD POLE: RSS-5B-DM28-TP-DBLBXD	LED 4000K	120/277	320	PROVIDE WITH 5" DIAMETER 30" STEEL ROUND POLE
AL2	LED WIDE BEAM FLOOD LIGHT	BEGA # 77479-K40 (BLK)	LED 4000K	120/277	17.9	PROVIDE WITH DIRECT BURIAL WIRING BOX AND 180-DEGREE GLARE SHIELD. SEE 5/E-701 FOR BASE DETAIL. INSTALL FIXTURES 4FT FROM BASE OF WALL AND AIM FOR EVEN DISTRIBUTION OF LIGHT.
STL	CITY OF LACEY STREET LIGHTING FIXTURE	PHILLIPS LUMEC #: STREET LIGHT: RFM-72W32LED4K-G2-R3M-UNIV-RCD PEDESTRIAN LIGHT: L80-STYLE LANTERN BASE: OLYMPIC FOUNDARY FG3548-BK  FINISH: TEXTURED BLACK POWDER COAT	LED 70 CRI 4000K  8780 DELIVERED LUMENS BUG RATING B2-U0-G2 INPUT DESIGNATOR "B"	240	70	PROVIDE 30'-0" ROUND TAPERED ALUMINUM POLE WITH HANDHOLE AT BASE LOCATED 90-DEGREES FROM BRACKET ARM.  PROVIDE 6'-0" LONG TAPERED ARM FOR STREET LIGHT AND AN SFS ADAPTER AT 15'-0" FOR PEDESTRIAN SCALE FIXTURE.

SHEET TITLE:  
ELECTRICAL LEGEND AND LIGHTING SCHEDULE

PROJECT NAME:  
RAC PARKING LOT EXPANSION  
8345 STEILACOOM RD SE  
LACEY, WA

SEAL:



DESIGNER: MM
DRAWN BY: JM
APPROVED BY: BH
DATE: SEPTEMBER 2023
JOB NO: 22-000313
DRAWING FILE NO: 222-147_E-001
DRAWING NO: E-001
SHEET NO: 34 OF 42



The logo of the National Bureau of Standards (NBS) is a circular emblem. It features a stylized shield or arrow shape pointing upwards, with the letter 'N' in the center. The shield is formed by two diagonal lines meeting at the top and two vertical lines meeting at the bottom, with horizontal lines connecting them. The entire emblem is enclosed within a circle.

Diagram showing the PSE Junction Vault and PSE Utility Pole. The vault is labeled (E) PSE JUNCTION VAULT and the pole is labeled (E) PSE UTILITY POLE. The diagram includes a cross-section of the vault and a plan view of the pole. A triangle labeled 'A' is shown in the plan view, indicating the location of the vault. A line labeled '1' points to the vault. A line labeled '9' points to the pole. The diagram also shows the location of the vault relative to the pole and the road.

1. COORDINATE ALL WORK WITH THE CITY OF LACEY PROJECT MANAGER. COORDINATE ALL OUTGAGES A MINIMUM OF 2 WEEKS IN ADVANCE.
2. COORDINATE ALL UTILITY WORK WITH PSE PRIOR TO STARTING.
3. PROVIDE AND INSTALL A COMPLETE STREET LIGHTING SYSTEM PER THE CITY OF LACEY STANDARDS
4. REFER TO E-702 FOR STREET LIGHTING DETAILS.
5. REFER TO E-601 ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL CONDUIT AND FEEDER INFORMATION.
6. PROVIDE ANY UTILITY LOCATES AND POTHOLES REQUIRED TO AVOID CONFLICTS WITH EXISTING UNDERGROUND INFRASTRUCTURE.
7. ROADWAY LUMINAIRE STATIONING AND CENTERLINE OFFSET MEASURED TO CENTER OF POLE BASE. EXACT LOCATIONS SHALL BE COORDINATED WITH THE CIVIL ENGINEER AND ACTUAL SITE CONDITIONS.
8. ROADWAY HANDHOLE STATIONING AND CENTERLINE OFFSET MEASURED TO CENTER FRONT NEAREST CURB FACE. EXACT LOCATIONS SHALL BE COORDINATED WITH THE CIVIL ENGINEER AND ACTUAL SITE CONDITIONS.

- ① INTERCEPT, SPLICE, AND EXTEND EXISTING STREET LIGHTING CIRCUIT FROM NEAREST HANDHOLE LOCATED APPROXIMATELY 100FT EAST. COORDINATE OUTAGE WITH THE OWNER PRIOR TO STARTING WORK. EXISTING STREET LIGHTING CABINET IS LOCATED AT THE INTERSECTION OF STEELACOM RD AND VIEWPORT RD.
- ② PROVIDE SPARE CONDUIT STUB ROUTED OUTSIDE THE FOOTPRINT OF THE SIDEWALK FOR FUTURE EXPANSION. PROVIDE WITH THREADED CAP AND REBAR MARKER BURIED 6" BELOW GRADE.
- ③ PROVIDE NEW FLOODLIGHTING AT EXISTING MONUMENT SIGN. MOUNT 4FT FROM FACE OF SIGN AND AIM FOR EVEN ILLUMINATION. PROVIDE 1" C. WITH (2) #10 CU & (1) #10 CU GND FROM NEW TYPE 2 HANDHOLE LOCATED ADJACENT TO SIGN TO NEW PANEL 1P1'.
- ④ PROVIDE NEMA 3R 277V-120V TRANSFORMER AND CONNECTION TO NEW CCTV ENCLOSURE. MOUNT TRANSFORMER INSIDE ENCLOSURE AND ROUTE CONDUIT AND WIRE CONCEALED IN POLE. SEE DETAIL 1/E-703 FOR ADDITIONAL INFORMATION. COORDINATE WITH CCTV INSTALLING VENDOR FOR ADDITIONAL REQUIREMENTS PRIOR TO ROUGH-IN.
- ⑤ PROVIDE NEW VAULT WITH SLIP RESISTANT LID IN EXISTING LANDSCAPING STRIP. MATCH RIM ELEVATION TO EXISTING ADJACENT GRADE.
- ⑥ PROVIDE POTHOLES AND/OR UTILITY LOCATES, AS REQUIRED, TO AVOID CONFLICTS WITH ANY EXISTING UNDERGROUND UTILITIES, THIS AREA.
- ⑦ EXISTING SPORTS FIELD LIGHTING TO REMAIN.
- ⑧ COORDINATE WITH PSE FOR SHUTDOWN AND CONNECTION OF SECONDARY FEEDER TAP AT EXISTING TRANSFORMER.
- ⑨ CUT, PATCH, AND REPAIR EXISTING ROADWAY. COORDINATE SCHEDULING WITH THE OWNER TO MINIMIZE TRAFFIC INTERRUPTIONS.

ROADWAY LUMINAIRE SCHEDULE							
FXTURE ID NO.	FXTURE TYPE (PER SCHED.)	STREET LOCATION	STATION (FT)	CENTERLINE OFFSET (FT)	DISTRIBUTION TYPE	ARM LENGTH	POLE HEIGHT
ST1	STL	STEILACOOM RD SE	800+2.56	26.25RT	R3M	6'	30'
ST2	STL	STEILACOOM RD SE	650+17.33	34.50RT	R3M	6'	30'
ST3	STL	STEILACOOM RD SE	500+40.21	23.00RT	R3M	6'	30'
ST4	STL	STEILACOOM RD SE	400+8.84	22.00RT	R3M	6'	30'
ST5	STL	STEILACOOM RD SE	250+18.02	22.00RT	R3M	6'	30'
ST6	STL	STEILACOOM RD SE	100+42.86	22.00RT	R3M	6'	30'

1 ELECTRICAL SITE PLAN  
SCALE: 1" = 50'-0"

SCALE: 1" = 50'-0"

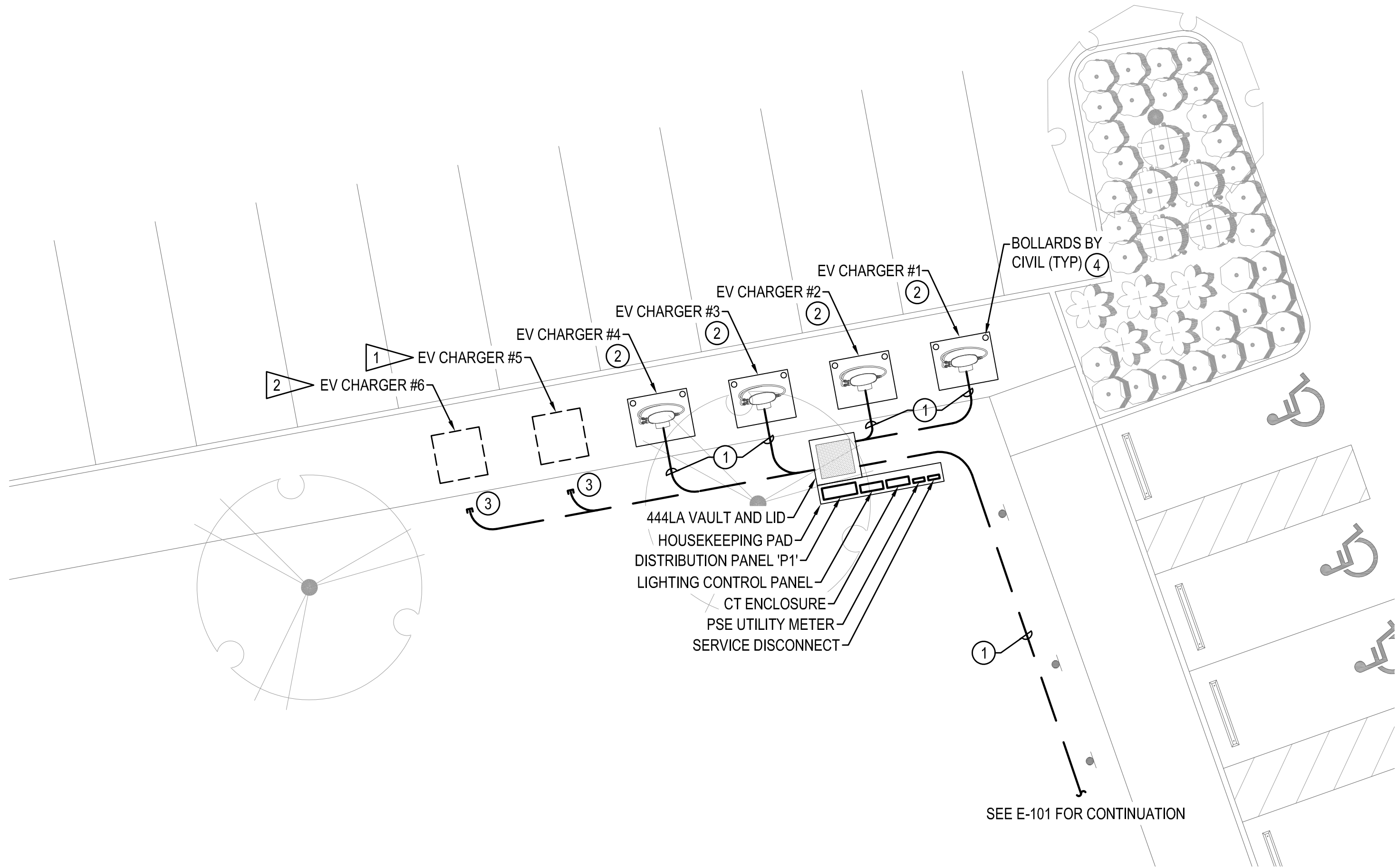
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Sep 13, 2023 11:18:08am - User Michael.Meyerdirk  
R:\DWGS\222\222-147\DRAWINGS\ELECTRICAL\ELECTRICAL SHEETS\222-147 E-101.DWG

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SEC. 14, T 18N., R 1W., W.M.


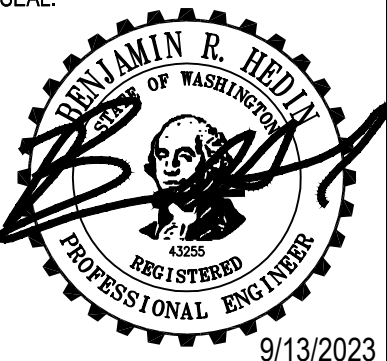


#### GENERAL NOTES

1. REFER TO E-601 ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL CONDUIT AND FEEDER INFORMATION.

#### CONSTRUCTION NOTES

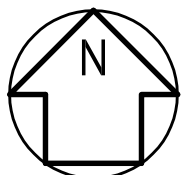
1. REFER TO E-601 ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL CONDUIT AND FEEDER INFORMATION.
2. PROVIDE CHARGEPOINT CPE250, 480V/3P EV CHARGING STATION, COMPLETE WITH ALL HARDWARE, TERMINATIONS, APPURTENANCES, AND COMMISSIONING FOR A FULLY FUNCTIONAL SYSTEM. PROVIDE WITH 5-YEAR SERVICE AGREEMENT AND CLOUD PLAN.
3. UNDER BASE BID, PROVIDE 1-1/2" CONDUIT STUB WITH PULLSTRING AND THREADED CAP, PROVIDE WITH REBAR MARKER BURIED 6" BELOW GRADE. LOCATE STUB 12" BEHIND SIDEWALK EDGE.
4. BOLLARDS TO BE INSTALLED PER MANUFACTURER RECOMMENDATIONS. REFER TO MANUFACTURER INSTALLATION GUIDES FOR EXACT SPACING AND CLEARANCE REQUIREMENTS. COORDINATE WITH GC AND SITE CONTRACTOR FOR LAYOUT AND INSTALLATION PRIOR TO INSTALLATION OF EV CHARGERS.

REVISIONS		DATE	BY
▲			
<div><div></div><div><div>SCJ ALLIANCE</div><div>CONSULTING SERVICES</div><div>8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516</div><div>P: 360.352.1465 F: 360.352.1509</div><div>SCJALLIANCE.COM</div></div></div>			
SHEET TITLE:		ELECTRICAL SITE PLAN	
PROJECT NAME:		RAC PARKING LOT EXPANSION 8345 STEILACOOM RD SE LACEY, WA	
SEAL:		<div><div></div><div>9/13/2023</div></div>	
DESIGNER:		MM	
DRAWN BY:		JM	
APPROVED BY:		BH	
DATE:		SEPTEMBER 2023	
JOB NO:		22-000313	
DRAWING FILE NO:		222-147_E-102	
DRAWING NO:		E-102	
SHEET NO:		36 OF 42	

#### CALL BEFORE YOU DIG

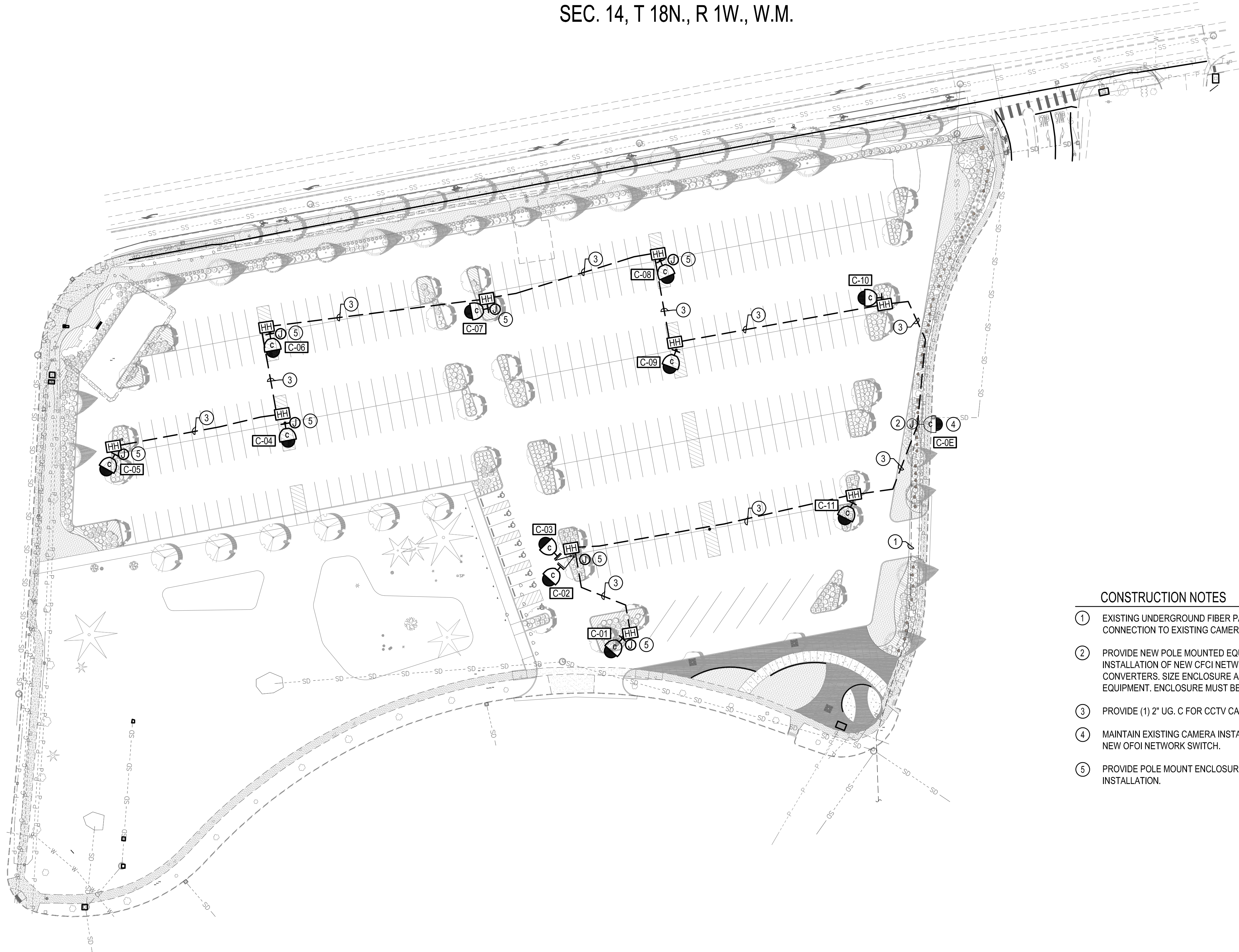
THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 28 HOURS PRIOR TO ANY EXCAVATION.

1 ENLARGED POWER PLAN  
SCALE: 1/8" = 1'-0"





SEC. 14, T 18N., R 1W., W.M.

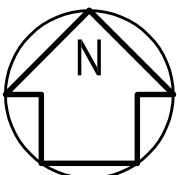


CONSTRUCTION NOTES

- 1 EXISTING UNDERGROUND FIBER PATHWAY TO REMAIN. MAINTAIN FIBER CONNECTION TO EXISTING CAMERA LOCATION.
- 2 PROVIDE NEW POLE MOUNTED EQUIPMENT ENCLOSURE. UTILIZE FOR INSTALLATION OF NEW CFCI NETWORK SWITCHES AND CFCI FIBER MEDIA CONVERTERS. SIZE ENCLOSURE AS NECESSARY FOR INSTALLATION OF ALL EQUIPMENT. ENCLOSURE MUST BE MINIMUM NEMA 3 OUTDOOR RATED.
- 3 PROVIDE (1) 2" UG. C FOR CCTV CABLING PATHWAY.
- 4 MAINTAIN EXISTING CAMERA INSTALLATION. PROVIDE CAT6 CONNECTION FROM NEW OFOI NETWORK SWITCH.
- 5 PROVIDE POLE MOUNT ENCLOSURE AS SPECIFIED FOR MEDIA CONVERTER INSTALLATION.

1 SECURITY SITE PLAN

SCALE: 1" = 40'-0"



CALL BEFORE YOU DIG

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REVISIONS	DATE	BY



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SHEET TITLE:  
**SECURITY SITE PLAN**

PROJECT NAME:  
**RAC PARKING LOT EXPANSION  
8345 STEILACOOM RD SE  
LACEY, WA**

SEAL:  


DESIGNER:  
JR

DRAWN BY:  
JR

APPROVED BY:  
BH

DATE:  
SEPTEMBER 2023

JOB NO:  
22-000313

DRAWING FILE NO:  
222-147\_E-103


DRAWING NO:  
E-103

SHEET NO:  
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This is a detailed site plan of a park area, oriented with North at the top. The plan shows a network of paths, including a main path along the top and several branching paths. Various features are labeled, including 'C-01' through 'C-11' and 'C-0E', which are located at different points along the paths. There are also labels for 'SS' (Shrub) and 'SD' (Shrub) along the top and right edges. The plan includes a compass rose in the upper left corner, indicating North. The overall layout suggests a well-planned recreational area with multiple entry points and paths.

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SECURITY SITE PLAN

---

RAC PARKING LOT EXPANSION  
8345 STEILACOOM RD SE  
LACEY, WA

PROJECT NAME:

SIGNER:	JR
DRAWN BY:	JR
PROVED BY:	BH
DATE:	SEPTEMBER 2023
ISS NO:	22-000313
DRAWING FILE NO:	222-147_E-104
DRAWING NO:	E-104
SHEET NO:	38 OF 42



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GENERAL NOTES

- COORDINATE ALL WORK WITH THE CITY OF LACEY PROJECT MANAGER. COORDINATE ALL OUTAGES A MINIMUM OF 2 WEEKS IN ADVANCE.
- COORDINATE ALL UTILITY WORK WITH PSE PRIOR TO STARTING.
- REFER TO PANEL SCHEDULES FOR PANEL CONFIGURATION, ADDITIONAL SPARES / SPACES, AND OTHER REQUIREMENTS.
- ALL EQUIPMENT TO BE RATED NEMA 3R MINIMUM.

CONSTRUCTION NOTES

- PROVIDE SECONDARY SERVICE TAP IN EXISTING PSE TRANSFORMER. COORDINATE WITH PSE AND THE OWNER FOR ALL OUTAGES.
- PROVIDE NEW METER BASE AND ALL ASSOCIATED HARDWARE AND COMPONENTS PER PSE STANDARDS.
- PROVIDE NEW LOCKABLE CURRENT TRANSFORMER ENCLOSURE PER PSE STANDARDS.
- PROVIDE NEW LIGHTING CONTROL PANEL CAPABLE OF WIRELESSLY COMMUNICATING WITH EXISTING MUSCO CONTROL-LINK CABINET LOCATED IN MAINTENANCE BUILDING APPROXIMATE 1000FT EAST OF PROJECT SITE. PROVIDE, AT A MINIMUM, SWITCHING ZONES NOTED IN THE CONTACTOR SCHEDULE THIS SHEET.
- UNDER BASE BID, PROVIDE SPARE BREAKER, SIZED AS NOTED.

PANEL: P1		3 PH		4 WIRE		VOLTAGE: 480Y/277V		600A MCB							
LOC: NORTHWEST PARKING LOT		MOUNT: FLUSH		FEED: BOTTOM		SF MAINS: NO		22,000AIC MINIMUM							
TYPE: NEMA 3R		POLES: 42													
LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. P	BRKR AMP	A	B	C	CIR. P	BRKR AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE	
D	22160	EV CHARGER #1	1	3	100	24400			1	20	2	PARKING LOT LIGHTING	2240	L	
D	22160		3				22178			1	20	4	MONUMENT SIGN LIGHTING	18	L
D	22160		5					22660		1	20	6	CCTV POWER	500	L
D	22160	EV CHARGER #2	7	3	100	22160			1	20	8	SPARE			
D	22160		9					22160		1	20	10	SPARE		
D	22160		11					22160		1	20	12	SPARE		
D	22160	EV CHARGER #3	13	3	100	22160					14	SPARE			
D	22160		15					22160				16	SPARE		
D	22160		17					22160				18	SPARE		
D	22160	EV CHARGER #4	19	3	100	22160					20	SPARE			
D	22160		21					22160				22	SPARE		
D	22160		23					22160				24	SPARE		
		EV CHARGER #5	25	3	100						26	SPARE			
			27									28	SPARE		
			29									30	SPARE		
		EV CHARGER #6	31	3	100						32	SPARE			
			33									34	SPARE		
			35									36	SPARE		
		SPARE	37	3	100				3		38				
			39									40	SPD		
			41								60	42			
	265920	TOTAL	THIS PANEL->			90880	88658	89140				TOTAL	2758		
						90880	88658	89140	TOTAL CONNECTED LOAD (VA): 268,877.90						
						RECEPSTS TOTAL = 0.00			TOTAL CONNECTED CURRENT (A): 323.17						
						LARGEST MOTOR(125%) = 0.00			KITCHEN LOADS(65%) = 0.00						
						OTHER MOTORS(100%) = 0.00			APPLIANCES(100%) = 0.00						
						MOTOR TOTAL = 0.00			DEDICATED(100%) = 265920.00						
						WATER HEATERS(100%) = 0.00			MISC(100%) = 0.00						
									TOTAL DEMAND LOAD (VA): 269,367.38						
									TOTAL DEMAND CURRENT (A) 324.00						
NOTES: L=LIGHTING, R=RECEPTACLES, H=ELECTRIC HEAT, ML=LARGEST MOTOR, MO=OTHER MOTORS, WH=WATER HEATERS, K=KITCHEN LOADS, A=APPLIANCES, D=DEDICATED, X=MISC, SF=SUB FEED															

FEEDER SCHEDULE

ID	Ampacity	# Each	Conduit	#	AWG	GND
20S	20A	1	1"	2	#12 Cu	#12 Cu
60	60A	1	1"	4	#8 Cu	#10 Cu
100	100A	1	1 1/2"	4	#2 Cu	#8 Cu
600	600A	2	4"	4	#500 Al	-

NOTE:  
THE ABOVE TABLE IS BASED ON FILL FOR RIGID STEEL CONDUIT.  
OTHER TYPES OF CONDUITS MAY RESULT IN SIZE ADJUSTMENTS.

LIGHTING CONTACTOR SCHEDULE

CONT. ID	ZONE DESCRIPTION
c1	NORTHWEST PARKING LOT LIGHTING
c2	STEILACOOM RD MONUMENT SIGN
c3	SPARE
c4	SPARE



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ONE-LINE DIAGRAM AND PANEL SCHEDULE

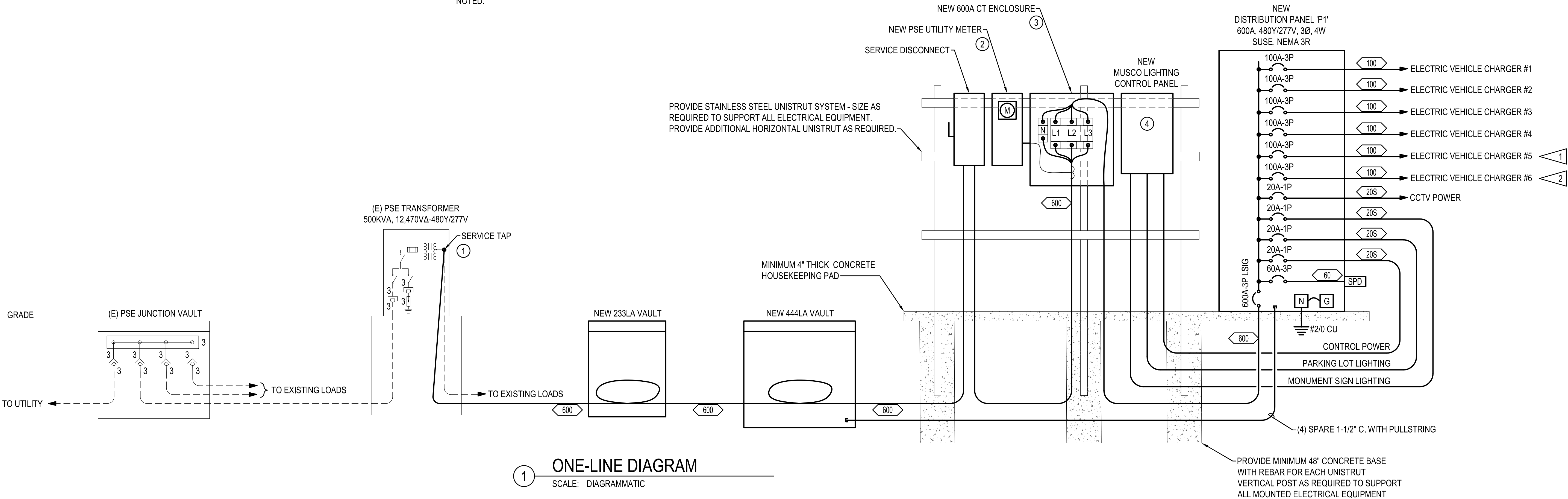
RAC PARKING LOT EXPANSION  
8345 STEILACOOM RD SE  
LACEY, WA

SHEET TITLE:  
PROJECT NAME:

SEAL:



DESIGNER: MM  
DRAWN BY: MM  
APPROVED BY: BH  
DATE: SEPTEMBER 2023  
JOB NO: 22-000313  
DRAWING FILE NO: 222-147\_E-601  
DRAWING NO: E-601  
SHEET NO: 39 OF 42

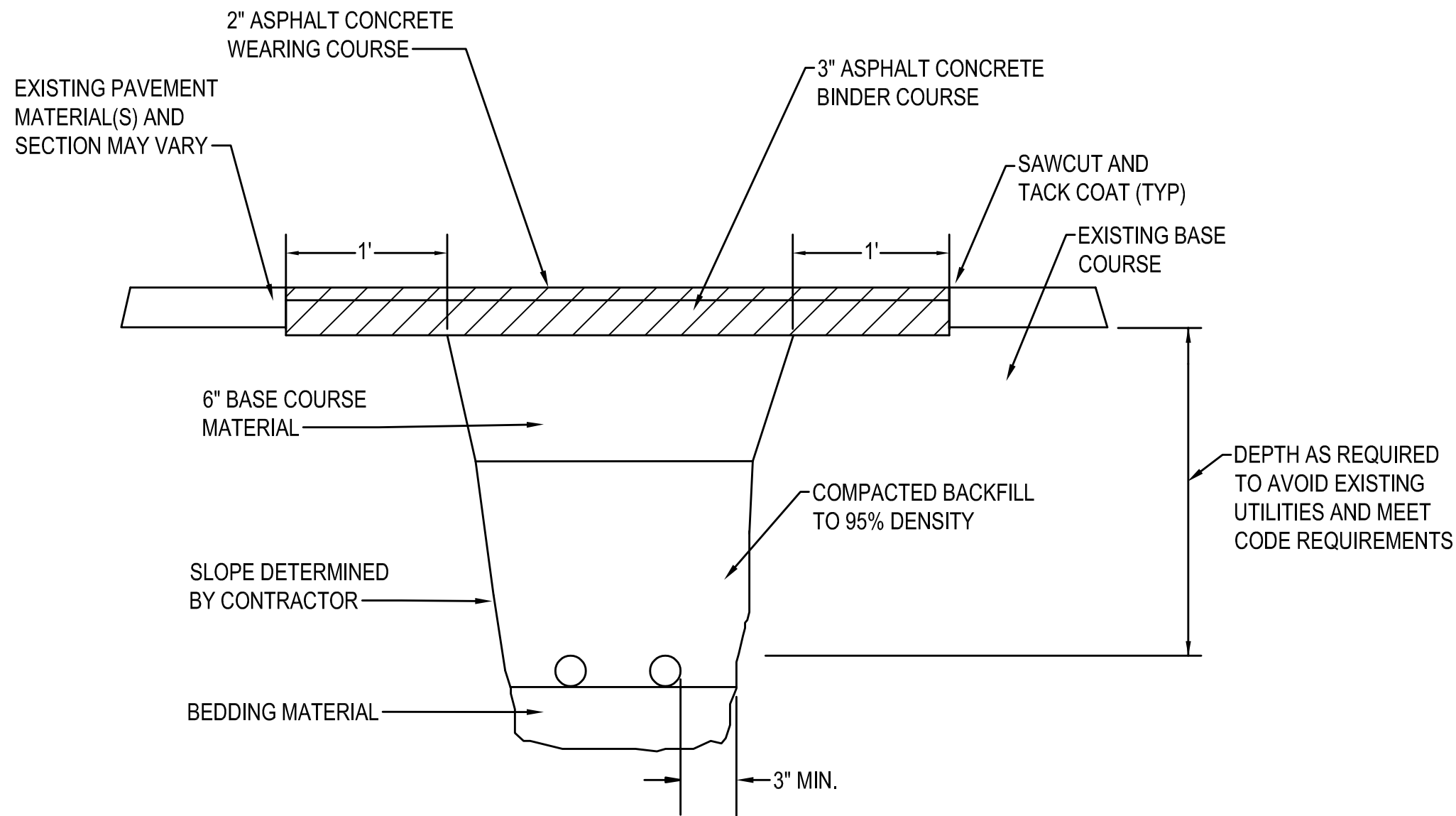


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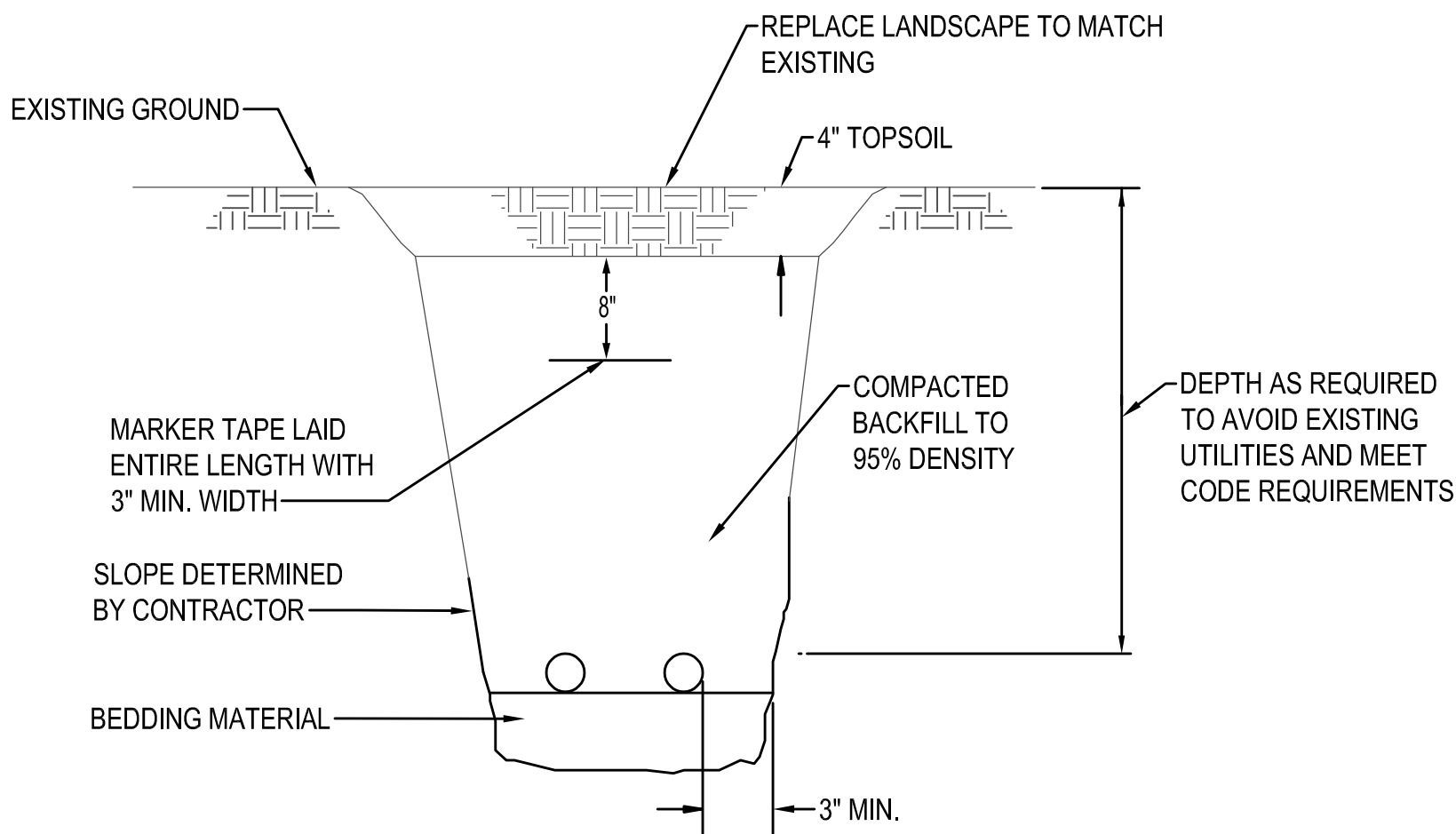
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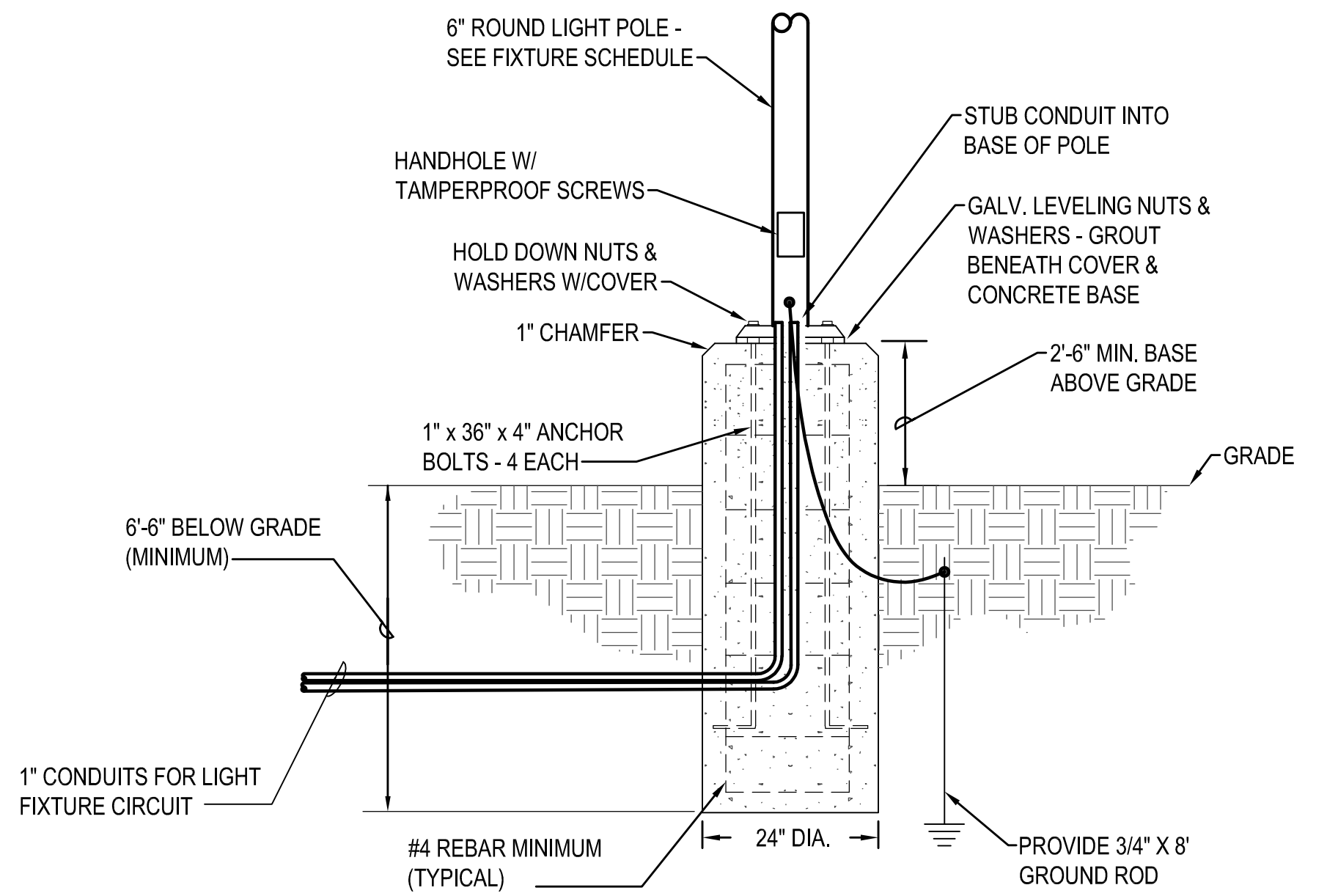
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# 1 DIRECT BURY RACEWAY - ASPHALT AREAS

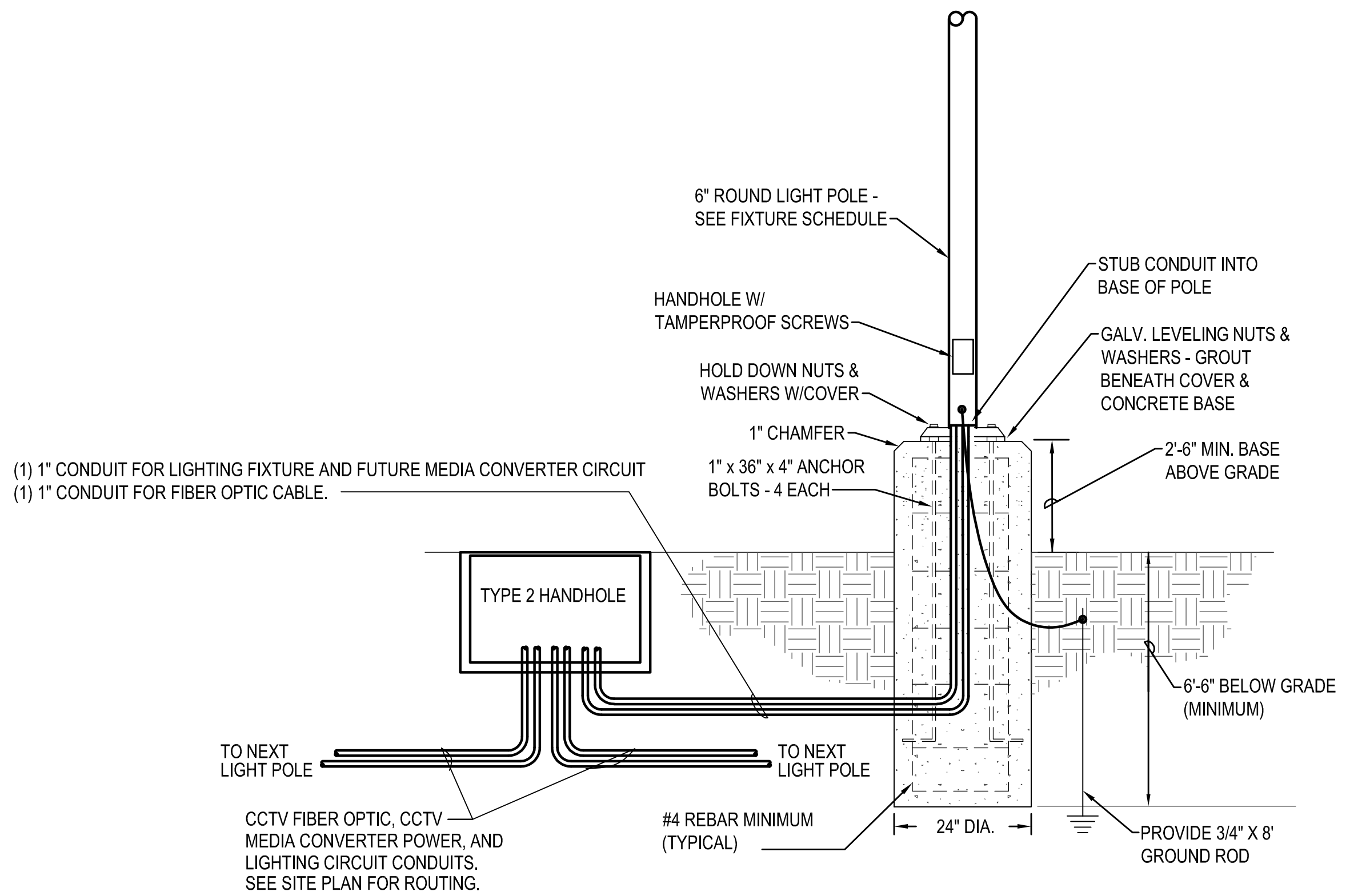


## 2 DIRECT BURY RACEWAY - LANDSCAPE AREAS



### 3 PARKING LOT POLE BASE DETAIL

SCALE: DIAGRAMMATIC





## 4 PARKING LOT LIGHT POLE AT CCTV LOCATIONS

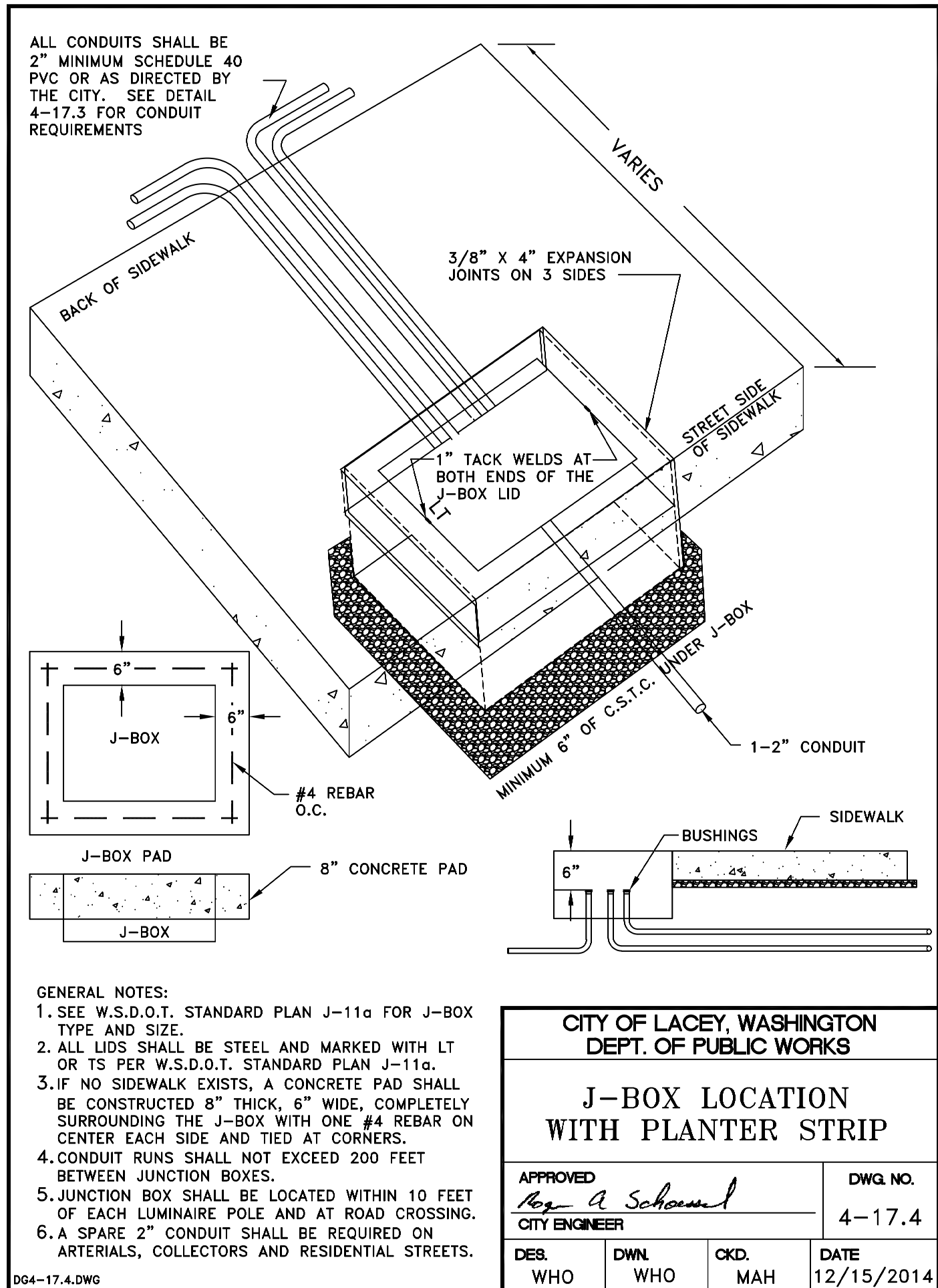
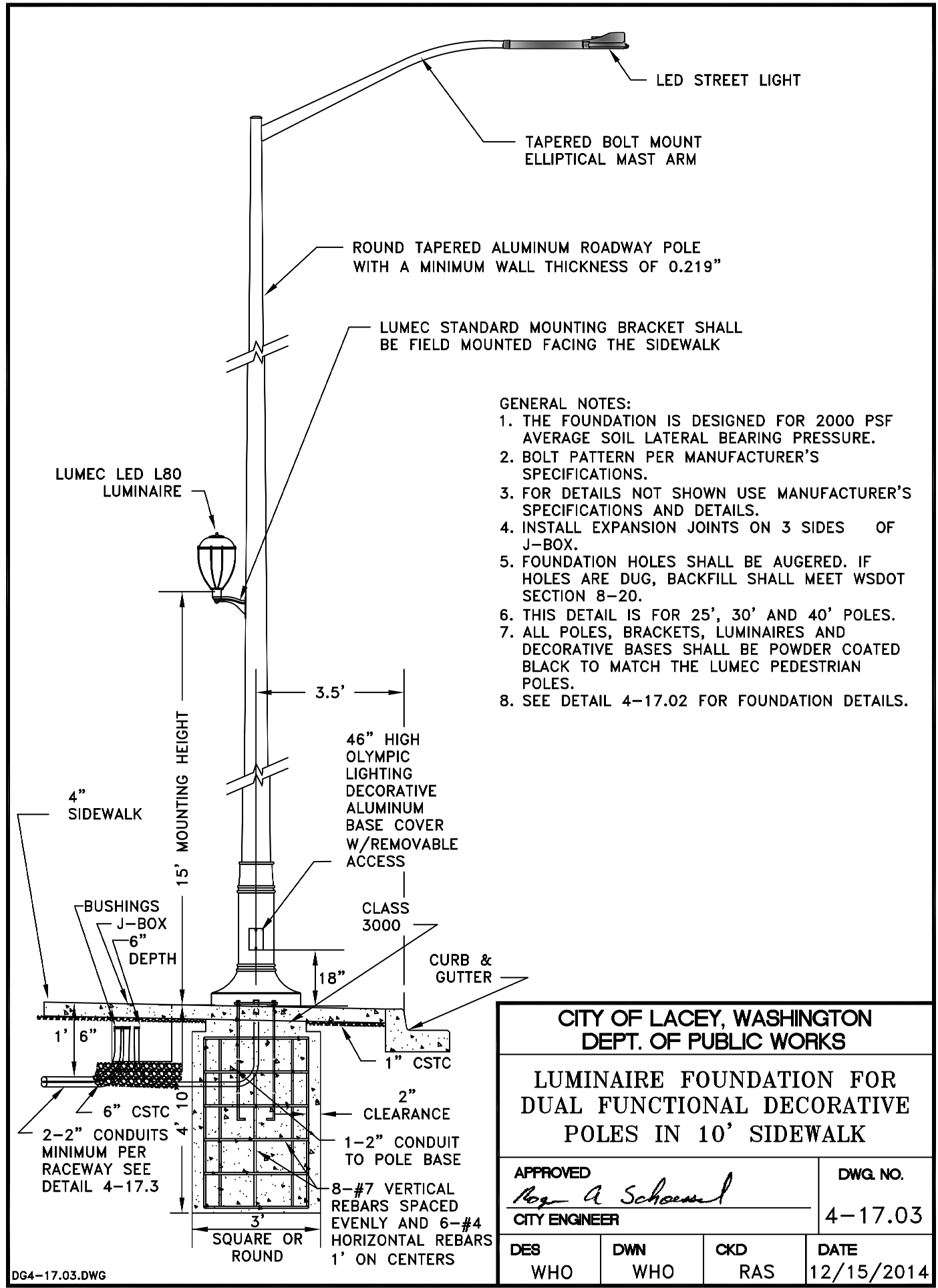
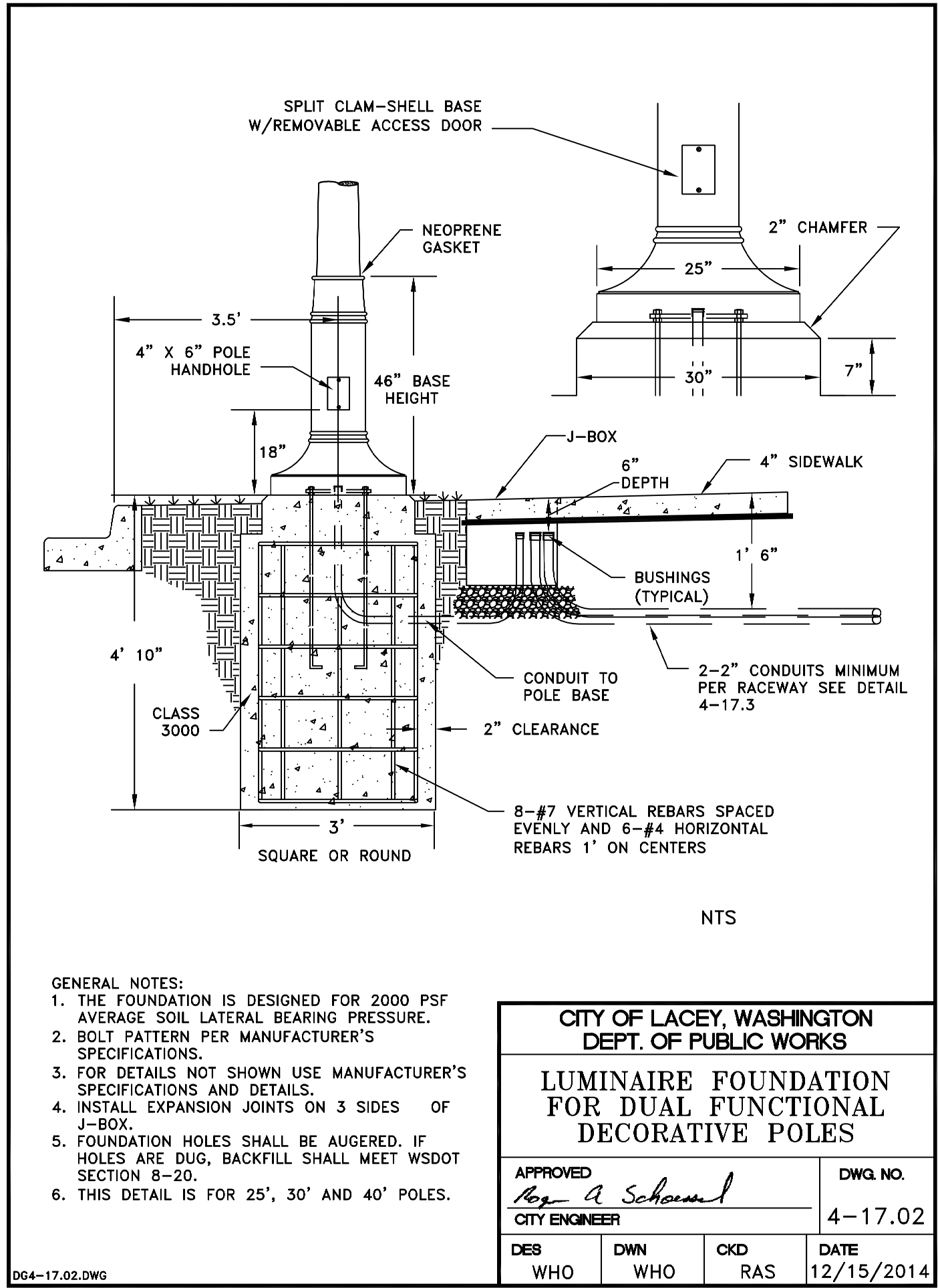
SCALE: DIAGRAMMATIC

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ELECTRICAL DETAILS		 <p><b>SCJ ALLIANCE</b> CONSULTING SERVICES 8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516 P: 360-352-1465 F: 360-352-1509 SCJALLIANCE.COM</p>	
PROJECT NAME:		RAC PARKING LOT EXPANSION	
		8345 STEILACOOM RD SE LACEY, WA	
		9/13/2023	
DESIGNER:		MM	
DRAWN BY:		JM	
APPROVED BY:		BH	
DATE:		SEPTEMBER 2023	
JOB NO:		22-000313	
DRAWING FILE NO:		222-147_E-701	
DRAWING NO:		E-701	
SHEET NO:		40 OF 42	





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REVISIONS	DATE	BY

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P: 360.352.1465 F: 360.352.1509  
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SHEET TITLE: STREET LIGHTING DETAILS

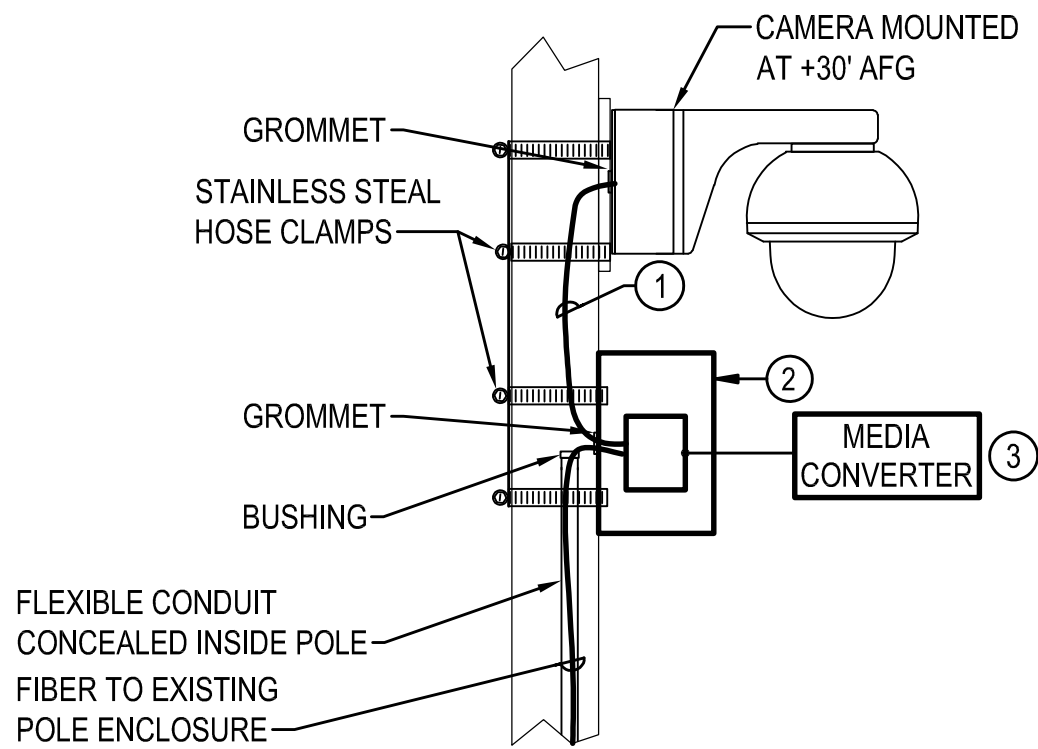
PROJECT NAME: RAC PARKING LOT EXPANSION  
8345 STEILACOOM RD SE  
LACEY, WA

SEAL:

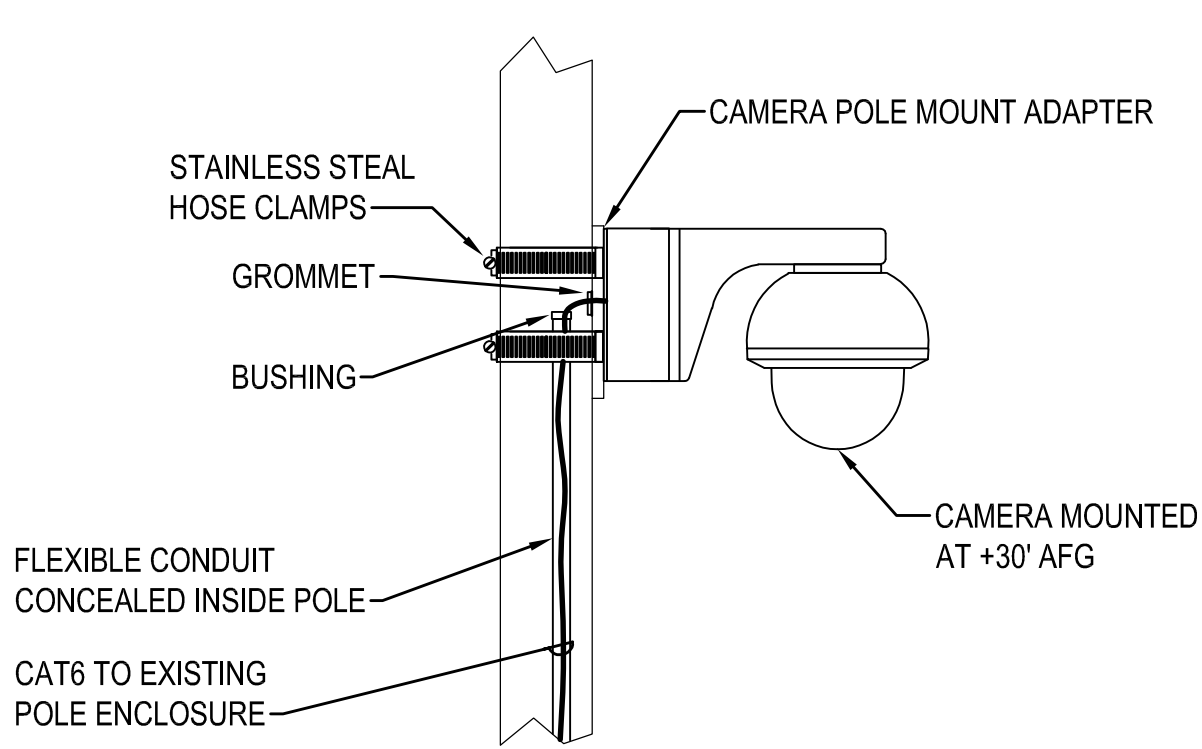
DESIGNER: MM  
DRAWN BY: MM  
APPROVED BY: BH  
DATE: SEPTEMBER 2023  
JOB NO: 22-000313  
DRAWING FILE NO: 222-147\_E-702  
DRAWING NO: E-702  
SHEET NO: 41 OF 42



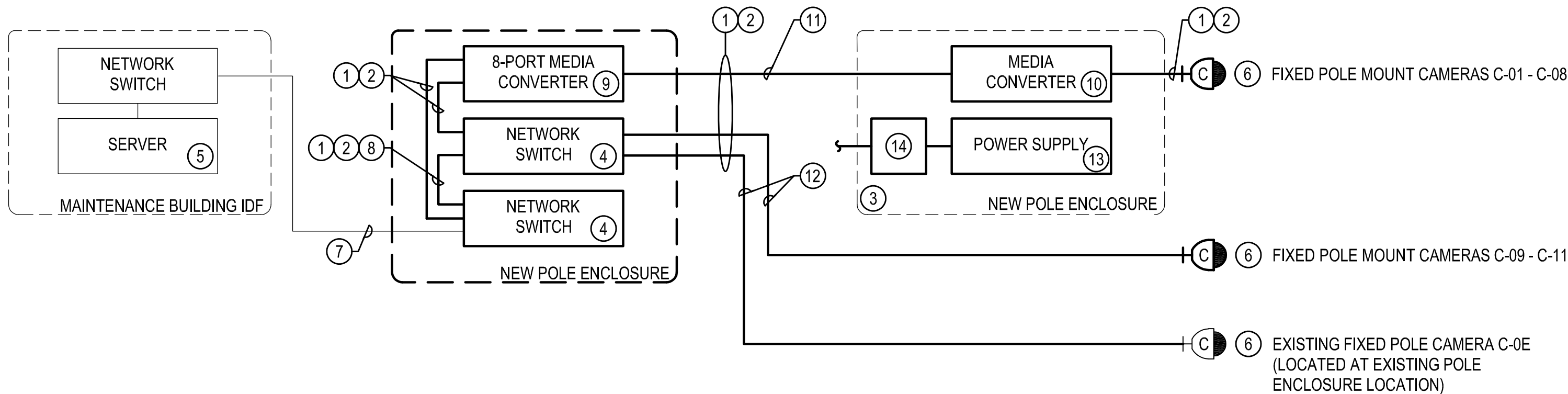
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1 POLE MOUNT CCTV CAMERA (FIBER CONNECTION)  
DIAGRAMMATIC



2 POLE MOUNT CCTV CAMERA (CAT6 CONNECTION)  
DIAGRAMMATIC



3 CCTV SYSTEM RISER DIAGRAM  
DIAGRAMMATIC

CAMERA #	CAMERA TYPE	CAMERA MODEL	MOUNT TYPE	CONNECTION TYPE
C-01	SINGLE-SENSOR	AXIS Q3538-LVE	POLE	FIBER
C-02	360° MULTI-SENSOR	AXIS P3719-PLE	POLE	FIBER
C-03	SINGLE-SENSOR	AXIS Q3538-LVE	POLE	FIBER
C-04	360° MULTI-SENSOR	AXIS P3719-PLE	POLE	FIBER
C-05	360° MULTI-SENSOR	AXIS P3719-PLE	POLE	FIBER
C-06	180° MULTI-SENSOR	AXIS P3818-PVE	POLE	FIBER
C-07	180° MULTI-SENSOR	AXIS P3818-PVE	POLE	FIBER
C-08	180° MULTI-SENSOR	AXIS P3818-PVE	POLE	FIBER
C-09	360° MULTI-SENSOR	AXIS P3719-PLE	POLE	CAT6
C-10	180° MULTI-SENSOR	AXIS P3818-PVE	POLE	CAT6
C-11	360° MULTI-SENSOR	AXIS P3719-PLE	POLE	CAT6

4 CCTV SYSTEM CAMERA MATRIX  
DIAGRAMMATIC

POLE MOUNT CAMERA GENERAL NOTES

- FOR CLARITY, CONDUITS ARE NOT SHOWN, EXCEPT WHERE NOTED. SEE FLOOR PLANS FOR CONDUIT REQUIREMENTS.
- SECTION 27 20 00 SHALL PROVIDE THE TELECOMMUNICATIONS OUTLETS AND THE PATCH CABLES (SIZED TO FIT).

POLE MOUNT CAMERA CONSTRUCTION NOTES

- CAT6 PATCH CABLE (SIZED AS REQUIRED FOR EACH LOCATION).
- PROVIDE POLE-MOUNTED WEATHERPROOF NETWORK ENCLOSURE SPECIFIED IN 281300 TO HOUSE MEDIA CONVERTER FOR ALL POLE LOCATIONS. POWER MEDIA CONVERTER FROM 277VAC TO 115VAC TRANSFORMER AT THE POLE. SEE SITE PLANS FOR ADDITIONAL INFORMATION.

CCTV SYSTEM RISER DIAGRAM  
GENERAL NOTES

- THIS RISER DIAGRAM IS DIAGRAMMATIC IN NATURE.
- ALL EQUIPMENT SHOWN IS TYPICAL. SEE FLOOR PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE QUANTITIES AS REQUIRED.
- ALL EQUIPMENT, CCTV SYSTEM CABLING AND PROGRAMMING, SHALL BE THE RESPONSIBILITY OF ONE (1) INSTALLING VENDOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM. CLARIFICATION OF SCOPE OF WORK AND DEMARCATION POINT:
  - THE SECTION 27 20 00 DATA AND VOICE INFRASTRUCTURE INSTALLING VENDOR SHALL PROVIDE ALL CABLING AND EQUIPMENT AS IDENTIFIED IN CONSTRUCTION NOTE 2 (ON THIS SHEET). PATCH PANEL(S) AND DATA OUTLET(S) SHALL BE DEEMED THE DEMARCATION POINT. THE SECTION 282300 CLOSED CIRCUIT TELEVISION SYSTEM (CCTV) INSTALLING VENDOR SHALL PROVIDE ALL OTHER CABLING AND EQUIPMENT.

CCTV SYSTEM RISER DIAGRAM  
CONSTRUCTION NOTES

- CAT6 CABLES, FIBER CABLES, PATCH CORDS, CABLE LABELING SHALL BE INSTALLED, TERMINATED, AND TESTED BY SECTION 272000.
- PROVIDE WET RATED CABLES, AS REQUIRED BY CODE AND THE AHJ.
- PROVIDE POLE MOUNT ENCLOSURE FOR FIBER MEDIA CONVERTER INSTALLATION.
- PROVIDE POE++ NETWORK SWITCH FOR CCTV DATA CONNECTIONS.
- UTILIZE EXISTING/OFOI CCTV SERVER FOR PROGRAMMING OF NEW CAMERAS INTO EXISTING CCTV VMS. CAMERA LICENSES FOR ALL NEW CAMERAS SHALL BE OFCI.
- SEE THE CAMERA INSTALLATION DETAILS FOR ROUGH-IN AND TYPICAL INSTALLATION. REFER TO MANUFACTURES RECOMMENDATIONS FOR ADDITIONAL REQUIREMENTS.
- UTILIZE EXISTING FIBER CABLING BETWEEN MAINTENANCE BUILDING AND EXISTING POLE ENCLOSURE FOR CONNECTION TO NEW OFOI POE NETWORK SWITCH.
- PROVIDE 2-STRAND MULTI-MODE FIBER PATCH CORD FOR CONNECTION BETWEEN POE++ NETWORK SWITCHES. PROVIDE SPECIFIED SFP TRANSCEIVERS AS NECESSARY.
- PROVIDE 8-PORT FIBER MEDIA CONVERTER IN THE EXISTING POLE ENCLOSURE FOR CCTV CAMERA LOCATIONS THAT EXCEED 295' RUN LENGTH OF NETWORK CABLING. PROVIDE SPECIFIED SFP TRANSCEIVERS AS NECESSARY.
- PROVIDE SINGLE PORT FIBER MEDIA CONVERTER IN THE NEW POLE ENCLOSURES FOR CCTV CAMERA LOCATIONS THAT EXCEED 295' RUN LENGTH OF NETWORK CABLING. PROVIDE SPECIFIED SFP TRANSCEIVERS AS NECESSARY.
- PROVIDE 2-STRAND MULTI-MODE FIBER FOR CONNECTION BETWEEN MEDIA CONVERTERS.
- PROVIDE CAT6 FOR CONNECTION BETWEEN NETWORK SWITCH AND CCTV CAMERAS.
- PROVIDE POWER SUPPLY AS SPECIFIED FOR MEDIA CONVERTERS.
- DEDICATED NON-SWITCHED 277V POWER TO BE PROVIDED AT EACH CCTV CAMERA DESIGNATED FOR FIBER MEDIA CONVERTER CONNECTIVITY. THE ELECTRICAL CONTRACTOR MUST PROVIDE A 277V TO 115VDC TRANSFORMER AT THE POLE MOUNT ENCLOSURE FOR CONNECTION TO THE FIBER MEDIA CONVERTER.
- PROVIDE POLE MOUNT ENCLOSURE AT EXISTING POLE FOR NETWORK SWITCHES AND FIBER MEDIA CONVERTER INSTALLATION.

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**SECURITY DETAILS**  
PROJECT NAME:  
RAC PARKING LOT EXPANSION  
8345 STEILACOM RD SE  
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SHEET TITLE:  
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222-147\_E-703  
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E-703  
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