

Little Saigon Park Development

Parks Contract # 2064 PW # 2020-105 Project PRK # 730308-11

Funding Source: Seattle Parks District

Owner:

City of Seattle Department of Finance & Administrative Services,
Purchasing & Contracting Services Division

Administering Department:

City of Seattle Department of Parks and Recreation, Planning & Development Division
300 Elliott Ave. W., Suite 100 Seattle, WA 98119
Project Manager: Roma Shah, Capital Projects Coordinator 206-790-0744

Landscape Architect /Lead Designer:

Murase Associates
210 E Boston Street, Seattle, WA 98102
Mark Tilbe, PLA, ASLA, Principal, 206-322-4937

Civil Engineer:

KPFF Consulting Engineers
1601 5th Avenue, Suite 1600, Seattle, WA 98101
Alberto Cisneros, PE, Associate, 206-622-5822

Structural Engineer:

Giraf Design
9220 Roosevelt Way NE, Seattle, WA 98115
Nic Rossouw, 206-621-0060

Electrical Engineer/ Lighting Design:

Rushing
1725 Westlake Avenue N, Seattle, WA 98109
Emily Carrasco, Lead Lighting Designer, 206-285-7100

Project Address

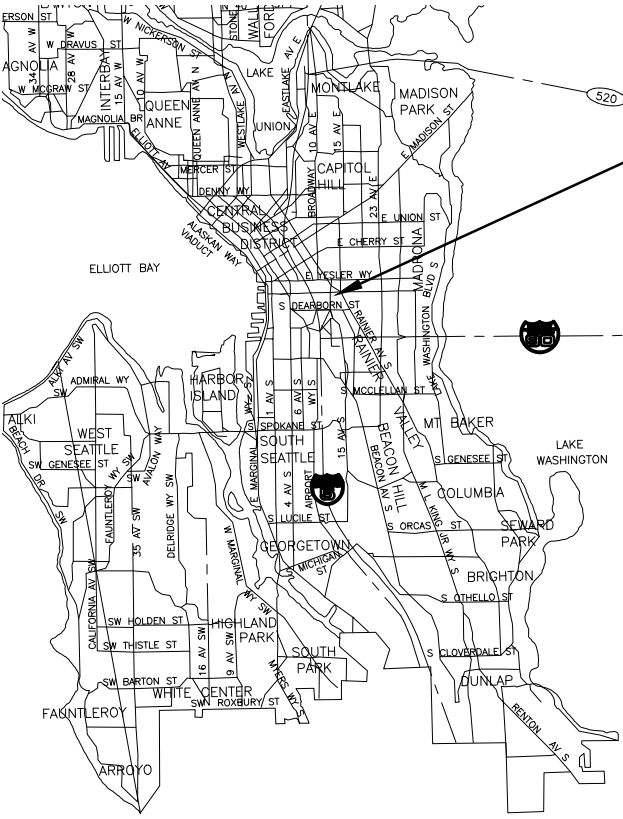
1224 South King Street
Seattle, WA 98144

LEGAL DESCRIPTION

TAX PARCEL ACCOUNT NUMBERS: 817010-0140-06 AND 817010-0175-04

(ABBREVIATED PER KING COUNTY ASSESSOR)
LOT 6, BLOCK 2 SYNDICATE ADDITION LESS ST;
LOT 13, BLOCK 2 SYNDICATE ADDITION

(PER SPECIAL WARRANTY DEED RECORDING NUMBER 20131109001181)
LOTS 6 AND 13, BLOCK 2, SYNDICATE ADDITION TO THE CITY OF SEATTLE, ACCORDING TO
THE PLAT THEREOF RECORDED IN VOLUME 2 OF PLATS, PAGE 44, IN KING COUNTY,
WASHINGTON; EXCEPT THE NORTH 15 FEET OF SAID LOT 6 CONDEMNED IN KING COUNTY
SUPERIOR COURT CAUSE NUMBER 56407 FOR WIDENING OF SOUTH JACKSON STREET.



Project Site Location



VICINITY MAP

CITY OF SEATTLE - NOT TO SCALE

LOCATION MAP

STANDARD ABBREVIATIONS


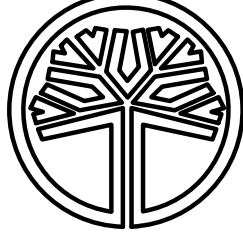

Aban	Abandon(ed)	Gal	Gallon	Qty	Quantity
Adj	Adjust	GPM	Gallons Per Minute	R	Radius
ADA	Americans with Disabilities Act	Galv	Galvanize/Galvanized	RR	Railroad
AIC	Aerial Interconnect	GIP	Galvanized Iron Pipe	Rlwy	Railway
Al	Aluminum	GSP	Galvanized Steel Pipe	Reconn	Reconnect
AP	Angle Point	GM	Gas Meter	Red	Reducer
Approx	Approximate	G Reg	Gas Regulator	Ref	Refer/Reference
Asph	Asphalt	Gas V	Gas Valve	Reinf	Reinforcing/Reinforcement
ABW	Asphalt Bike Way	Gr	Grade	RCP	Reinforced Concrete Pipe
ATB	Asphalt Treated Base	Gnd	Ground	Reloc	Relocate
ACV	Automatic Control Valve	GP	Guy Pole	Rem	Remove
AVB	Automatic Vacuum Breaker	HH	Handhole	R&R	Remove and Replace
Ave	Avenue	HPG	High Pressure Gas	Repl	Replace
Avg	Average	HPS	High Pressure Sodium	Req'd	Required
BV	Ball Valve	Horiz	Horizontal	Ret	Retire(d)
BDC	Beginning of Curb	HB	Hose Bib	Rt	Right
BO	Blow Off	HC	Hose Connection	R/W	Right of Way
BF	Bottom Face	Hse	House	RGS	Rigid Galvanized Steel
Br	Brick	Hyd	Hydrant	RS	Rigid Steel
Blkhd	Bulkhead	In	Inch/Inches	Rdwy	Roadway
BFV	Butterfly Valve	Inl	Inlet	RD	Road Drain
Cb	Cable	ID	Inside Diameter	SB	Sand Box
Cal	Caliper	IE	Invert Elevation	SCL	Seattle City Light
CIP	Cast Iron Pipe	Inv	Invert (Line)	SED	Seattle Engineering Dept.
CB	Catch Basin	IP	Iron Pipe	SWD	Seattle Water Department
CL	Center Line	Irrg	Irrigation	SG	Subgrade
C-C	Center to Center	IRC	Irrigation Controller	SD	Service Drain
CLF	Chain Link Fence	Irrg	Irrigation	Sht	Sheet
Ch	Chamber	IH	Irrigation Head	SS	Side Sewer - Combined
Cl	Class	Jt	Joint	SSS	Side Sewer - Sanitary
CO	Clean Out	JB	Junction Box	SI	Sieve
Clr	Clearance	KV	Kilovolt	Spes	Spaces
Conc	Concrete	LIT	Large Inlet Top	Spec	Specification(s)
CBW	Concrete Bike Way	LT	Left	SH	Sprinkler Head
CC	Concrete Culvert	LP	Light Pole	Sq	Square
CW	Concrete Walk	LF	Lineal Feet	Std	Standard
Cond	Condition	Loc	Location/Locate	Stl	Steel
Cd	Conduit	MH	Manhole	Stl P	Steel Pipe
Conn	Connect	MCV	Manual Control Valve	ST	Street
CMP	Corrugated Metal Pipe	MDV	Manual Drain Valve	SDS	Street Designation Sign
Cont	Continuous	Max	Maximum	SLHH	Street Light Handhole
Cr	Cross	MJ	Mechanical Joint	SNS	Street Name Sign
Cu Ft	Cubic Feet	MVL	Mercury Vapor Light	Struct	Structural/Structure
Cu Yd	Cubic Yard	Min	Minimum	SL	Survey Line
Culv	Culvert	Misc	Miscellaneous	T	Tee
C&G	Curb and Gutter	NIC	Not In Contract	Tel	Telephone
CR	Curb Radius	NTS	Not To Scale	Tcb	Telephone Cable
Dept	Department	No.	Number	TCd	Telephone Conduit
Dia	Diameter	OC	On Center	TC	Top of Curb
DB	Direct Burial Cable	OD	Outside Diameter	THH	Telephone Handhole
DOV	District Gate Valve	Pav	Pavement	TVcb	Television Cable
DCV	Double Check Valve	PDP	Pedestrian Push Button	TVHH	Television Handhole
Dry	Driveway	PFP	Perforated Drain Pipe	Temp	Temporary
DIF	Ductile Iron Pipe	PS	Pipe Sewer Combined	Testhole	Testhole
Ea	Each	PSS	Pipe Sewer Sanitary	TF	Top Face
Esmt	Easement	PSD	Pipe Storm Drain	Tr	Traffic
Ecc	Eccentric	PSDD	Pipe Storm Drain Detention	TrCb	Traffic Cable
Elec	Electric/Electrical	PE	Plain End	TrCd	Traffic Conduit
ECB	Electric Cable	PCC	Point of Compound Curvature	TOHH	Traffic Handhole
ECd	Electric Conduit	PI	Point of Curvature	TrSB	Traffic Signal Box
ED	Electric Duct	PL	Plate	TrSP	Traffic Signal Pole
EMH	Electric Manhole	PLC	Point of Tangency	XP	Transmission Pole
EV	Electric Vault	PLT	Point of Tangency	Typ	Typical
EI	Elevation	PLV	Point of Intersection	Vch	Valve Chamber
Elev	Elevation	PRC	Point of Reverse Curve	V/Var	Variable
Encl	Enclosure	PT	Point of Tangency	Vert	Vertical
EOC	End of Curb	PVC	Polyvinyl Chloride	VB	Valve Box
Eq	Equal	PWS	Pounds	V/C	Vertical Curve
Ex	Existing	PSI	Pounds per Square Inch	W	Water
Exp	Expansion	PP	Power Pole	WM	Water Meter
FL	Feet	PPL	Power Pole with Light	WCR	Wheel Chair Ramp
FLP	Field Light Pole	PRV	Pressure Reducing Valve	W/	With
Fig	Figure	PVB	Pressure Vacuum Breaker	WP	Wood Pole
FF	Finished Floor	PL	Property Line	WSP	Wood Stave Pipe
FG	Finish Grade	Prop	Proposed		
FS	Finished Surface (paving)				
FM	Force Main				

SCOPE OF WORK:

THE LITTLE SAIGON PARK DEVELOPMENT PROJECT TRANSFORMS AN EXISTING GRAVEL PARKING LOT INTO A PUBLIC AMENITY SPACE FOR PASSIVE RECREATION, PLAY, AND COMMUNITY EVENTS. THE PARK WILL PROVIDE A PEDESTRIAN CONNECTION BETWEEN SOUTH JACKSON STREET AT THE NORTH AND SOUTH KING STREET AT THE SOUTH, WITH AN ACCESSIBLE PATH NAVIGATING OVER 20' OF GRADE CHANGE. WORK INVOLVED IN THE CREATION OF THIS PARK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING: TEMPORARY EROSION AND SEDIMENTATION CONTROL, CONTAMINATED SOIL REMOVAL, DEMOLITION, SHORING, EARTHWORK, STORM DRAINAGE UTILITIES, CONCRETE PAVEMENT, REINFORCED CONCRETE RETAINING WALLS, RUBBER SAFETY SURFACING, PLAY FEATURE INSTALLATION, IRRIGATION, IMPORTED SOILS, PLANTING, SITE FURNISHINGS, AND LIGHTING.

SHEET INDEX

1	L0.0	COVER SHEET
2	L0.1	TOPOGRAPHIC SURVEY
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4	C0.1	CIVIL GENERAL NOTES
5	C1.0	DEMOLITION AND TESC PLAN
6	C1.1	DEMOLITION AND TESC DETAILS
7	C2.0	GRADING AND DRAINAGE PLAN
8	C2.1	ON-SITE STORMWATER MANAGEMENT PLAN
9	C2.2	GRADING AND DRAINAGE DETAILS
10	L1.0	MATERIALS PLAN
11	L2.0	LAYOUT PLAN
12	L3.0	ACCESSIBILITY PLAN
13	L4.0	IRRIGATION PLAN
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17	L6.0	LANDSCAPE SECTIONS
18	L6.1	LANDSCAPE DETAILS
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20	S1.1	EXCAVATION AND SHORING PLAN
21	S2.0	STRUCTURAL DETAILS
22	S2.1	STRUCTURAL DETAILS
23	E0.0	ELECTRICAL LEGENDS
24	E1.0	ELECTRICAL SITE PLAN
25	E2.0	ELECTRICAL DETAILS
26	E3.0	LIGHTING ENERGY CODE FORMS
27	L0.4	GATEWAY FEATURE (NIC, FOR REFERENCE ONLY)

APPROVED FOR ADVERTISING:		
Nancy Locke		
Purchasing & Contracting Services Division		
Seattle, Washington	Date 20	
Signature: Director, Purchasing & Contracting Services Division		
3	90% CD SUBMITTAL	01/20/22
2	PERMIT SET	01/28/21
NO.	REVISION - AS BUILT	DATE
REVIEWED:		
PARK ENGINEER DATE		
All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.		
 MURASE ASSOCIATES		
LANDSCAPE ARCHITECTURE		
210 East Boston, Seattle, WA 98102		
T 206.322.4937 www.murase.com		
		
STATE OF WASHINGTON		
LANDSCAPE ARCHITECT		
DATE 01/20/22		
CONTRACT NO. 2064		
 Seattle Parks & Recreation		
LITTLE SAIGON		
PARK DEVELOPMENT		
COVER SHEET		
DESIGNED SM	DATE 01/20/2022	
DRAWN CA/DR	SHEET 1 OF 27	
CHECKED MT		
ORDINANCE NO. 125475	L0.0	
CONTRACT NO. 2064		
SCALE		

LEGEND

2 FOOT CONTOUR LINE
1 FOOT CONTOUR LINE
COMBINATION SEWER LINE
WATERLINE
WOOD FENCE
CHAINLINK FENCE
RAILING
GUARD RAIL
ROAD CENTERLINE
RIGHT OF WAY
IRRIGATION LINE
PARCEL LINE

WM
GM
PM
BLRD
EPP

WATER METER
WATER VALVE
SPRINKLER HEAD
FIRE HYDRANT
DOWNSPOUT
STORM SAND BOX
STORM JUNCTION BOX
STORM MANHOLE
SAN. SEWER MANHOLE
GAS METER
POWER METER
SIGN
METAL POST
TRASH RECEPTACLE
BOLLARD
POWER POLE W/LIGHT
GUY WIRE
LUMINAIRE

IRRIG = IRRIGATION CONTROL VALVE
IRRIGATION CONTROL BOX
PICNIC TABLE
BENCH
CONIFEROUS TREE
DECIDUOUS TREE
SHRUB

HORIZONTAL DATUM: NAD83-2011 EPOCH 2010.00 DERIVED FROM THE WSRN AND NGS CORS
BASIS OF BEARING: WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE
VERTICAL DATUM: NAVD88, CITY OF SEATTLE
VERTICAL BENCHMARKS: SNV-2506, SNV-2628, 3805-3201
PARKS FIELD BOOK: #494

SURVEY NOTES:
FIELD MEASUREMENTS FOR THIS SURVEY PERFORMED WITH A TRIMBLE R10 GNSS RECEIVER
REFERENCING WSRN WITH DUAL OCCUPATIONS AT POINTS 98 & 99 AND WITH A 3" TRIMBLE S6
TOTAL STATION USING TRAVERSE METHODS THAT MEET OR EXCEED ACCURACY REQUIREMENTS
CONTAINED IN WAC 332-150-090.
SURVEY WAS CONDUCTED WITHOUT A CURRENT SUBDIVISION GUARANTEE OR TITLE REPORT. PARKS
BOUNDARY LINES SHOWN FROM RECORD INFORMATION.
SITE CONTROL POINT: CONTROL POINT 105 MONUMENT IN CASE
ELEVATION=150.10
SITE CONTROL POINT: CONTROL POINT 110 TACK AND LEAD IN CONC WALK
ELEVATION=152.71
SITE CONTROL POINT: CONTROL POINT 112 MAG NAIL
ELEVATION=156.74
SITE CONTROL POINT: CONTROL POINT 113 BRASS CAP
ELEVATION=173.41

REFERENCE DOCUMENTS:
VAULT PLAN NO.: 776-150-6, 105544-W06191-48-X-1
SEWER CARDS: 4624, 6025
FIELD SURVEY DATE: 7/2/2020-RETAINING WALL PREVIOUSLY OBSERVED
11/20/2019-STORM AND SANITARY STRUCTURES
8/6&8/2018-SITE TOPOGRAPHY
PRJ. SURVEYOR: T. BARGER, PLS
PRIMARY CREW: S. KESSEE, PLS, J. NAYLOR, PLS, H. LIEU, PLS
N. SMITH, A. KNIGHT
OFFICE TECH: H. LIEU, PLS, T. BARGER, PLS
GEOREGISTRATION NOTES:
NW 1/4 SECS. 124N, R4E, W.M. - TILE 089
COMMENTS: 2015 ORTHOPHOTO SHOWN. 2012 AND 2017 ARE AVAILABLE.
TAX PARCEL ACCOUNT NUMBERS: 817010-0140-06 AND 817010-0175-04
LEGAL DESCRIPTION: (ABBREVIATED PER KING COUNTY ASSESSOR)
LOT 6, BLOCK 2 SYNDICATE ADDITION LESS ST;
LOT 13, BLOCK 2 SYNDICATE ADDITION
LEGAL DESCRIPTION: (PER SPECIAL WARRANTY DEED RECORDING NUMBER 20131109001181)
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EXCEPT THE NORTH 15 FEET OF SAID LOT 6 CONDEMNED IN KING COUNTY SUPERIOR COURT CAUSE
NUMBER 56407 FOR WIDENING OF SOUTH JACKSON STREET.

>>>>CAUTION - CALL 811<<<<
UTILITY NOTIFICATION CENTER
BEFORE YOU DIG!
WWW.CALL811.COM

Also, verify all underground utilities not located by the
811 service by using a commercial location service and
call SPR Inspection Request Line (206) 684-7034.

3		
2		
1	CONCRETE RETAINING WALL ADDED	7/2/2020
NO.	REVISION - AS BUILT	DATE

REVIEWED: PARK ENGINEER DATE
All work done in accordance with the City of Seattle Standard
Plans and Specifications in effect on the date shown above, and
supplemented by Special Provisions.

SEATTLE PARKS
AND RECREATION
Survey + Mapping
Elliott Bay Office Park
300 Elliott Avenue W, MS#26
Seattle, WA 98119-4122
(206) 684-4954



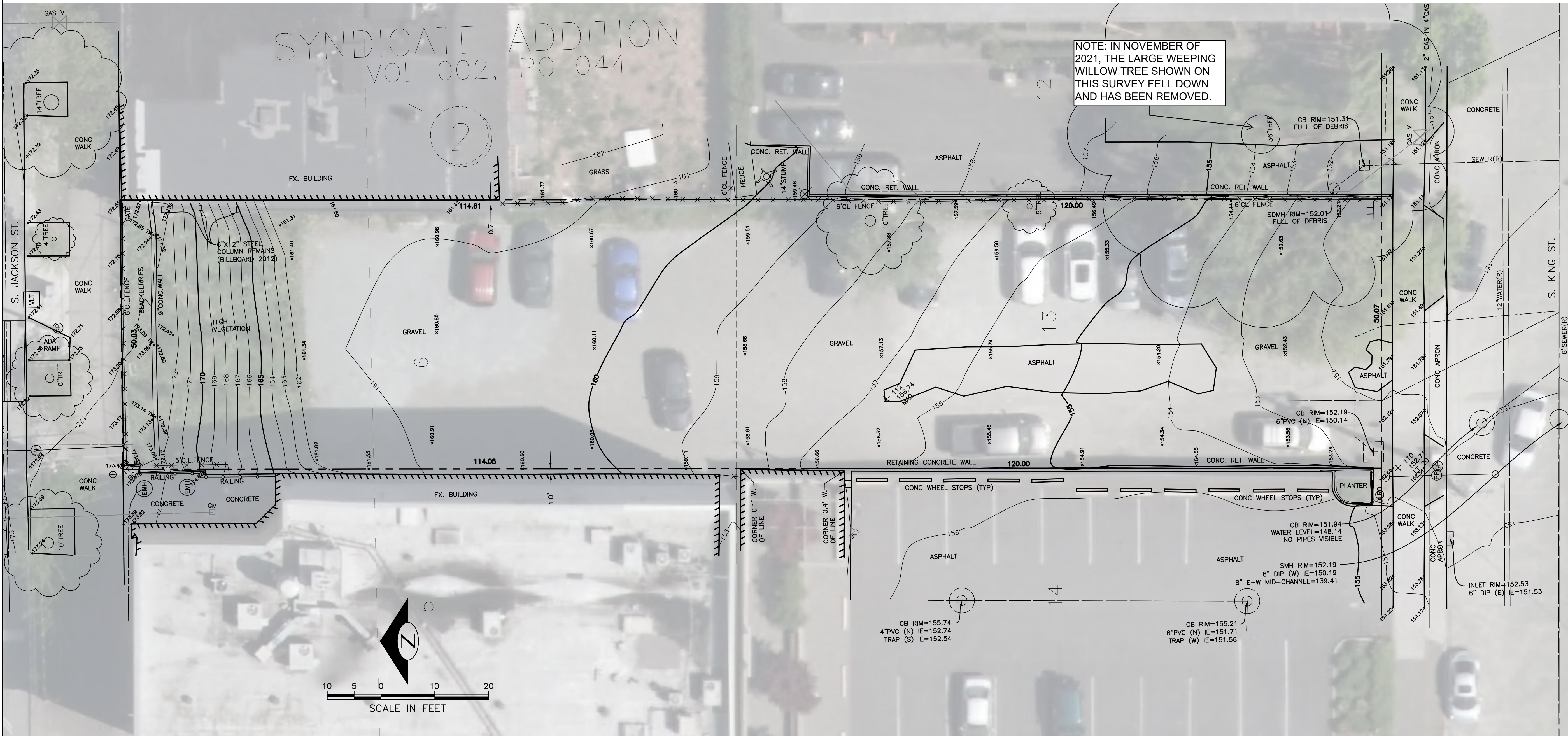
Seattle
Parks & Recreation

LITTLE SAIGON

PARK DEVELOPMENT

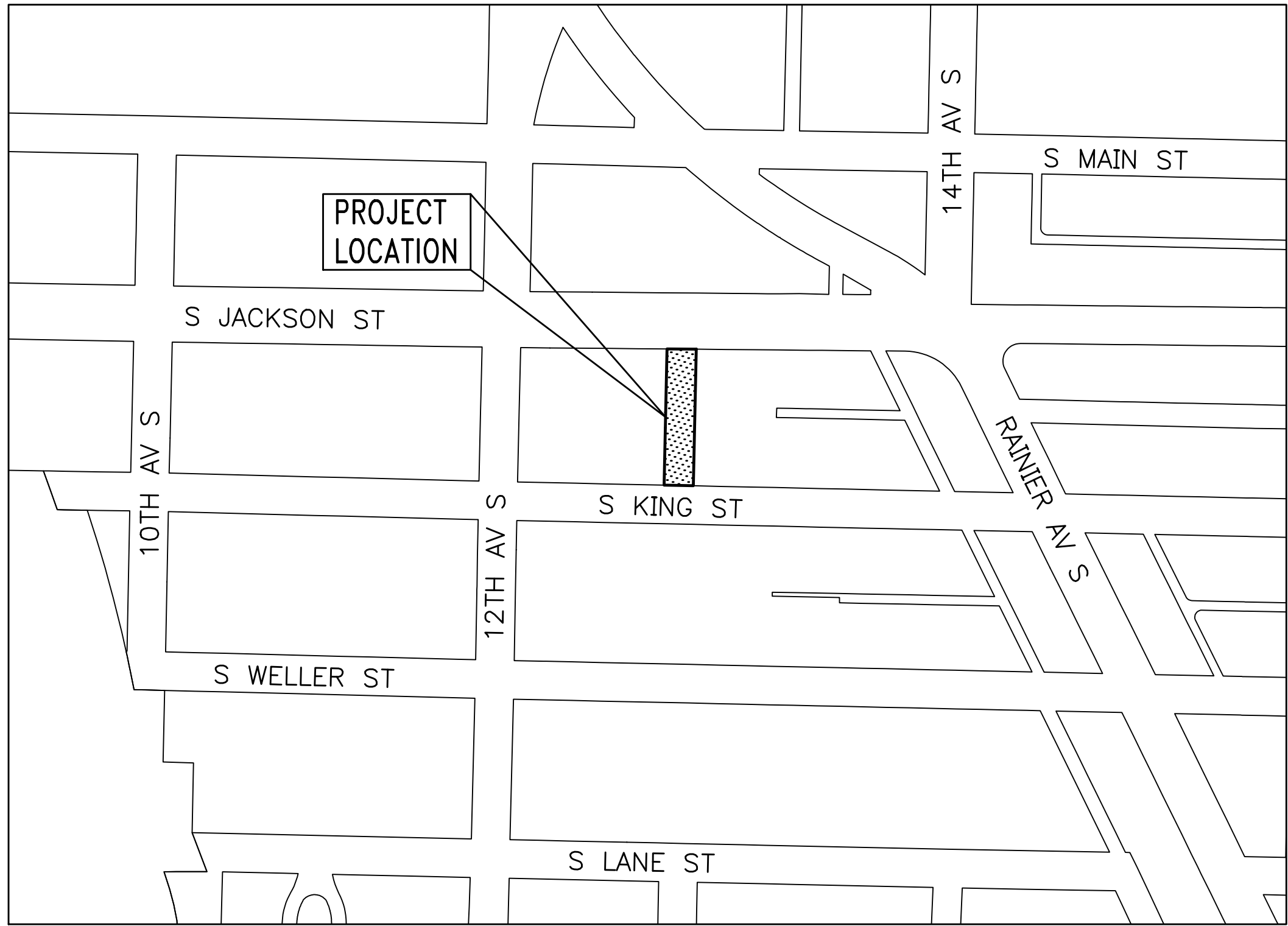
TOPOGRAPHIC SURVEY

FIELD CREW	SDK/JUN/ADK/HDL	DATE	7/2/2020
DRAWN	HDL/TSB	SHEET	2 OF 26
CHECKED	TSB		
ORDINANCE NO.	125475		L0.1
SPECIFICATION NO.	2064		
SCALE	1" = 10'		



LITTLE SAIGON PARK DEVELOPMENT

1224 S KING STREET
SEATTLE, WASHINGTON



VICINITY MAP

SCALE: 1" = 200'±

PROJECT TEAM

OWNER:
SEATTLE PARKS AND RECREATION
300 ELLIOTT AVENUE WEST
SUITE 100
SEATTLE, WA 98119

ARCHITECT:
MURASE ASSOCIATES
200 E BOSTON STREET
SEATTLE, WA 98102
CONTACT: MARK TILBE

CIVIL ENGINEER
KPFF CONSULTING ENGINEERS
1601 5TH AVENUE, SUITE 1600
SEATTLE, WA 98101
CONTACT: ALBERTO CISNEROS

SURVEY INFORMATION

SURVEY BY: CITY OF SEATTLE

LEGAL DESCRIPTION

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PARKS FIELD BOOK:

#494

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C2.1	ON-SITE STORMWATER MANAGEMENT PLAN
C2.2	GRADING AND DRAINAGE DETAILS

UTILITY PROVIDERS:

SANITARY SEWER AND STORM DRAINAGE:
SEATTLE PUBLIC UTILITIES
PROJECT MANAGEMENT AND ENGINEERING
700 5TH AVENUE
PO BOX 34018
SEATTLE, WA 98124-4018
(206) 233-7900

WATER:
SEATTLE PUBLIC UTILITIES
700 5TH AVENUE, SUITE 4900
PO BOX 34018
SEATTLE, WA 98124-4018
(206) 684-3000

POWER:
SEATTLE CITY LIGHT
700 5TH AVENUE, SUITE 3200
SEATTLE, WA 98124-4023
(206) 684-3000

PROPOSED LEGEND

	CEMENT CONCRETE SIDEWALK
	CEMENT VEHICULAR PAVEMENT
	ASPHALT CONCRETE PAVEMENT
	PAVERS (PER LANDSCAPE)
	PLANTING (PER LANDSCAPE)
	CURB
	PAVING THROUGH JOINT
	GRADE BREAK
	SPOT ELEVATION
	SLOPE ARROW
	RIGHT OF WAY LINE (SDCI)
	RIGHT OF WAY LINE (SIP)
	CENTERLINE
	EASEMENT LINE
	BUILDING OVERHANG
	BELOW GRADE BUILDING OUTLINE
	ELECTRICAL CONDUIT
	DUCT BANK
	PROJECT LIMITS
	CHANNELIZATION STRIPING
	STREETLIGHT LUMINAIRE
	DETAIL NUMBER
	SHEET NUMBER

ABBREVIATIONS

AGG	AGGREGATE	POC	POINT OF CONNECTION
ARCH	ARCHITECTURAL	PSD	PIPED STORM DRAIN (MAINLINE)
ASPH	ASPHALT	PSE	PUGET SOUND ENERGY
AVE	AVENUE	SSS	PIPED SANITARY SEWER (MAINLINE)
B/B/C	BOTTOM OF CURB	RL	RIGHT OF WAY LINE
BM	BENCHMARK	ROW	RIGHT OF WAY
BSE	BOTTOM OF STAIR ELEVATION	ROWIM	RIGHT OF WAY IMPROVEMENT
CB	CATCH BASIN	MANUAL	MANUAL
CD	CONDUIT DUCT BANK	SEATTLE RIGHT OF WAY	SEATTLE RIGHT OF WAY
CL	CENTER LINE, CLASS	OPENING AND RESTORATION	OPENING AND RESTORATION
CO	CLEANOUT	RULES (SDOT DRT-2017)	RULES (SDOT DRT-2017)
COMM	COMMUNICATIONS	RT	RIGHT
CONC	CONCRETE	S	SOUTH
COS	CITY OF SEATTLE	SCL	SEATTLE CITY LIGHT
DB	DUCT BANK	SD	SERVICE DRAIN (STORM)
DSUB	DENNY SUBSTATION PROJECT	SDCI	SEATTLE DEPARTMENT OF CONSTRUCTION & INSPECTIONS
DWG	DRAWING	SDOT	SEATTLE DEPARTMENT OF TRANSPORTATION
DWY	DRIVEWAY	SIP	STREET IMPROVEMENT PERMIT
E	EAST	SL	STREET LIGHT
ECB	ELECTRICAL CONDUIT, BURIED	SNS	STREET NAME SIGN
ECD	ELECTRICAL CONDUIT, DUCT	SPU	SEATTLE PUBLIC UTILITIES
ELEC	ELECTRICAL	SS	SIDE SEWER COMBINED
EL/ELEV	ELEVATION	SSS	SIDE SEWER SANITARY
ESMT	EASEMENT	ST	STREET
EX/EXIST	EXISTING	STA	STATION
FF	FINISHED FLOOR	STD	STANDARD
FG	FINISH GRADE	TBD	TO BE DETERMINED
FL	FLOW LINE	TBM	TEMPORARY BENCH MARK
FND	FOUNDATION	TC	TOP OF CURB
FO	FIBER OPTIC	TR	TRAFFIC
FU	FRANCHISE UTILITY	TS	TRAFFIC SIGNAL
G	GAS	TSE	TOP OF STAIR ELEVATION
HH	HANDHOLE	TYP	TYPICAL
HMA	HOT MIX ASPHALT	UMP	UTILITY MAJOR PERMIT
LA	LANDSCAPE ARCH	UNO	UNLESS NOTED OTHERWISE
LT	LEFT	W	WATER, WEST, WITH
MAX	MAXIMUM	WAC	WASHINGTON ADMINISTRATIVE
ME	MATCH EXISTING	CODE	CODE
MEP	PLUMBING (DESIGN BUILD)	WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
MH	MANHOLE	#	NUMBER
MIN	MINIMUM	&	AND
MNRL	MINERAL		
NO	NUMBER		
N	NORTH		
P	PRIMARY POWER		
PED	PEDESTRIAN		
PL	PROPERTY LINE		

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Also, verify all underground utilities not located by the
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3	90% CD SUBMITTAL	11/18/21
2	60% CD SUBMITTAL	01/28/21
1	30% DD SUBMITTAL	12/05/19
NO.	REVISION - AS BUILT	DATE

REVIEWED: _____
PARK ENGINEER _____ DATE _____
All work done in accordance with the City of Seattle Standard
Plans and Specifications in effect on the date shown above, and
supplemented by Special Provisions.

kpff

1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com



01/19/2022

Seattle
Parks & Recreation

LITTLE SAIGON

PARK DEVELOPMENT

CIVIL COVER SHEET

DESIGNED AC/SB	DATE 1/20/22
DRAWN CP	
CHECKED AC	SHEET 3 OF 26
ORDINANCE NO. 125475	C0.0
CONTRACT NO. 2064	
SCALE	

GENERAL NOTES (GENERAL NOTES FOR SDOT STREET IMPROVEMENT PLANS)

1.

ALL WORK SHALL CONFORM TO THE 2020 EDITION OF CITY OF SEATTLE STANDARD SPECIFICATIONS, THE 2020 EDITION OF THE CITY OF SEATTLE STANDARD PLANS; AND SEATTLE DEPARTMENT OF TRANSPORTATION DIRECTOR'S RULE 01-2017 RIGHT-OF-WAY OPENING AND RESTORATION RULES. A COPY OF THESE DOCUMENTS SHALL BE ON SITE DURING CONSTRUCTION.
2.

A COPY OF THE APPROVED PLAN MUST BE ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
3.

ERRORS AND OMISSIONS ON THE PERMITTED PLANS MUST BE CORRECTED BY THE ENGINEER AND APPROVED BY THE CITY OF SEATTLE.
4.

ALL PERMITS REQUIRED FOR WORK WITHIN THE PUBLIC RIGHT OF WAY MUST BE OBTAINED PRIOR TO THE START OF CONSTRUCTION.
5.

PRIOR TO THE START OF CONSTRUCTION WITHIN THE RIGHT OF WAY, THE PERMITTEE/CONTRACTOR SHALL SCHEDULE AND ATTEND A PRECONSTRUCTION MEETING WITH THE CITY OF SEATTLE DEPARTMENT OF TRANSPORTATION.
6.

PERMITTEE/CONTRACTOR SHALL CONTACT SEATTLE DEPARTMENT OF TRANSPORTATION, STREET USE INSPECTOR A MINIMUM OF 2 BUSINESS DAYS PRIOR TO NEEDING AN INSPECTION.
7.

ALL DAMAGE TO CITY INFRASTRUCTURE CAUSED BY THE CONSTRUCTION SHALL BE IMMEDIATELY REPORTED AND REPAIRED AS REQUIRED BY THE SEATTLE DEPARTMENT OF TRANSPORTATION. TO REPORT DAMAGE TO SPU INFRASTRUCTURE, INCLUDING ANY SEWAGE RELEASE OR BLOCKAGE, CALL 206-386-1800.
8.

THE APPROVED PLANS SHALL SHOW THE APPROXIMATE AREA OF PAVEMENT RESTORATION BASED ON THE DEPTH OF UTILITY CUTS AND/OR THE AREA OF CURB AND/OR PAVEMENT TO BE REMOVED AND REPLACED. THE ACTUAL LIMITS OF THE PAVEMENT RESTORATION SHALL BE PER THE DIRECTOR'S RULE 01-2017, RIGHT-OF-WAY OPENING AND RESTORATION RULE AND WILL BE DETERMINED IN THE FIELD BY THE SEATTLE DEPARTMENT OF TRANSPORTATION STREET USE INSPECTOR PRIOR TO THE PAVEMENT RESTORATION. FOR SPU WATER SERVICES, APPLICANT MUST SHOW THE PAVEMENT RESTORATION LIMITS FOR THE PROPOSED AND THE EXISTING WATER SERVICES TO BE RETIRED, INCLUDING SERVICES THAT ARE OUTSIDE THE PROJECT AREA, BUT SERVE THE PARCEL.
9.

DATUM: NAVD 88 AND NAD83 (1991).
10.

SURVEYING AND STAKING OF ALL IMPROVEMENTS IN THE PUBLIC RIGHT OF WAY SHALL BE COMPLETED PRIOR TO CONSTRUCTION. PERMITTEE/CONTRACTOR TO STAKE THE CURB AT THE CENTERLINE OF DRAINAGE GRATES PER STANDARD PLAN 260A. SURVEY GRADE SHEETS MUST BE SUBMITTED AND APPROVED BY THE SEATTLE DEPARTMENT OF TRANSPORTATION AT LEAST 2 BUSINESS DAYS PRIOR TO CONSTRUCTION.
11.

IF AN EXISTING CURB IS TO BE REMOVED AND REPLACED IN THE SAME LOCATION THE PERMITTEE/CONTRACTOR SHALL PROVIDE THE STREET USE INSPECTOR A PLAN WITH EXISTING FLOW LINE AND TOP OF CURB ELEVATIONS IDENTIFIED. PERMITTEE/CONTRACTOR TO STAKE THE LOCATION OF THE EXISTING CURB PRIOR TO DEMOLITION.
12.

THE PERMITTEE/CONTRACTOR SHALL BE RESPONSIBLE FOR REFERENCING AND REPLACING ALL MONUMENTS THAT MAY BE DISTURBED, DESTROYED OR REMOVED BY THE PROJECT AND SHALL FILE AN APPLICATION FOR PERMIT TO REMOVE OR DESTROY A SURVEY MONUMENT WITH THE WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES, PURSUANT TO RCW 58.24.040(b).
13.

THE PERMITTEE/CONTRACTOR SHALL SUBMIT ALL APPLICABLE DOCUMENTS REQUIRED UNDER SECTION 1-05.3 OF THE STANDARD SPECIFICATIONS PRIOR TO CONSTRUCTION. A MATERIAL SOURCE FORM FOR ALL MATERIALS TO BE PLACED IN THE RIGHT OF WAY AND MIX DESIGNS FOR ALL ASPHALT, CONCRETE AND AGGREGATES TO BE PLACED IN THE RIGHT OF WAY MUST BE SUBMITTED TO THE SEATTLE DEPARTMENT OF TRANSPORTATION FOR REVIEW AND APPROVAL PRIOR TO BEGINNING CONSTRUCTION. A REVISED MATERIAL SOURCE FORM AND MIX DESIGNS MUST BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT OF ANY SUBSTITUTE MATERIALS.
14.

THE PERMITTEE/CONTRACTOR SHALL NOTIFY THE SEATTLE FIRE DEPARTMENT DISPATCHER (206-386-1495) AT LEAST TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL WATER SERVICE INTERRUPTIONS, HYDRANT SHUTOFFS, AND STREET CLOSURES OR OTHER ACCESS BLOCKAGE. THE PERMITTEE/CONTRACTOR SHALL ALSO NOTIFY THE DISPATCHER OF ALL NEW, RELOCATED, OR ELIMINATED HYDRANTS RESULTING FROM THIS WORK.
15.

THE PERMITTEE/CONTRACTOR SHALL LOCATE AND PROTECT ALL CASTINGS AND UTILITIES DURING CONSTRUCTION.
16.

THE PERMITTEE/CONTRACTOR SHALL CONTACT THE UNDERGROUND UTILITIES LOCATOR SERVICE (811) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
17.

IT IS THE SOLE RESPONSIBILITY OF THE PERMITTEE/CONTRACTOR TO VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN.
18.

THE PERMITTEE/CONTRACTOR SHALL ADJUST ALL EXISTING MAINTENANCE HOLE RIMS, DRAINAGE STRUCTURE LIDS, VALVE BOXES, AND UTILITY ACCESS STRUCTURES TO FINISH GRADE WITHIN AREAS AFFECTED BY THE PROPOSED IMPROVEMENTS.

19.

THE PERMITTEE/CONTRACTOR SHALL FOLLOW SPU CORE TAP PROCEDURES FOR ALL NEW CONNECTIONS TO EXISTING SEWER OR DRAINAGE MAINS OR STRUCTURES. CONTRACTORS ARE NOT ALLOWED TO CORE INTO MAINS OR STRUCTURES WITHOUT PRIOR APPROVAL FROM SPU/DWW. TO SCHEDULE CORE CUT CONTACT SPU-DWW AT 206-615-0511 A MINIMUM OF 2 BUSINESS DAYS IN ADVANCE.
20.

ALL UTILITY SERVICE CONNECTIONS SHOWN ON THIS PLAN REQUIRE SEPARATE PERMITS.
21.

THE PERMITTEE/CONTRACTOR SHALL PROVIDE FOR ALL TESTING AS REQUIRED BY THE STREET USE INSPECTOR.
22.

INSPECTION AND ACCEPTANCE OF ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL BE DONE BY REPRESENTATIVES OF THE CITY OF SEATTLE. IT SHALL BE THE PERMITTEE/CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND SCHEDULE APPROPRIATE INSPECTIONS ALLOWING FOR PROPER ADVANCE NOTICE. THE SEATTLE DEPARTMENT OF TRANSPORTATION STREET USE INSPECTOR MAY REQUIRE REMOVAL AND RECONSTRUCTION OF ANY ITEMS PLACED IN THE RIGHT OF WAY THAT DO NOT MEET CITY STANDARDS OR THAT WERE CONSTRUCTED WITHOUT APPROPRIATE INSPECTIONS.
23.

THE PERMITTEE/CONTRACTOR SHALL PROVIDE A PLAN FOR STORMWATER AND EROSION CONTROL AND INSTALL, MAINTAIN AND REMOVE TEMPORARY FACILITIES PER SECTION 8-01. AS CONSTRUCTION PROGRESSES AND CONDITIONS DICTATE, ADDITIONAL CONTROL FACILITIES MAY BE REQUIRED. DURING THE COURSE OF CONSTRUCTION IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE PERMITTEE/CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY THE PERMITTEE/CONTRACTOR'S ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES THAT MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES.
24.

ALL DISTURBED SOILS MUST BE AMENDED PER STANDARD PLAN 142 AND SECTION 8-02 OF THE STANDARD SPECIFICATIONS UNLESS WITHIN ONE FOOT OF A CURB OR SIDEWALK, THREE FEET OF A UTILITY STRUCTURE (E.G. WATER METER, UTILITY POLE, HAND HOLE, ETC.), OR THE DRIPLINE OF AN EXISTING TREE.
25.

ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CITY OF SEATTLE TRAFFIC CONTROL MANUAL FOR IN-STREET WORK. AN APPROVED TRAFFIC CONTROL PLAN WILL BE REQUIRED FOR ALL ARTERIAL STREETS, HIGH IMPACT AREAS AND CONSTRUCTION HUBS PRIOR TO BEGINNING CONSTRUCTION.
26.

PERMITTEE/CONTRACTOR SHALL NOTIFY KING COUNTY METRO AT 206-477-1140 FOURTEEN DAYS IN ADVANCE OF ANY IMPACT TO TRANSIT OPERATIONS. CALL 206-477-1150 FOR ANY COORDINATION RELATED TO KING COUNTY METRO TROLLEY (INCLUDING SLJ AND FIRST HILL STREET CAR). CONTACT KING COUNTY METRO TWO MONTHS PRIOR FOR ANY TROLLEY DE-ENERGIZING REQUESTS.
27.

COORDINATE PARKING/LOADING SIGN(S) AND PAY STATION REMOVAL / RELOCATION AND INSTALLATION WITH SEATTLE DEPARTMENT OF TRANSPORTATION CURB SPACE MANAGEMENT AT 206-684-5370 WITH AT LEAST 10 BUSINESS DAYS' NOTICE. SIGNPOSTS ARE TO BE INSTALLED IN ACCORDANCE WITH STANDARD PLANS 616, 620, 621A, 621B, 625, & 626.
28.

ALL STREET NAME SIGNS MUST BE INSTALLED BY SEATTLE DEPARTMENT OF TRANSPORTATION AT THE PERMITTEE/CONTRACTOR'S EXPENSE.
29.

ALL WORK PERFORMED BY SEATTLE CITY LIGHT, SEATTLE PUBLIC UTILITIES, AND OTHER UTILITIES TO INSTALL, REPAIR, REMOVE OR RELOCATE UTILITIES SHALL BE DONE AT THE PERMITTEE/CONTRACTOR'S EXPENSE.
30.

PERMITTEE/CONTRACTOR MUST CONTACT THE SEATTLE DEPARTMENT OF PARKS AND RECREATION TO APPLY FOR A SEPARATE PERMIT IF WORKING WITHIN A DESIGNATED PARK BOULEVARD.
31.

CARE SHALL BE EXERCISED WHEN EXCAVATING OR REMOVING PAVEMENT NEAR EXISTING CHARGED WATER MAINS. CAST IRON WATER MAINS ARE KNOWN TO BE SENSITIVE TO EXCESSIVE VIBRATION. COORDINATE PROTECTION METHODS WITH SPU.

CITY OF SEATTLE WATER SERVICE NOTES

1.

APPLICATION FOR A NEW METERED WATER SERVICE AND PAYMENT OF ALL FEES IS REQUIRED BEFORE SERVICE WILL BE AVAILABLE.
2.

APPLICANT WILL NEED A WATER AVAILABILITY CERTIFICATE (WAC) AND LEGAL DESCRIPTION OF PROPERTY WHEN SUBMITTING THE APPLICATION. TO OBTAIN A WAC, PLEASE CONTACT THE DEVELOPMENT SERVICES OFFICE AT (206) 684-3333 OR SPUWATERAVAILABILITY@SEATTLE.GOV.
3.

ALL WATER SERVICES SHALL BE LOCATED IN THE PUBLIC RIGHT OF WAY AND WITHIN THE FRONTAGE OF THE PARCEL BEING SERVED.
4.

ALL WATER SERVICES PIPING ON PROPERTY MUST BE INSPECTED PRIOR TO BACKFILLING TRENCH. CONTACT (206) 684-5800 TO REQUEST AN INSPECTION.
5.

CUSTOMERS ARE REQUIRED TO INSTALL AN APPROVED AIR GAP OR REDUCED-PRESSURE BACKFLOW ASSEMBLY (RPBA/RPDA) ON ALL WATER SERVICE CONNECTIONS POSING A HIGH HEALTH CROSS-CONNECTION HAZARD (PURSUANT TO WAC 246-290-490). BACKFLOW PREVENTION IS ALSO REQUIRED ON WATER SERVICE CONNECTIONS SUCH AS FIRE SERVICES, IRRIGATION SERVICES, BUILDINGS EXCEEDING THREE STORIES OR 30 FT. IN HEIGHT ABOVE THE METER (MEASURED TO THE HIGHEST WATER FIXTURE), AND MAY BE REQUIRED FOR OTHER WATER SERVICES. SPU AND KING COUNTY HEALTH DEPARTMENT (KCHD) ARE THE ADMINISTRATIVE AUTHORITIES ENGAGED IN A JOINT PROGRAM IDENTIFYING ACTUAL AND POTENTIAL CROSS-CONNECTIONS BETWEEN THE PUBLIC WATER SUPPLY AND POSSIBLE SOURCES OF CONTAMINATION. FOR ANSWERS TO SPECIFIC CROSS-CONNECTION CONTROL QUESTIONS OR TO REQUEST AN INSPECTION, PLEASE CALL (206) 684-3536.

CITY OF SEATTLE EROSION/SEDIMENT CONTROL (ESC) NOTES:

1.

THE CONTRACTOR SHALL PREPARE A WORK PLAN FOR TEMPORARY EROSION AND SEDIMENTATION CONTROL AS REQUIRED PER COS GENERAL NOTES FOR SIP# 23. IMPLEMENTATION, CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS ACCEPTED BY THE CITY.
2.

THE ESC FACILITIES SHALL BE CONSTRUCTED IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.
3.

THE ESC FACILITIES SHALL BE UPGRADED (E.G. ADDITIONAL SUMPS, RELOCATION OF DITCHES AND BERMS, ETC.) BY THE CONTRACTOR AS NEEDED FOR UNEXPECTED STORM EVENTS.
4.

THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY OR AS DIRECTED BY THE ENGINEER TO ENSURE THEIR CONTINUED FUNCTIONING.
5.

WATER FROM DISTURBED AREAS SHALL BE DIRECTED TO BAKER TANKS AS NEEDED OR AS DIRECTED BY THE ENGINEER.
6.

THE CONTRACTOR SHALL FIELD LOCATE THE ESC FACILITIES TO ACCOMMODATE CONSTRUCTION SEQUENCING.
7.

CONTRACTOR SHALL PROVIDE CONSTRUCTION FENCING AS REQUIRED FOR SAFETY AND AS DIRECTED BY THE ENGINEER.
8.

CATCH BASINS IN THE STREET SHALL BE INSPECTED DAILY BY THE CONTRACTOR. WATER LEAVING THE WORK AREA DURING CONSTRUCTION, INCLUDING WATER CARRIED BY THE TRUCK TIRES, SHALL BE CLEAN. THE CONTRACTOR SHALL CLEAN CITY CATCH BASINS AND IMPLEMENT EXTRA SEDIMENTATION CONTROL METHODS IF NECESSARY AND AS DIRECTED BY THE ENGINEER.
9.

EXCAVATION DEWATERING THAT INCLUDES DISCHARGE TO THE CITY STREET, CATCH BASIN, OR SEWER SHALL BE IMPLEMENTED ONLY AFTER APPROVAL BY THE ENGINEER.
10.

NO SEDIMENT SHALL BE TRACKED INTO THE STREET OR ONTO PAVED SURFACES. SEDIMENT SHALL BE REMOVED FROM TRUCKS AND EQUIPMENT PRIOR TO LEAVING THE SITE. IN THE EVENT OF FAILURE OF THE EROSION CONTROL SYSTEM RESULTING IN SEDIMENT BEING TRACKED ONTO PAVED SURFACES, THE CONTRACTOR SHALL IMMEDIATELY IMPLEMENT MEASURES TO CORRECT THE SITUATION, AND STREET SWEEPING SHALL BE EMPLOYED ON AN EMERGENCY BASIS. IF STREET SWEEPING VEHICLES ARE UTILIZED, THEY SHALL BE OF THE TYPE THAT REMOVES THE SEDIMENT FROM THE PAVEMENT.
11.

CONTRACTOR SHALL COMPLY WITH NPDES PERMIT REGULATIONS AND REQUIREMENTS AS APPLICABLE.

CITY OF SEATTLE CONSTRUCTION STORMWATER CONTROL (CSC) GENERAL NOTES:

1.

A FIRST GROUND DISTURBANCE INSPECTION IS REQUIRED PRIOR TO START OF WORK ON ALL SITES WITH LAND DISTURBING ACTIVITY.
2.

SCHEDULE A FIRST GROUND DISTURBANCE INSPECTION FOR A ISSUED BUILDING PERMIT AT 206-684-8900 OR ONLINE AT WWW.SEATTLE.GOV/DPD/PERMITS/INSPECTIONS/
3.

THE APPLICANT SHALL DESIGNATE AN EROSION AND SEDIMENT CONTROL (ESC) SUPERVISOR WHO SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs). FOR LARGE CONSTRUCTION PROJECTS, THE ESC SUPERVISOR SHOULD BE A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL). PROVIDE THE NAME AND PHONE NUMBER OF THE ESC SUPERVISOR TO THE SITE INSPECTOR AT THE FIRST GROUND DISTURBANCE INSPECTION.
4.

BMPs SHALL BE INSTALLED PRIOR TO STARTING CONSTRUCTION TO ENSURE SEDIMENT-LADEN WATER DOES NOT LEAVE THE PROJECT SITE OR ENTER ROADSIDE DITCHES, STORM DRAINS, SURFACE WATERS, OR WETLANDS.
5.

THE BMPs INCLUDED IN THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. THE APPLICANT IS RESPONSIBLE FOR ENSURING THAT BMPs ARE MODIFIED AS NEEDED FOR UNEXPECTED STORM EVENTS OR OTHER UNFORESEEN CIRCUMSTANCES, AND TO ACCOUNT FOR CHANGING SITE CONDITIONS.
6.

ANY AREAS OF DISTURBED SOIL THAT WILL NOT BE WORKED FOR TWO CONSECUTIVE DAYS DURING THE WET SEASON (OCT 1 TO APRIL 30) OR SEVEN DAYS DURING THE DRY SEASON (MAY 1 TO SEPT 30) SHALL BE IMMEDIATELY STABILIZED WITH APPROVED BMP METHODS (E.G. STRAW, MULCH, PLASTIC COVERING, COLD MIX, ETC.)
7.

GRADING AND/OR SOIL DISTURBING ACTIVITIES MAY BE LIMITED OR PROHIBITED FOR CERTAIN SITES SUBJECT TO ECA STANDARDS (I.E. ECA STEEP SLOPES, LANDSLIDE PRONE AREAS, ETC.) BETWEEN OCTOBER 31ST AND APRIL 1ST. IF NOTED IN THE GEOTECHNICAL SPECIAL INSPECTIONS REQUIREMENTS, A GRADING SEASON EXTENSION LETTER (GSEL) ISSUED BY SDCI IS REQUIRED FOR ALL GRADING AND/OR SOIL DISTURBING ACTIVITIES DURING THIS PERIOD. THE GEOTECHNICAL SPECIAL INSPECTOR MUST SUBMIT ELECTRONIC APPLICATIONS FOR A GSEL USING THE SDCI PROJECT PORTAL. ALLOW FOUR TO SIX WEEKS FOR PROCESSING. FAILURE TO OBTAIN THE GSEL PRIOR TO OCTOBER 31 MAY RESULT IN A WORK STOPPAGE.
8.

CITY STREETS AND SIDEWALK SHALL BE KEPT CLEAN AT ALL TIMES. NO MATERIAL SHALL BE STORED ON CITY STREETS OR SIDEWALKS WITHOUT A STREET USE PERMIT FROM THE SEATTLE DEPARTMENT OF TRANSPORTATION (SDOT).
9.

POLLUTION CONTROL MEASURES SHALL BE FOLLOWED TO ENSURE THAT NO LIQUID PRODUCTS OR CONTAMINATED WATER ENTERS ANY STORM DRAINAGE FACILITIES OR OTHERWISE LEAVES THE PROJECT SITE. ANY HAZARDOUS MATERIALS OR LIQUID PRODUCTS THAT HAVE THE POTENTIAL TO POLLUTE RUNOFF SHALL BE STORED AND DISPOSED OF PROPERLY.
10.

ENSURE THAT WASHOUT FROM CONCRETE TRUCKS IS PERFORMED OFF-SITE OR IN DESIGNATED CONCRETE WASHOUT AREAS ONLY. DO NOT WASH OUT CONCRETE TRUCKS ONTO THE GROUND, OR TO STORM DRAINS OR OPEN DITCHES. DO NOT DUMP EXCESS CONCRETE ONSITE, EXCEPT IN DESIGNATED CONCRETE WASHOUT AREAS.
11.

ALL AREAS OF DISTURBED SOIL SHALL BE FULLY STABILIZED WITH THE APPROPRIATE SOIL AMENDMENT AND COVER MEASURE AT COMPLETION OF THE PROJECT. TYPICAL COVER MEASURES INCLUDE LANDSCAPING OR HYDROSEED WITH MULCH.

GENERAL SITE UTILITY NOTES:

1.

COORDINATE WITH THE OWNER FOR ALL UTILITY SHUT DOWNS AND BYPASSES.
2.

VERIFY ALL EXISTING UTILITY DEPTHS AND LOCATIONS PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES.
3.

ALL WATER INVERT ELEVATIONS SHALL BE CONTROLLED BY THE EXISTING UTILITIES, UTILITY CROSSING CLEARANCES AND MINIMUM COVER REQUIREMENTS. THESE PLANS SHOW THE PROPOSED ROUTING OF WATER PIPES. CONTRACTOR SHALL INSTALL WATER PIPES AS FOLLOWS, UNLESS NOTED OTHERWISE:
 - 3.0' MIN COVER
 - 12" MINIMUM CLEAR FROM OBSTRUCTIONS (PIPE, VAULTS, ETC.), UNLESS NOTED OTHERWISE.
 - 18" MINIMUM VERTICAL AND 10.0' MINIMUM HORIZONTAL CLEAR FROM SANITARY SEWER PIPES MEASURED FROM THE OUTSIDE EDGE OF PIPE.
4.

CONSTRUCT WATER LINES IN ORDER TO AVOID CREATING HIGH OR LOW POINTS. WHERE HIGH OR LOW POINTS ARE CREATED, CONTRACTOR SHALL INSTALL AIR RELEASE/VACUUM VALVES OR BLOWOFF VALVES. PRIOR TO CREATING A HIGH/LOW POINT, CONTRACTOR SHALL CONSULT WITH THE OWNER TO AVOID PLACING VALVES IN UNDESIRABLE LOCATIONS.
5.

PROVIDE THRUST BLOCKING WHERE INDICATED PER COS PLANS 330a, 330b, 331a, AND 331b.
6.

RESET RIMS AND LIDS OF EXISTING UTILITY STRUCTURES TO REMAIN TO MATCH FINISH GRADE.
7.

ALL DIMENSIONS, STATIONS, OFFSETS, NORTHINGS AND EASTINGS SHOWN FOR UTILITY STRUCTURES ARE MEASURED TO THE CENTER OF STRUCTURE, UNLESS NOTED OTHERWISE.
8.

HORIZONTAL CONTROL PROVIDED FOR ALL HORIZONTAL UTILITY BENDS AND SWEEPS IS TO THE POINT OF INTERSECTION OF THE CENTERLINES OF THE STRAIGHT UTILITY ALIGNMENTS.
9.

PIPE BEDDING FOR SANITARY SEWER PIPES SHALL BE PER COS STD PLAN 285. PIPE BEDDING FOR WATER PIPES SHALL BE PER COS STD PLAN 350.

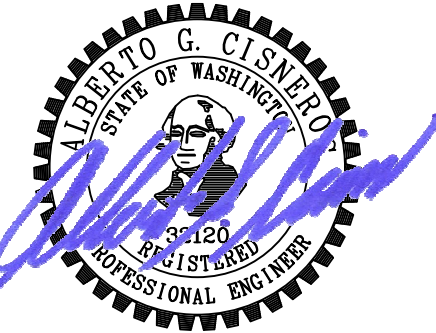
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3	90% CD SUBMITTAL	11/18/21
2	60% CD SUBMITTAL	01/28/21
1	30% DD SUBMITTAL	12/05/19
NO.	REVISION – AS BUILT	DATE

REVIEWED: _____
PARK ENGINEER _____ DATE _____
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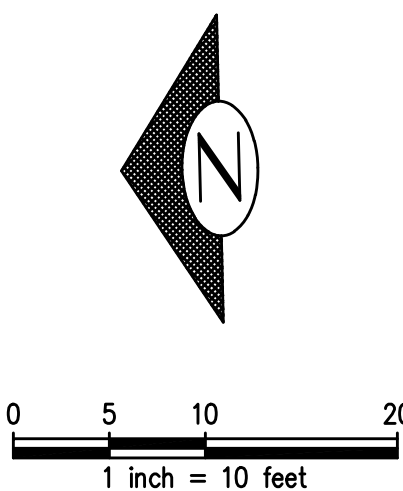
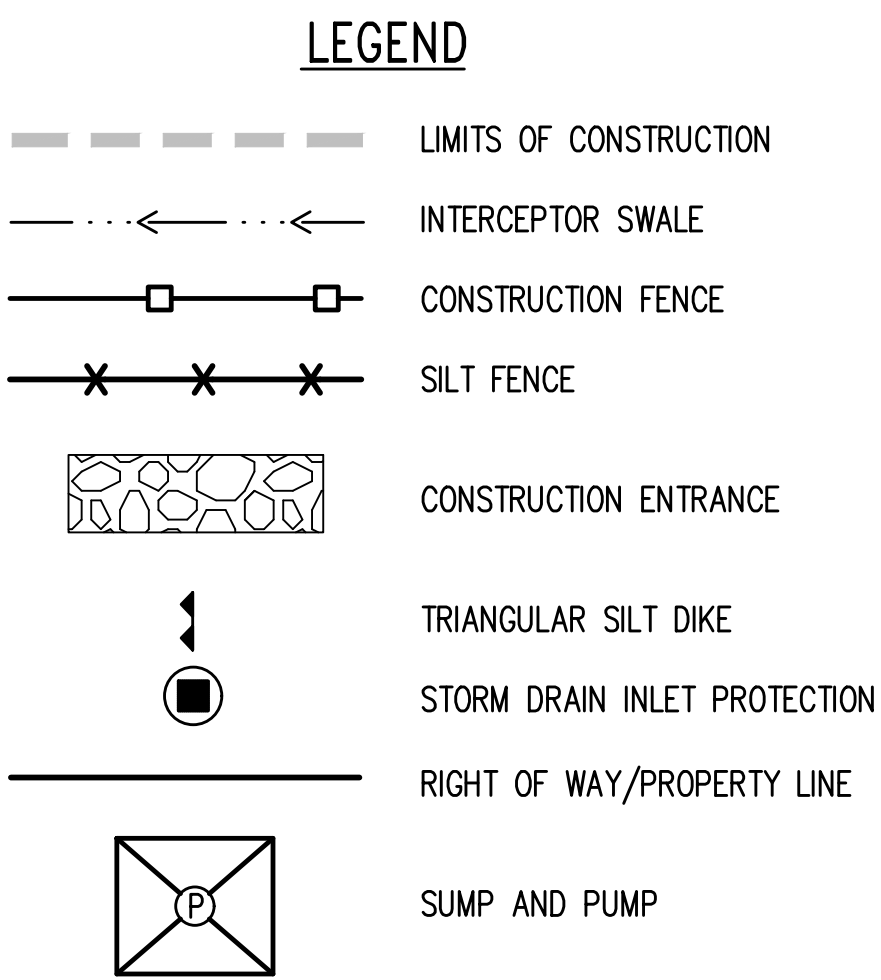


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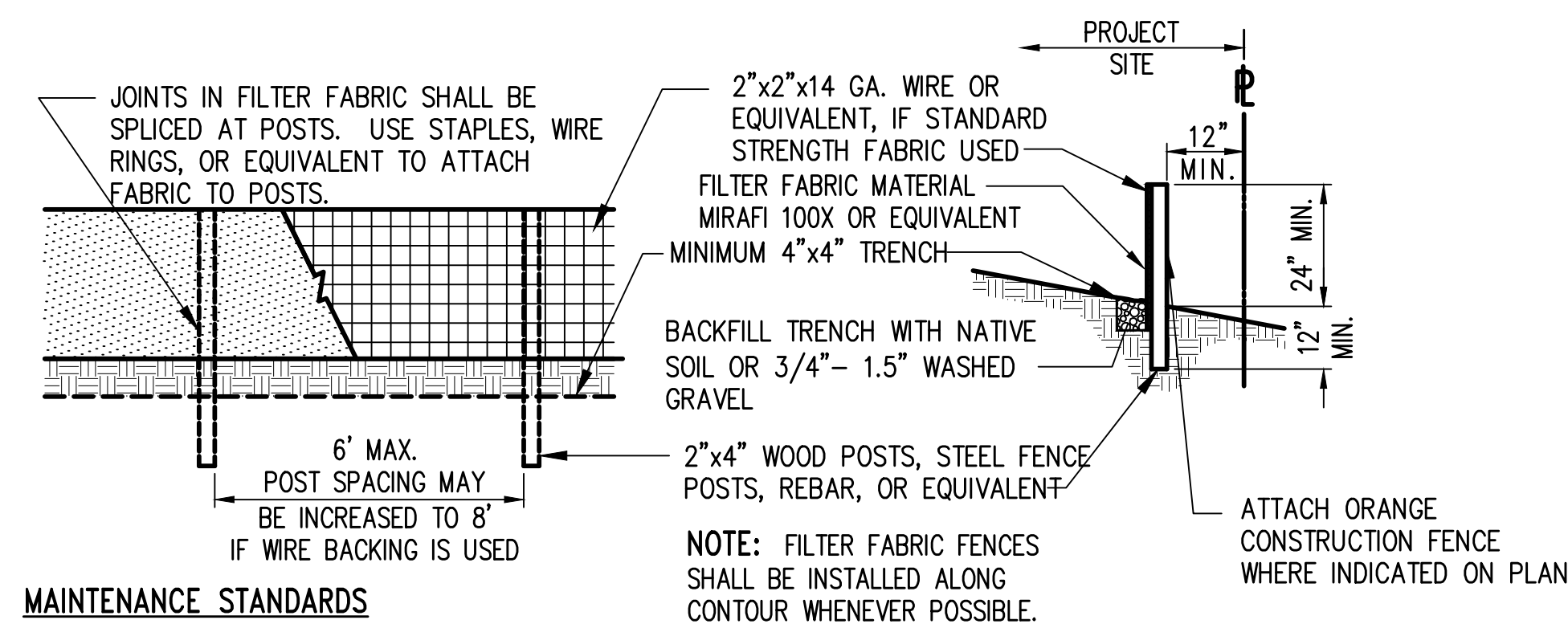
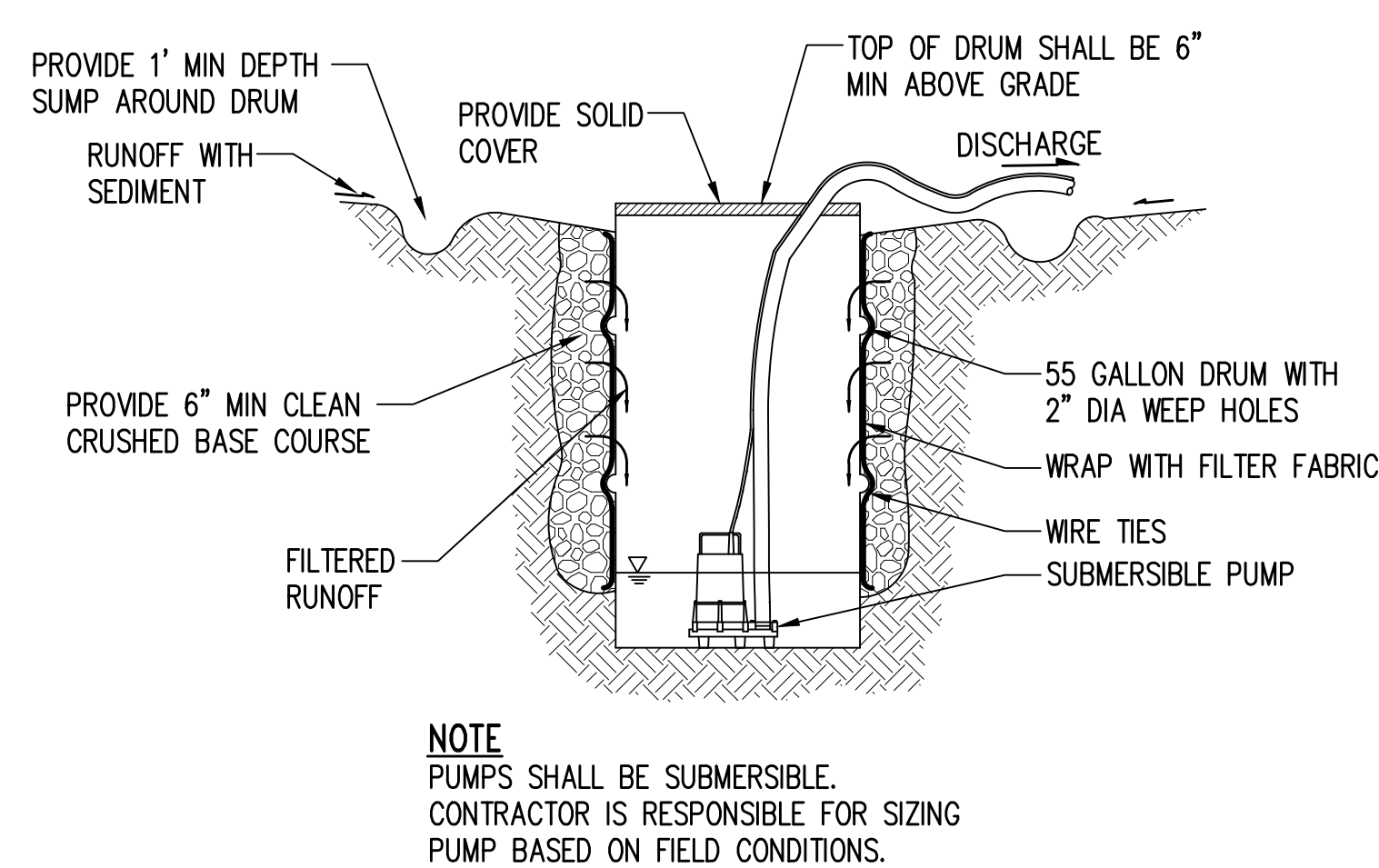
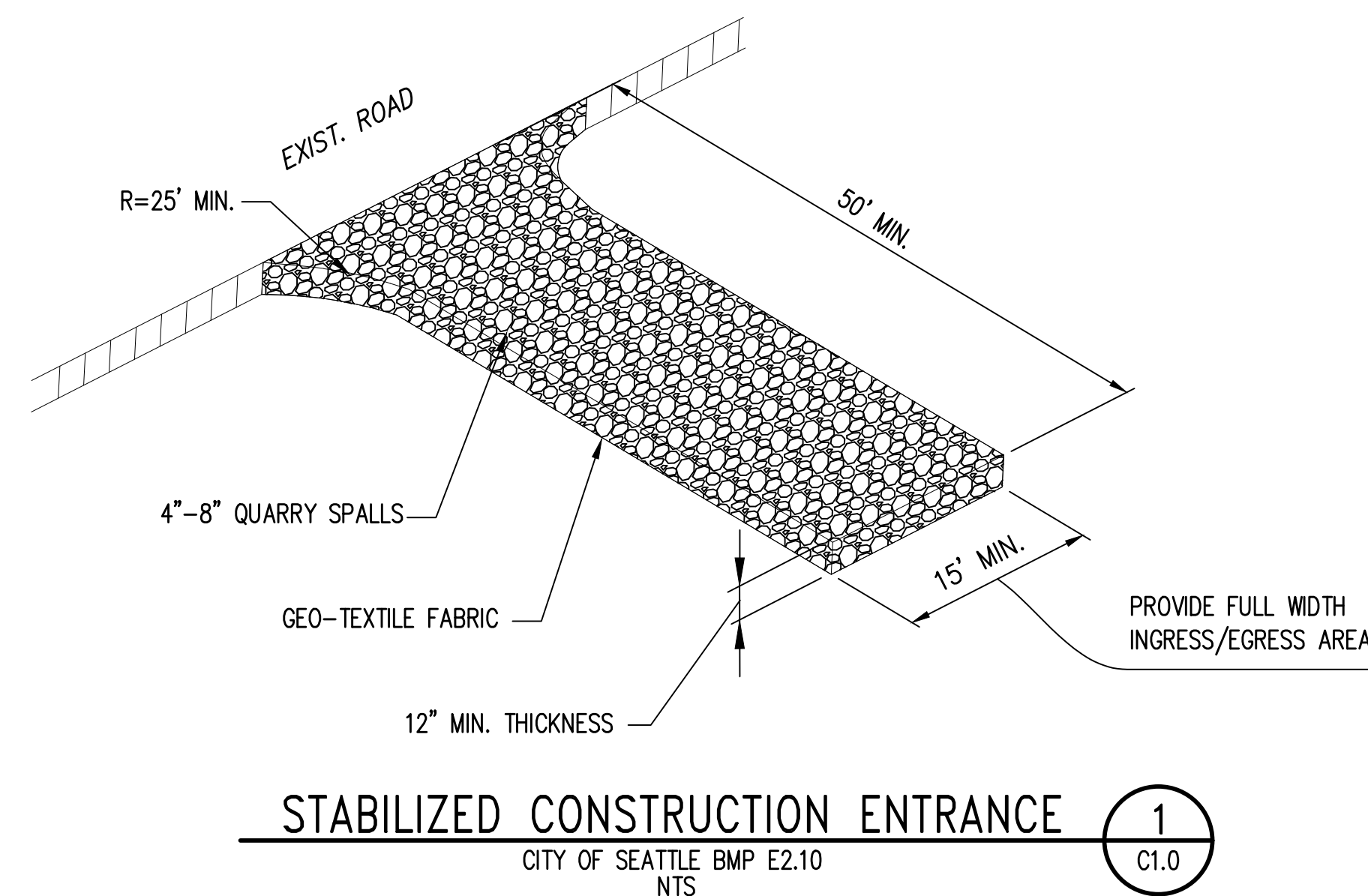
PARK DEVELOPMENT

CIVIL GENERAL NOTES

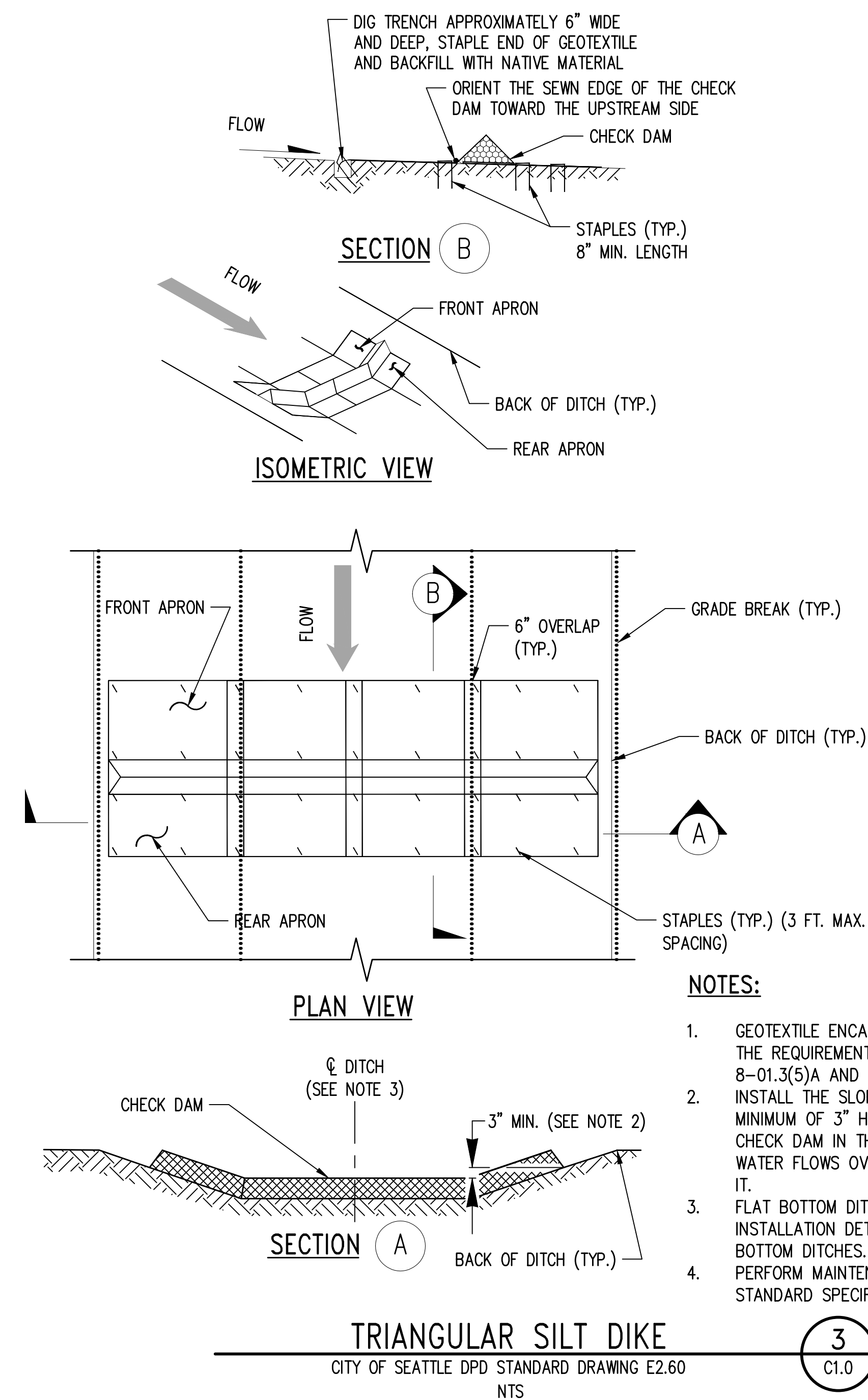
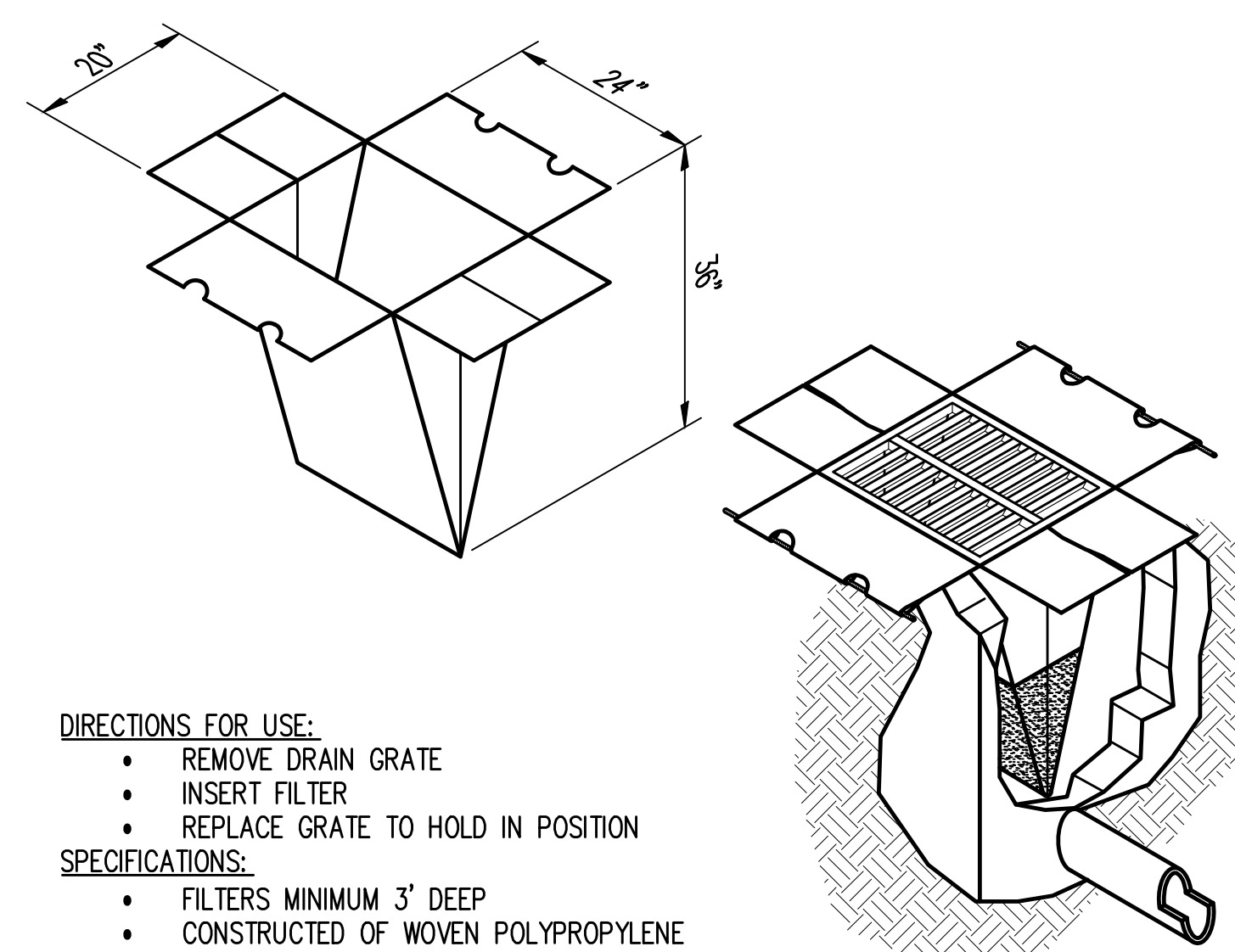
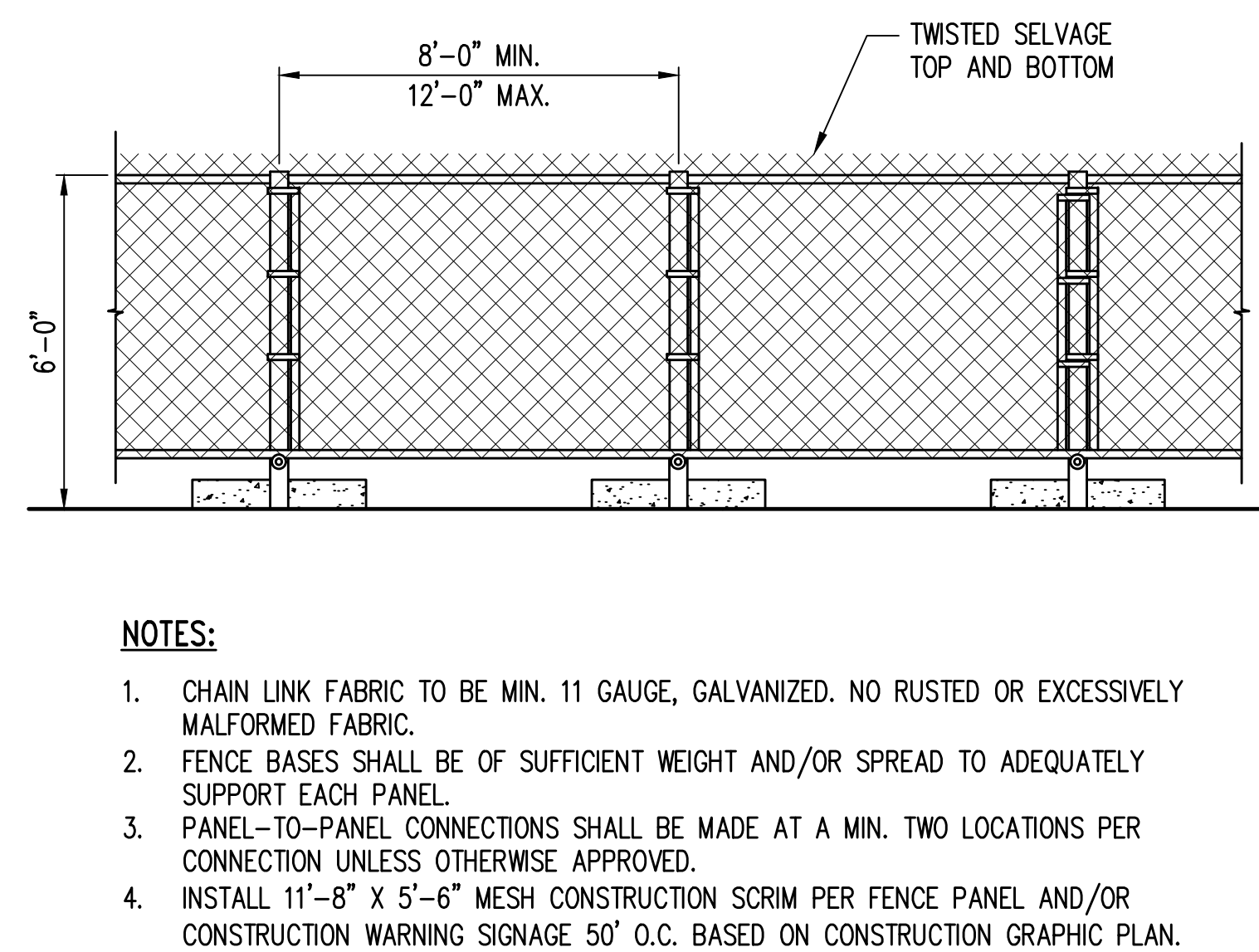
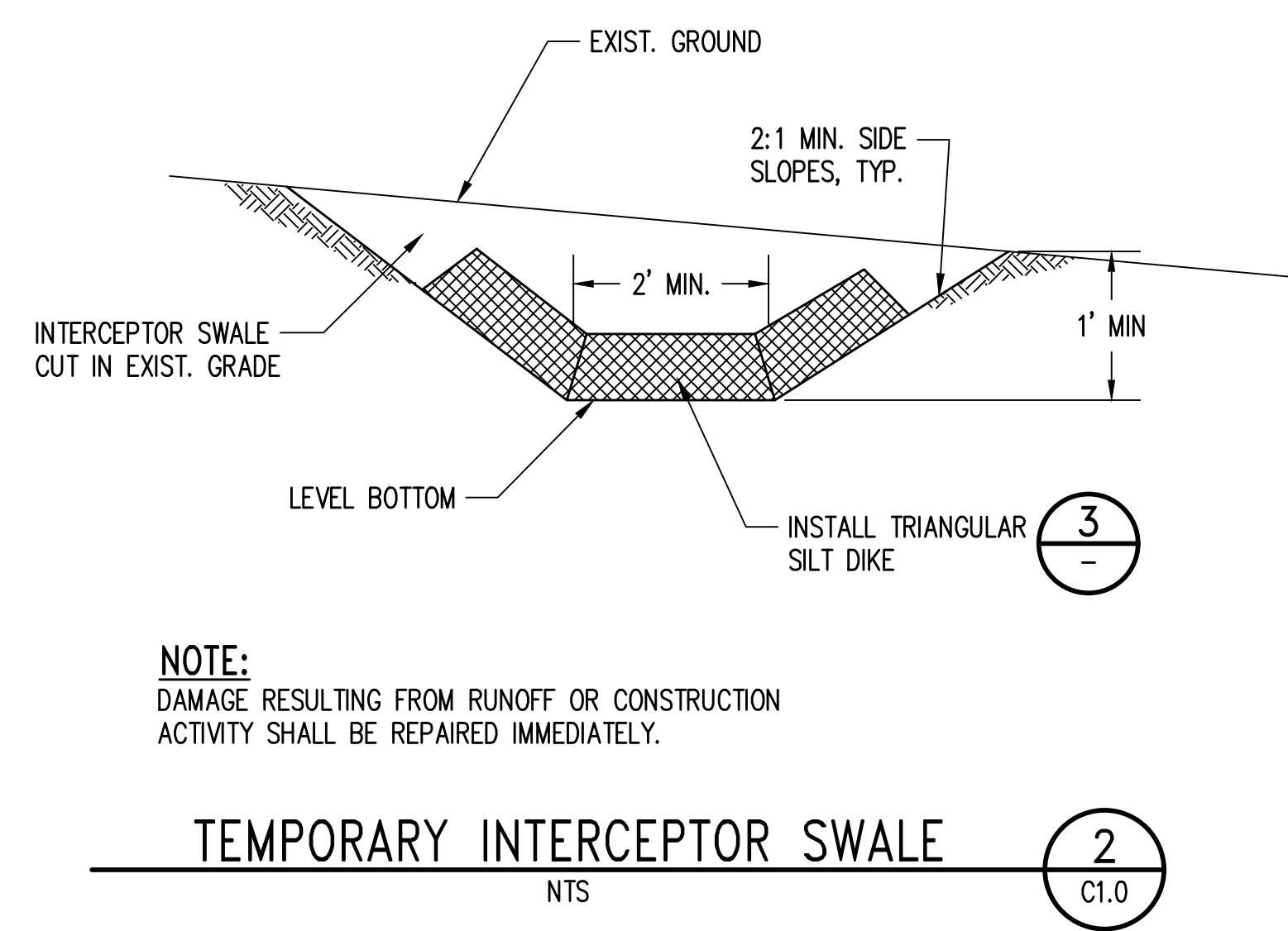
DESIGNED <u>AC/SB</u>	DATE <u>1/20/22</u>
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CHECKED <u>AC</u>	SHEET <u>4</u> OF <u>26</u>
ORDINANCE NO. <u>125475</u>	C0.1
CONTRACT NO. <u>2064</u>	
SCALE _____	



DESIGNED <u>AC/SB</u>	DATE <u>1/20/22</u>
DRAWN <u>CP</u>	SHEET <u>5</u> OF <u>26</u>
CHECKED <u>AC</u>	
ORDINANCE NO. <u>125475</u>	
CONTRACT NO. <u>2064</u>	C1.0
SCALE <u> </u>	



1. ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.
2. IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT TRAP OR POND.
3. IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGNS OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCURS, REPLACE THE FENCE OR REMOVE THE TRAPPED SEDIMENT.
4. SEDIMENT MUST BE REMOVED WHEN THE SEDIMENT IS 6" HIGH.
5. IF THE FILTER FABRIC HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.



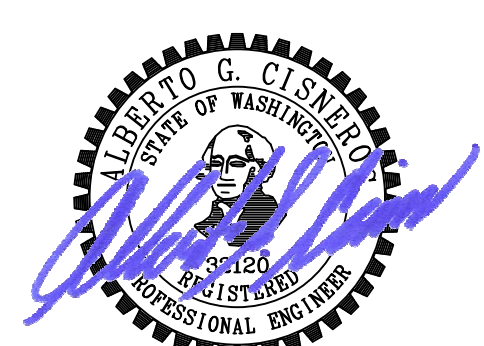
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3	90% CD SUBMITTAL	11/18/21
2	60% CD SUBMITTAL	01/28/21
1	30% DD SUBMITTAL	12/05/19
NO.	REVISION - AS BUILT	DATE

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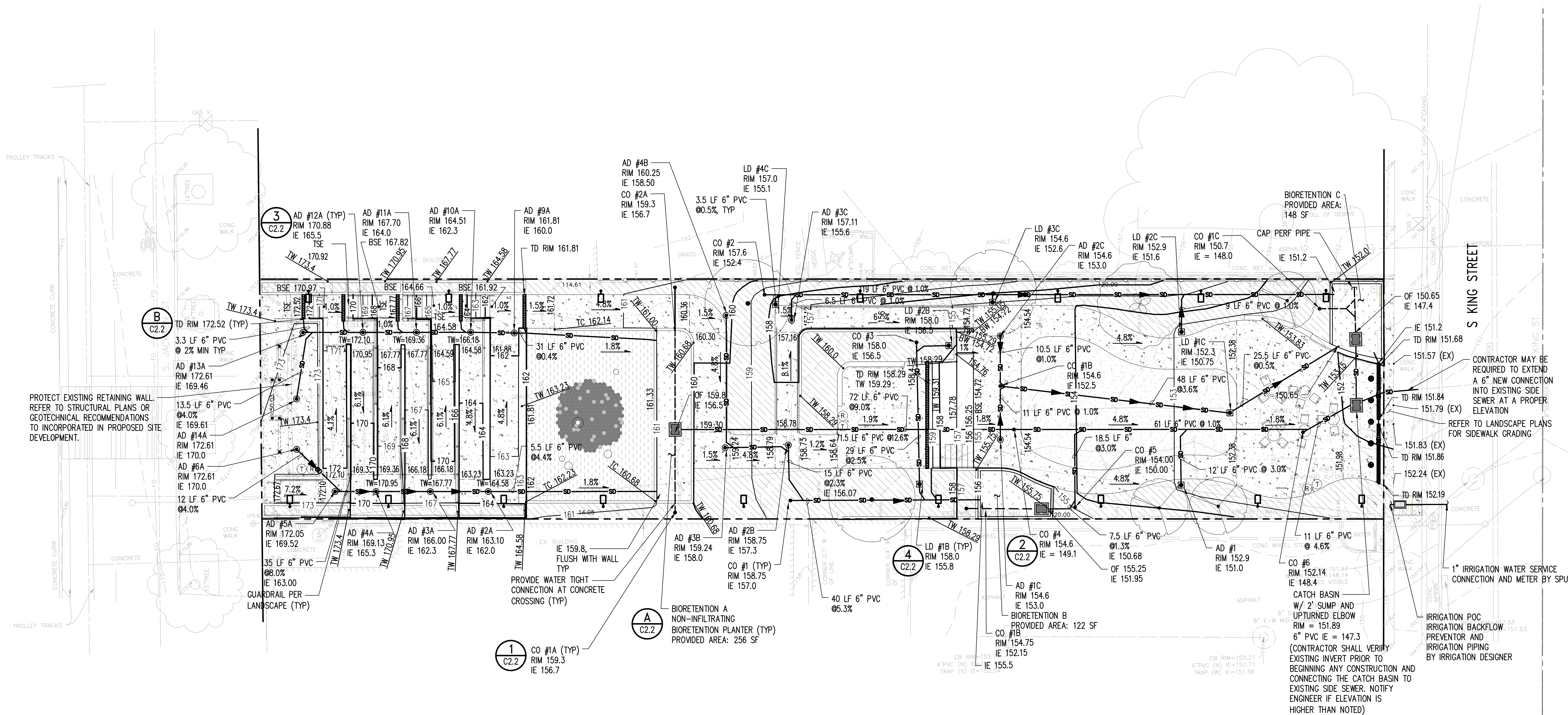
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DEMOLITION AND TESC DETAILS

DESIGNED	AC/SB	DATE	1/20/22
DRAWN	CP	SHEET	6 OF 26
CHECKED	AC		
ORDINANCE NO.	125475	C1.1	
CONTRACT NO.	2064		
SCALE			

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LEGEND

- STORM DRAINAGE
- PERFORATED DRAIN PIPE
- CATCH BASIN (CB)
- LANDSCAPE DRAIN (LD)
- AREA DRAIN (AD)
- CLEANOUT (CO)
- 6" TRENCH DRAIN (TD)
- BIORETENTION
- GRADE BREAK WITH ELEVATION
- TW TOP OF WALL
- BW BOTTOM OF WALL
- TSE TOP OF STEP ELEVATION
- BSE BOTTOM OF STEP ELEVATION
- OF OVERFLOW ELEVATION

STORMWATER NOTES:

- CONSTRUCTION OF STORMWATER CONTROL SHALL BE PROVIDED BY VARIOUS TSC BMPs, INCLUDING BUT NOT LIMITED TO: A STABILIZED CONSTRUCTION ENTRANCE; SILT FENCING; AND SEDIMENT SETTLING AREAS.
- STORMWATER RUNOFF FROM THE SITE DISCHARGES TO THE EXISTING PUBLIC SEWER SYSTEM ALONG S KING STREET.
- ON-SITE STORMWATER MANAGEMENT SHALL BE PROVIDED VIA BIORETENTION PLANTERS. REFER TO C2.1 FOR AN OSM PLAN. REFER TO LANDSCAPE AND STRUCTURAL PLANS FOR ALL DIMENSIONS, MATERIALS, AND DETAILING. MINIMUM AREAS ARE NOTED ON THIS SHEET AND THE OSM PLAN.
- REFER TO LANDSCAPE PLANS FOR CONCRETE SURFACES AND FINISHES, CONCRETE WALLS, AND STAIRS.
- WATER METER WILL BE REQUIRED FOR IRRIGATION SERVICES. SIZE TO BE VERIFIED BY IRRIGATION DESIGNER AND APPLICATION TO SPU.

GRADING NOTES:

- TOP OF WALL AT CONTIGUOUS ACCESSIBLE RAMPS ARE CONSISTENT ALONG EACH WALL AND ARE AS MARKED ON PLANS.
- SEE SHEET L3.0 FOR ADDITIONAL ACCESSIBILITY CRITERIA AND GUARDRAIL PLACEMENT.
- REFER TO LANDSCAPE PLANS FOR HANDRAIL LOCATIONS.
- REFER TO LANDSCAPE SECTIONS ON SHEET L6.0 FOR A NORTH-SOUTH SECTION SHOWING EXISTING GRADE SURFACE AND PROPOSED IMPROVEMENTS.

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2	60% CD SUBMITTAL	01/28/21
1	30% DD SUBMITTAL	12/05/19
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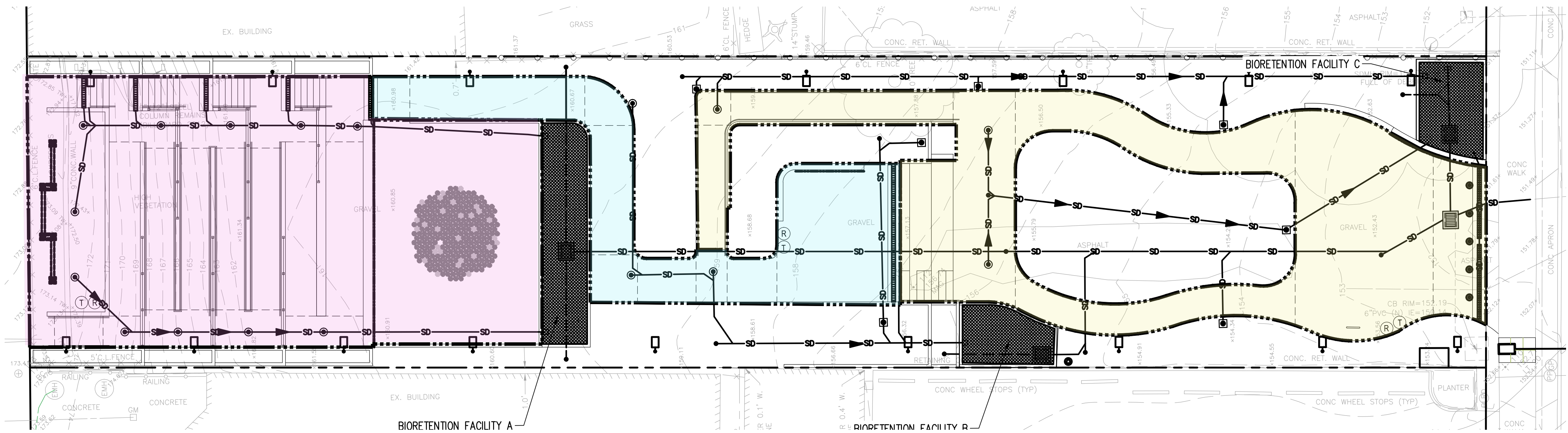
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PARK DEVELOPMENT GRADING AND DRAINAGE PLAN

DESIGNED AC/SB	DATE 1/20/22
DRAWN CP	
CHECKED AC	SHEET 7 OF 26
ORDINANCE NO. 125475	C2.0
CONTRACT NO. 2064	
SCALE	

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call SPR Inspection Request Line (206) 684-7034.



BIORETENTION PLANTER INFORMATION					
NAME	HARD SURFACE MITIGATED (SF)	AREA REQUIRED (SF)	AREA PROVIDED (SF)	TOP OF MULCH EL. (FT)	BASINS
BIORETENTION FACILITY A	3388	190	256	159.3	BASIN A
BIORETENTION FACILITY B	1105	62	122	154.8	BASIN B*
BIORETENTION FACILITY C	2397	134	148	150.7	BASIN C*

*SOME LAWN AND PLANTER AREA WILL ALSO BE ROUTED TO BIORETENTION FACILITIES B AND C, BUT ARE NOT INCLUDED IN THE BASIN AREA

LEGEND

- SD STORM DRAINAGE
- PERFORATED DRAIN PIPE
- CATCH BASIN (CB)
- LANDSCAPE DRAIN (LD)
- AREA DRAIN (AD)
- CLEANOUT (CO)
- BIORETENTION
- SUB-BASIN LINE

STORMWATER NOTES:

- STORMWATER RUNOFF FROM THE SITE DISCHARGES TO THE EXISTING PUBLIC SEWER SYSTEM ALONG S KING STREET.
- ON-SITE STORMWATER MANAGEMENT SHALL BE PROVIDED VIA 3 NON-INFILTRATING BIORETENTION PLANTERS. SEE SHEET C2.2 FOR BIORETENTION DETAILS
- ALL BIORETENTION PLANTERS SHALL HAVE A 6-INCH PONDING DEPTH

On-site Stormwater Management - List Approach Calculator
Site and Drainage Control Summary
Version 07-28-2017
To use the On-Site List Calculator you must select "Enable Content" when the Security Warning appears.

Project Information
Site Address: 1224 S King Street, Seattle, WA
Primary Contact: Sam Brick
Project Type: Parcel-Based
SDCI Project Number: 6769780-CN
SDOT Project Number:
Primary Contact E-mail or Phone: sam.brick@kpff.com

Total Site Area: 11,729 sf
Total New plus Replaced Hard Surface Area: 6,890 sf
Existing Hard Surface Area to Remain: 0 sf
Total New and/or Replaced Lawn and Landscaping: 4,839 sf
Undisturbed and protected site area: 0 sf
Was the project lot created or reduced in size after Jan 1, 2016? No
Project Engineer: Alberto Cisneros
Engineer E-mail: alberto.cisneros@kpff.com

On-site Stormwater Management required for 2,150 sf of new plus replaced area.
On-site Performance Standard will be used (professional engineer required)? No

Site Information
Note: If required for your project, reference the Preliminary Assessment Report (PAR) to complete this section. If the total areas proposed are different from those provided in the PAR, requirements may change.

Approved Point of Stormwater Discharge: Public Combined Sewer Main
Drainage Basin: Combined Sewer Service Area
Is the downstream drainage system considered Capacity Constrained by SPU? No
Approved Point of Wastewater Discharge: Public Combined Sewer Main
Approved Point of Sub-Surface Discharge: Public Combined Sewer Main
Flow Control is required: No
Flow Control Standard: Public Control Standard

Water Treatment for pollution-generating surfaces is required: No
Select required treatment: On Control, Phosphorus, Enhanced, Basic
Total Pollution Generating Hard Surface Area: 6,890 sf
Total Pollution Generating Pervious Surface Area: 0 sf

Source Control is required: No
Environmentally Critical Areas: No
Steep Slope, Potential Slide, Riparian Corridor, Fish / Wildlife, Wetland, Liquefaction, Flood Prone, Landfill, Known Landslide, Peat / Groundwater Management, Shoreline Habitat
Temporary dewatering required: Yes
Is there known soil and/or groundwater contamination on this site? No
Permanent dewatering required: No
A licensed professional recommends dispersion not be used anywhere within the project site due to reasonable concerns of erosion, slope failure, or flooding. No

Infiltration Information
Is infiltration investigation required? No
Is infiltration on the site feasible? No
Site Measured Infiltration Rate: 0.5 in/hr
Infiltration Rate Correction Factor: 0.5
Site Design INF Rate: 0

On-site Stormwater Management
Number of roof areas: 0
Number of other surface areas: 3

Surface	Surfaces Description	On-site BMP	Contrib. Area (sf)	Facility Size (sf)	Facility Configuration
1	Surface Hard Surface 1	Non-Infiltrating Bioretention #1	3,388	190 sf	Vertical sides 6 inch
2	Surface Hard Surface 2	Non-Infiltrating Bioretention #2	1,105	62 sf	Vertical sides 6 inch
3	Surface Hard Surface 3	Non-Infiltrating Bioretention #3	2,397	134 sf	Vertical sides 6 inch
Total New/Replaced Roof Area		0	Total Roof Area Managed		0
Total New/Replaced Other Surface Area		6,890	Total Other Surface Managed		6,890
Total Area Managed		6,890	Total Volume Managed On Site		49,791 gal
Estimated compost required for soil amendment		30,001.8 cy	Volume of compost required for soil amendment will be verified by the DPD Site Inspector for SDCI permitted projects.		

seattle.gov

3	90% CD SUBMITTAL	11/18/21
2	60% CD SUBMITTAL	01/28/21
1	30% DD SUBMITTAL	12/05/19

NO.	REVISION - AS BUILT	DATE
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www.kpff.com



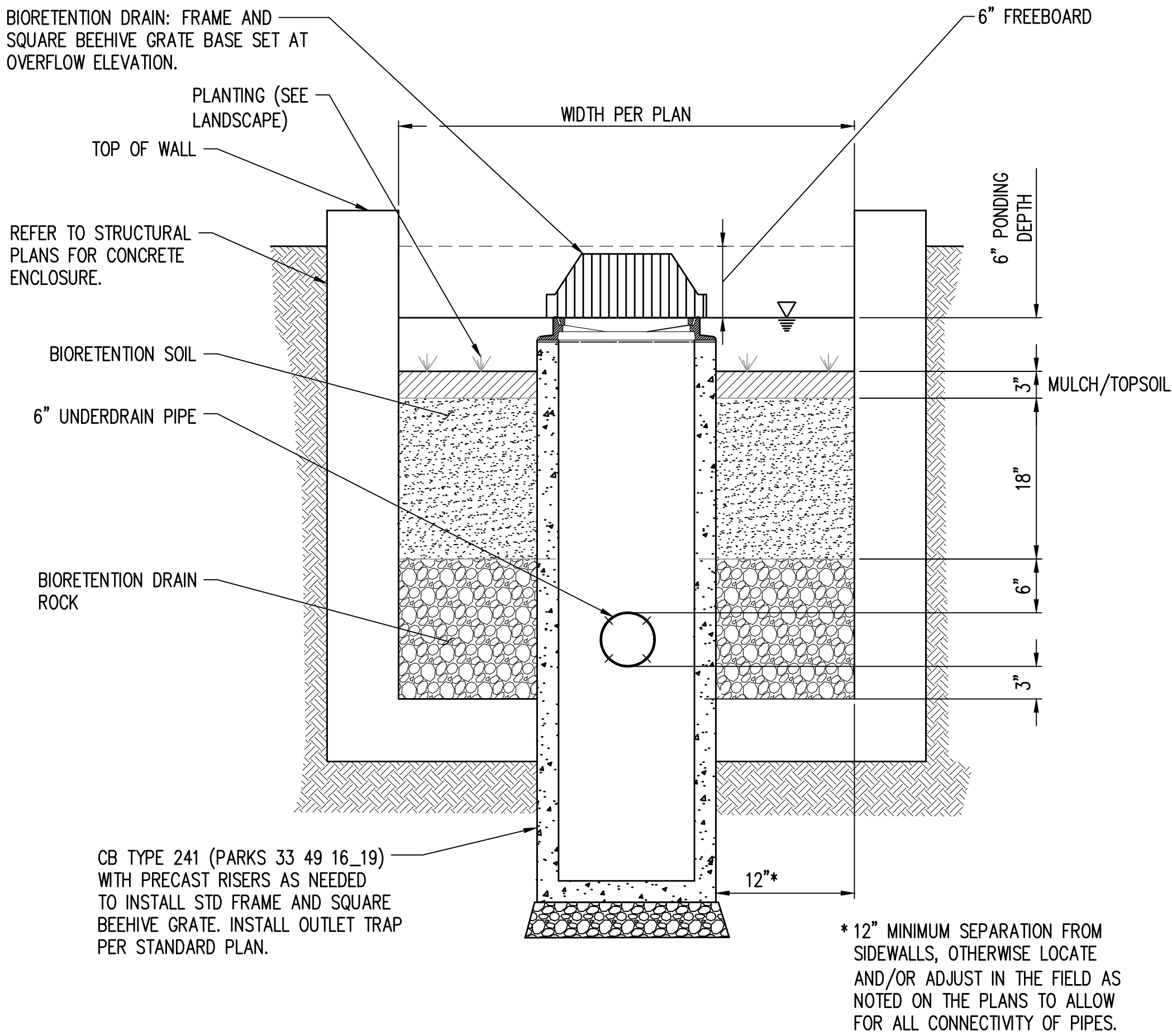
02/01/2022

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PARK DEVELOPMENT
ON-SITE STORMWATER
MANAGEMENT PLAN

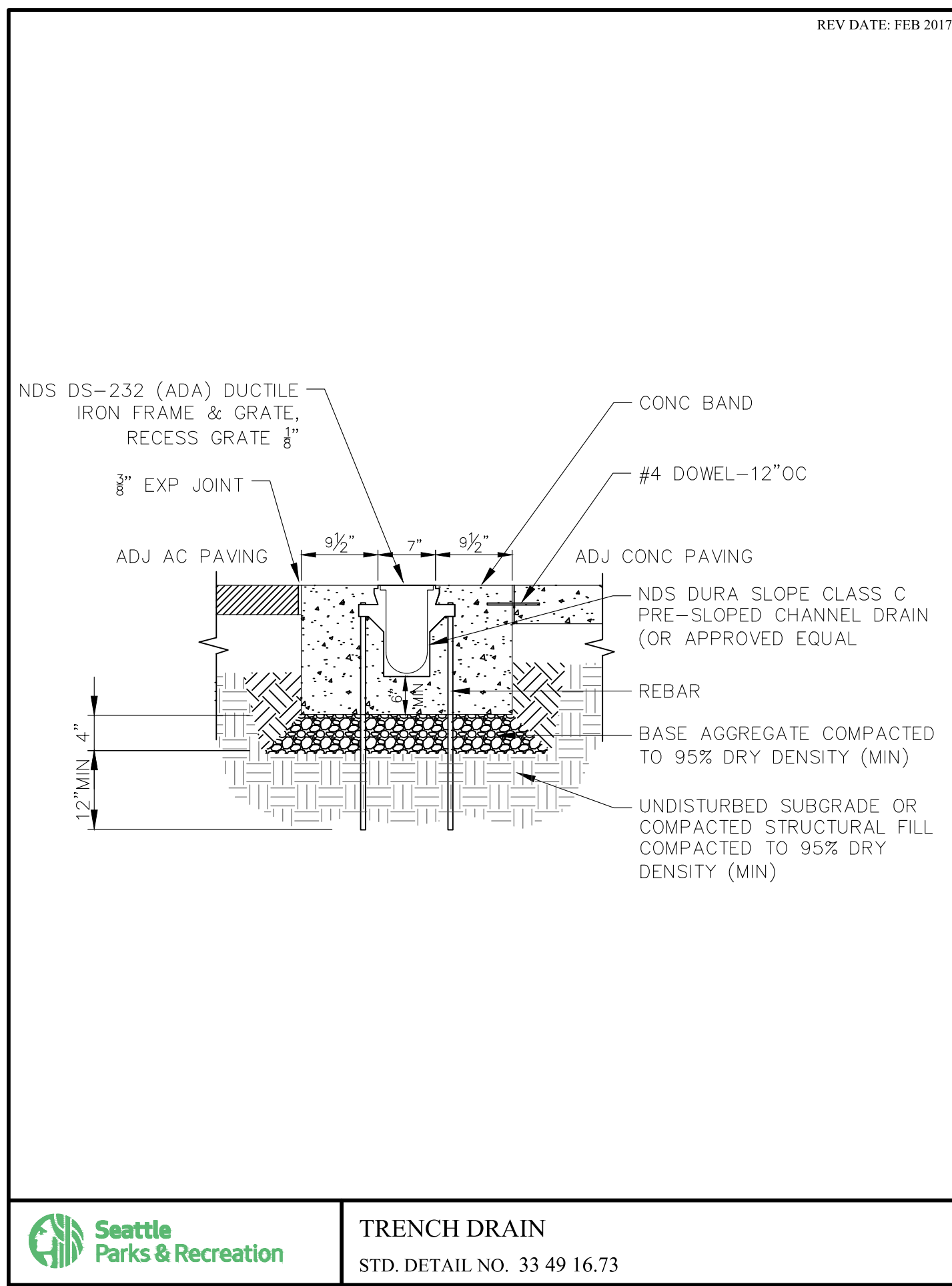
DESIGNED AC/SB	DATE 1/20/22
DRAWN CP	
CHECKED AC	SHEET 8 OF 26
ORDINANCE NO. 125475	C2.1
CONTRACT NO. 2064	
SCALE	



NON-INFILTRATING BIORETENTION
PLANTER IN CONCRETE ENCLOSURE

NTS

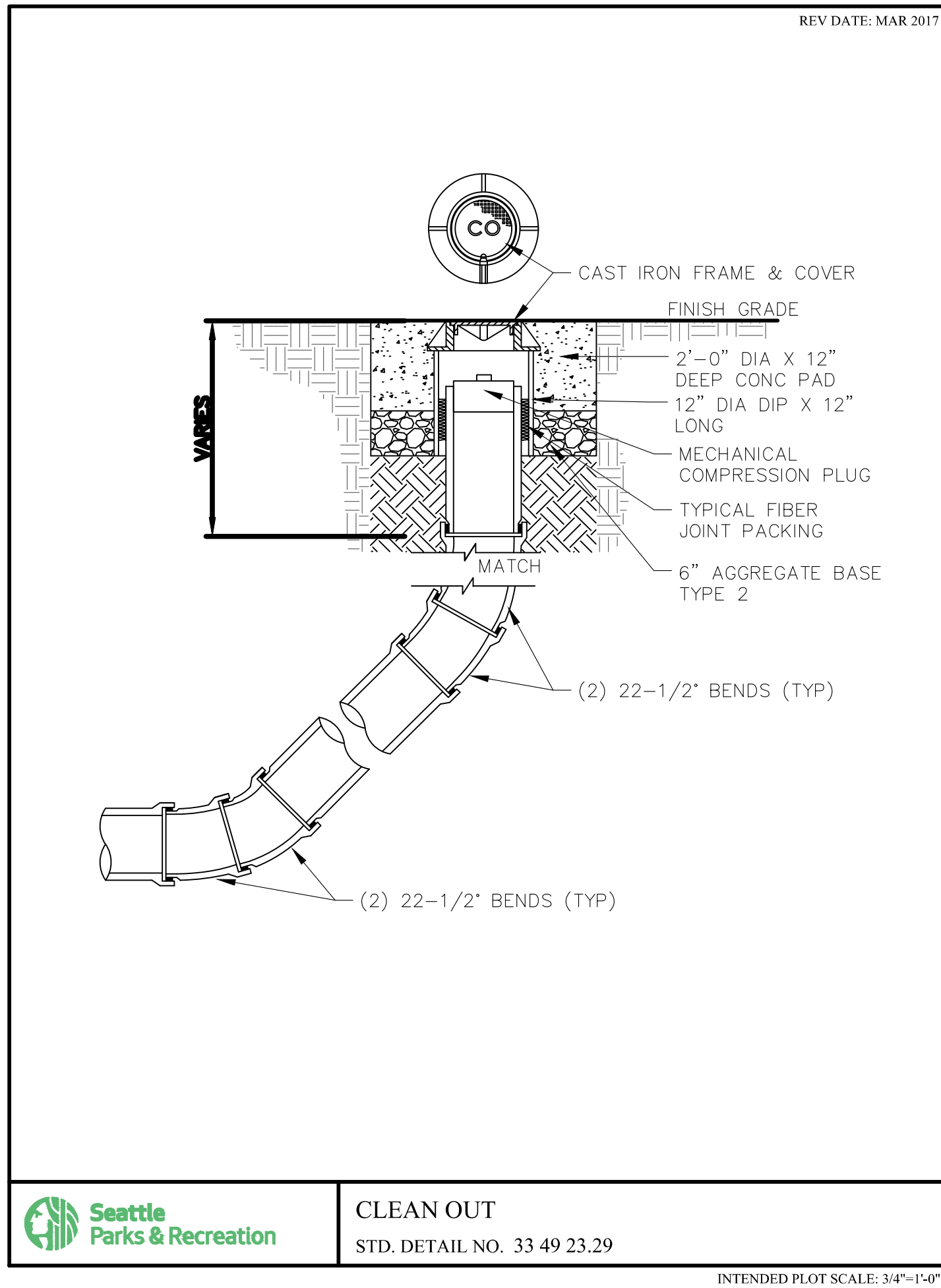
A
C2.0



TYPICAL TRENCH DRAIN

NTS

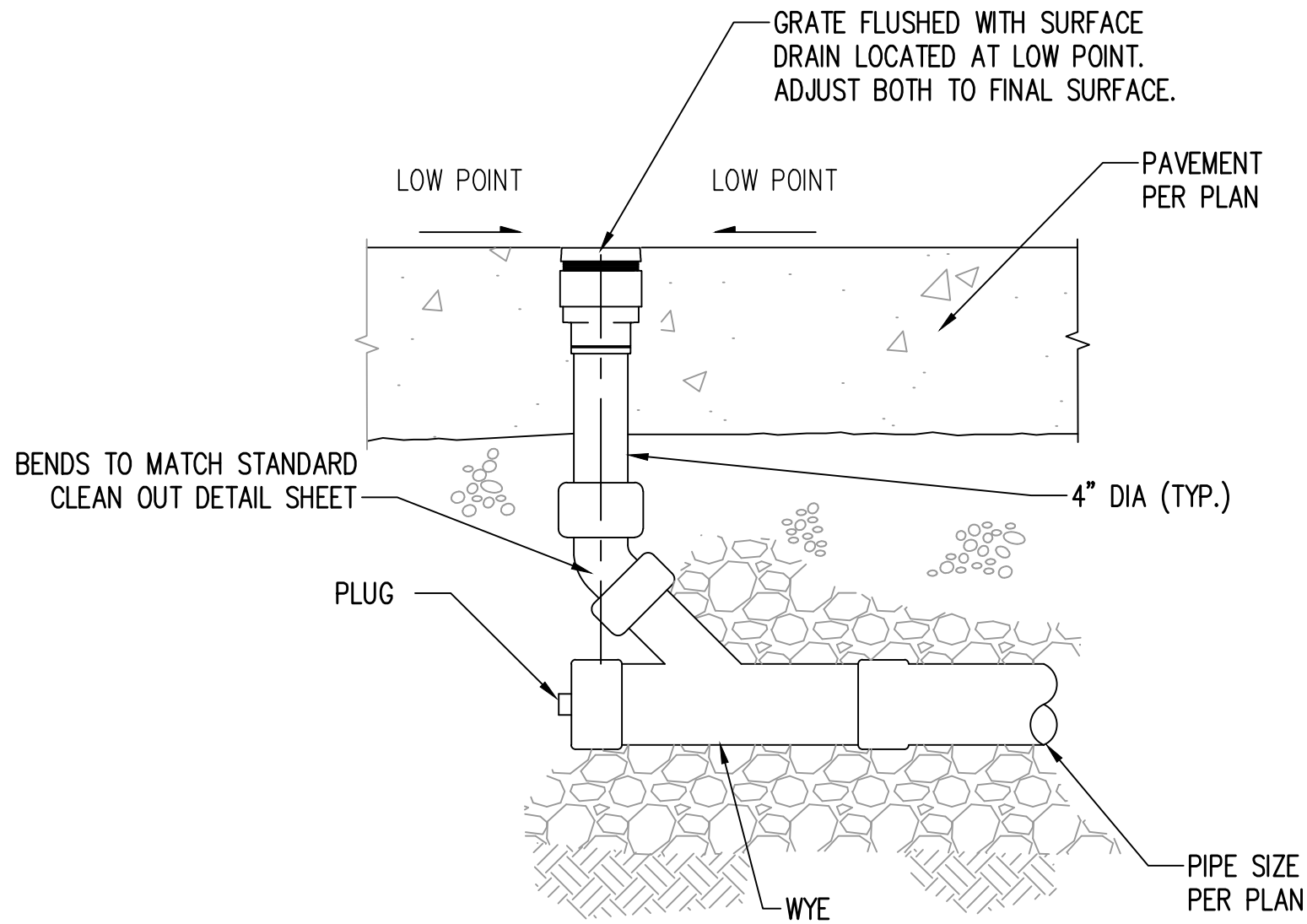
B
C2.0



CLEANOUT FOR ALL HARD AND LANDSCAPE AREAS

NTS

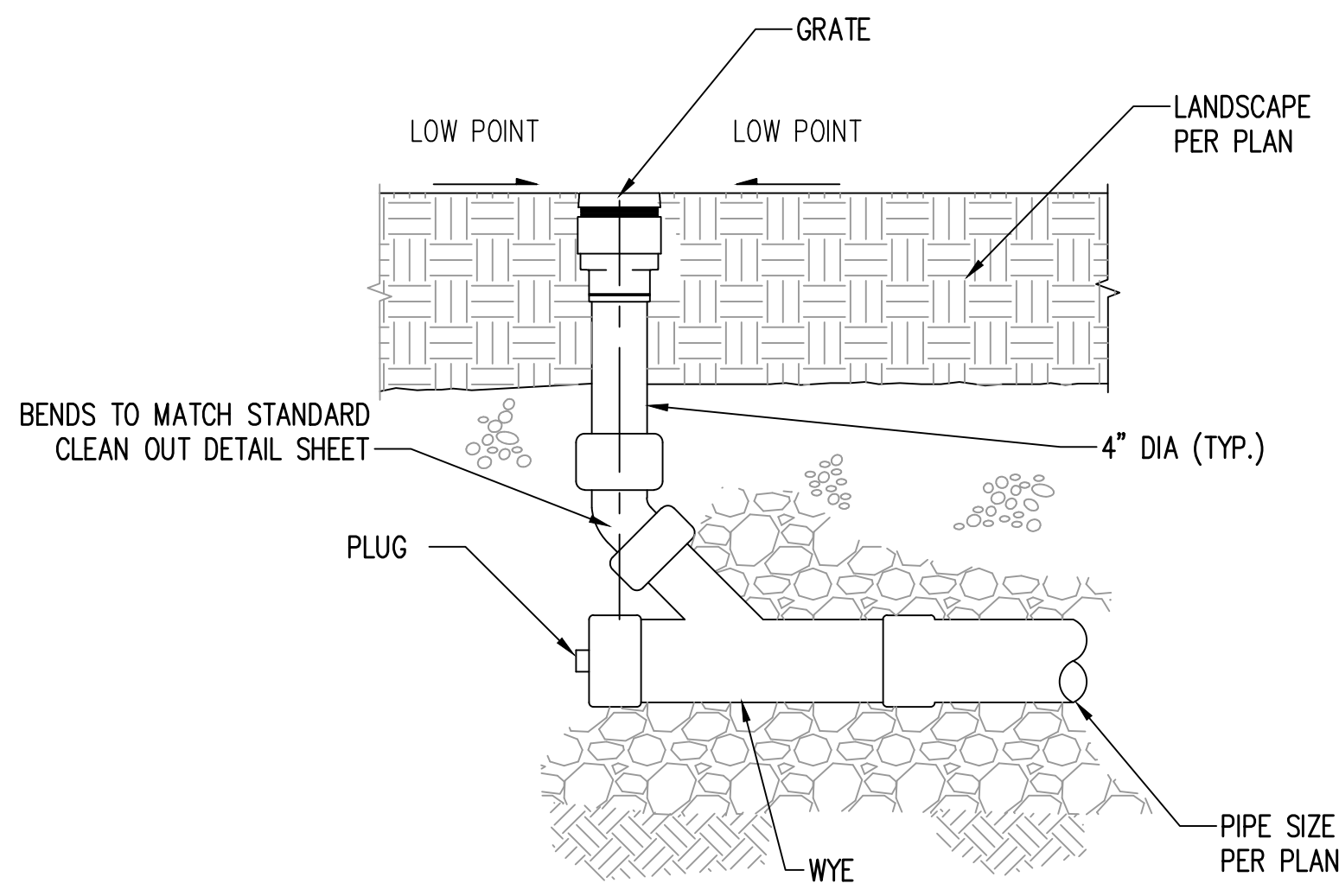
1&2
C2.0



TYPICAL AREA DRAIN
IN HARDSCAPE SURFACE

NTS

3
C2.0



LANDSCAPE AREA DRAIN

NTS

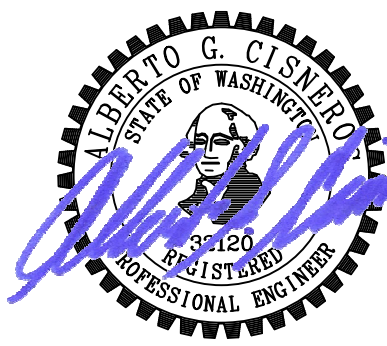
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C2.0

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3	90% CD SUBMITTAL	11/18/21
2	60% CD SUBMITTAL	01/28/21
1	30% DD SUBMITTAL	12/05/19
NO.	REVISION - AS BUILT	DATE

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01/19/2022

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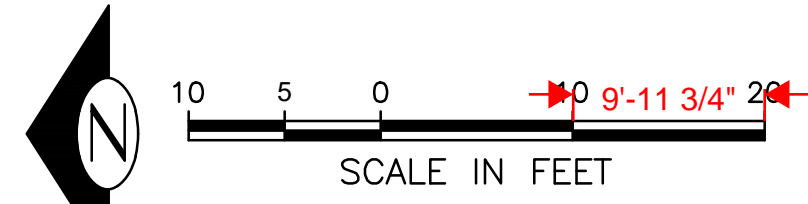
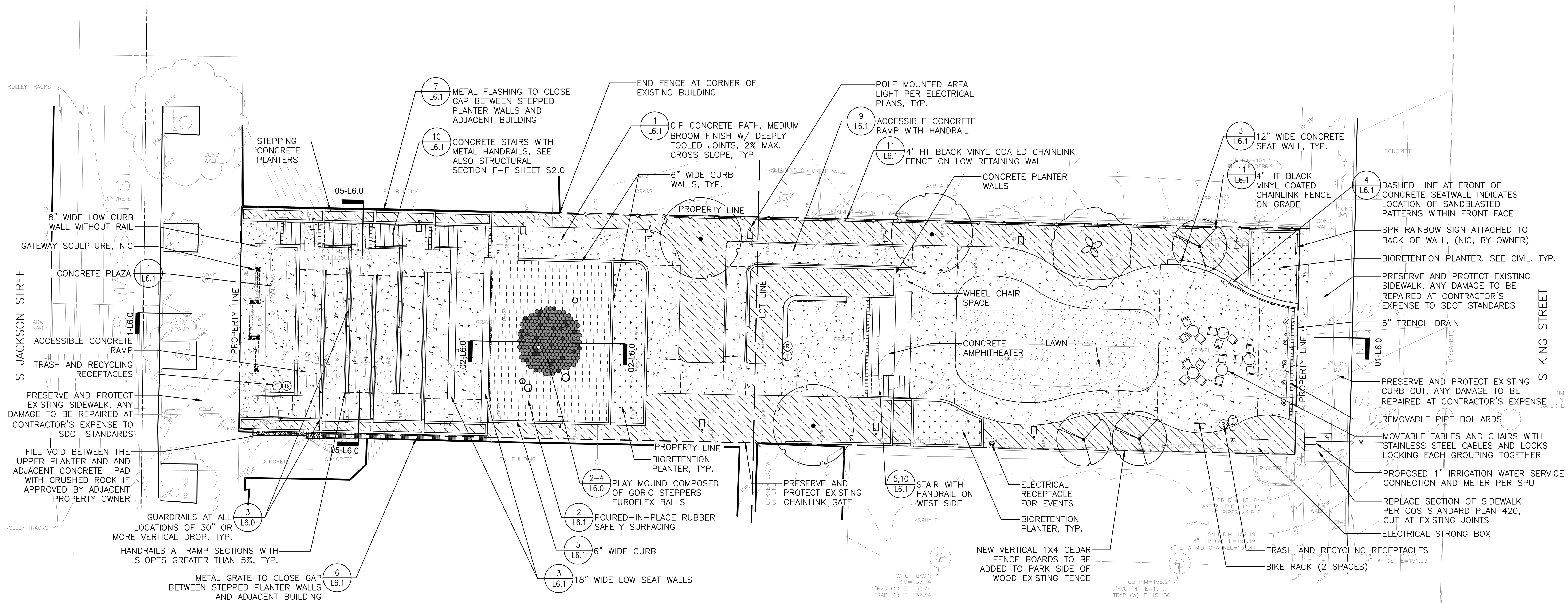
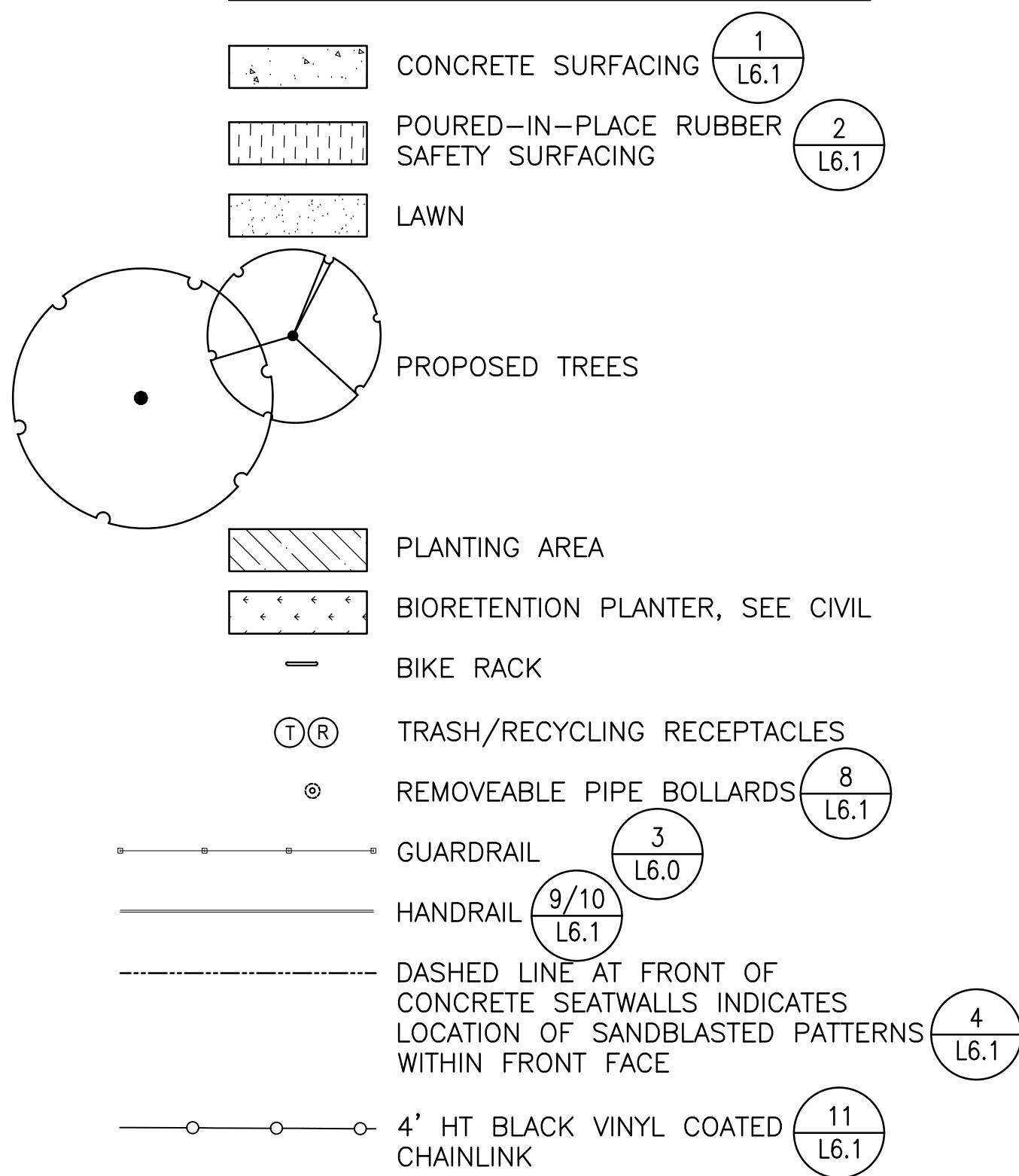
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PARK DEVELOPMENT
GRADING AND DRAINAGE
DETAILS

DESIGNED AC/SB	DATE 1/20/22
DRAWN CP	
CHECKED AC	SHEET 9 OF 26
ORDINANCE NO. 125475	C2.2
CONTRACT NO. 2064	
SCALE	

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LEGEND



3		
2	90% CD SUBMITTAL	01/20/22
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PARK DEVELOPMENT

MATERIALS PLAN

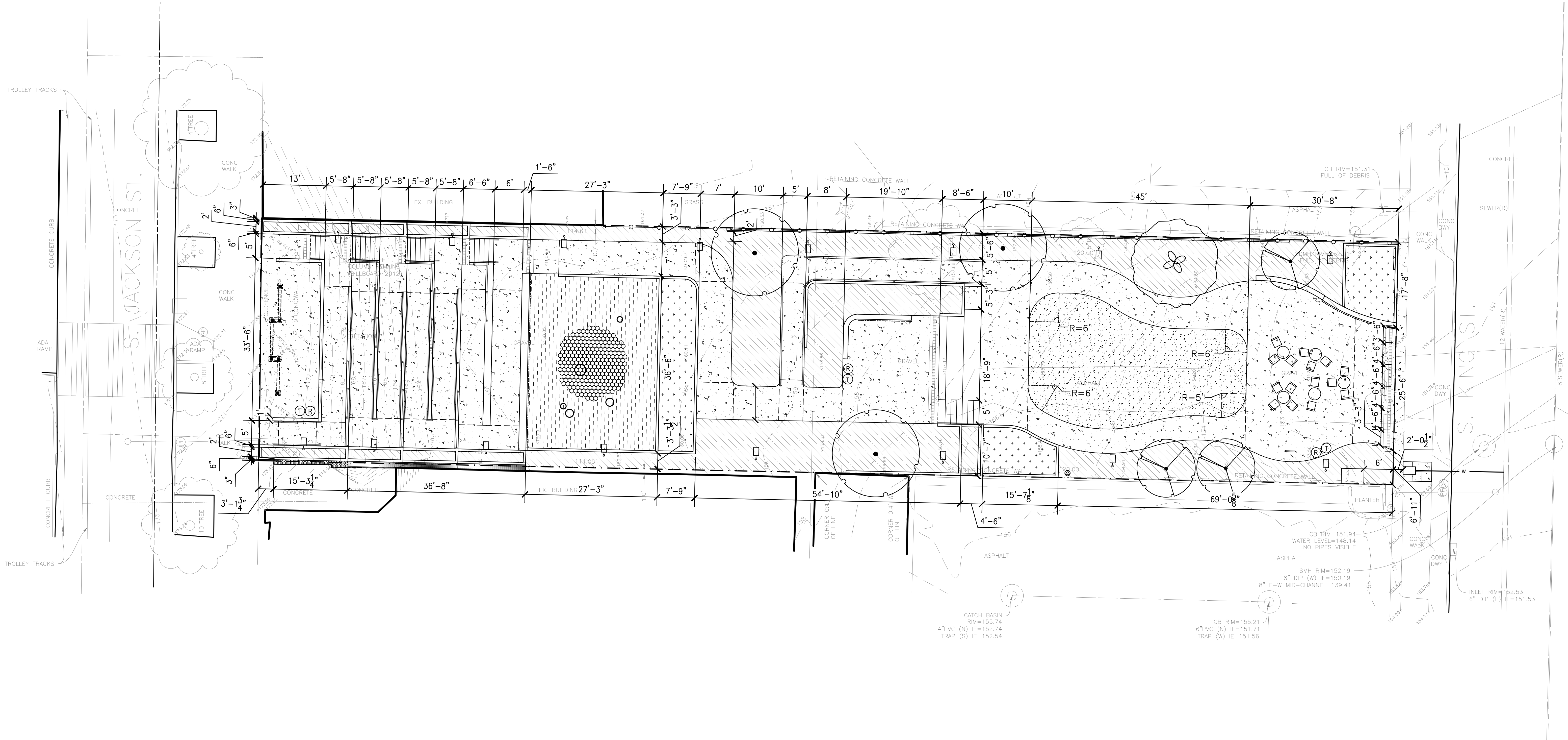
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DRAWN CA/DR	SHEET 10 OF 27
CHECKED MT	
ORDINANCE NO. 125475	L1.0
CONTRACT NO. 2064	
SCALE 1"=10'-0"	

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LEGEND

- CONCRETE SURFACING 1 L6.1
POURED-IN-PLACE RUBBER SAFETY SURFACING 2 L6.1
LAWN
PROPOSED TREES
PLANTING AREA
BIORETENTION PLANTER, SEE CIVIL
BIKE RACK
TRASH/RECYCLING RECEPTACLES
REMOVEABLE PIPE BOLLARDS 8 L6.1
GUARDRAIL 3 L6.0
HANDRAIL 9/10 L6.1
DASHED LINE AT FRONT OF CONCRETE SEATWALLS INDICATES LOCATION OF SANDBLASTED PATTERNS WITHIN FRONT FACE 4 L6.1
4' HT BLACK VINYL COATED CHAINLINK 11 L6.1



3		
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PARK DEVELOPMENT

LAYOUT PLAN

DESIGNED SM	DATE 01/20/22
DRAWN CA/DR	SHEET 11 OF 27
CHECKED MT	
ORDINANCE NO. 125475	L2.0
CONTRACT NO. 2064	
SCALE 1"=10'-0"	

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NOTE TO CONTRACTOR

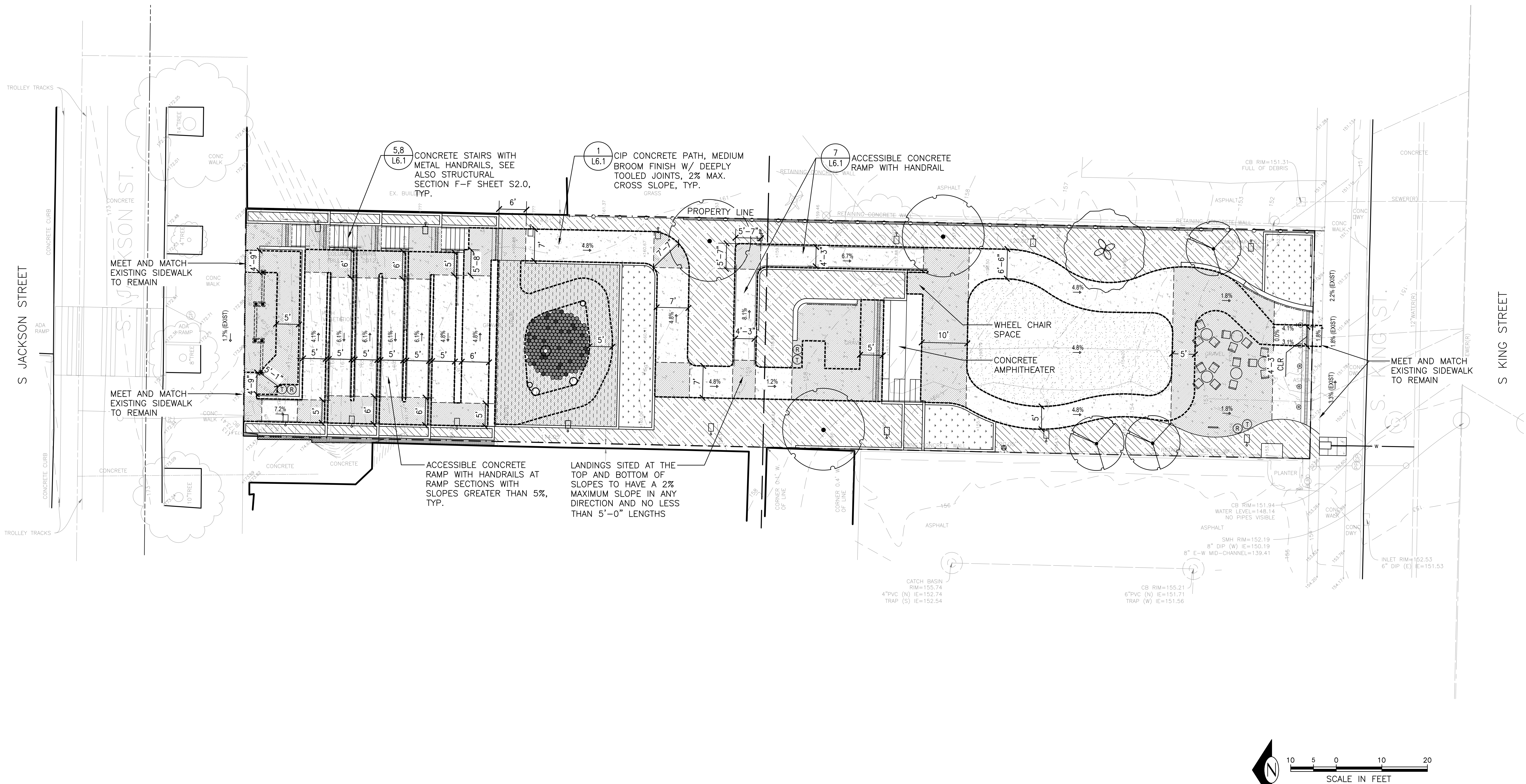
SLOPES SHOWN ON THIS PLAN FOR GENERAL
REFERENCE, BUILD PER CIVIL GRADING PLAN SPOT
ELEVATIONS ON SHEET C2.0 AND VERIFY ALL SLOPES
MEET ACCESSIBILITY REQUIREMENTS PER NOTES BELOW.

ACCESSIBILITY NOTES

1. NEW CONCRETE PATHWAYS SHALL NOT EXCEED
8.3% IN AREAS WITH HANDRAILS OR 5% IN AREAS
WITHOUT HANDRAILS, IN THE DIRECTION OF TRAVEL,
CROSS SLOPES TO BE 2% MAXIMUM.
2. LANDINGS AT INTERSECTIONS SHALL BE 2%
MAXIMUM SLOPE IN ANY DIRECTION. SEE GRADING
PLAN.

LEGEND

- DASHED LINE DESIGNATES ACCESSIBLE
PATHS WITH SLOPES NOT TO EXCEED 8.3%
IN AREAS WITH HANDRAILS OR 5% IN
AREAS WITHOUT HANDRAILS IN THE
DIRECTION OF TRAVEL, CROSS SLOPES TO
BE 2% MAXIMUM
- LANDINGS AT INTERSECTIONS, PLAZA
SPACES, AND PLAY AREA SURFACING TO
HAVE 2% MAXIMUM SLOPE IN ANY
DIRECTION, TYP.



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PARK DEVELOPMENT

ACCESSIBILITY PLAN

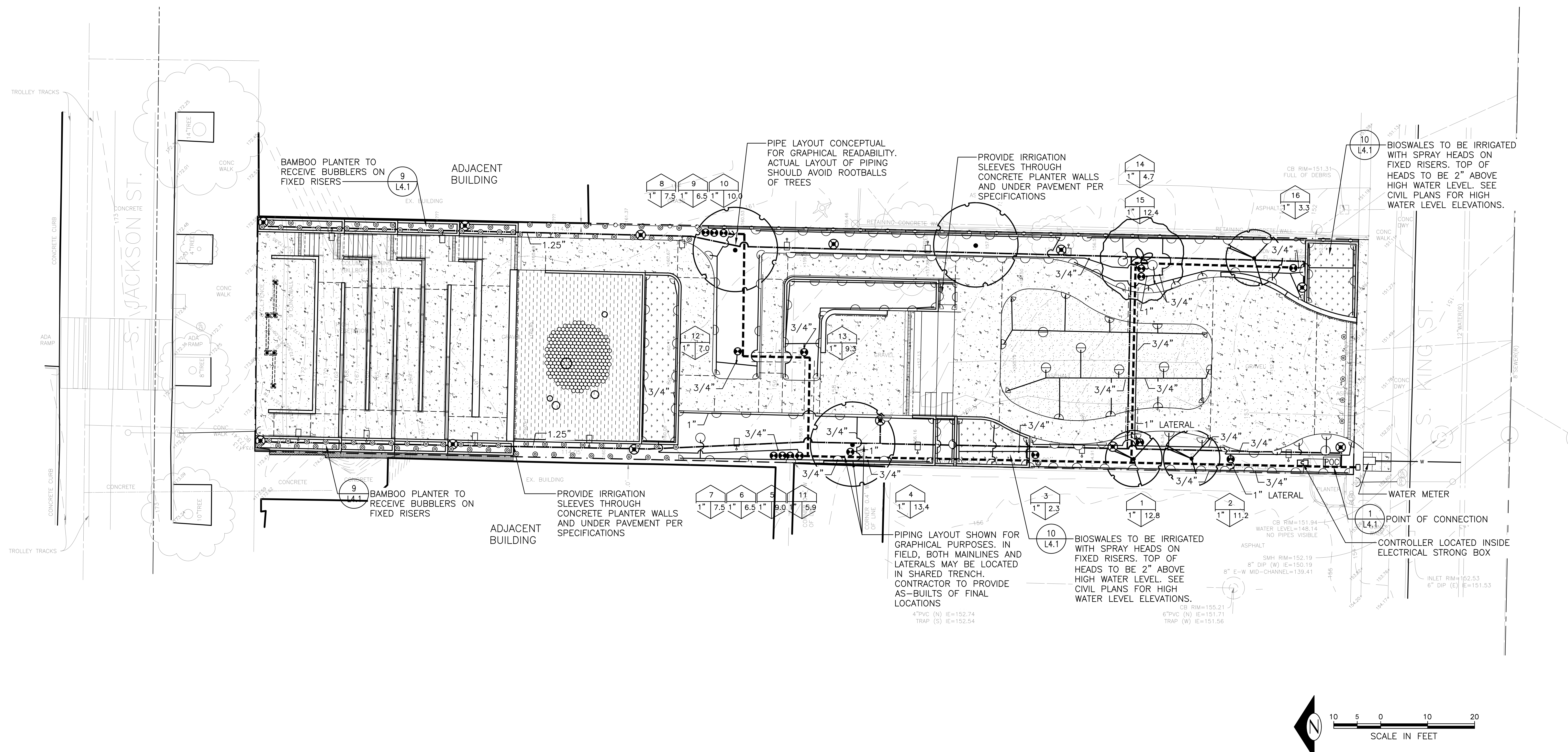
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DRAWN CA/DR	SHEET 12 OF 27
CHECKED MT	
ORDINANCE NO. 125475	L3.0
CONTRACT NO. 2064	
SCALE 1"=10'-0"	

	SPRAY IRRIGATION	$\frac{6-7}{L4.1}$	$\frac{9-10}{L4.1}$
	REMOTE CONTROL VALVE, SOLENOID VALVE, SIZE PER PLAN		$\frac{4}{L4.1}$
	QUICK COUPLING VALVE	$\frac{3}{L4.1}$	
	SLEEVE, SIZE $\phi = 2X$ LINE SIZE, 2" MIN.		
	MAINLINE - $1\frac{1}{4}$ " SCHEDULE 40 PVC		$\frac{2}{L4.1}$
	SEPARATE QUICK COUPLER MAINLINE - $1\frac{1}{4}$ " SCHEDULE 40 PVC		
	LATERAL - PVC - SIZE PER CHART		
	POINT OF CONNECTION IN VAULT	$\frac{1}{L4.1}$	
	CONTROLLER		

GALLONS	MIN. PIPE SIZE
0 - 10	3/4 INCH
10 - 16	1 INCH
16 - 26	1-1/4 INCH

	DESCRIPTION	NOZZLE	ARC	GPM	PSI	RADIUS
	RAINBIRD 1804 SAM-PRS	HE-VAN 8	ONE-QUARTER	0.29	30	5-8 FEET
	RAINBIRD 1804 SAM-PRS	HE-VAN 8	HALF	0.59	30	5-8 FEET
	RAINBIRD 1804 SAM-PRS	HE-VAN 8	FULL	1.17	30	5-8 FEET
	RAINBIRD 1804 SAM-PRS	R-VAN14	ONE-QUARTER	0.32	45	8-14 FEET
	RAINBIRD 1804 SAM-PRS	R-VAN14	HALF	0.62	45	8-14 FEET
	RAINBIRD 1804 SAM-PRS	R-VAN14 360	FULL	1.27	45	8-14 FEET
	RAINBIRD 1804 SAM-PRS	1402 BUBBLER	FULL	0.5	30	N/A

1. THE IRRIGATION SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE (30 PSI) AND THE MAXIMUM FLOW DEMAND SHOWN ON THE IRRIGATION DRAWINGS. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S REPRESENTATIVE.
2. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS EXCEPT WHERE SHOWN UNDER PAVEMENT. AVOID ANY CONFLICTS BETWEEN THE SPRINKLER SYSTEM, PLANTING AND ARCHITECTURAL FEATURES.
3. IRRIGATION SYSTEMS SHALL BE DESIGNED WITH PROVISIONS FOR WINTERIZATION BY PROVIDING QUICK COUPLER VALVES AT ALL LOW POINTS AND A MEANS TO BLOW OUT IRRIGATION SYSTEM PIPES WITH PRESSURIZED AIR. SLOPE PIPE AT 1/2" MIN. TO DRAINS.
4. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS APPARENT IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES, OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
5. WHERE THE FIELD CONDITIONS REQUIRE ADJUSTMENTS, EMITTERS SHALL BE ADDED OR DELETED IN ACCORDANCE WITH THE IRRIGATION LEGEND OR MANUFACTURER'S SPECIFICATIONS. PIPE SIZING SHALL BE ADJUSTED ACCORDINGLY, AND WATER VELOCITY SHALL NOT EXCEED 5 FEET PER SECOND.
6. PROVIDE SLEEVES WHERE MAINLINE AND LATERALS PASS UNDER PAVEMENT.
7. PLACE AND ADJUST HEADS TO AVOID WATERING PAVEMENT WHERE POSSIBLE.



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3		
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PARK ENGINEER

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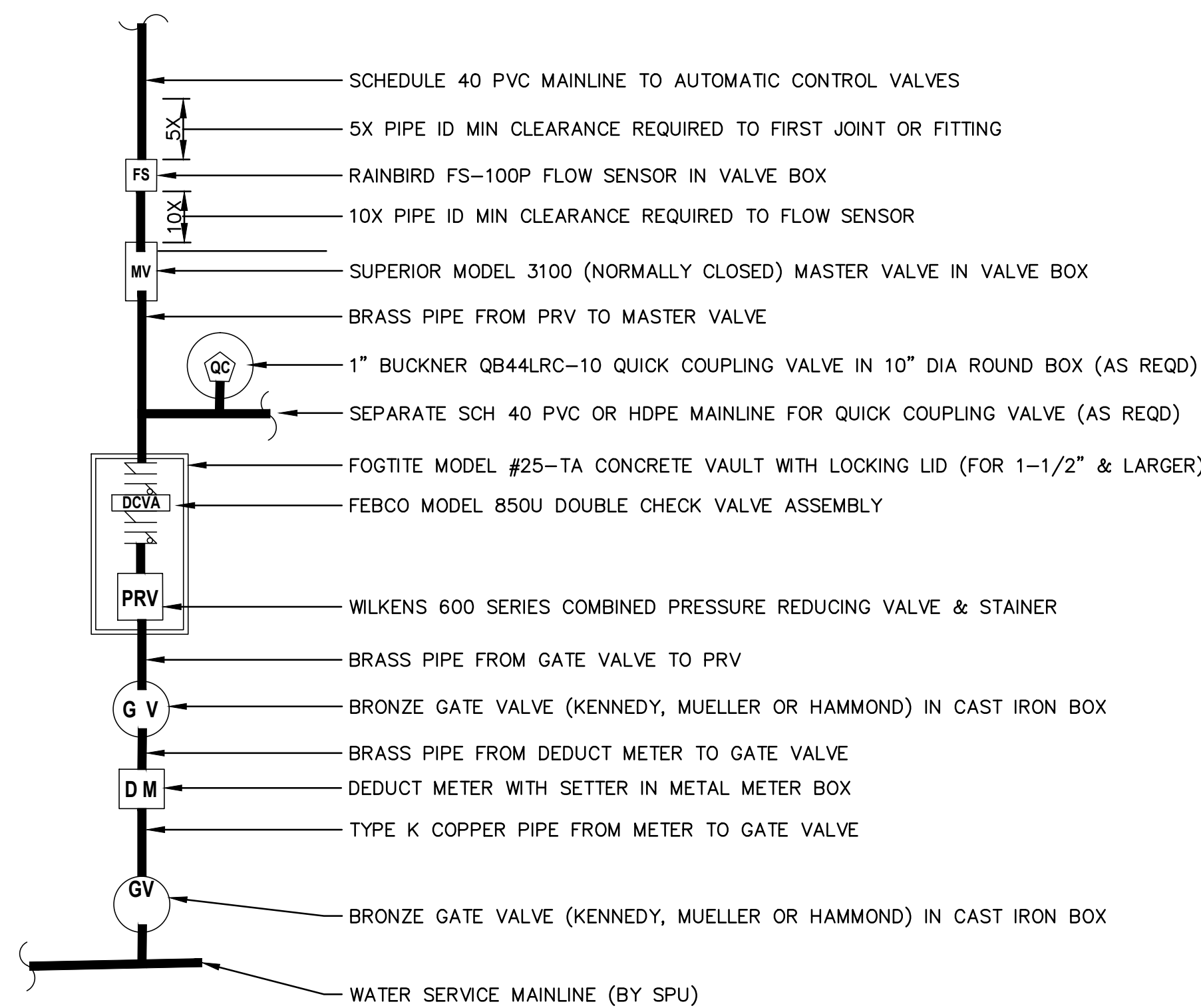
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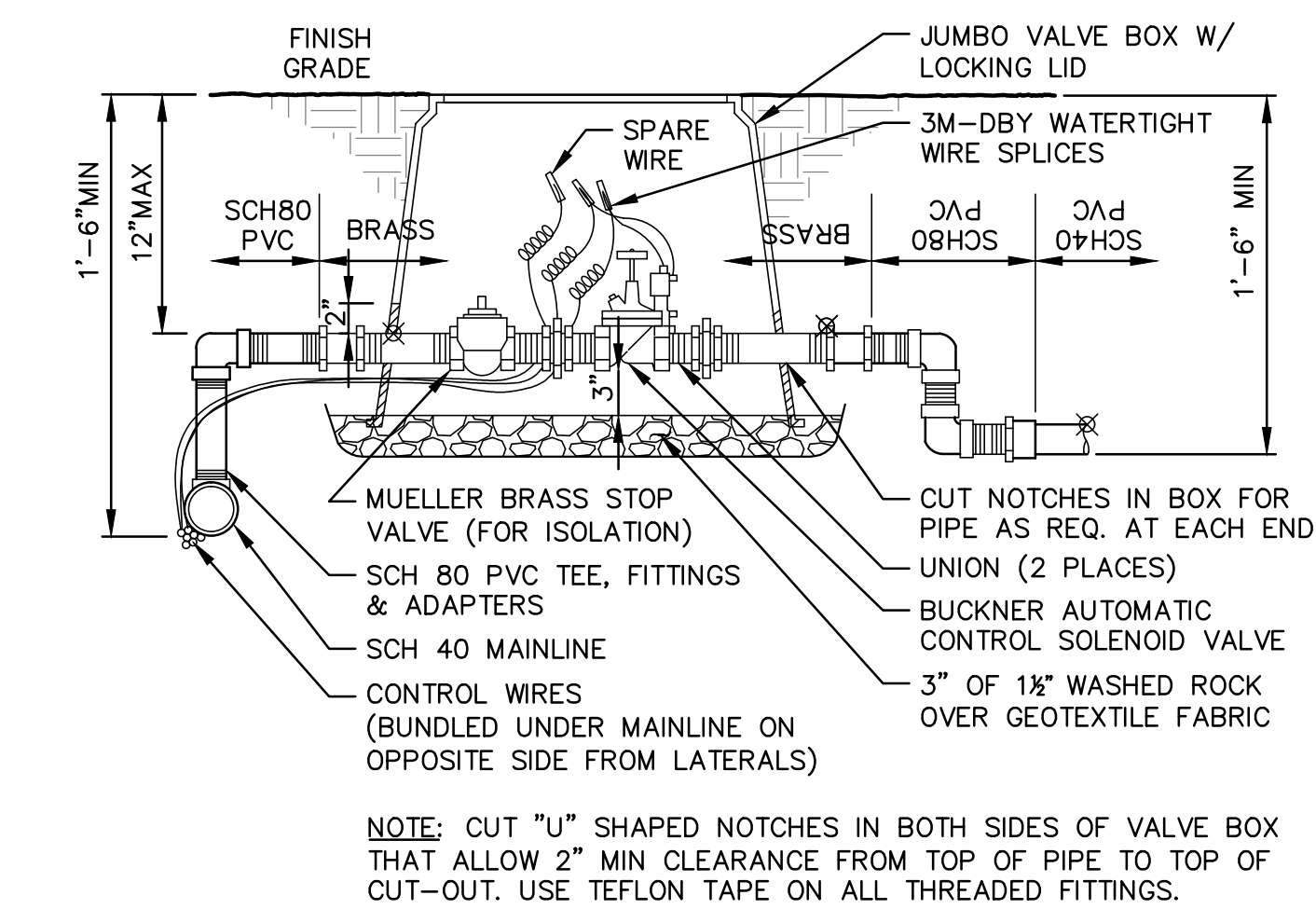
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IRRIGATION PLAN

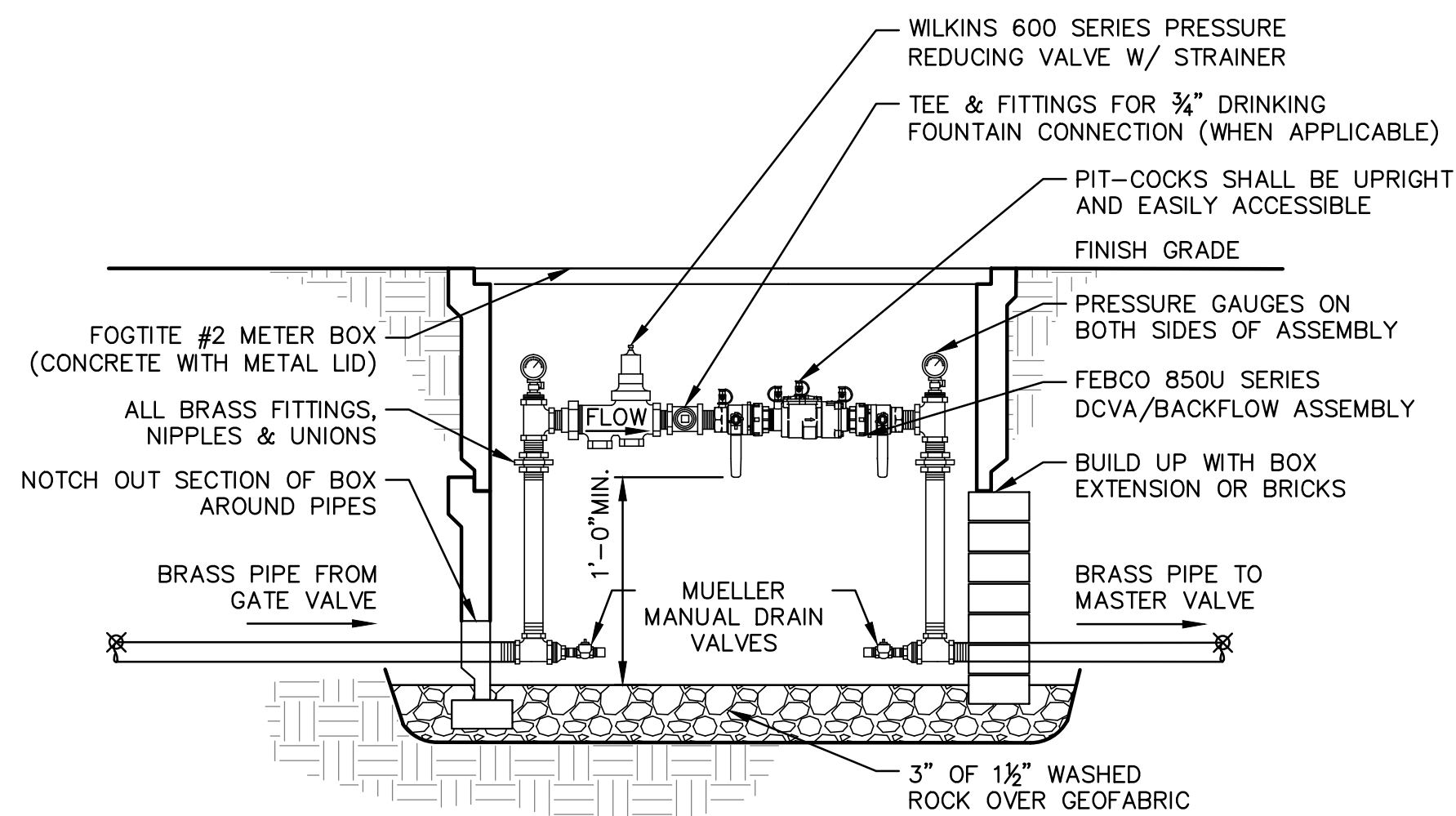
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DRAWN	CA/DR	SHEET	13 OF 27
CHECKED	MT		
ORDINANCE NO. 125475		L4.0	
CONTRACT NO. 2064			
SCALE 1"=10'-0"			



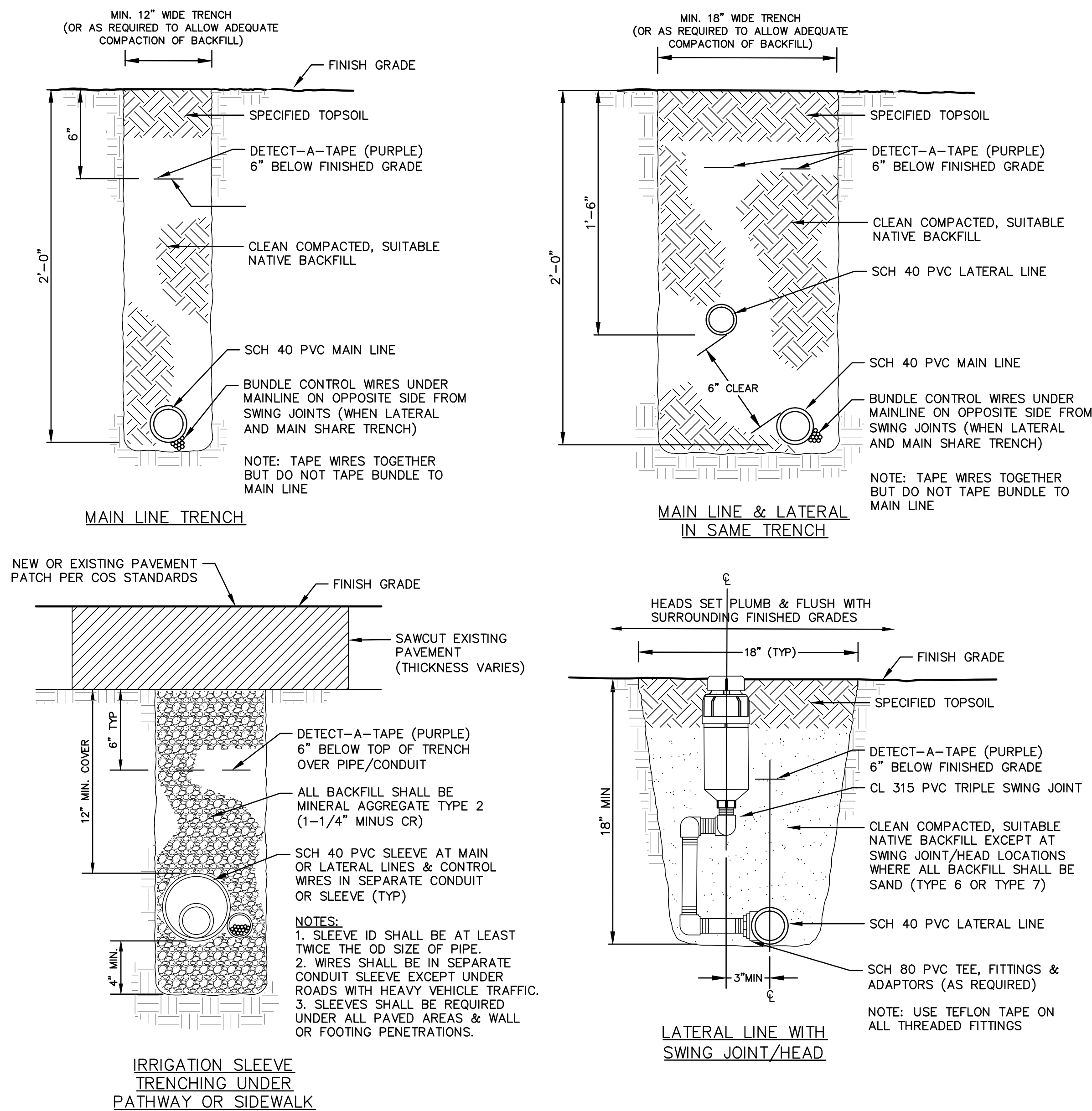
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SCALE: NTS



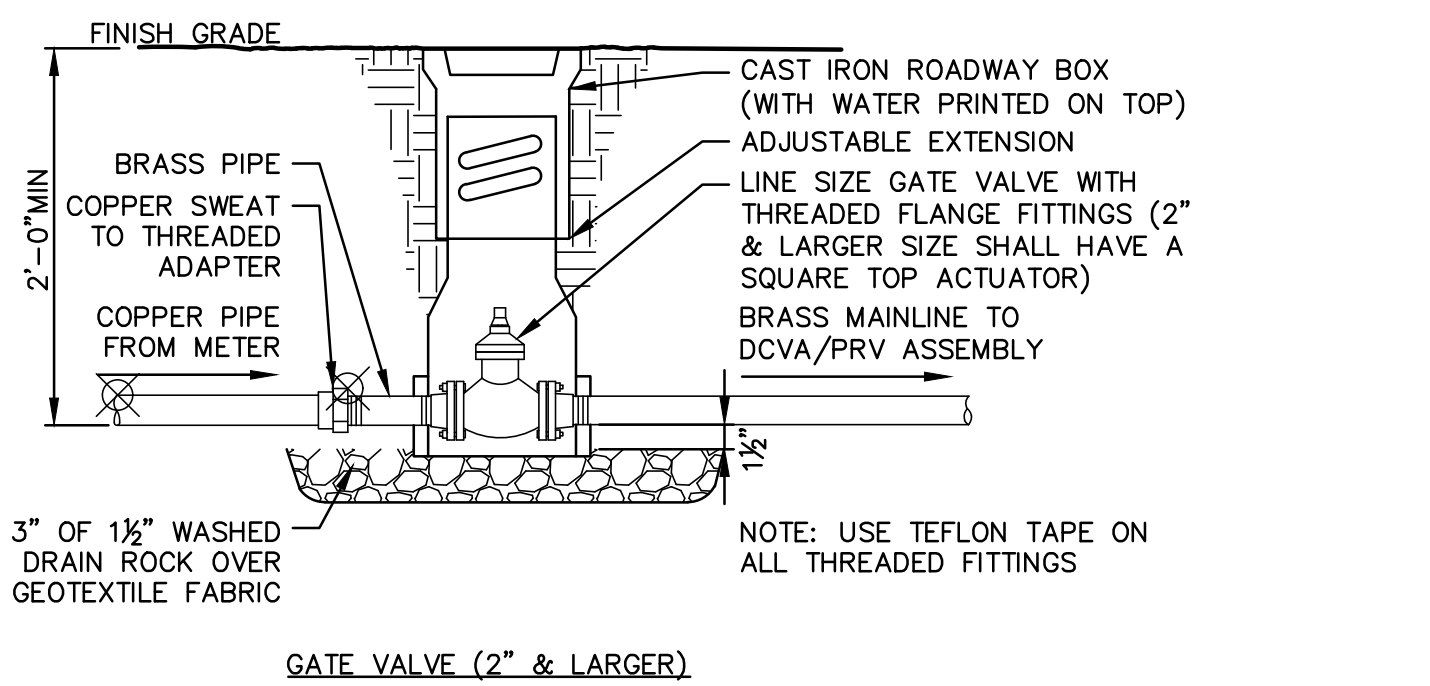
4 AUTOMATIC CONTROL VALVE - SPR DETAIL 32 84 29.16
SCALE: NTS



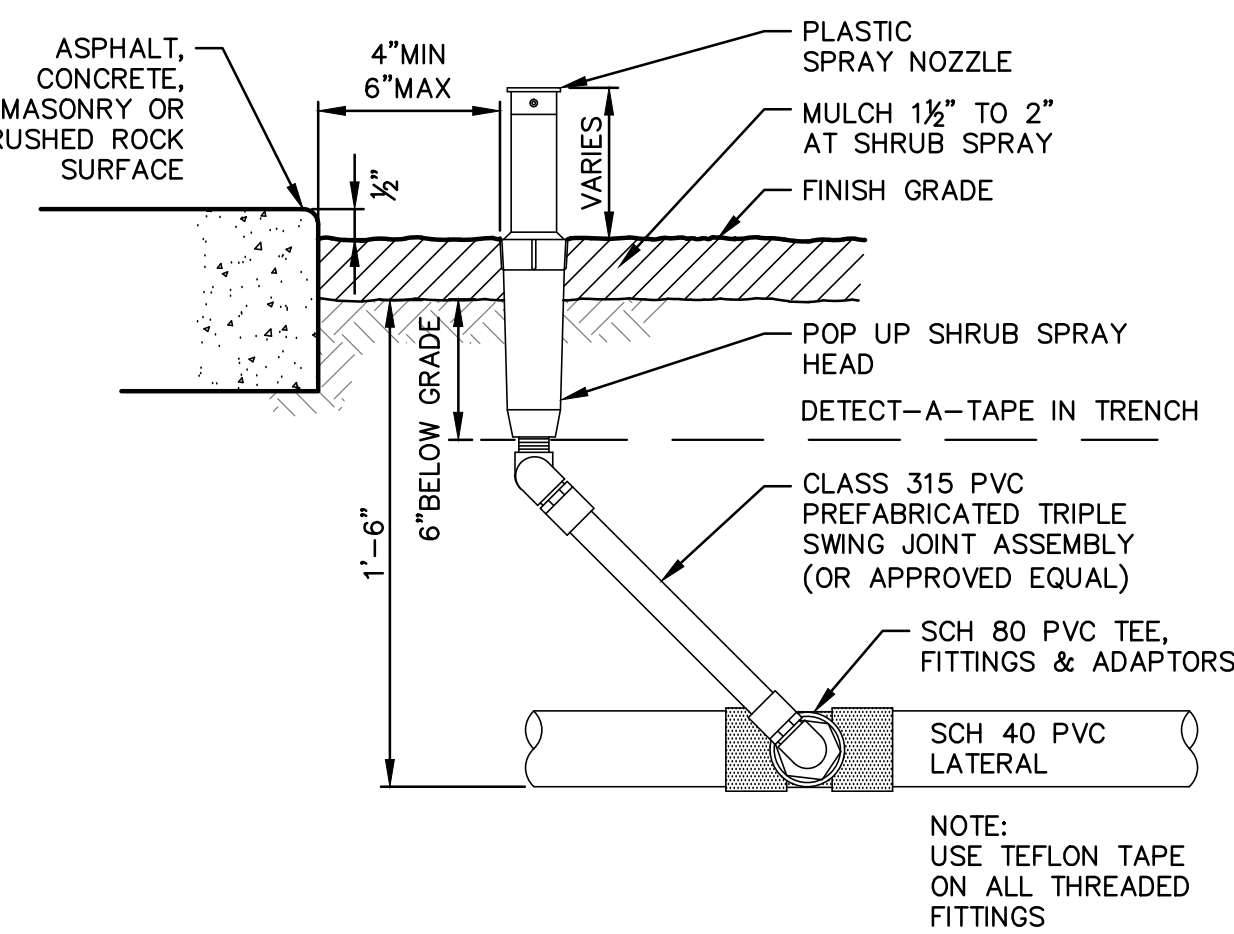
8 PRV-DCVA ASSEMBLY - SPR DETAIL 32 84 19.13
SCALE: NTS



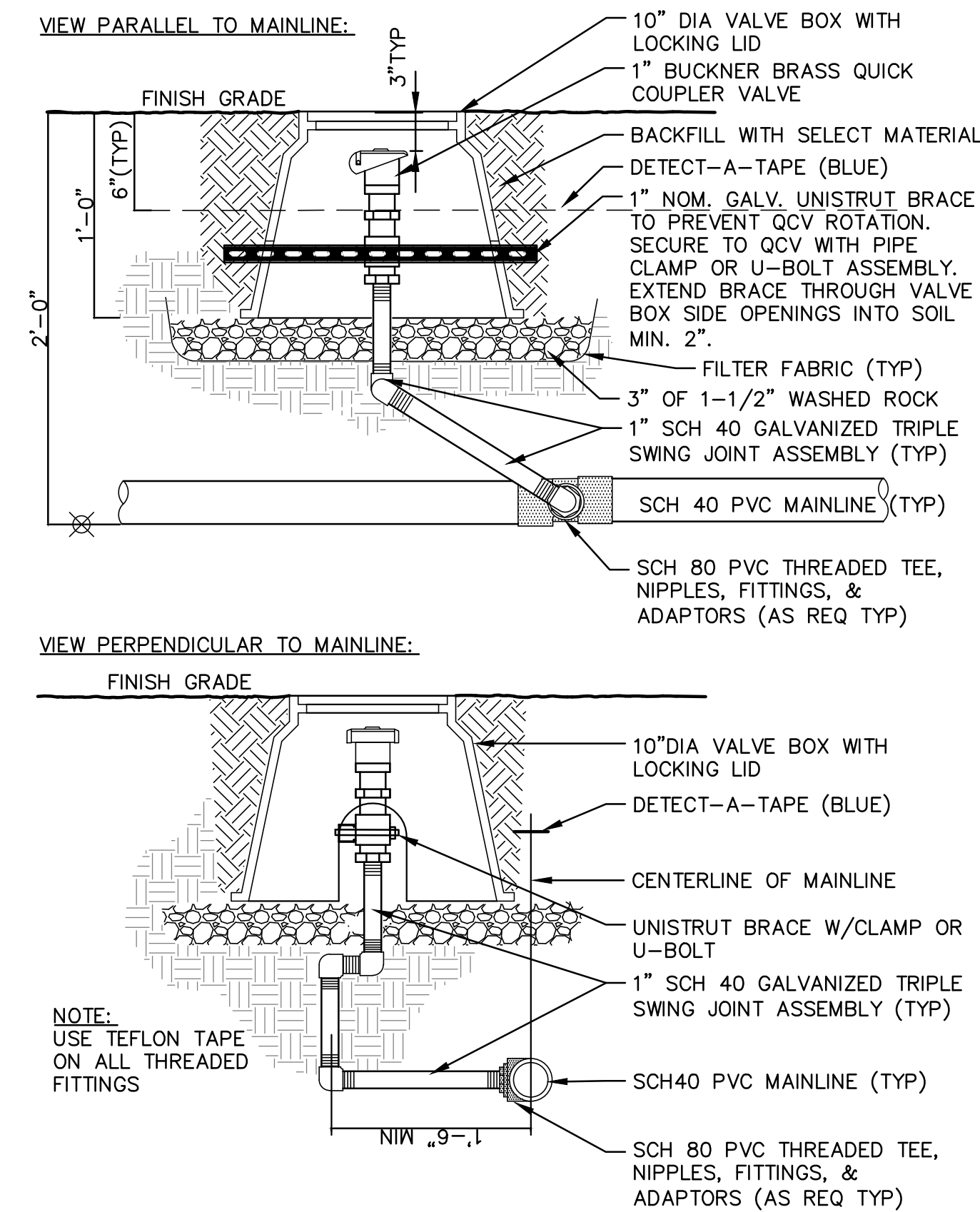
2 IRRIGATION TRENCHING DETAILS - SPR STANDARD DETAIL 32 84 13
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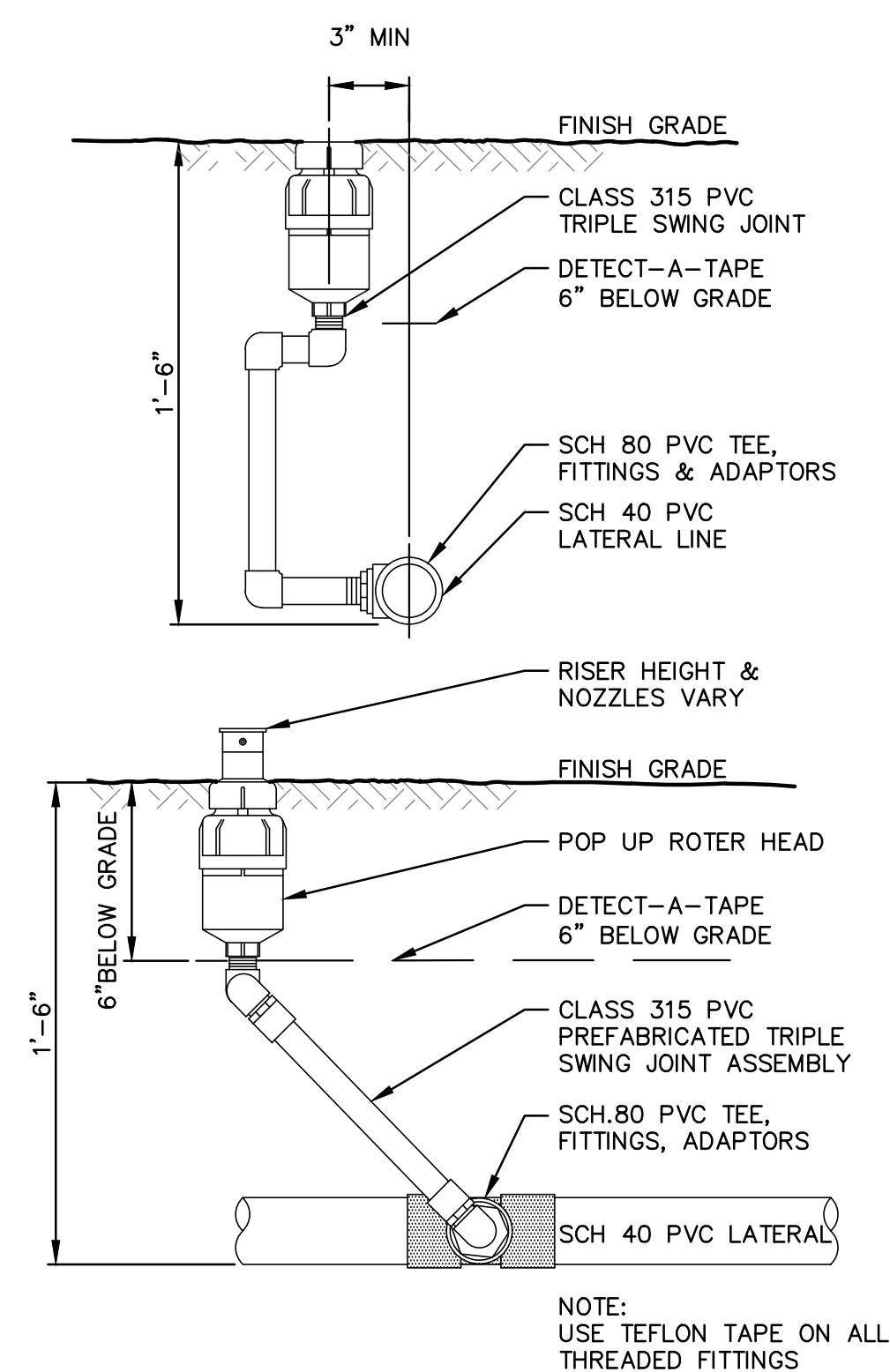
5 GATE VALVE - SPR DETAIL 32 84 23.23
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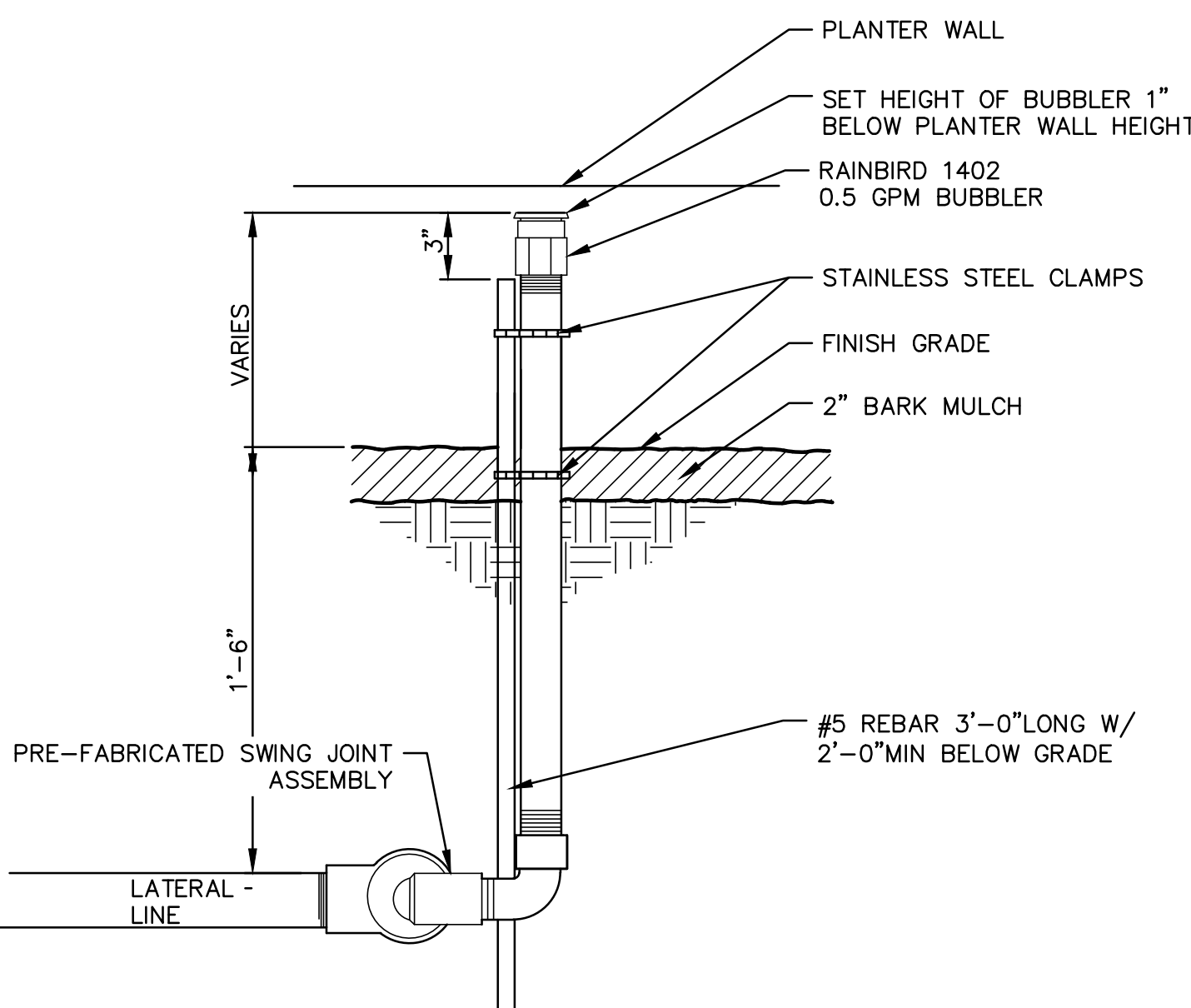
6 POP-UP SPRAY HEAD - SPR DETAIL 32 84 26.19
SCALE: NTS



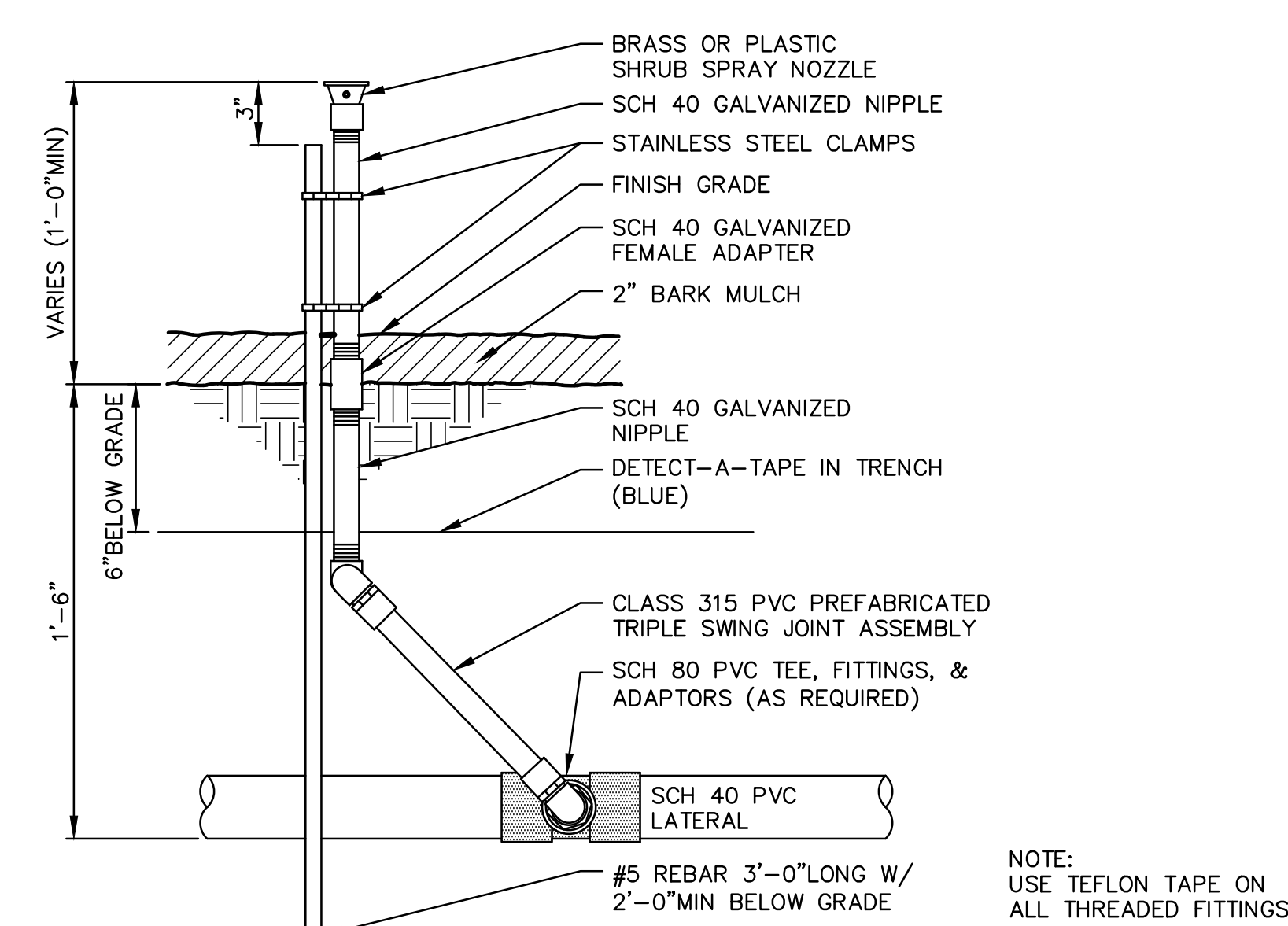
3 QUICK COUPLER VALVE- SPR DETAIL 32 84 23.13
SCALE: NTS



7 POP-UP ROTOR - SPR DETAIL 32 84 26.16
SCALE: NTS



9 BUBBLER HEAD ON FIXED RISER
SCALE: NTS



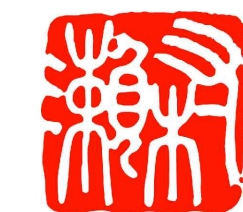
10 SHRUB HEAD FIXED RISER - SPR DETAIL 32 84 26.13
SCALE: NTS

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3		
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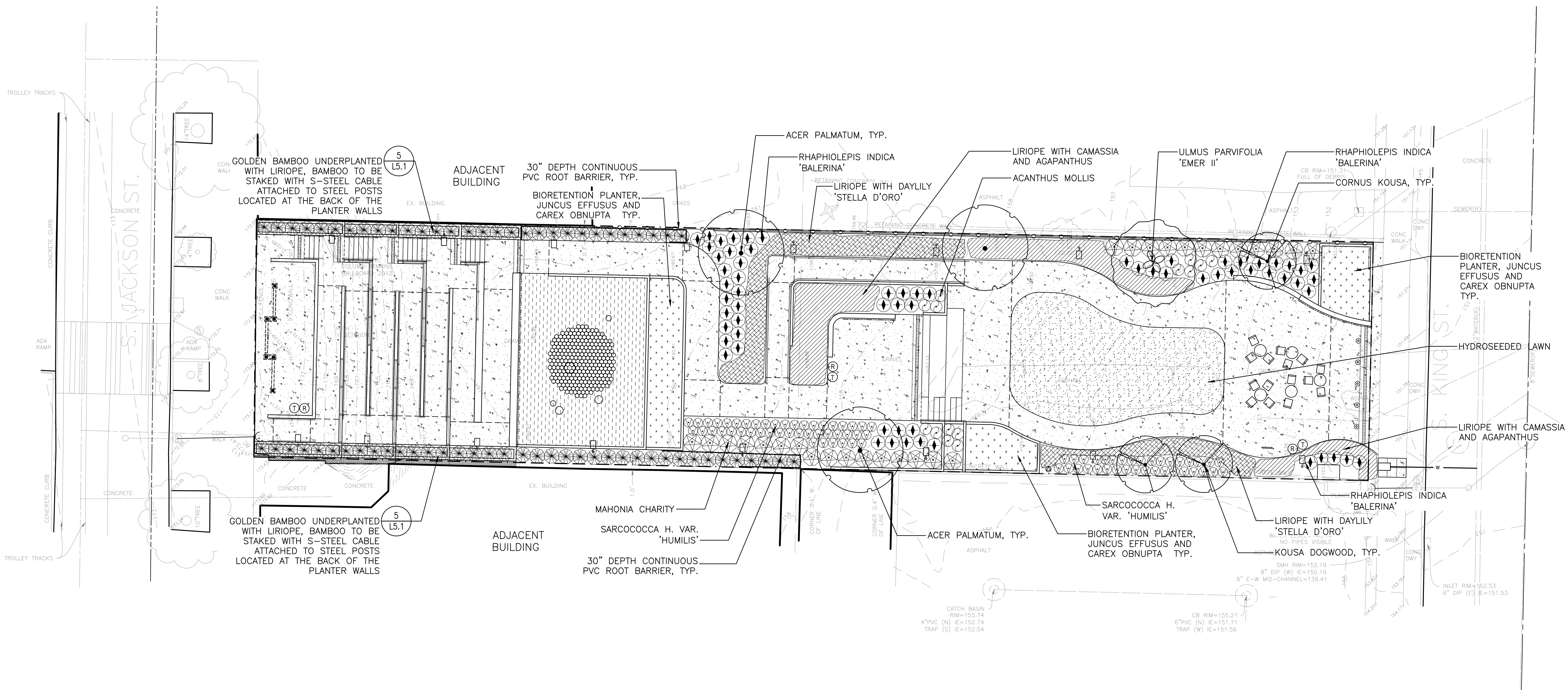
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LITTLE SAIGON

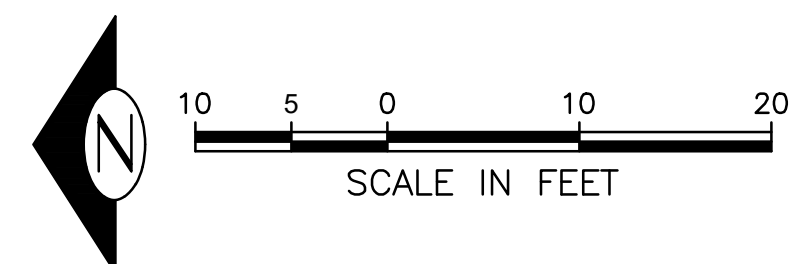
PARK DEVELOPMENT

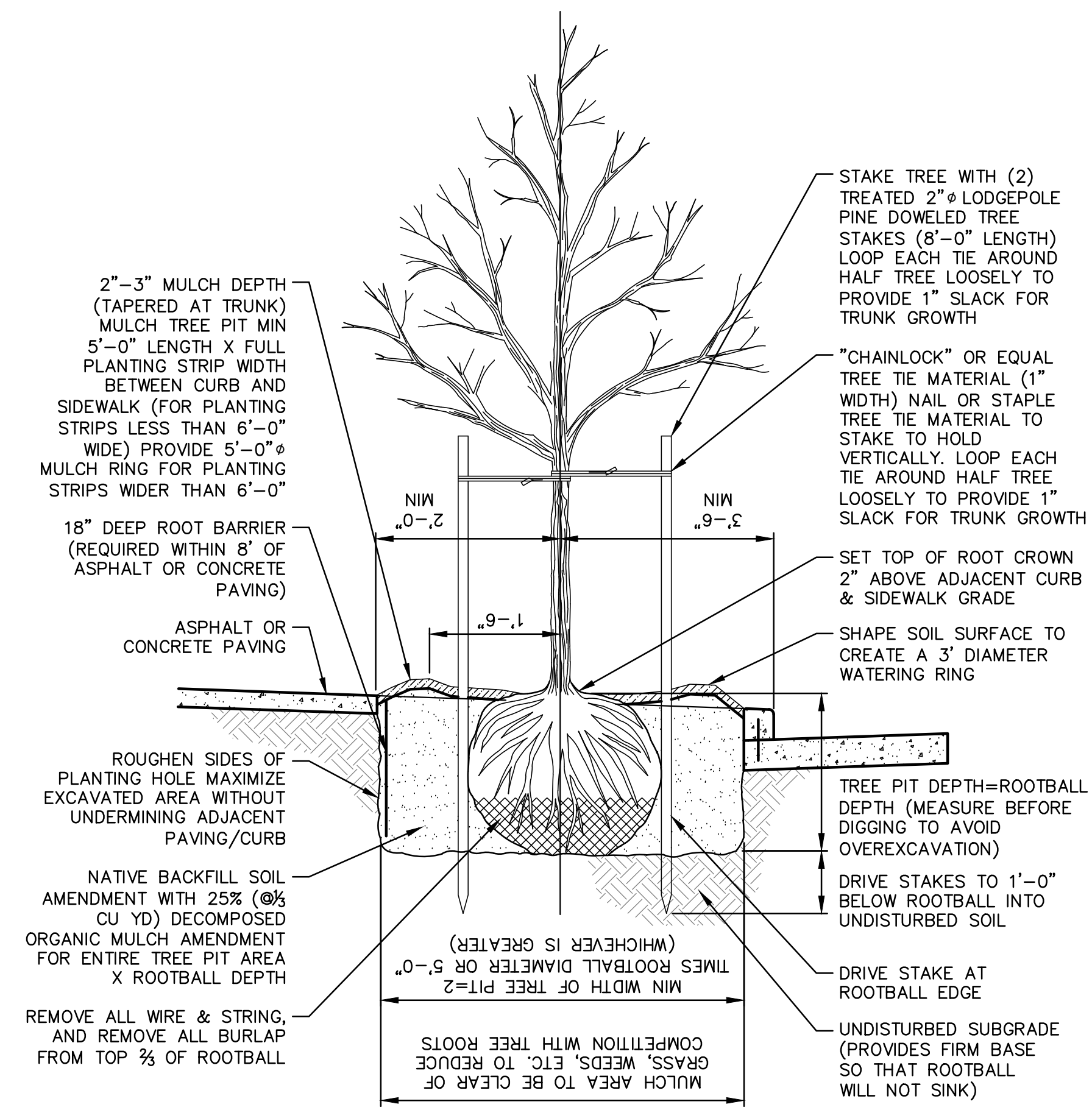
IRRIGATION DETAILS

DESIGNED SM	DATE 01/20/22
DRAWN CA/DR	SHEET 14 OF 27
CHECKED MT	
ORDINANCE NO. 125475	L4.1
CONTRACT NO. 2064	
SCALE PER DETAIL	

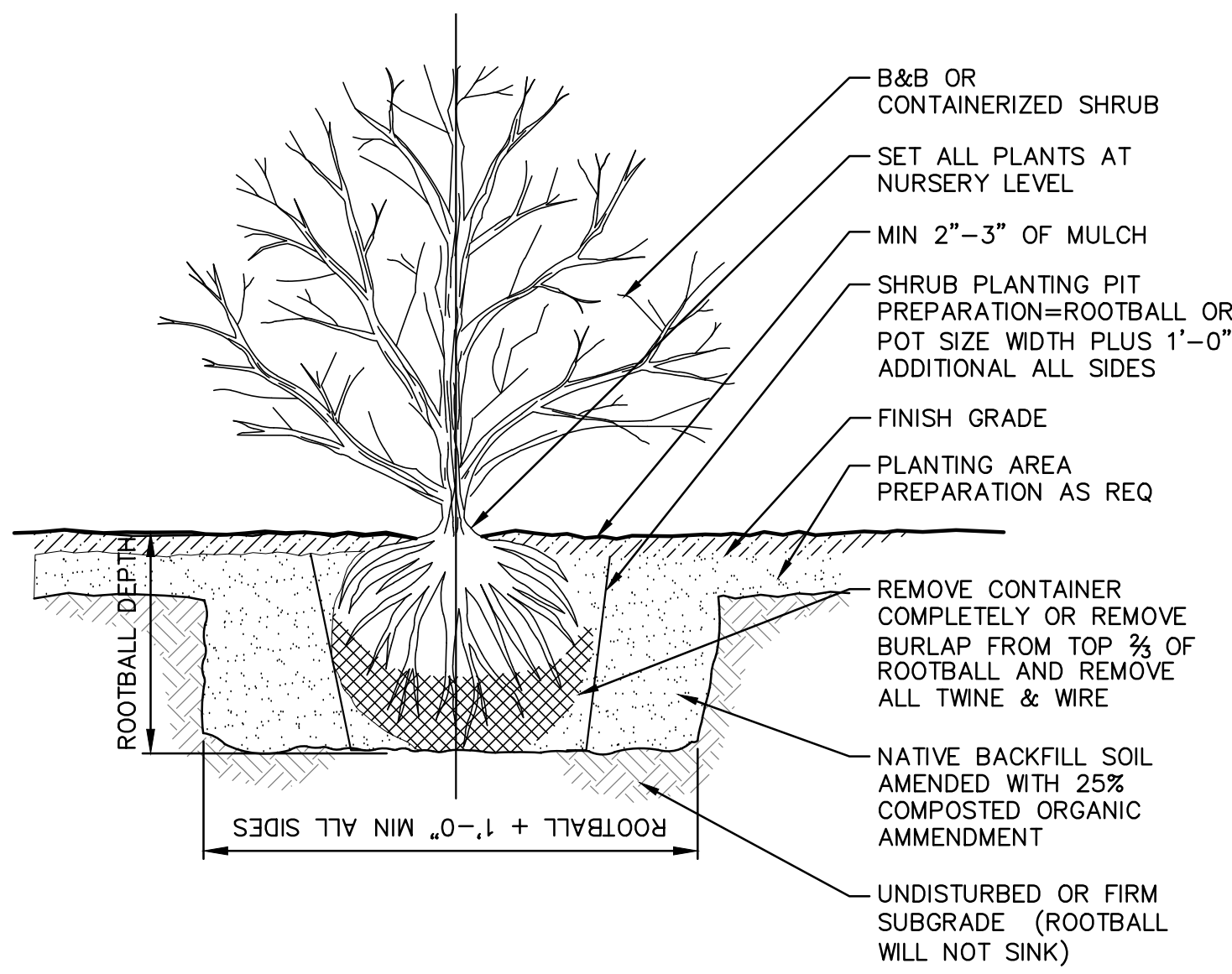


DESIGNED <u>SM</u>	DATE <u>01/20/22</u>
DRAWN <u>CA/DR</u>	SHEET <u>15</u> OF <u>27</u>
CHECKED <u>MT</u>	
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CONTRACT NO. <u>2064</u>	
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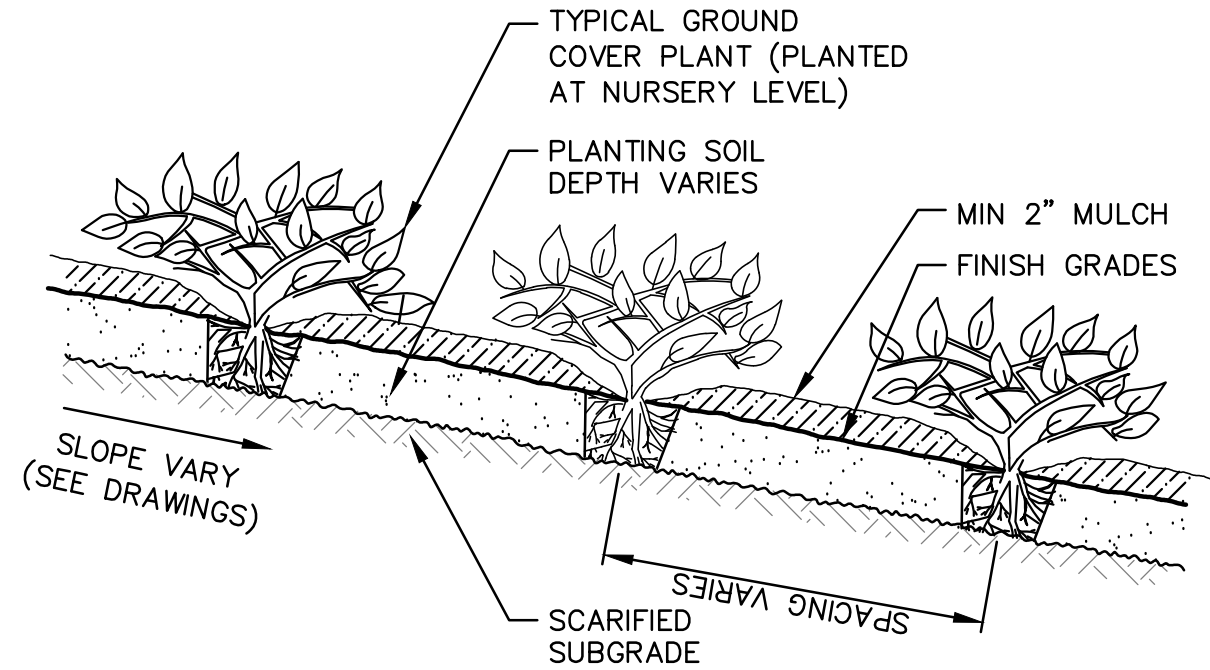




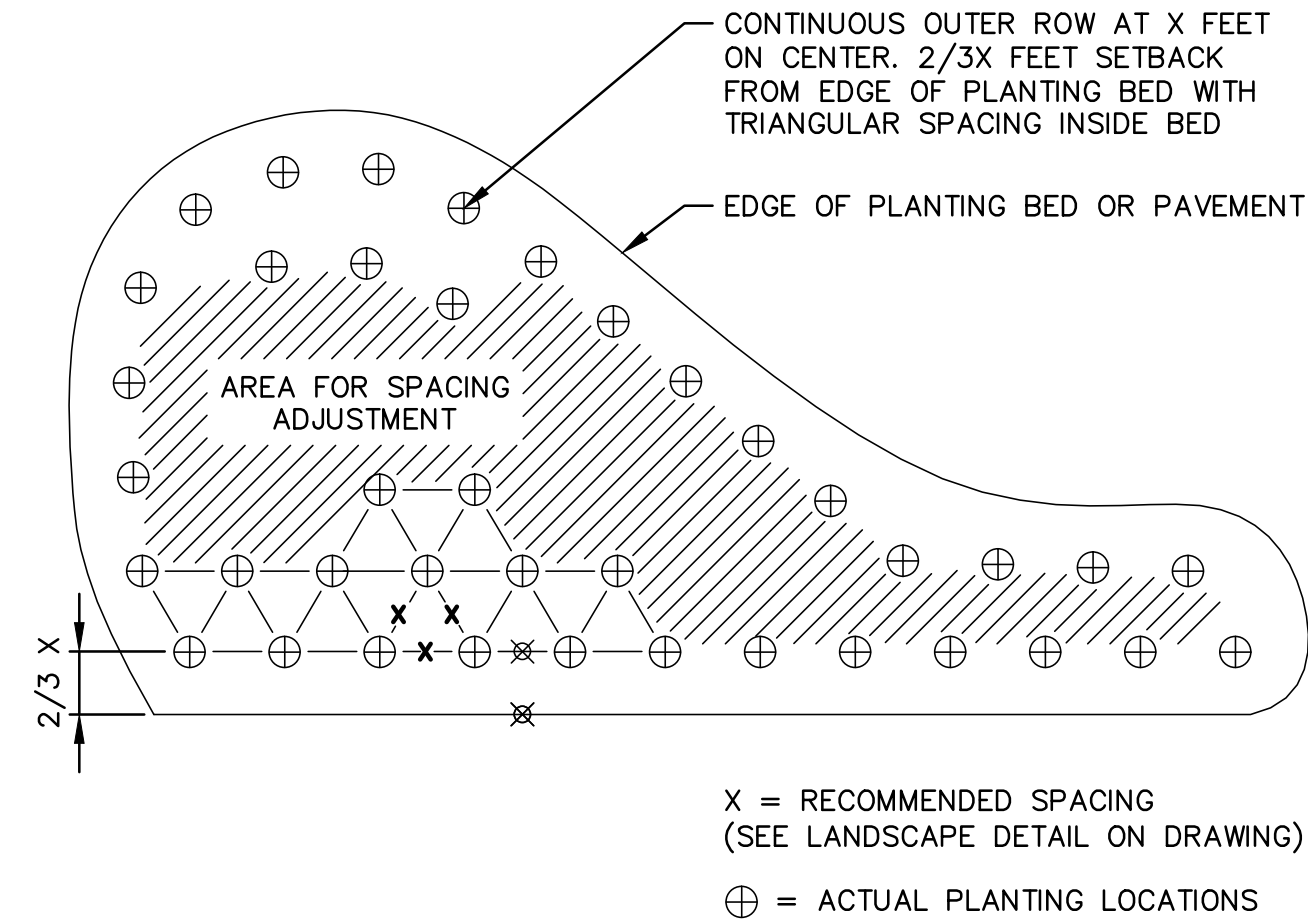
1 DECIDUOUS TREE PLANTING- SPR DETAIL 32 93 43
SCALE: NTS



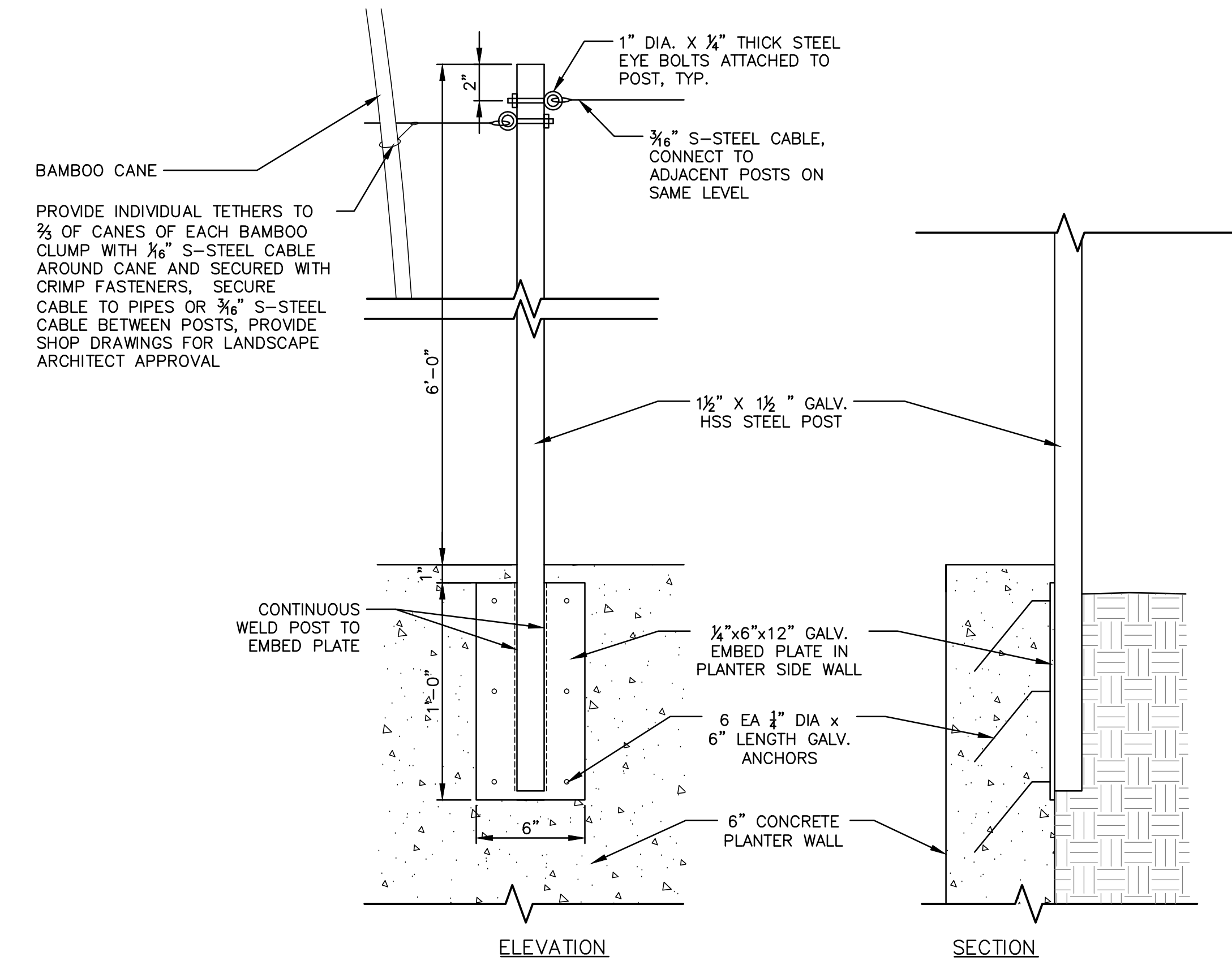
2 SHRUB PLANTING- SPR DETAIL 32 93 33
SCALE: NTS



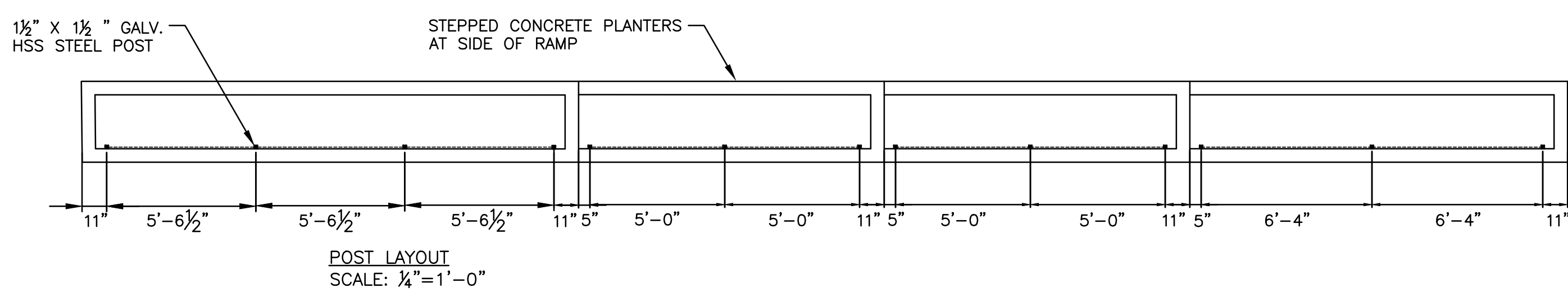
3 GROUND COVER PLANTING- SPR DETAIL 32 93 13
SCALE: NTS



4 TYPICAL PLANTING PATTERN- SPR DETAIL 32 93 36
SCALE: NTS



5 BAMBOO STAKING
SCALE: 1/2"=1'-0"



>>>>CAUTION - CALL 811<<<<
UTILITY NOTIFICATION CENTER
BEFORE YOU DIG!
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Also, verify all underground utilities not located by the
811 service by using a commercial location service and
call SPR Inspection Request Line (206) 684-7034.

3		
2	90% CD SUBMITTAL	01/20/22
1	PERMIT SET	01/28/21
NO.	REVISION - AS BUILT	DATE

REVIEWED: _____
PARK ENGINEER _____ DATE _____
All work done in accordance with the City of Seattle Standard
Plans and Specifications in effect on the date shown above, and
supplemented by Special Provisions.

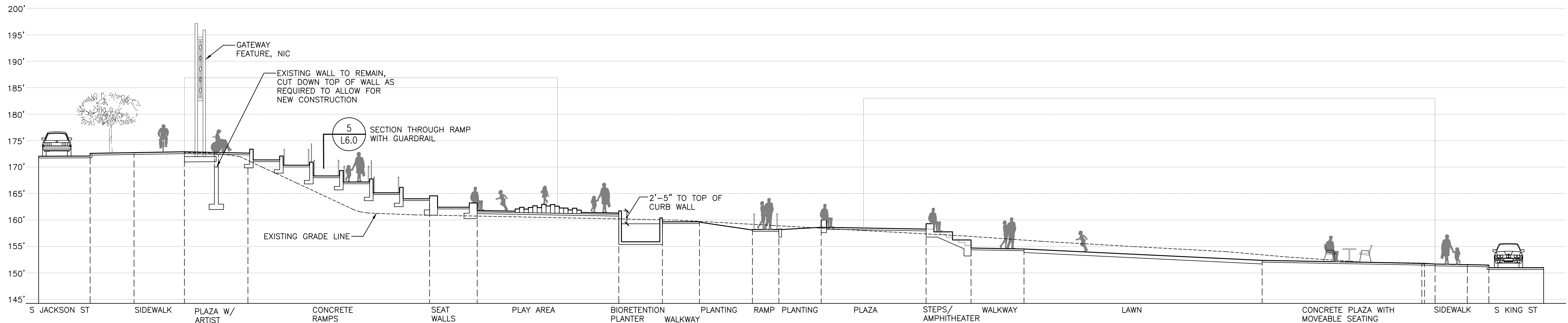


LITTLE SAIGON

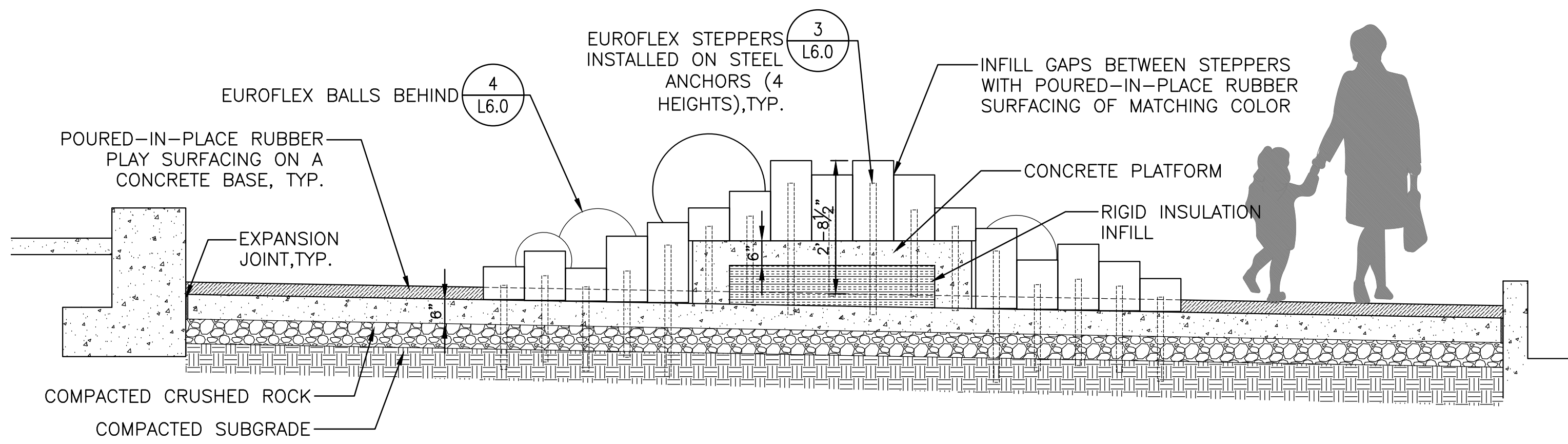
PARK DEVELOPMENT

PLANTING DETAILS

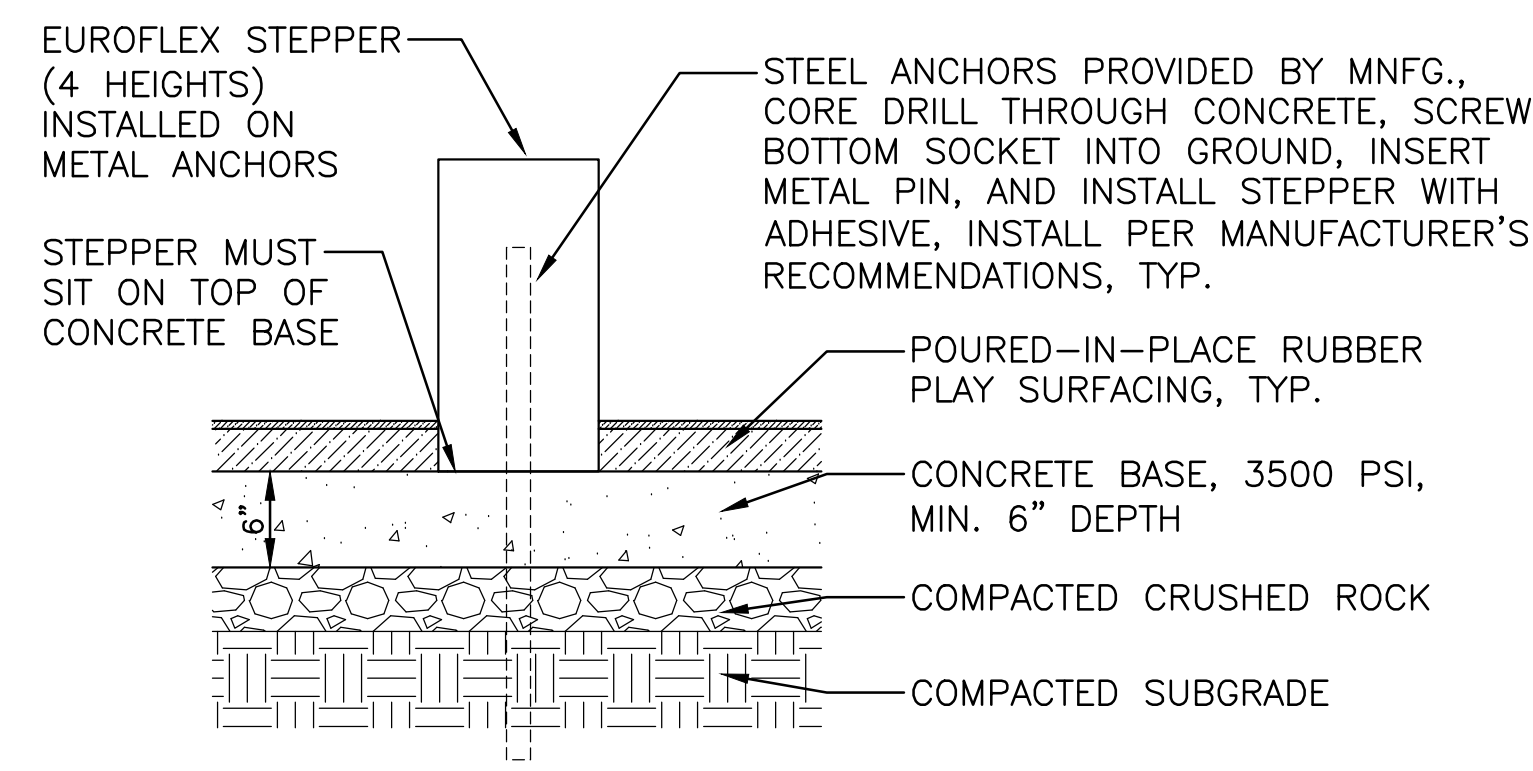
DESIGNED SM	DATE 01/20/22
DRAWN CA/DR	SHEET 16 OF 27
CHECKED MT	
ORDINANCE NO. 125475	L5.1
CONTRACT NO. 2064	
SCALE PER DETAIL	



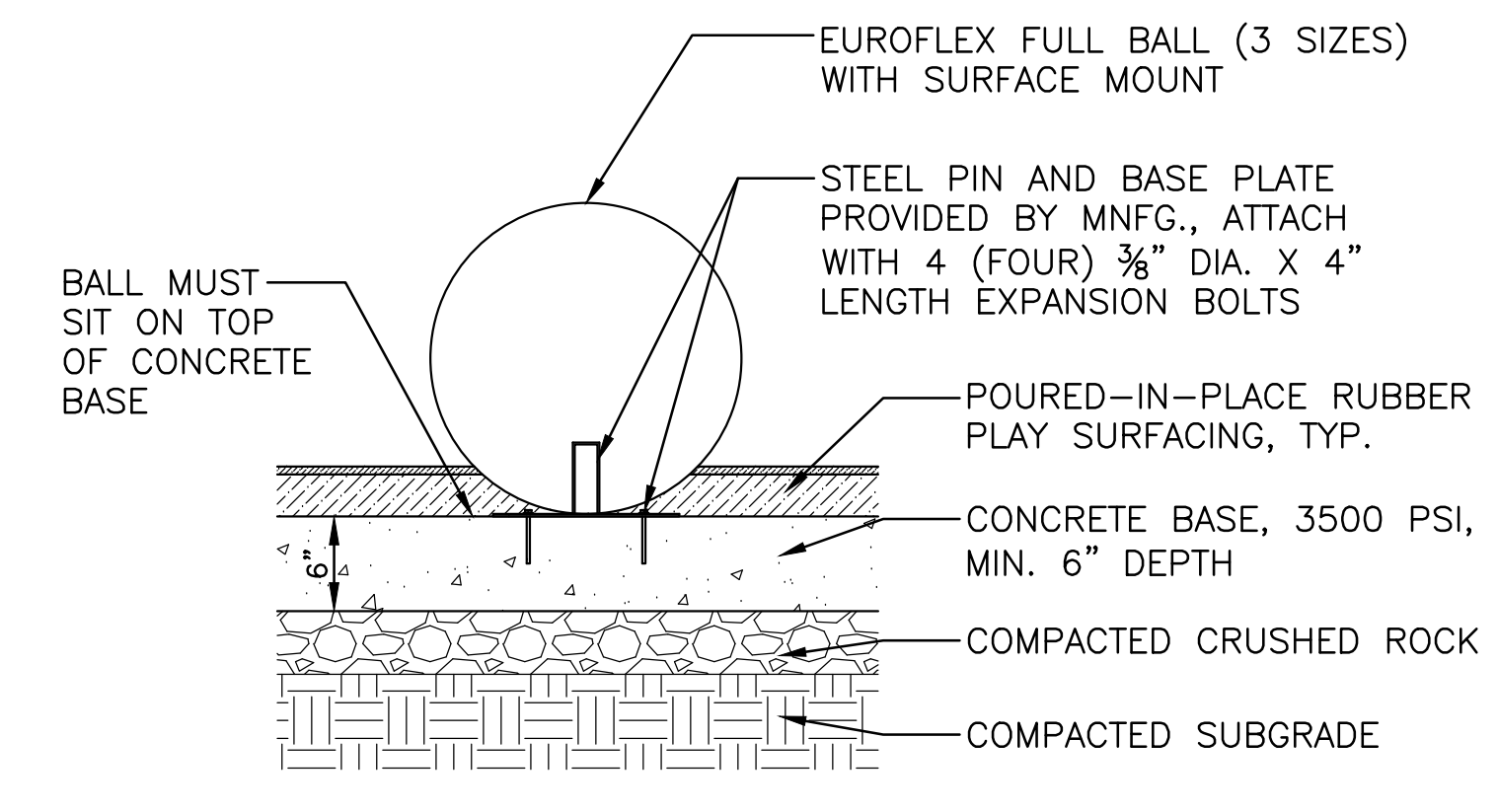
1 PARK SECTION FROM NORTH TO SOUTH
SCALE: 1/8"= 1'-0"



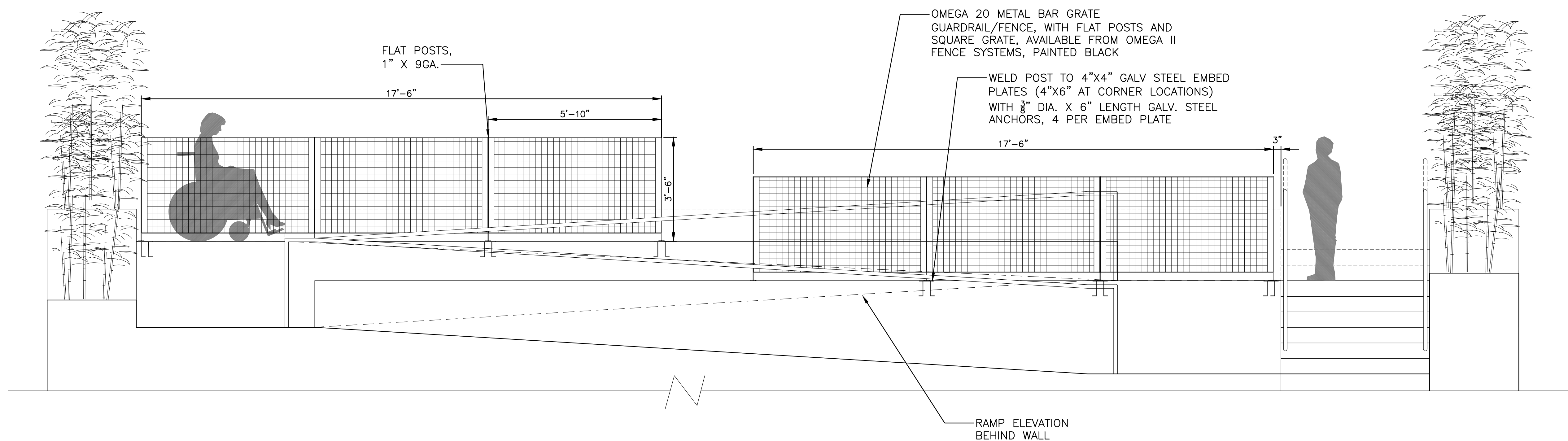
2 PLAY AREA SECTION FROM NORTH TO SOUTH
SCALE: 1/2"= 1'-0"



3 STEPPER PLAY STRUCTURE
SCALE: 1"= 1'-0"



4 FULL BALL PLAY STRUCTURE
SCALE: 1"= 1'-0"



5 SECTION THROUGH RAMP
SCALE: 1/2"= 1'-0"

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3		
2	90% CD SUBMITTAL	01/20/22
1	PERMIT SET	01/28/21
NO.	REVISION - AS BUILT	DATE

REVIEWED: _____
PARK ENGINEER _____ DATE _____
All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.

 **MURASE ASSOCIATES**
LANDSCAPE ARCHITECTURE
200 East Boston, Seattle, WA 98102
T 206 322 4937 www.murase.com

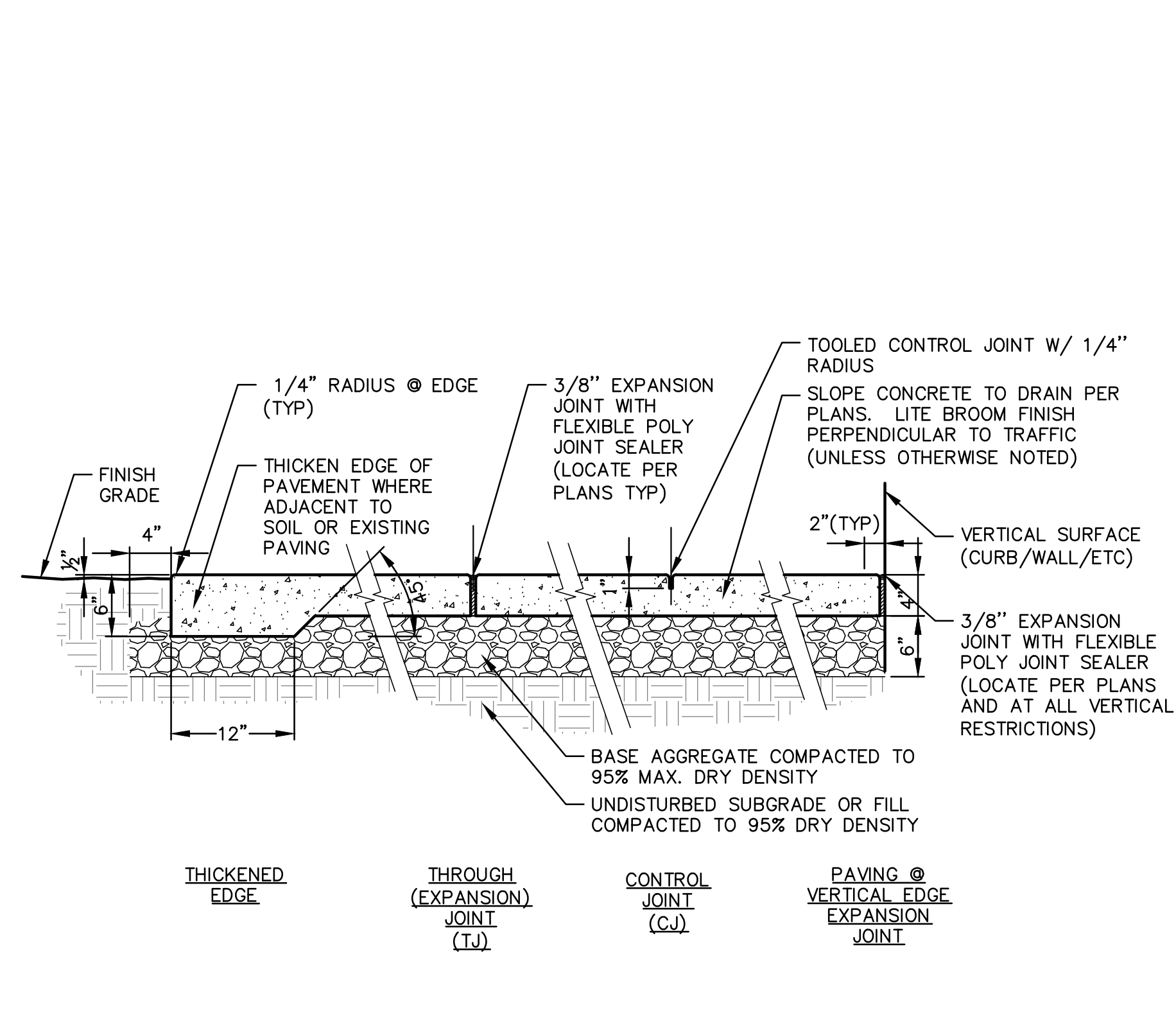
 **Seattle Parks & Recreation**

LITTLE SAIGON

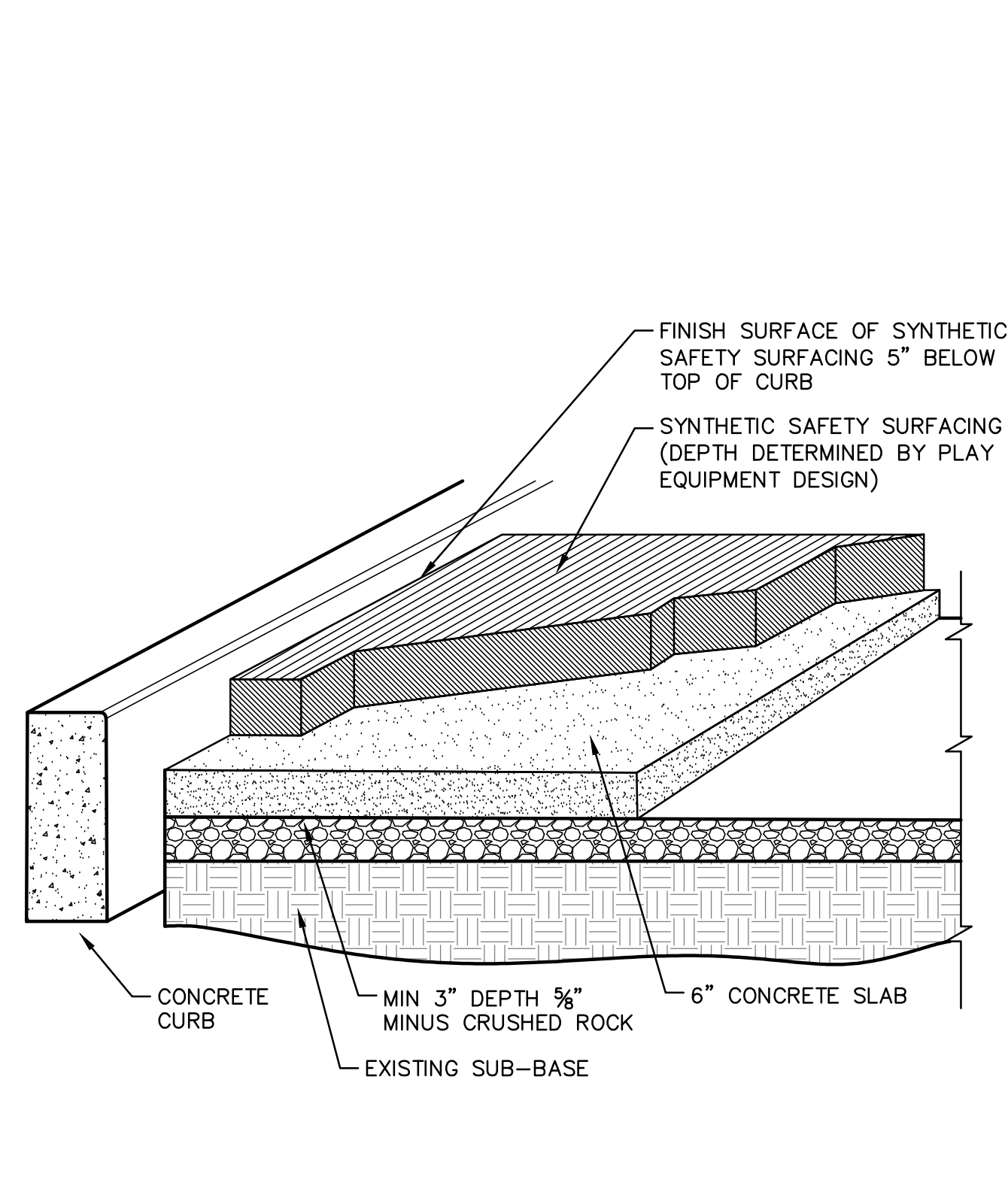
PARK DEVELOPMENT

LANDSCAPE SECTIONS

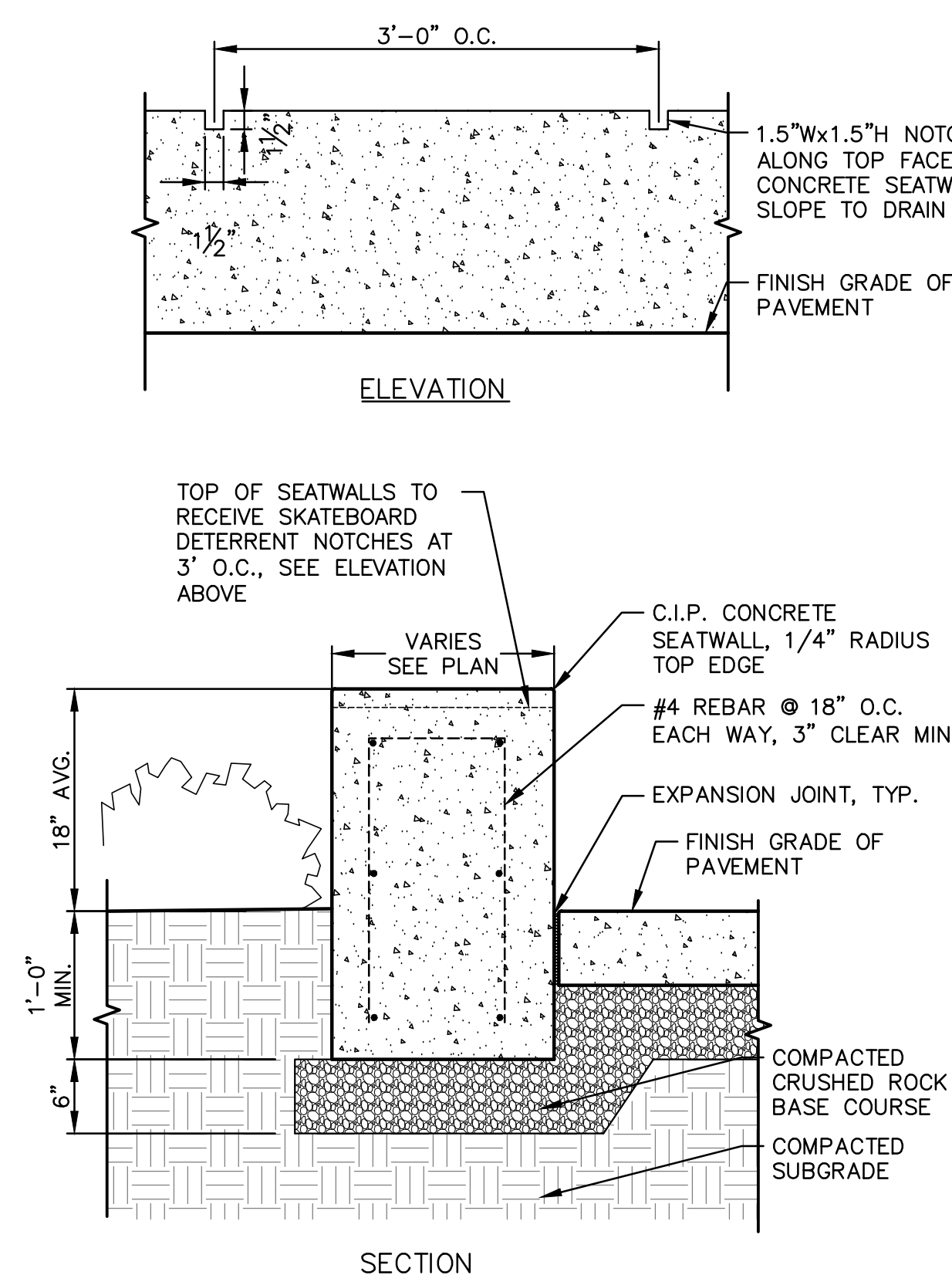
DESIGNED SM	DATE 01/20/22
DRAWN CA/DR	SHEET 17 OF 27
CHECKED MT	
ORDINANCE NO. 125475	L6.0
CONTRACT NO. 2064	
SCALE PER DETAIL	



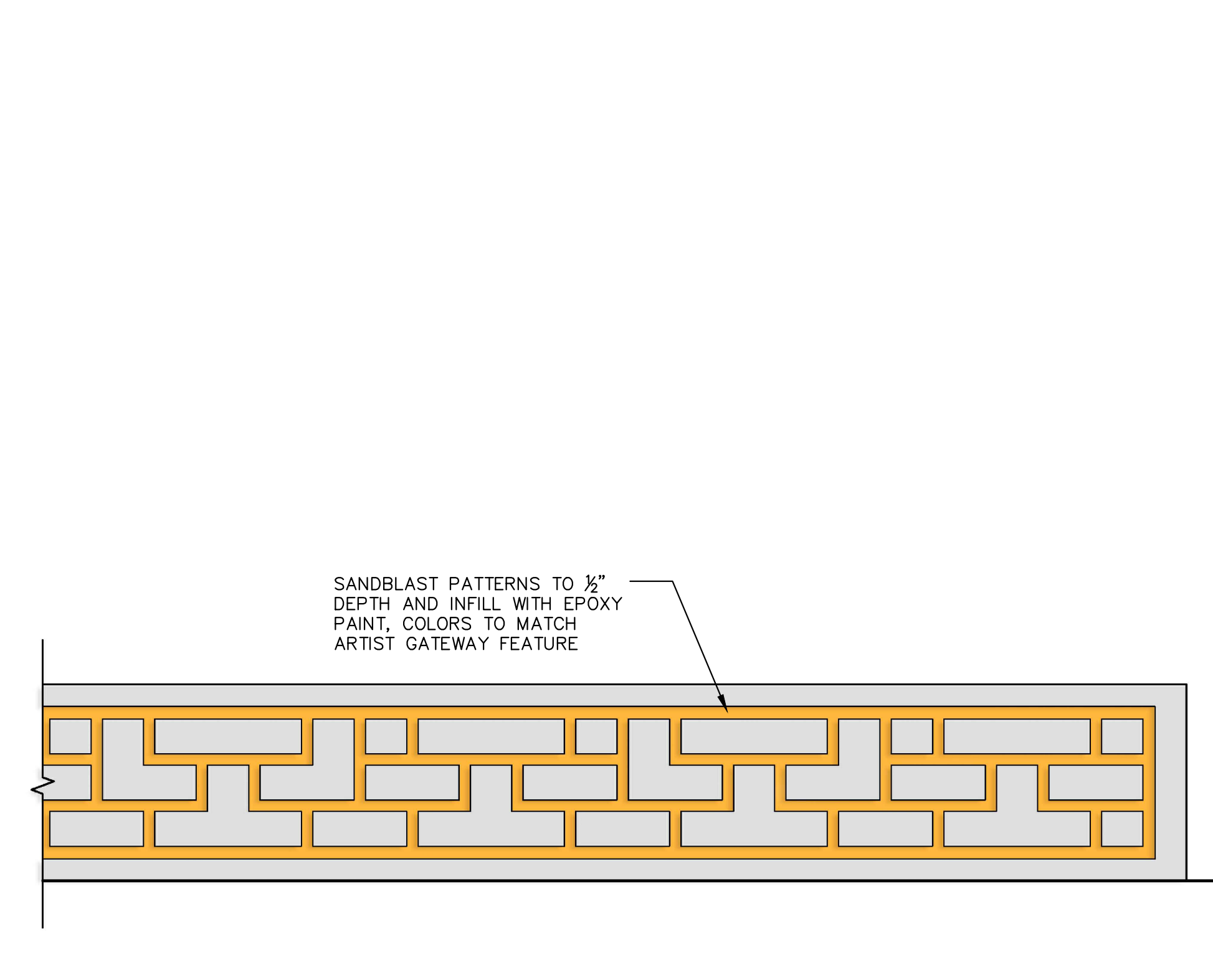
1 CONCRETE PAVING - SPR DETAIL 32 13 73
SCALE: 1"=1'-0"



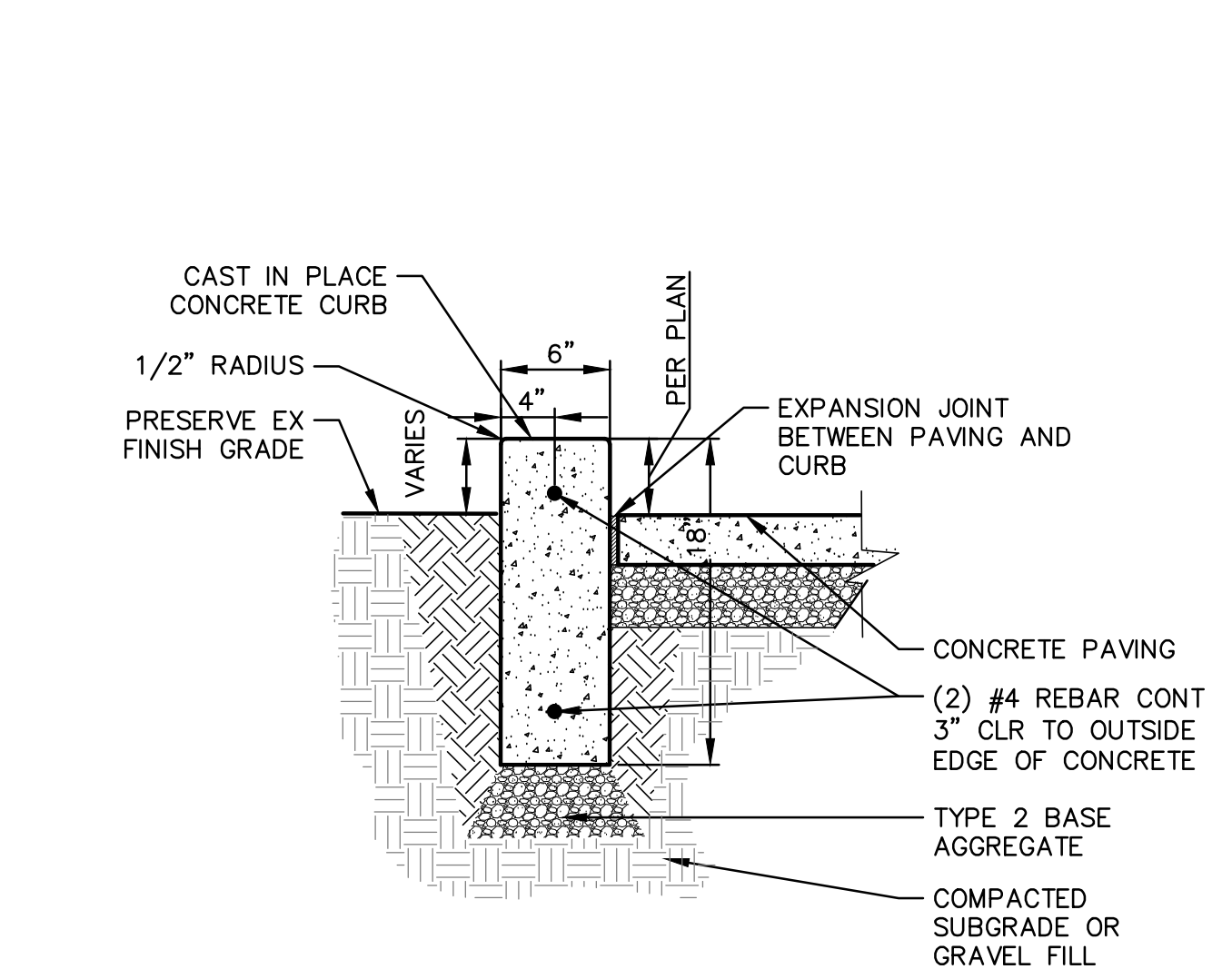
2 SYNTHETIC PLAY SURFACING - SPR DETAIL 32 15 93
SCALE: NTS



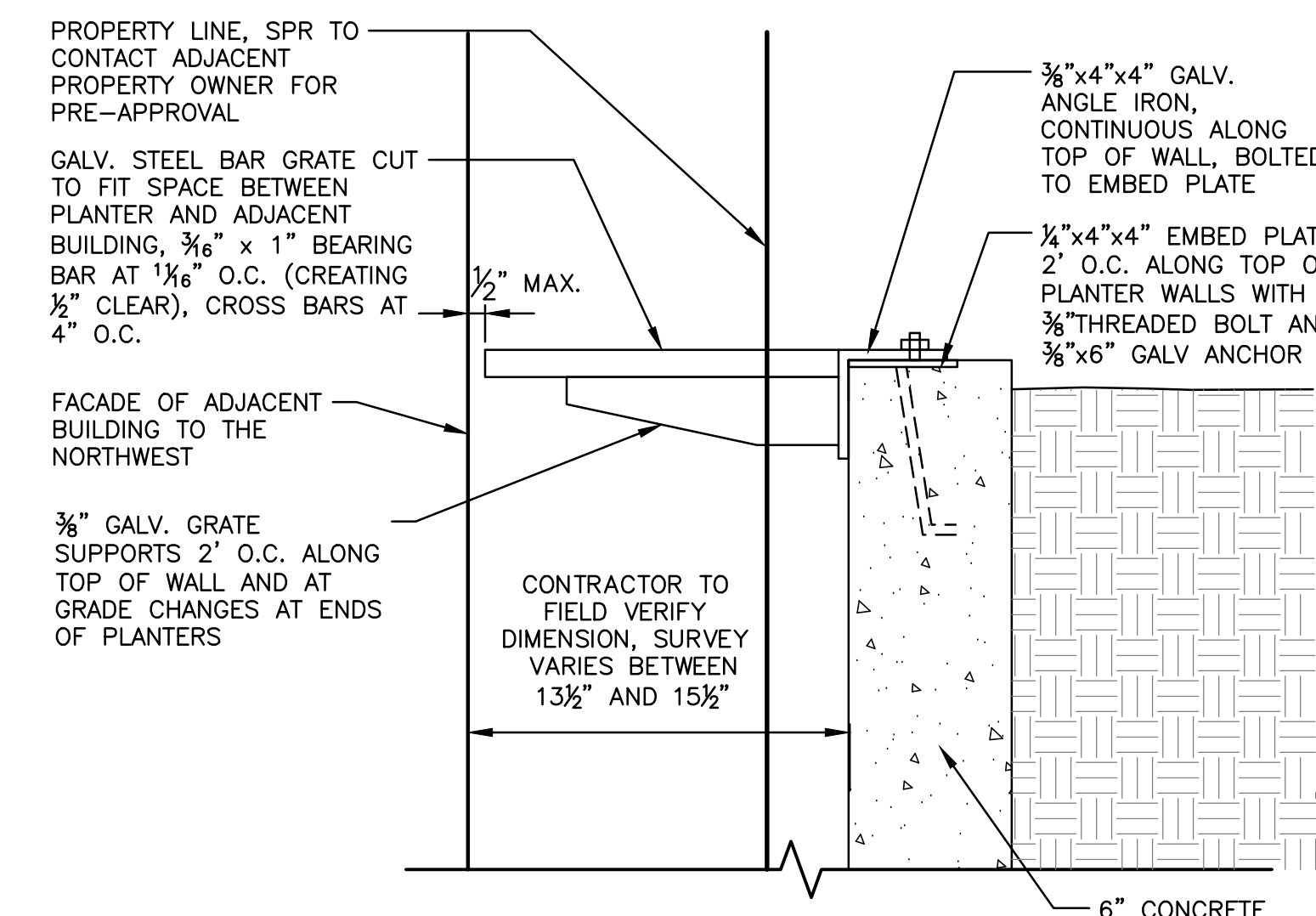
3 SEAT WALL
SCALE: 1"=1'-0"



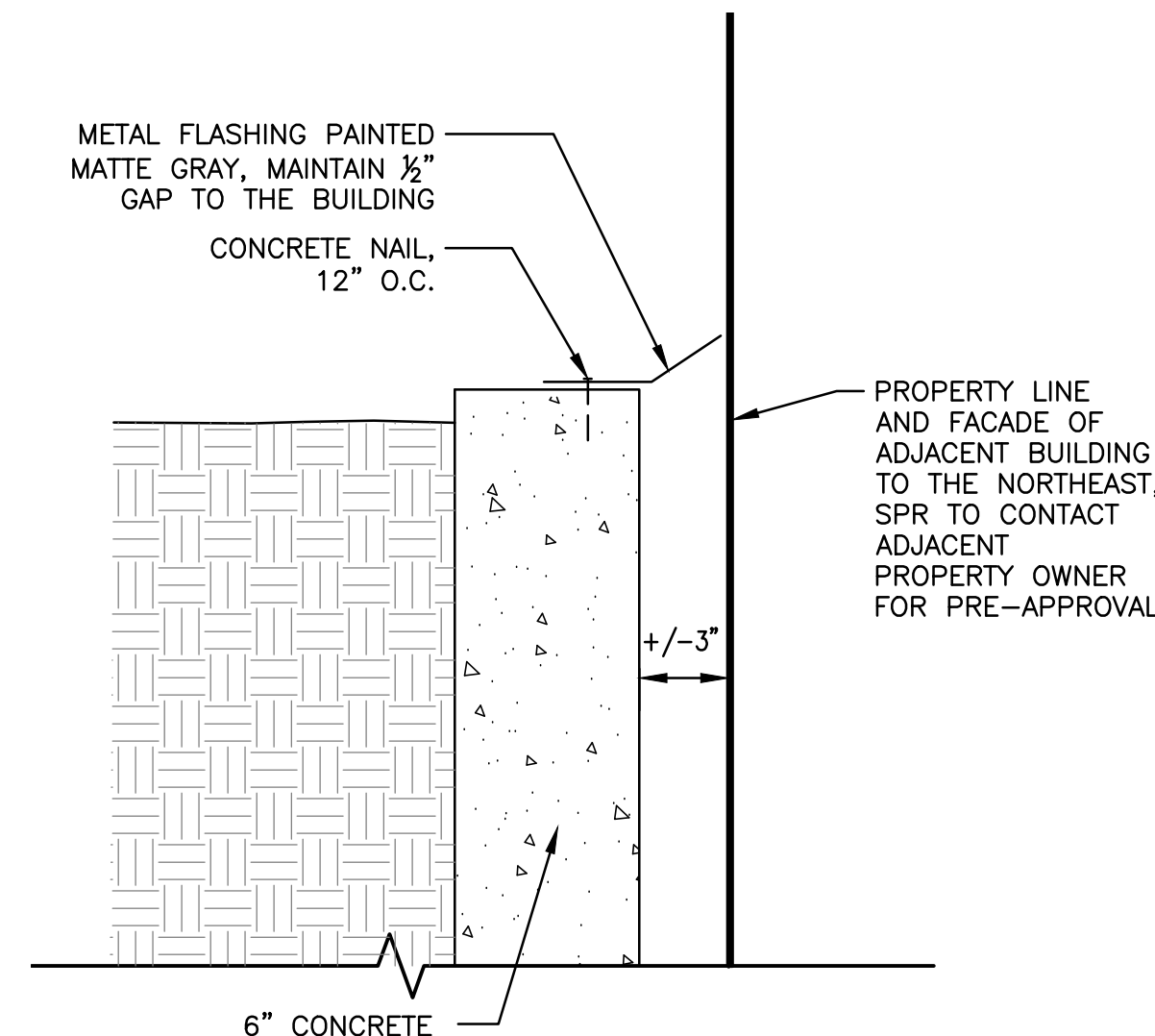
4 SANDBLASTED PATTERNS IN SEATWALLS
SCALE: NTS



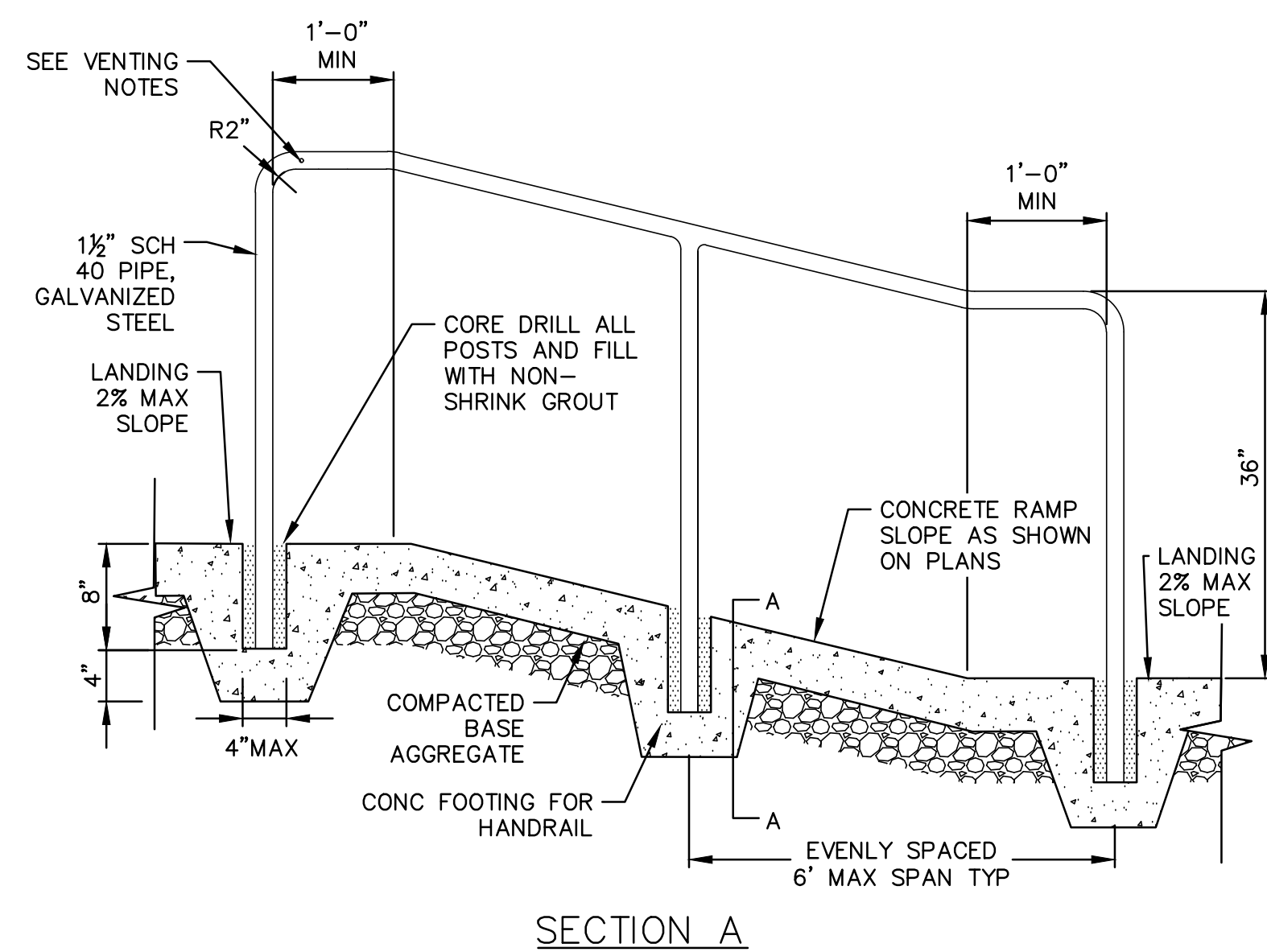
5 CONCRETE CURB- SPR DETAIL 32 16 65
SCALE: 3/4"=1'-0"



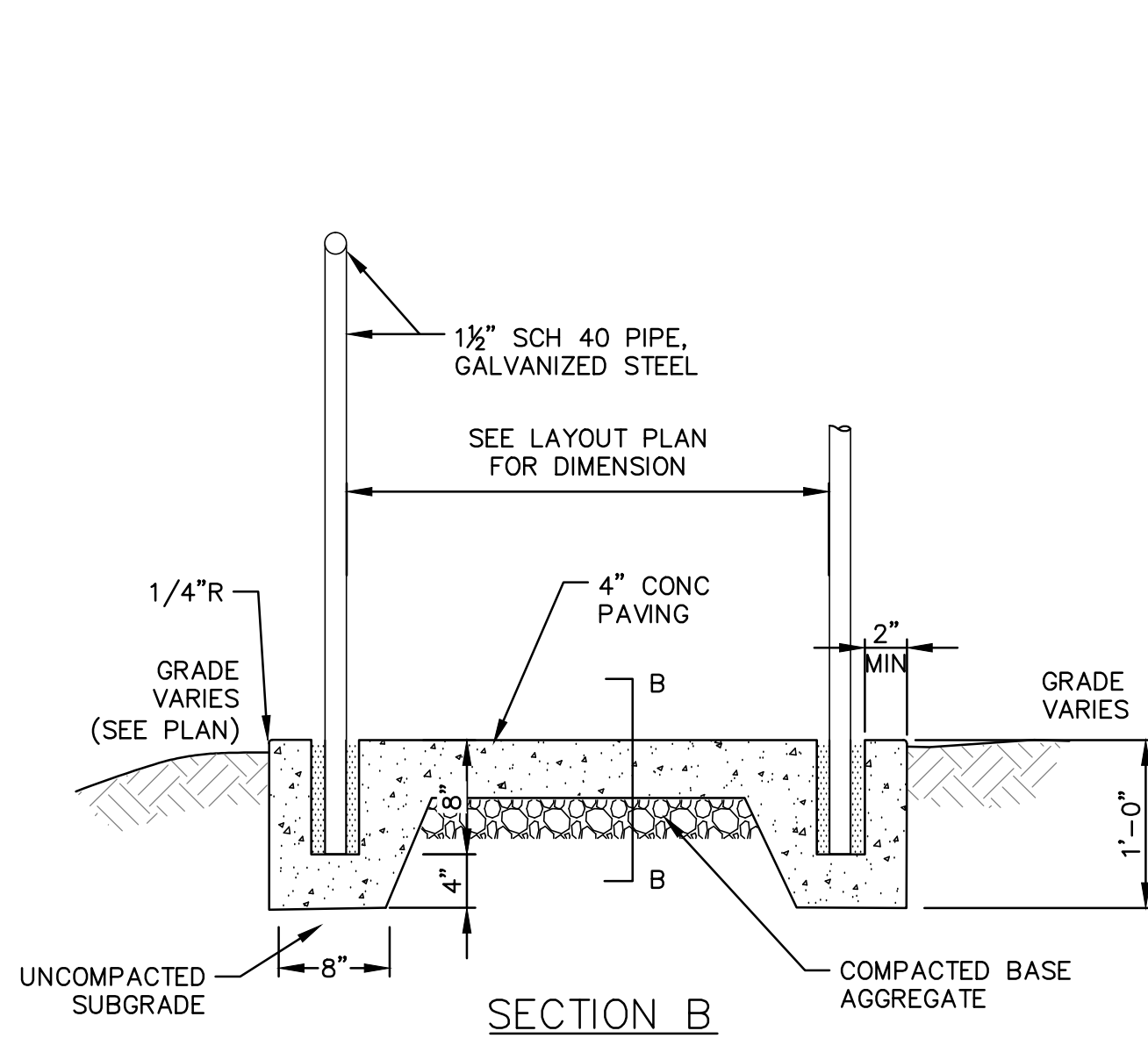
6 METAL GRATE AT WEST PROPERTY LINE
SCALE: 1/2"=1'-0"



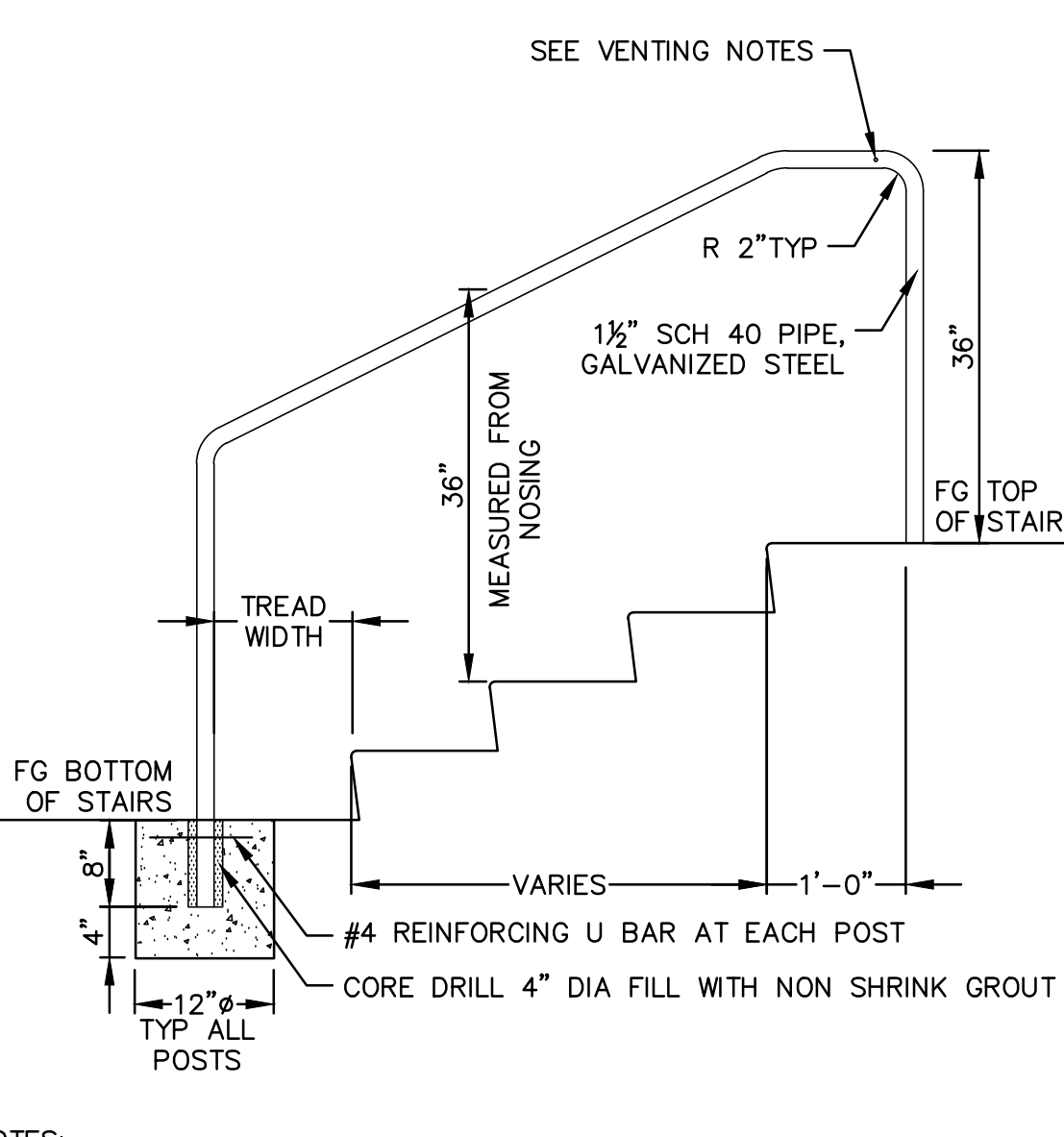
7 FLASHING AT EAST PROPERTY LINE
SCALE: NTS



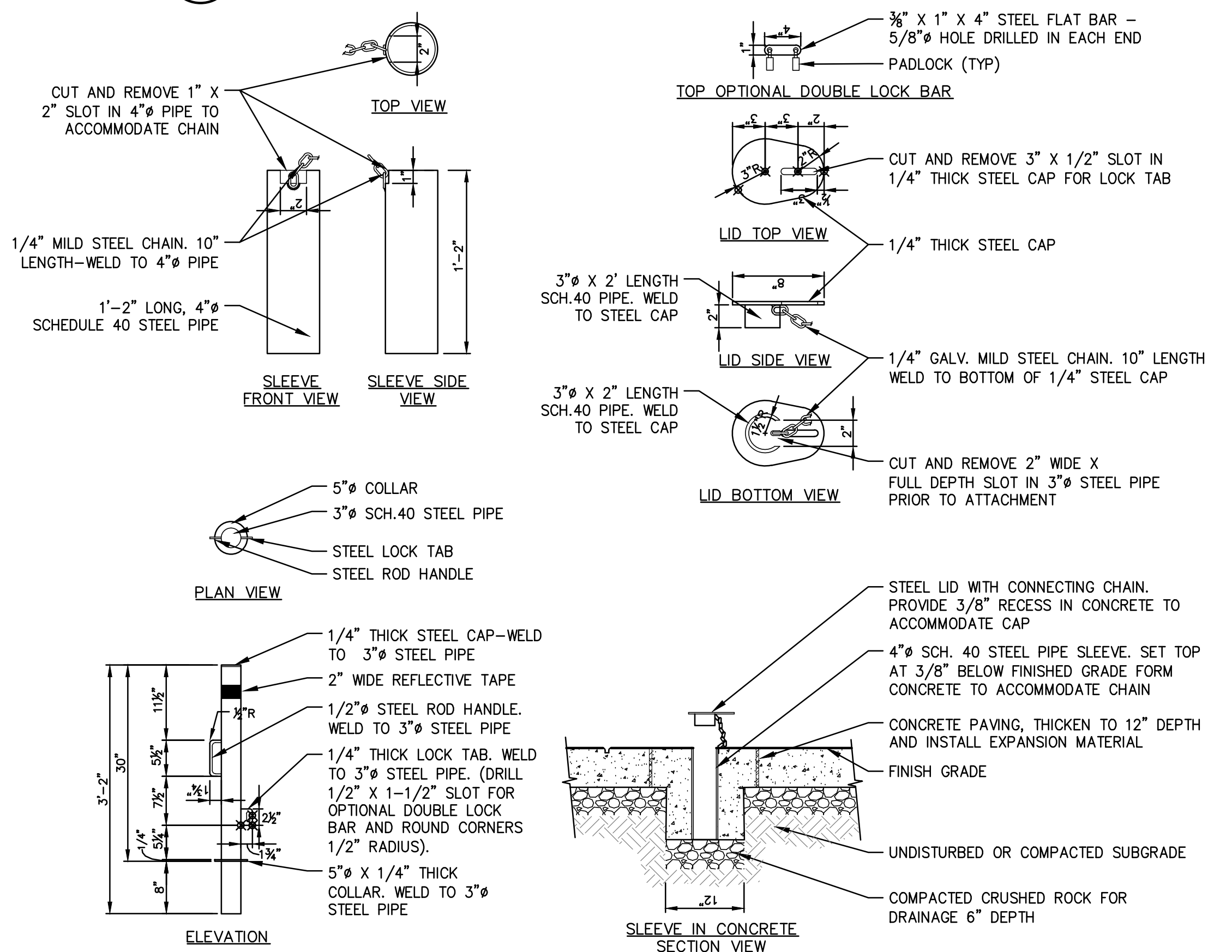
9 HANDRAIL AT ACCESSIBLE RAMP - MODIFIED SPR DETAIL 05 52 13.47
SCALE: 1"=1'-0"



10 METAL PIPE HANDRAIL - SPR DETAIL 05 52 13.33
SCALE: 3/4"=1'-0"



11 4' CHAINLINK FENCE - SPR DETAIL 32 31 00.13
SCALE: 1/2"=1'-0"



8 REMOVEABLE STEEL BOLLARD-SPR DETAIL 12 93 63.23
SCALE: NTS

>>>>CAUTION - CALL 811<<<<
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3		
2	90% CD SUBMITTAL	01/20/22
1	PERMIT SET	01/28/21
NO.	REVISION - AS BUILT	DATE

REVIEWED: PARK ENGINEER DATE
All work done in accordance with the City of Seattle Standard
Plans and Specifications in effect on the date shown above, and
supplemented by Special Provisions.



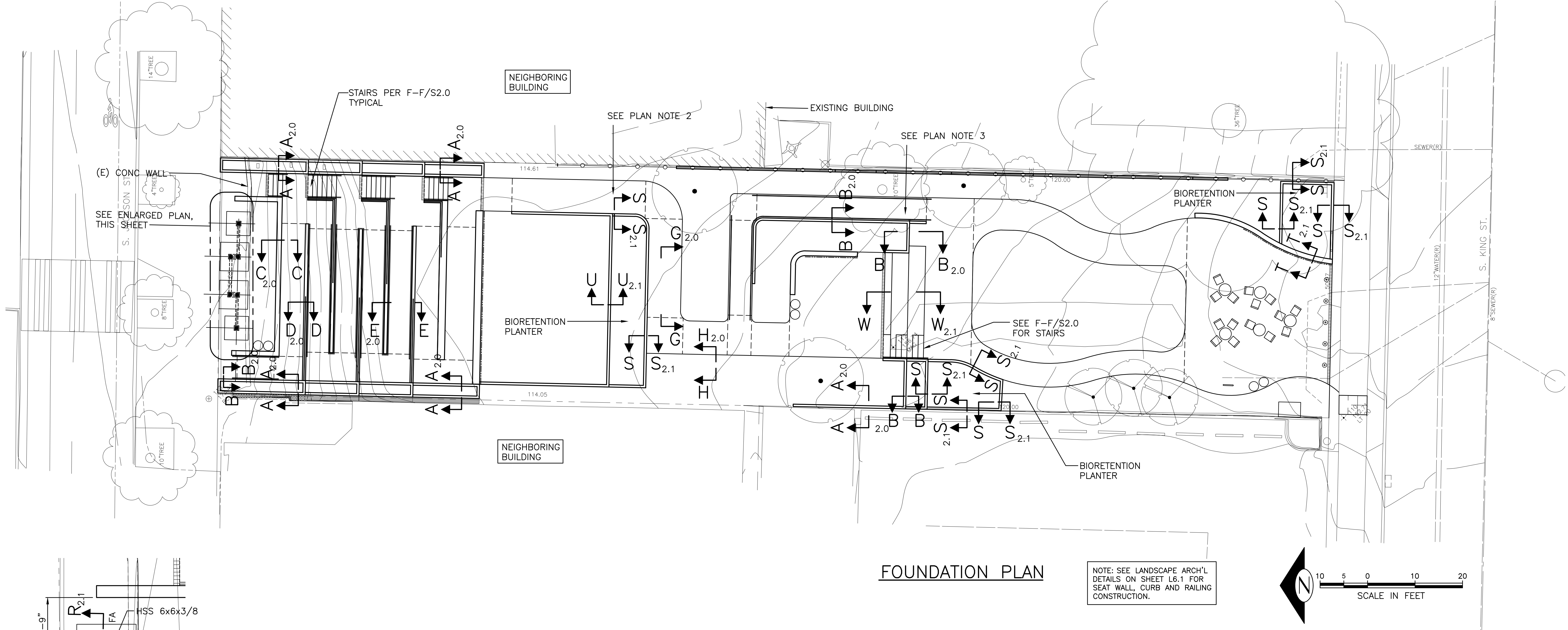
LITTLE SAIGON

PARK DEVELOPMENT

LANDSCAPE DETAILS

DESIGNED SM	DATE 01/20/22
DRAWN CA/DR	SHEET 18 of 27
CHECKED MT	
ORDINANCE NO. 125475	L6.1
CONTRACT NO. 2064	
SCALE PER DETAIL	

Also, verify all underground utilities not located by the 811 service by using a commercial location service and call SPR Inspection Request Line (206) 684-7034.



GENERAL STRUCTURAL NOTES

(The following apply unless shown otherwise on the plans)

CRITERIA

- 1.1 ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE SEATTLE BUILDING CODE (2015 EDITION).
- 1.3 STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH LANDSCAPE DRAWINGS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY AND SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- 1.4 CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED.
- 1.5 CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.
- 1.6 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE CONTRACTORS WORK. THE ENGINEER OF RECORD HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE ENGINEER OF RECORD HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES TO THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.
- 1.7 CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE LANDSCAPE ARCHITECT AND ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.
- 1.8 DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION, WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT AND THE ENGINEER OF RECORD.
- 1.9 ALL STRUCTURAL SYSTEMS WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERRECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.
- 1.10 SHOP DRAWINGS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT AND ENGINEER OF RECORD FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS.

STRUCTURAL STEEL

APPROVED SETS OF ALL SHOP DRAWINGS SHALL ALSO BE SUBMITTED TO THE BUILDING DEPARTMENT.

- 1.11 SHOP DRAWING REVIEW: DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, THEREFORE MUST BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. CONTRACTOR SHALL REVIEW DRAWINGS FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND OPERATIONS OF CONSTRUCTION, AND ALL SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO. SUBMITTALS SHALL INCLUDE A REPRODUCIBLE AND ONE COPY; REPRODUCIBLE WILL BE MARKED AND RETURNED WITHIN TWO WEEKS OF RECEIPT WITH A NOTATION INDICATING THAT THE SUBMITTAL HAS BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE SUBMITTED ITEMS SHALL NOT BE INSTALLED UNTIL THEY HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT, BY INDICATING WHICH MATERIAL IS INTENDED TO BE FURNISHED AND INSTALLED AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHODS. IF, DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.

QUALITY ASSURANCE

- 2.1 SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND SECTIONS 109 AND 1704 OF THE INTERNATIONAL BUILDING CODE BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE LANDSCAPE ARCHITECT, AND RETAINED BY THE BUILDING OWNER. THE LANDSCAPE ARCHITECT, ENGINEER OF RECORD, AND BUILDING DEPARTMENT SHALL BE FURNISHED WITH COPIES OF ALL INSPECTION AND TEST RESULTS. SPECIAL INSPECTION OF THE FOLLOWING TYPES OF CONSTRUCTION

CONCRETE CONSTRUCTION PER TABLE 1704.4

GEOTECHNICAL

- 3.1 FOUNDATION NOTES: SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION, AND FILLING REQUIREMENTS, SHALL CONFORM STRICTLY WITH RECOMMENDATIONS GIVEN IN THE SOILS REPORT OR AS DIRECTED BY THE SOILS ENGINEER. FOOTINGS SHALL BEAR ON SOLID UNDISTURBED EARTH AT LEAST 18" BELOW LOWEST ADJACENT FINISHED GRADE. FOOTING DEPTHS/ELEVATIONS SHOWN ON PLANS (OR IN DETAILS) ARE MINIMUM AND FOR GUIDANCE ONLY; THE ACTUAL ELEVATIONS OF FOOTINGS MUST BE ESTABLISHED BY THE CONTRACTOR IN THE FIELD WORKING WITH THE TESTING LAB AND SOILS ENGINEER. BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE AS NOTED IN THE SOILS REPORT.

ALLOWABLE SOIL PRESSURE (IN PLACE FILL - NOT COMPACTED). 1500 PSF
ALLOWABLE SOIL PRESSURE (EXISTING FILL COMPACTED). 2000 PSF
ALLOWABLE SOIL PRESSURE (2FT OF IMPORTED COMPACTED FILL) 2500 PSF
LATERAL EARTH PRESSURE IN PLACE FILL (RESTRAINED/UNRESTRAINED) 60 PCF/38 PCF
LATERAL EARTH PRESSURE IMPORTED FILL (RESTRAINED/UNRESTRAINED) 54 PCF/32 PCF
REFER TO SECTION 6.6 OF THE SOILS REPORT FOR DETAILED FILL AND COMPACTION REQUIREMENTS

SOILS REPORT REFERENCE: PROJECT NO. NS01005 BY SEATTLE PUBLIC UTILITIES DATED SEPTEMBER 2020

CONCRETE

- 5.1 CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH IBC SECTION 1905.1906, AND ACI 301. STRENGTHS AT 28 DAYS AND MIX CRITERIA SHALL BE AS FOLLOWS:

TYPE OF CONSTRUCTION	28 DAY STRENGTH (f'c)	MAXIMUM ABSOLUTE WATER-CEMENT RATIO NON-AIR ENTRAINED CONCRETE	AIR ENTRAINED CONCRETE
A. LEAN MIX CONCRETE	700 PSI	270# CONCRETE PER CUBIC YARD	
B. SLABS AND STAIRS ON GRADE	2,500 PSI	0.58	0.46
C. WALLS AND FOOTINGS	4,000 PSI	0.50	0.38

- 5.2 THE MINIMUM AMOUNTS OF CEMENT MAY BE CHANGED IF A CONCRETE PERFORMANCE MIX IS SUBMITTED TO THE ENGINEER OF RECORD AND THE BUILDING DEPARTMENT FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE. THE PERFORMANCE MIX SHALL INCLUDE THE AMOUNTS OF CEMENT, FLYASH, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES AS WELL AS THE WATER CEMENT RATIO, SLUMP, CONCRETE YIELD AND SUBSTITUTING STRENGTH DATA IN ACCORDANCE WITH IBC 1905.6. THE USE OF A PERFORMANCE MIX REQUIRES BATCH PLANT INSPECTION, THE COST OF WHICH SHALL BE PAID BY THE GENERAL CONTRACTOR. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THAT INFORMATION PRESENTED CONFORMS GENERALLY WITH CONTRACT DOCUMENTS. CONTRACTOR OR SUPPLIER MAINTAINS FULL RESPONSIBILITY FOR SPECIFIED PERFORMANCE.

ALL CONCRETE WITH SURFACES EXPOSED TO STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260, C494, and C618. TOTAL AIR CONTENT FOR FROST-RESISTANT CONCRETE SHALL BE IN ACCORDANCE WITH TABLE 1904.2.1 OF THE INTERNATIONAL BUILDING CODE.

- 5.4 REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, fy = 60,000 PSI.
- 5.7 DETAILING OF REINFORCING STEEL (INCLUDING HOOKS AND BENDS) SHALL BE IN ACCORDANCE WITH ACI 318-02. ALL REINFORCEMENTS SHALL BE DETAILING OF REINFORCING STEEL (INCLUDING HOOKS AND BENDS) SHALL BE IN ACCORDANCE WITH "THE REINFORCING SPLICE AND DEVELOPMENT LENGTH SCHEDULE." PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS.

NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER.

- 5.8 CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3" FORMED SURFACES EXPOSED TO EARTH OR WEATHER (#6 BARS OR LARGER). 2" FORMED SURFACES EXPOSED TO EARTH OR WEATHER (#5 BARS OR SMALLER) .1-1/2"

- 5.10 CAST-IN-PLACE CONCRETE: SEE LANDSCAPE DRAWINGS FOR EXACT DIMENSIONS. SEE ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF ALL CONDUIT AND OTHER OPENINGS THROUGH CONCRETE WALLS. SEE LANDSCAPE DRAWINGS FOR HANDRAILS AND GUARDRAILS, ALL GROOVES, NOTCHES, CHAMFERS, FEATURE STRIPS, COLOR, TEXTURE, AND OTHER FINISH DETAILS AT ALL EXPOSED CONCRETE SURFACES.

- 5.13 NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (4000 PSI MINIMUM).

ANCHORAGE

- 6.1 EXPANSION BOLTS INTO CONCRETE AND CONCRETE MASONRY UNITS SHALL BE "STRONG-BOLT" ANCHORS AS MANUFACTURED BY THE SIMPSON STRONG TIE COMPANY AND INSTALLED IN STRICT CONFORMANCE TO ICC-ES REPORT NO. 1771, INCLUDING MINIMUM EMBEDMENT REQUIREMENTS. BOLTS INTO CONCRETE MASONRY OR BRICK MASONRY UNITS SHALL BE INTO FULLY GROUTED CELLS. SPECIAL INSPECTION IS REQUIRED FOR ALL EXPANSION BOLT INSTALLATION.

- 6.2 EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) SPECIFIED ON THE DRAWINGS INTO EXISTING CONCRETE AND GROUTED CMU SHALL BE INSTALLED USING "SET-XP" EPOXY AS MANUFACTURED BY THE SIMPSON STRONG TIE COMPANY. INSTALL IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. 2508. SPECIAL INSPECTION INSTALLATION IS REQUIRED. RODS SHALL BE ASTM A-36 UNLESS OTHERWISE NOTED.

- 6.4 SCREW ANCHORS INTO CONCRETE AND CONCRETE MASONRY UNITS SHALL BE "TITEN HD" HEAVY DUTY SCREW ANCHORS AS MANUFACTURED BY SIMPSON STRONG-TIE. BOLTS INTO CONCRETE MASONRY OR BRICK MASONRY UNITS SHALL BE INTO FULLY GROUTED CELLS. SUBSTITUTES PROPOSED BY CONTRACTOR SHALL BE SUBMITTED FOR REVIEW WITH ICBO, OR ICC REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. INSTALL IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. 1056.

STEEL

- 8.1 STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE BASED ON:

1. EITHER AISC-LRFD, AISC 355, OR AISC-HSS AND SECTION 2205.2 OF THE INTERNATIONAL BUILDING CODE.

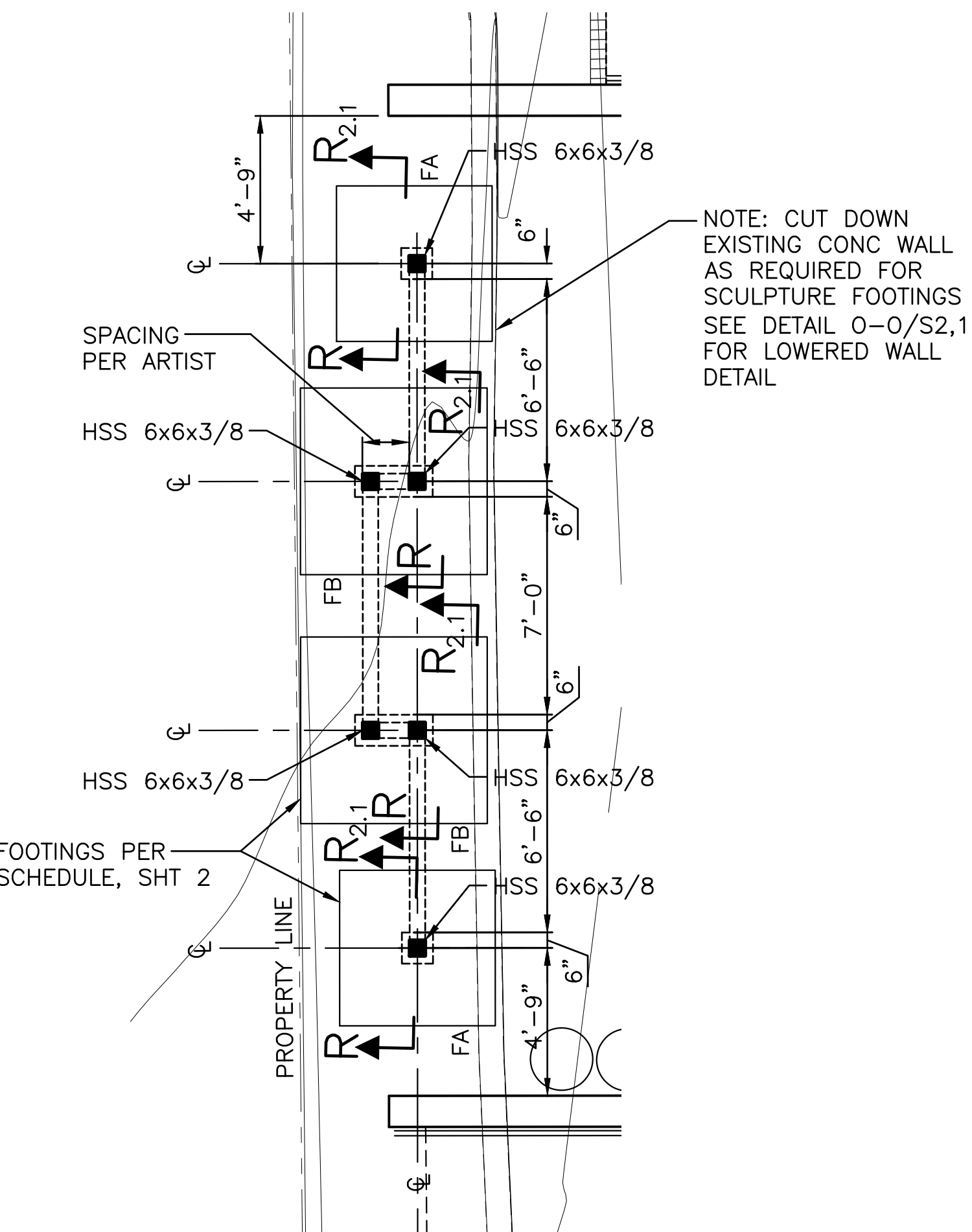
- 8.2 ROLLED SHAPES INCLUDING PLATES, SHALL CONFORM TO ASTM A36, Fy = 36 KSI. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B, Fy = 46 KSI. CONNECTION BOLTS SHALL CONFORM TO ASTM A307.

- 8.3 ARCHITECTURALLY EXPOSED STRUCTURAL STEEL SHALL CONFORM TO SECTION 10 OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.

- 8.5 ALL ANCHORS EMBEDDED IN MASONRY OR CONCRETE SHALL BE A307 HEADED BOLTS OR A36 THREADED ROD WITH AN ASTM S63 HEAVY HEX NUT TACK WELDED ON THE EMBEDDED END.

- 8.9 ALL WELDING SHALL BE IN CONFORMANCE WITH A.I.S.C. AND A.W.S. STANDARDS AND SHALL BE PERFORMED BY W.A.B.O. CERTIFIED WELDERS USING E70 XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY A.W.S.) SHALL BE USED. ALL COMPLETE JOINT PENETRATION GROOVE WELDS SHALL BE MADE WITH A FILLER MATERIAL THAT HAS A MINIMUM CVN TOUGHNESS OF 20 FT-LBS AT -20 DEGREES F AND 40 FT-LBS AT 70 DEGREES F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

- 8.15 STRUCTURAL ALUMINUM MEMBERS OF ALL SHAPES AND PLATES SHALL BE TYPE 6061-T6 ALLOY WITH A MINIMUM YIELD STRESS OF 35,000 PSI. ALL BOLTS AND WASHERS IN DIRECT CONTACT WITH STRUCTURAL ALUMINUM SHALL BE EITHER BRASS OR NICKEL UNLESS OTHERWISE NOTED OR DETAILED.



ENLARGED FOUNDATION PLAN - ARTWORK

FOUNDATION PLAN NOTES: (TYPICAL UNLESS NOTED OTHERWISE)

1. SEE REINFORCING SPLICE LENGTH AND DEVELOPMENT LENGTH SCHEDULE FOR REINFORCING DETAILS.
2. 4" CONCRETE SLAB ON 4" OF GRAVEL OR CRUSHED ROCK OVER FIRM UNDISTURBED SOIL OR ENGINEERED COMPACTED BACKFILL. SEE DETAIL J-J/S2.0 FOR CONSTRUCTION/CONTROL JOINTS IN SLAB.
3. PROVIDE CORNER BARS PER DETAIL K-K/S2.0 AT WALL AND FOOTING INTERSECTIONS.
4. STEP FOOTINGS AS REQUIRED PER DETAIL L-L/S2.0.
5. SEE DETAIL M-M/S2.0 FOR ALL PIPES AND TRENCHES ADJACENT TO AND THROUGH FOOTINGS.

3		
2	90% CD SUBMITTAL	01/20/22
1	PERMIT SET	01/28/21
NO.	REVISION - AS BUILT	DATE

REVIEWED:

PARK ENGINEER DATE

All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.

structural engineering
giraf design

9220 Roosevelt Way NE
Seattle, WA 98115

206.621.0060



**Seattle
Parks & Recreation**

LITTLE SAIGON

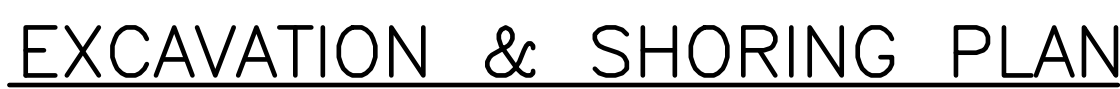
PARK DEVELOPMENT

GEN'L NOTES & FND PLAN

DESIGNED	NJR	DATE	01/20/22
DRAWN	JAS	SHEET	19 of 26
CHECKED	NJR		
ORDINANCE NO.	125475		
CONTRACT NO.	2064		
SCALE	AS NOTED		

S 1.0

Also, verify all underground utilities not located by the 811 service by using a commercial location service and call SPR Inspection Request Line (206) 684-7034.



(The following apply unless shown otherwise on the plans)

1. CODE REQUIREMENTS: ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE SEATTLE BUILDING CODE, 2015 EDITION.
2. REFERENCE DOCUMENTS:
 - a. TOPOGRAPHIC AND BOUNDARY SURVEY BY SEATTLE PARKS AND RECREATION SURVEY AND MAPPING DATED 11/20/2019
 - b. GEOTECHNICAL INVESTIGATION BY SEATTLE PUBLIC UTILITIES GEOTECHNICAL ENGINEERING DATED SEPTEMBER 2020.
3. DESIGN LOADS: THE SOIL PRESSURE INDICATED ON THE SOIL PRESSURE DIAGRAM WAS USED FOR THE DESIGN, IN ADDITION TO THE DEAD AND LIVE LOADS, AND SHALL BE VERIFIED BY THE SOILS ENGINEER.
4. SOILS INSPECTION: INSPECTION OF THE GRAVITY WALL INSTALLATION SHALL BE PERFORMED BY THE GEOTECHNICAL ENGINEER OF RECORD.
5. UTILITY LOCATION: THE SHORING CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO EXCAVATION. THE UTILITIES INFORMATION SHOWN ON THE PLANS MAY BE NOT COMPLETE.
6. SPECIAL CONDITIONS: CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF EXISTING STRUCTURES IN THE FIELD AND SHALL NOTIFY THE ENGINEER OF ALL FIELD CHANGES PRIOR TO FABRICATION AND INSTALLATION.
7. SOILS: SEE REPORT OF GEOTECHNICAL INVESTIGATION FOR MORE COMPLETE INFORMATION, INCLUDING, RECOMMENDATIONS FOR SHORING IN GENERAL, SHORING MONITORING, EXCAVATION, LAGGING, AND DRAINAGE.
8. GRAVITY WALL BLOCKS SHALL USE FULL AND HALF SIZE "ULTRABLOCKS" AS SUPPLIED BY ULTRABLOCK INC. AND INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
9. SHORING MONITORING: A SYSTEMATIC PROGRAM OF OBSERVATION SHALL BE CONDUCTED DURING THE PROJECT EXECUTION TO DETERMINE THE EFFECT OF CONSTRUCTION ON ADJACENT FACILITIES AND STRUCTURES IN ORDER TO PROTECT THEM FROM DAMAGE. DATA TO SUPPORT OF GEOTECHNICAL INVESTIGATION FOR RECOMMENDATIONS. FIELD DATA AND MEASUREMENTS ARE TO BE SUBMITTED TO STRUCTURAL AND GEOTECHNICAL ENGINEER FOR REVIEW.

REVIEWED: _____ DATE _____
PARK ENGINEER

All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.

9220 Roosevelt Way NE
Seattle, WA 98115
206.621.0060



Seattle Parks & Recreation

LITTLE SAIGON

PARK DEVELOPMENT

EXCAV & SHORING PLAN

DESIGNED	NJR	DATE	01/20/22
DRAWN	JAS	SHEET	20 OF 26
CHECKED	NJR		
ORDINANCE NO. 125475		S 1.1	
CONTRACT NO. 2064			
SCALE AS NOTED			

REINFORCING SPLICE AND DEVELOPMENT LENGTH SCHEDULE
FOR $f'_c = 4000$ psi, GRADE 60 REINFORCING

I MINIMUM STRAIGHT DEVELOPMENT LENGTH (l_d)

BAR SIZE	TOP BARS	OTHER BARS
#3	18"	14"
#4	25"	19"
#5	31"	24"
#6	37"	28"
#7	54"	42"
#8	62"	47"
#9	70"	54"
#10	78"	60"
#11	87"	67"

II MINIMUM LAP SPLICE LENGTHS (l_s)

BAR SIZE	TOP BARS	OTHER BARS
#3	24"	18"
#4	32"	25"
#5	40"	31"
#6	48"	37"
#7	70"	54"
#8	80"	62"
#9	90"	70"
#10	102"	78"
#11	113"	87"

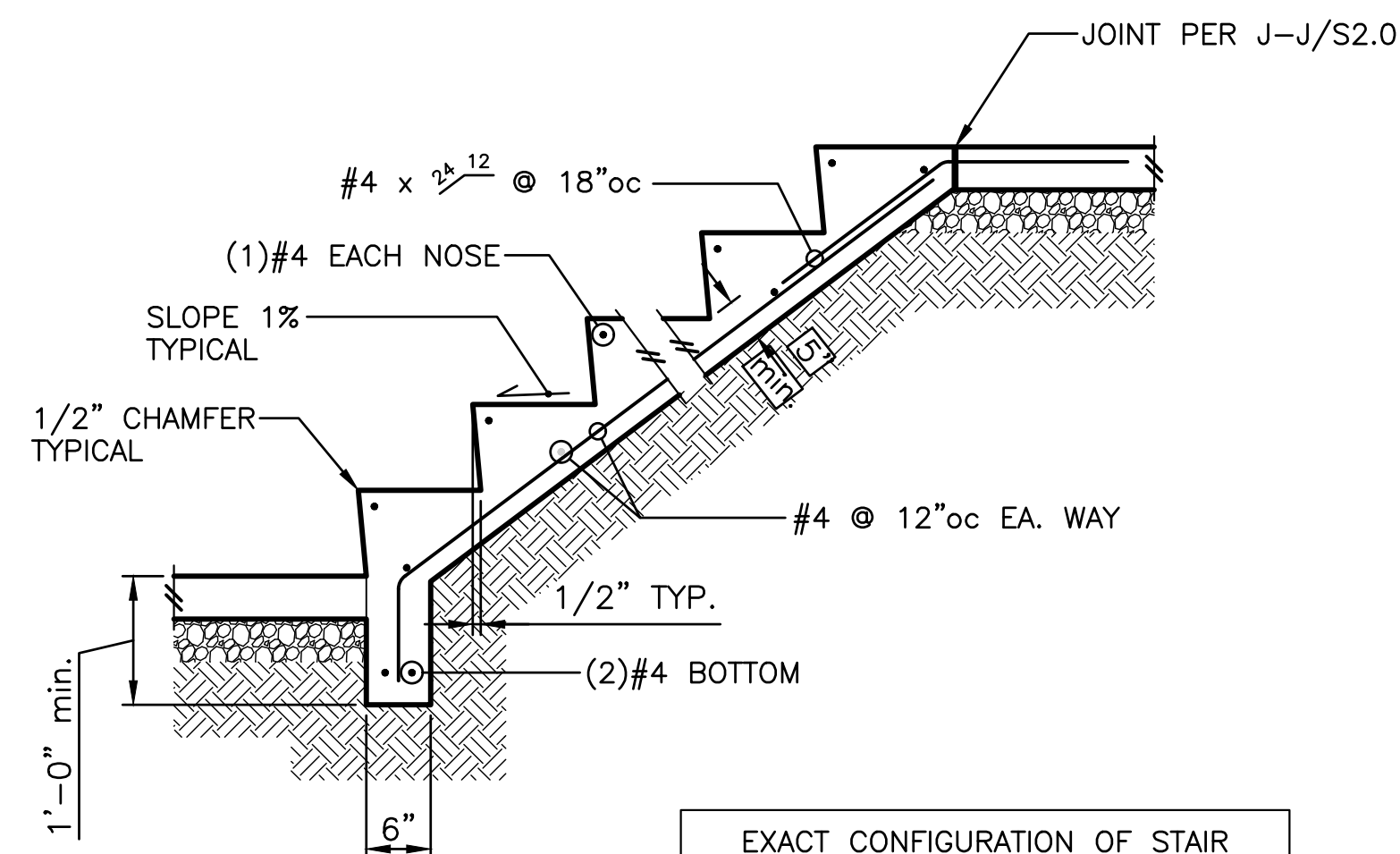
TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THEM.

IF CLEAR CONCRETE COVER IS NOT GREATER THAN THE DIAMETER OF THE BAR, OR THE CENTER TO CENTER SPACING IS NOT GREATER THAN 3 BAR DIAMETERS, THEN LENGTHS SHALL BE INCREASED BY 50%.

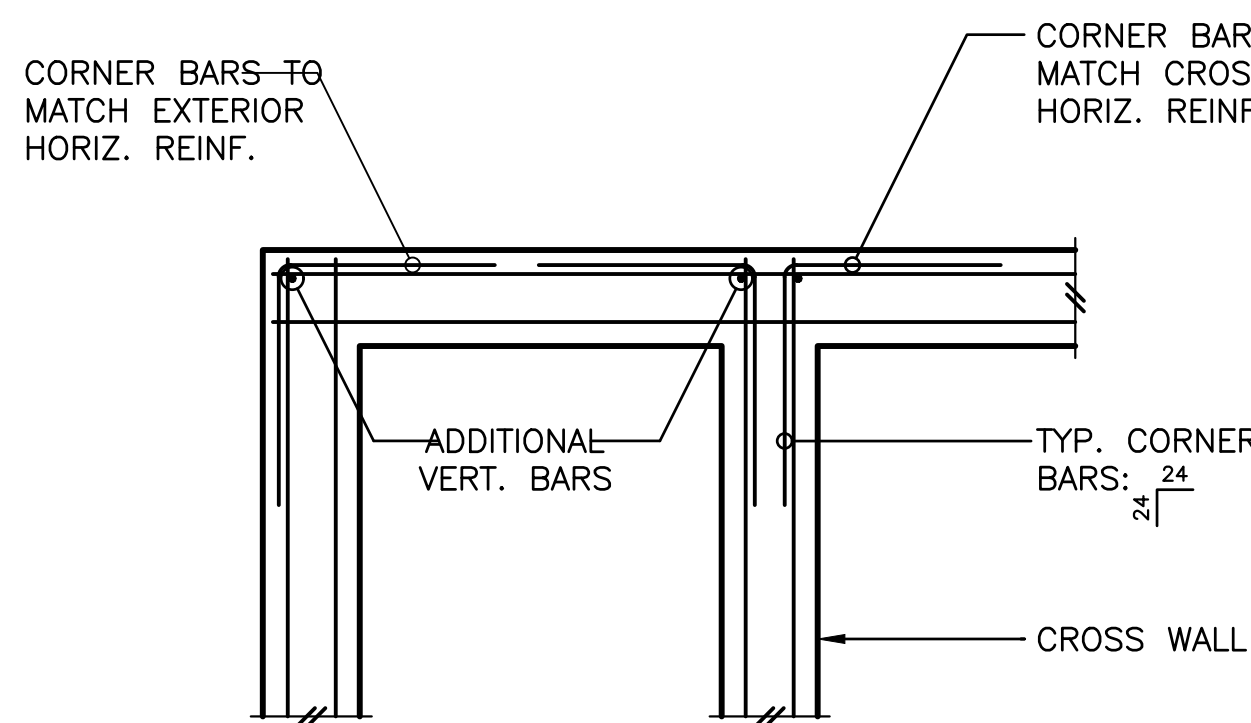
III MINIMUM EMBEDMENT LENGTHS (l_{dh}) FOR STANDARD END HOOKS

BAR SIZE	LENGTH
#3	8"
#4	10"
#5	12"
#6	15"
#7	17"
#8	19"
#9	22"
#10	24"
#11	27"

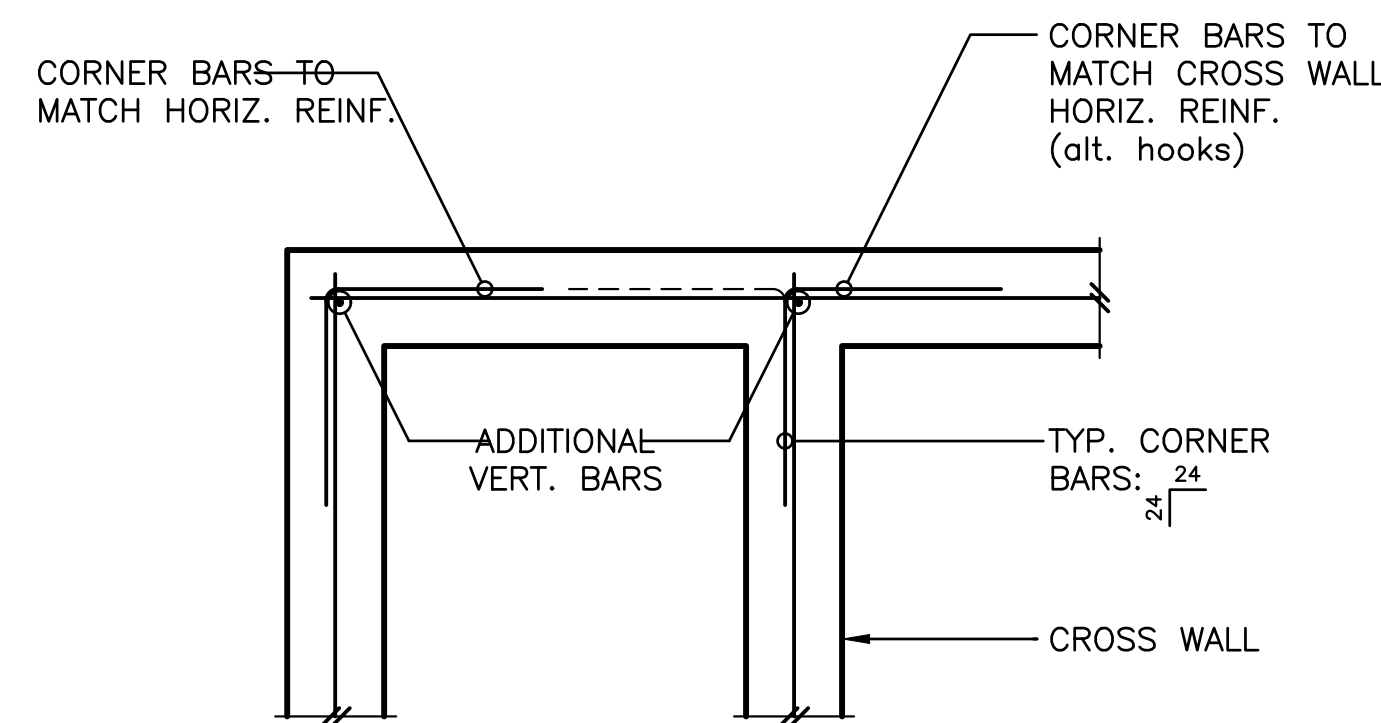
- SIDE COVER MUST BE EQUAL TO OR GREATER THAN 2 1/2"
- END COVER FOR 90° HOOKS MUST BE EQUAL TO OR GREATER THAN 2"



TYPICAL STAIR ON GRADE
SECTION F-F₁



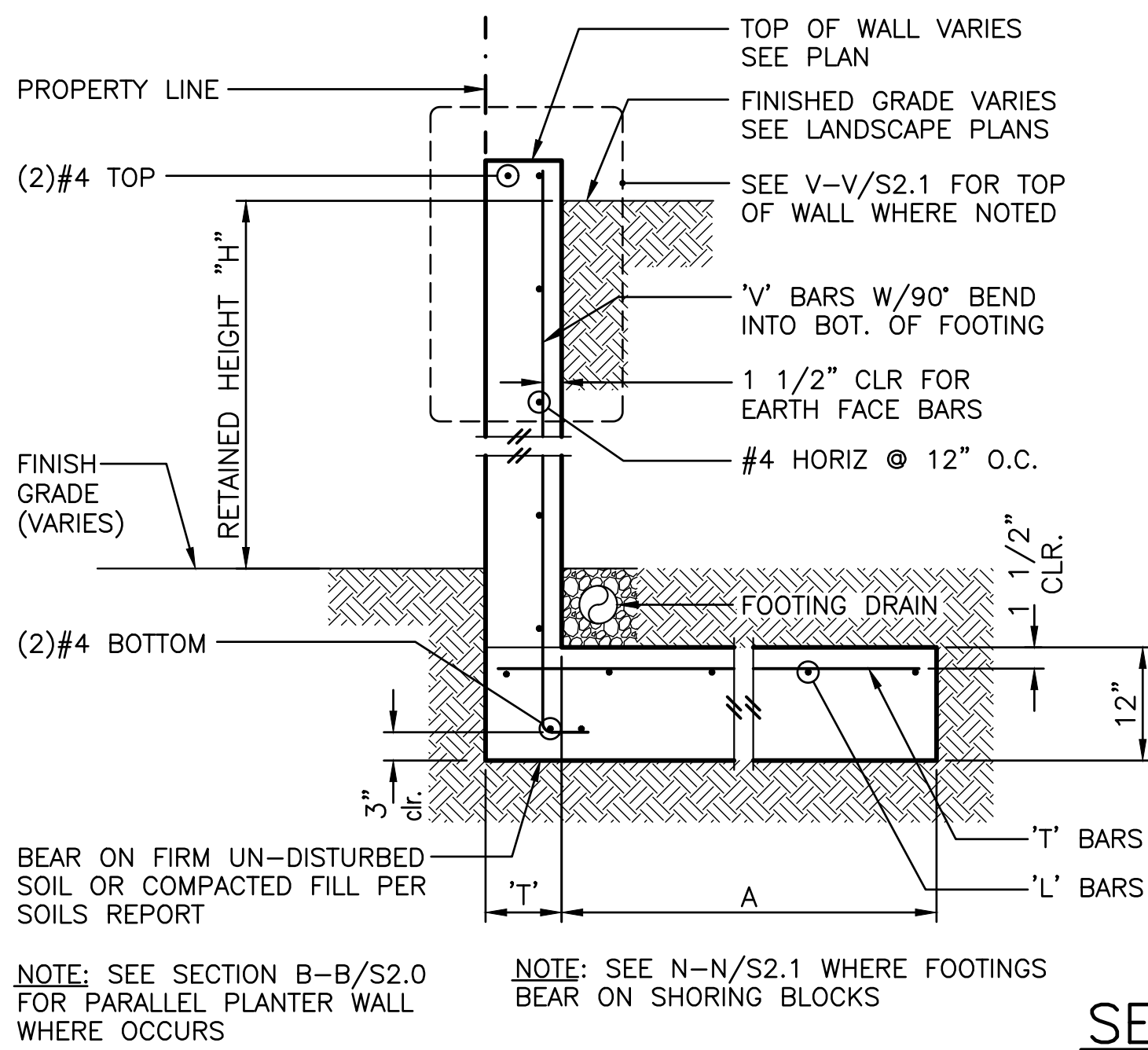
DOUBLE CURTAIN



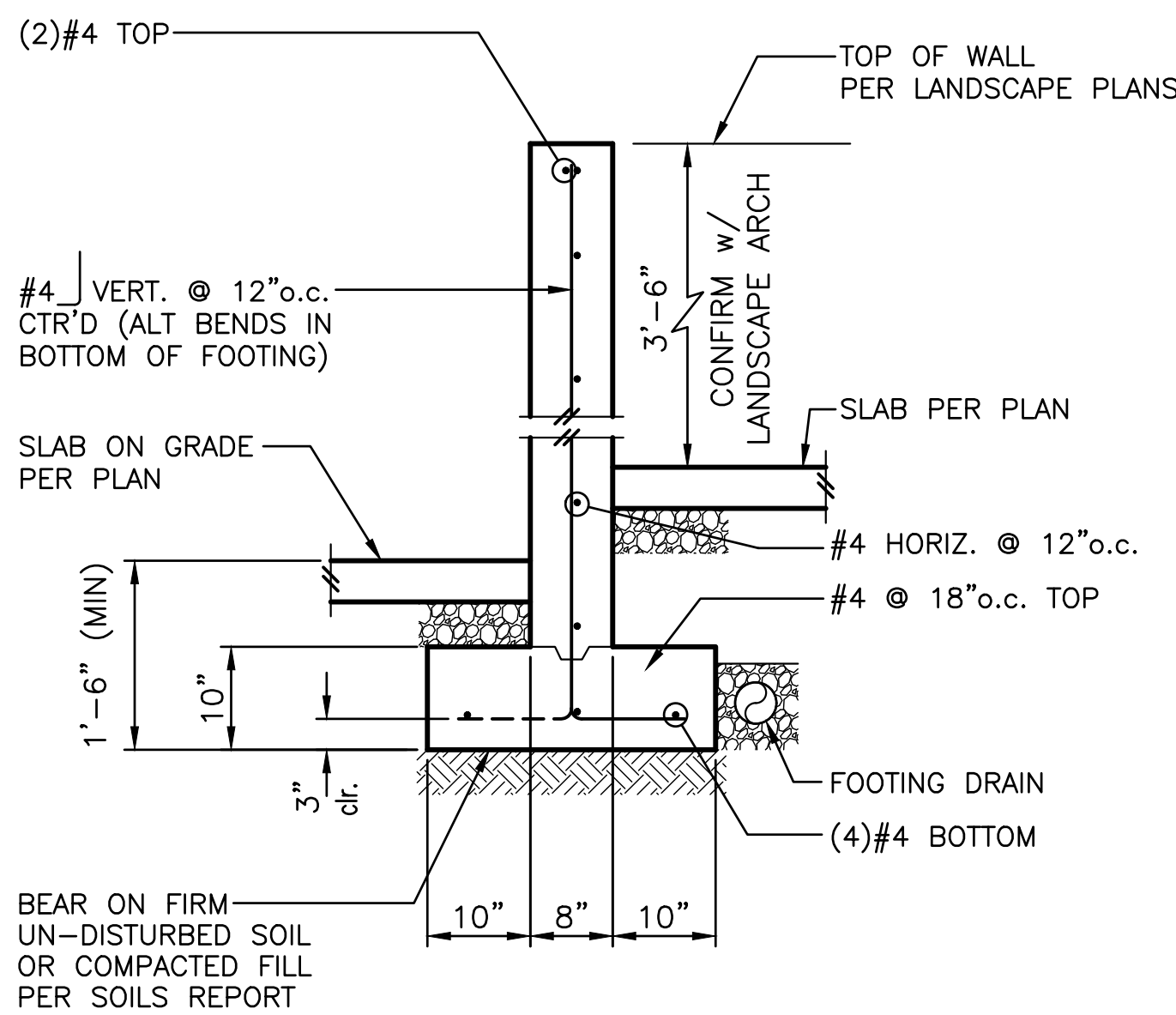
SINGLE CURTAIN

TYPICAL CORNER BARS
AT CONCRETE WALLS AND FOOTINGS
SECTION K-K₁

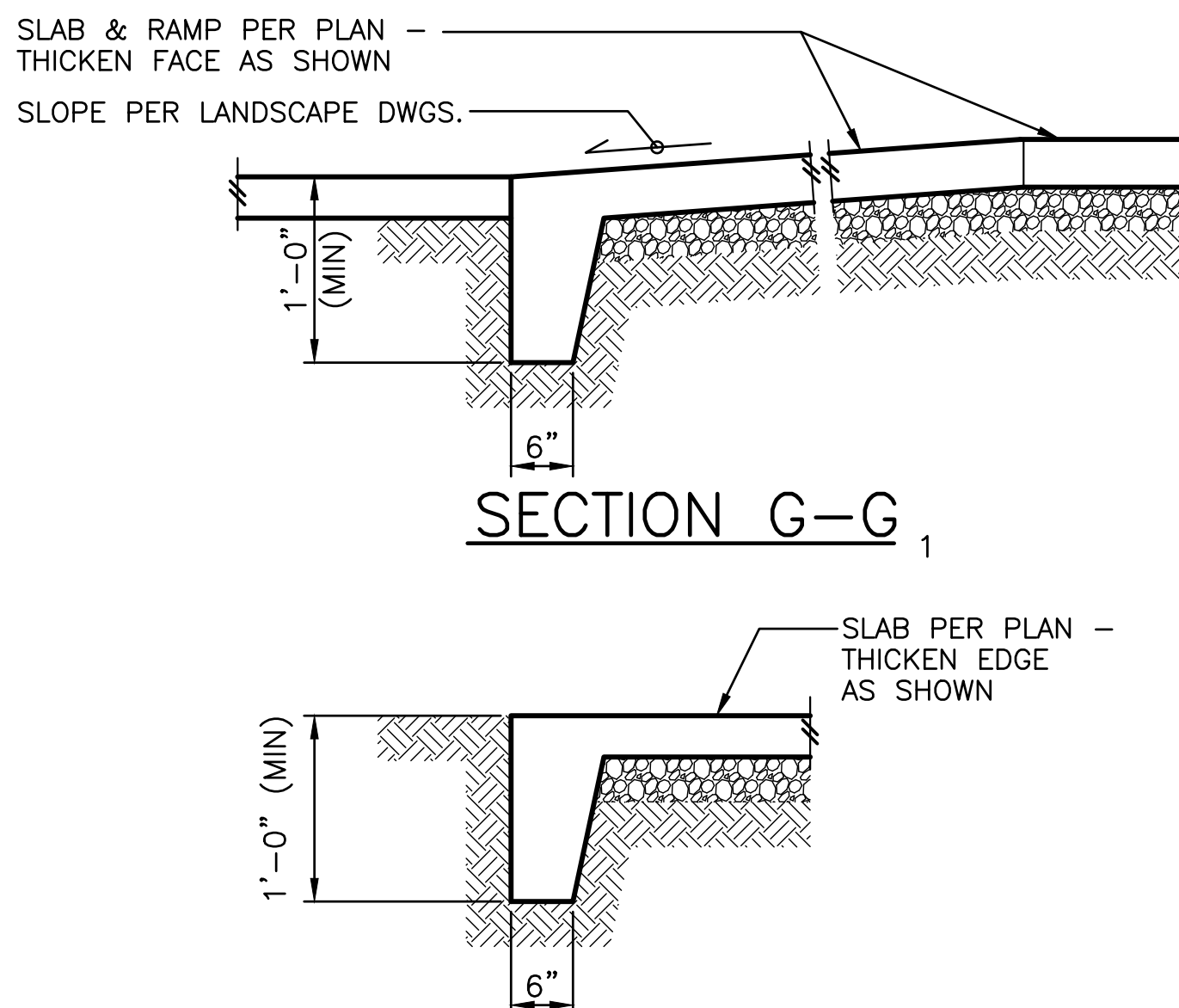
AT ALL WALL AND FOOTING INTERSECTIONS.



SECTION A-A₁



SECTION C-C₁



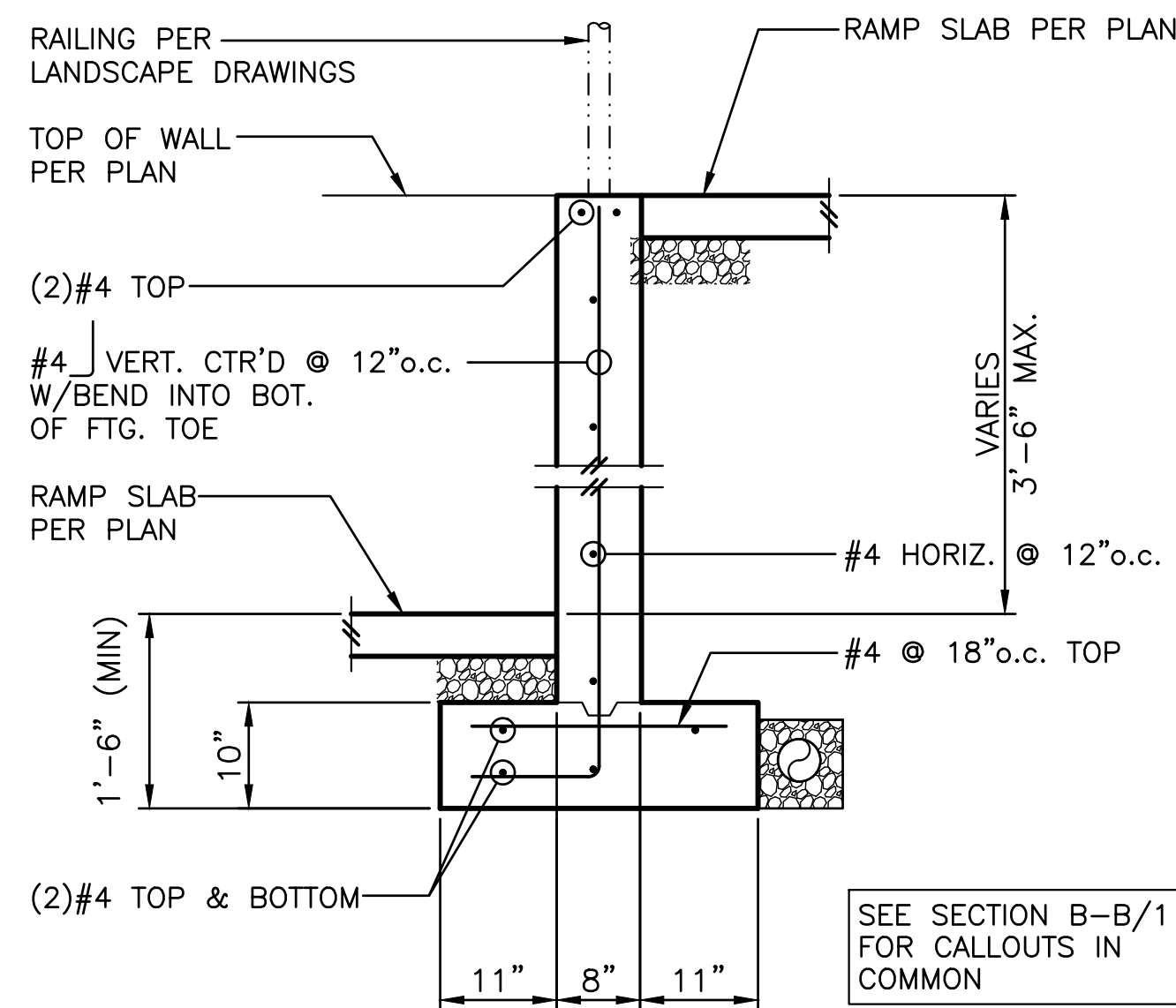
SECTION G-G₁

SECTION H-H₁

RETAINING WALL SCHEDULE

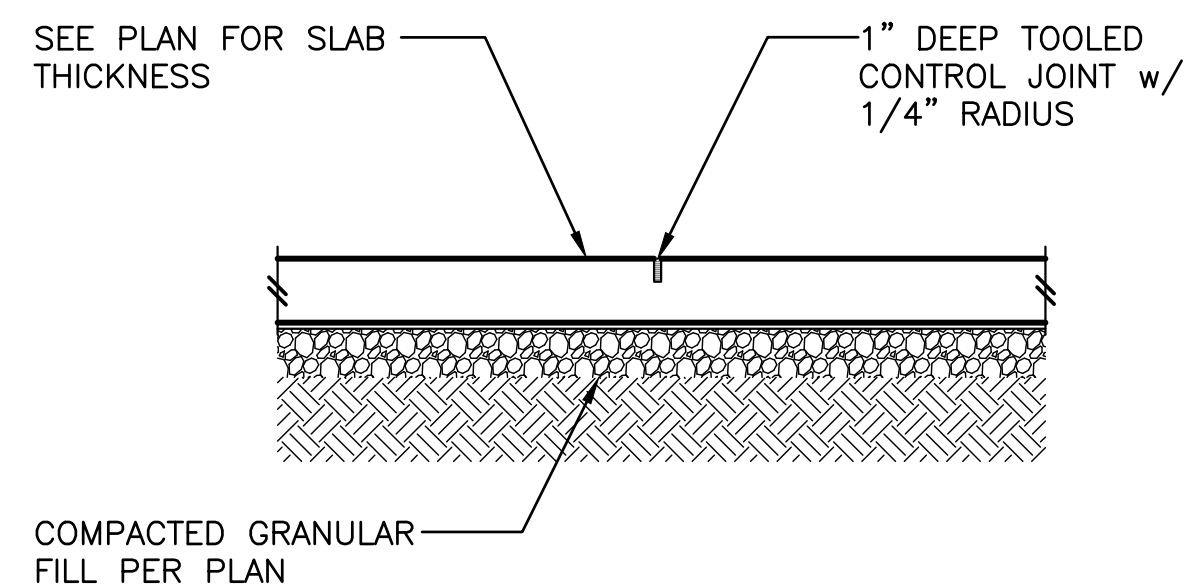
HEIGHT 'H'	A	'W'	'V' BARS	'T' BARS	'L' BARS
4'-0" (MAX.)	2'-6"	6"	#4 @ 18" o.c. CENTERED	#4 @ 18" o.c.	(2)#4
6'-0" (MAX.)	4'-0"	6"	#4 @ 8" o.c. CENTERED	#4 @ 16" o.c.	(5)#4
8'-0" (MAX.)	5'-6"	① 8"	#5 @ 12" o.c. EARTH FACE	#5 @ 12" o.c.	(5)#5
10'-0" (MAX.)	8'-4"	① 8"	5 @ 6" o.c. EARTH FACE	#5 @ 12" o.c.	(8)#5

① SEE DETAIL V-V/S2.1 FOR TOP OF WALL @ 8" STEM.



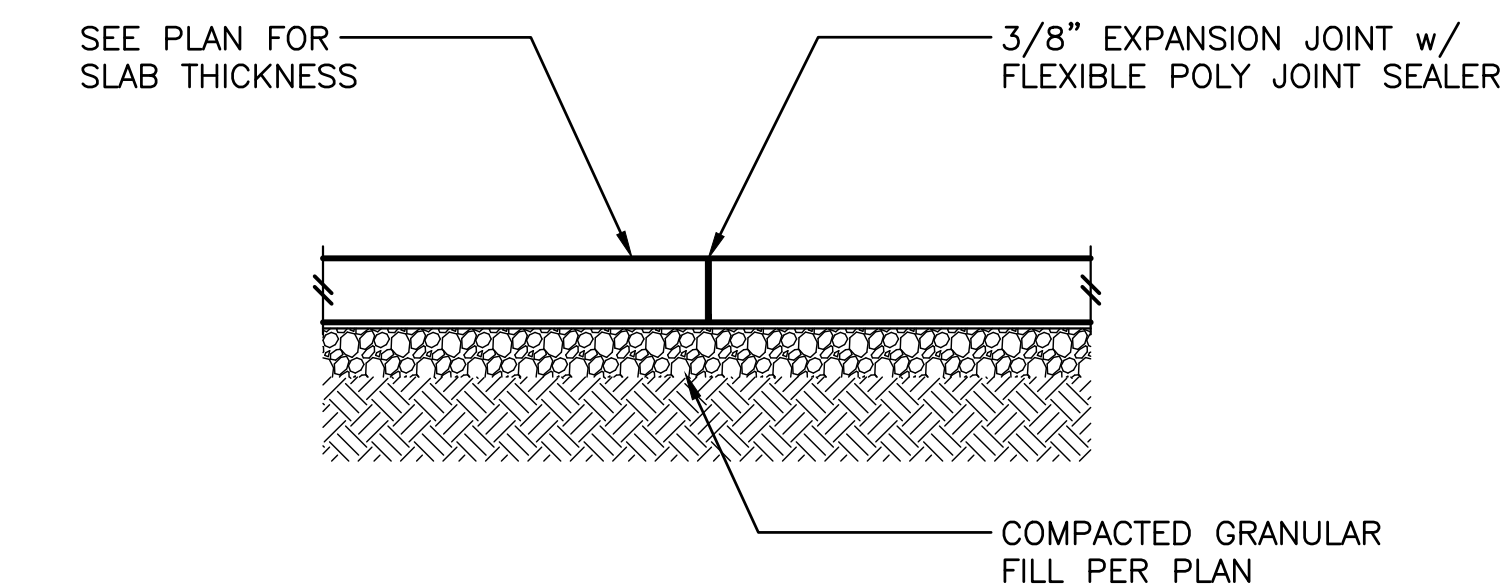
SECTION D-D₁

NOTE: SEE DETAIL O-O/S2.1 WHERE BEARING OVER EXIST CONC WALL



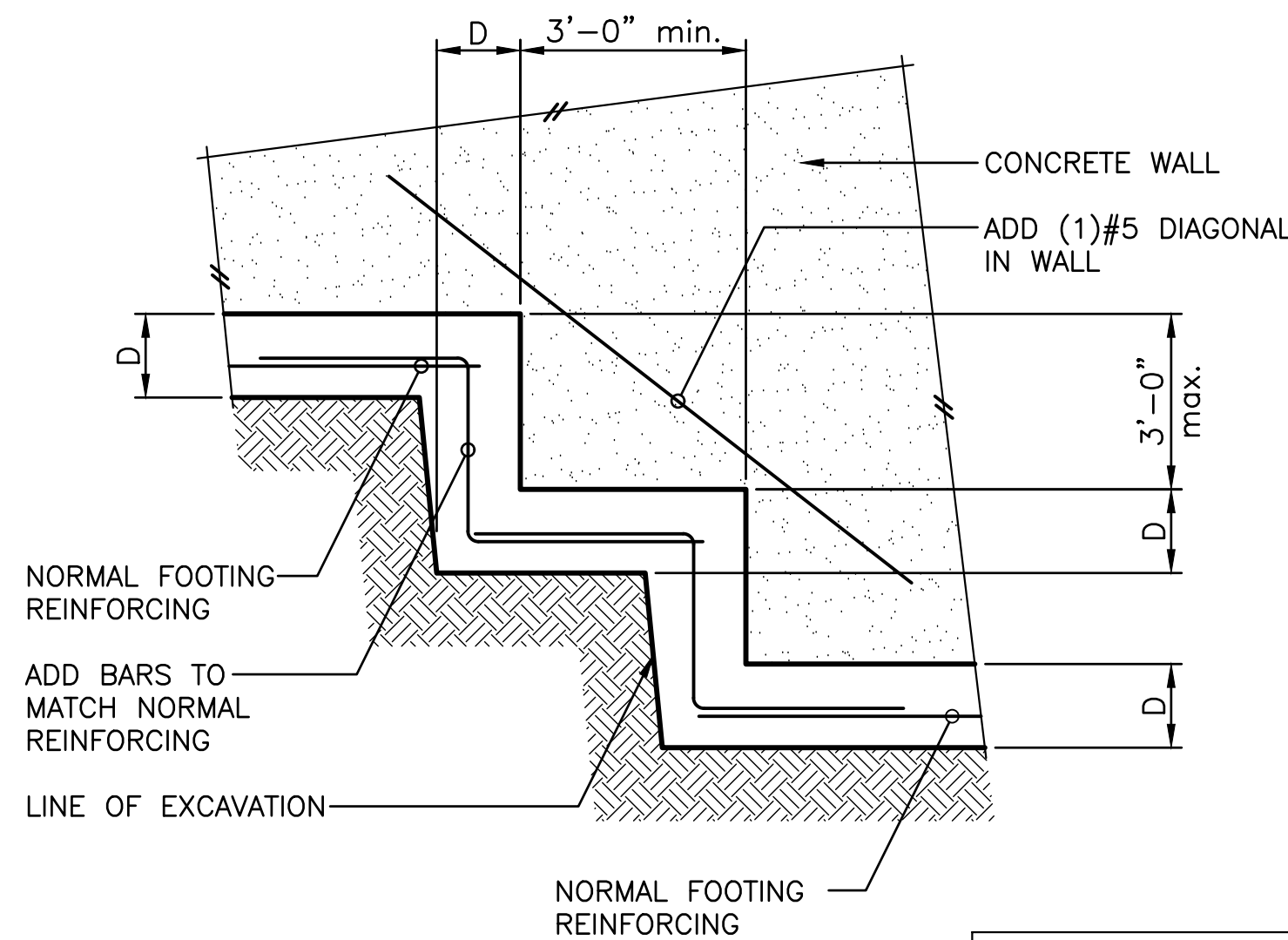
CONTROL JOINT

PROVIDE CONTROL OR CONSTRUCTION JOINTS IN SLABS ON GRADE WHERE SHOWN ON THE LANDSCAPE ARCHITECTURAL DRAWINGS.

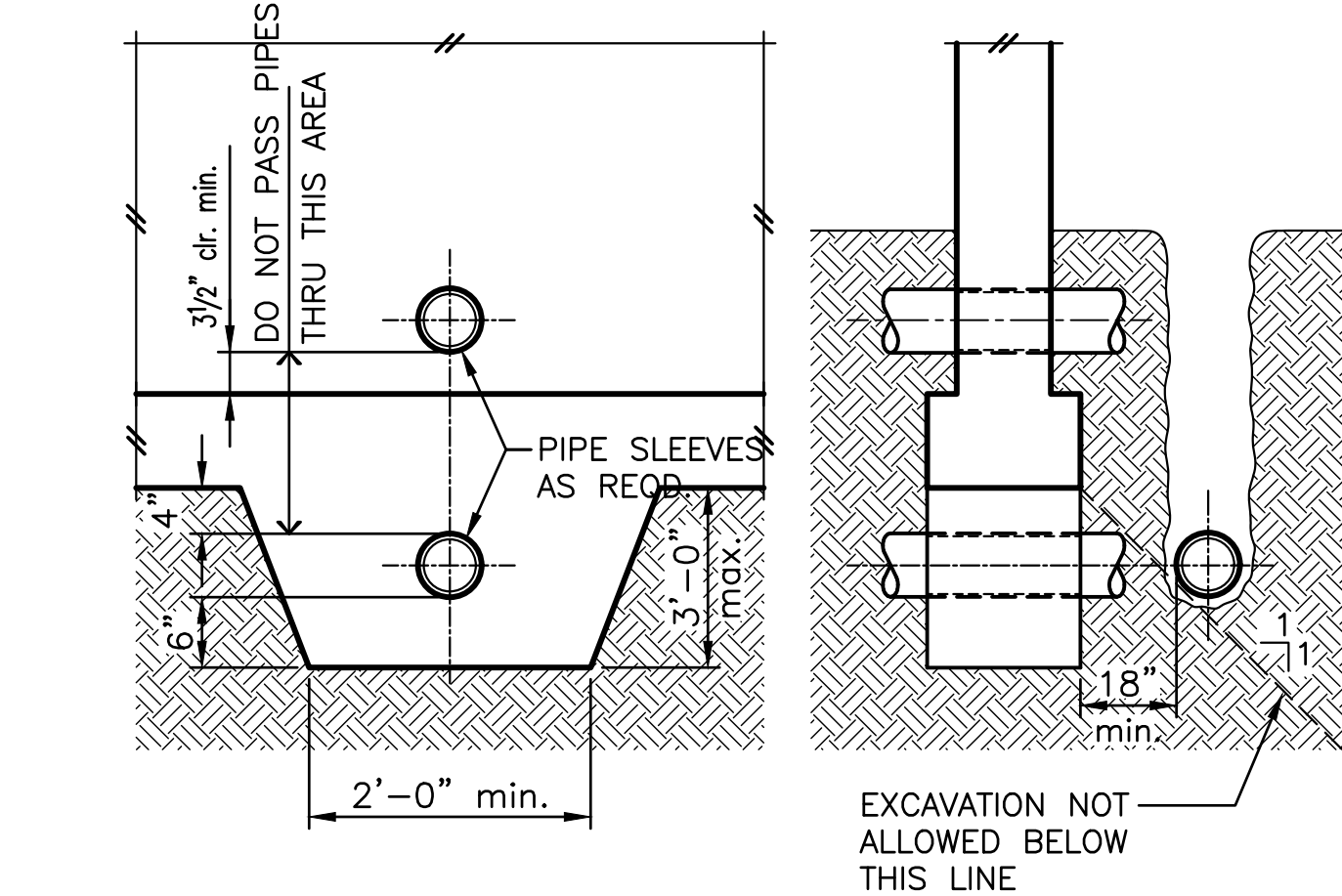


CONSTRUCTION JOINT

TYPICAL SLAB JOINTS
SECTION J-J₁



TYPICAL STEPPED FOOTING
SECTION L-L₁



TYPICAL PIPE AND TRENCH LOCATIONS
SECTION M-M₁

>>>>CAUTION - CALL 811<<<<
UTILITY NOTIFICATION CENTER
BEFORE YOU DIG!
WWW.CALL811.COM

Also, verify all underground utilities not located by the 811 service by using a commercial location service and call SPR Inspection Request Line (206) 664-7034.

3		
2	90% CD SUBMITTAL	01/20/22
1	PERMIT SET	01/28/21
NO.	REVISION - AS BUILT	DATE

REVIEWED: _____
PARK ENGINEER _____ DATE _____
All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.

structural engineering
giraf design
9220 Roosevelt Way NE
Seattle, WA 98115
206.621.0060



Seattle
Parks & Recreation

LITTLE SAIGON

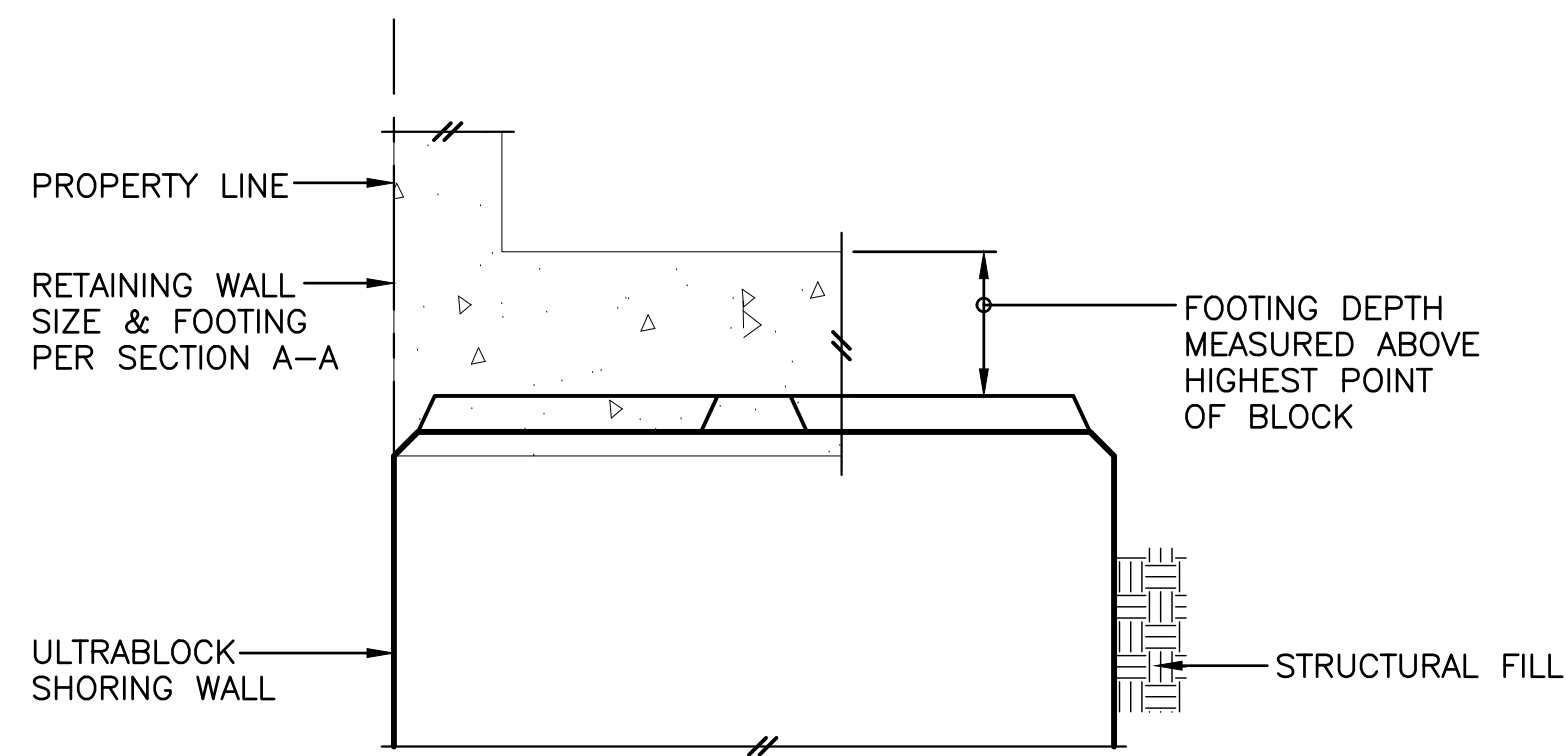
PARK DEVELOPMENT

STRUCTURAL DETAILS

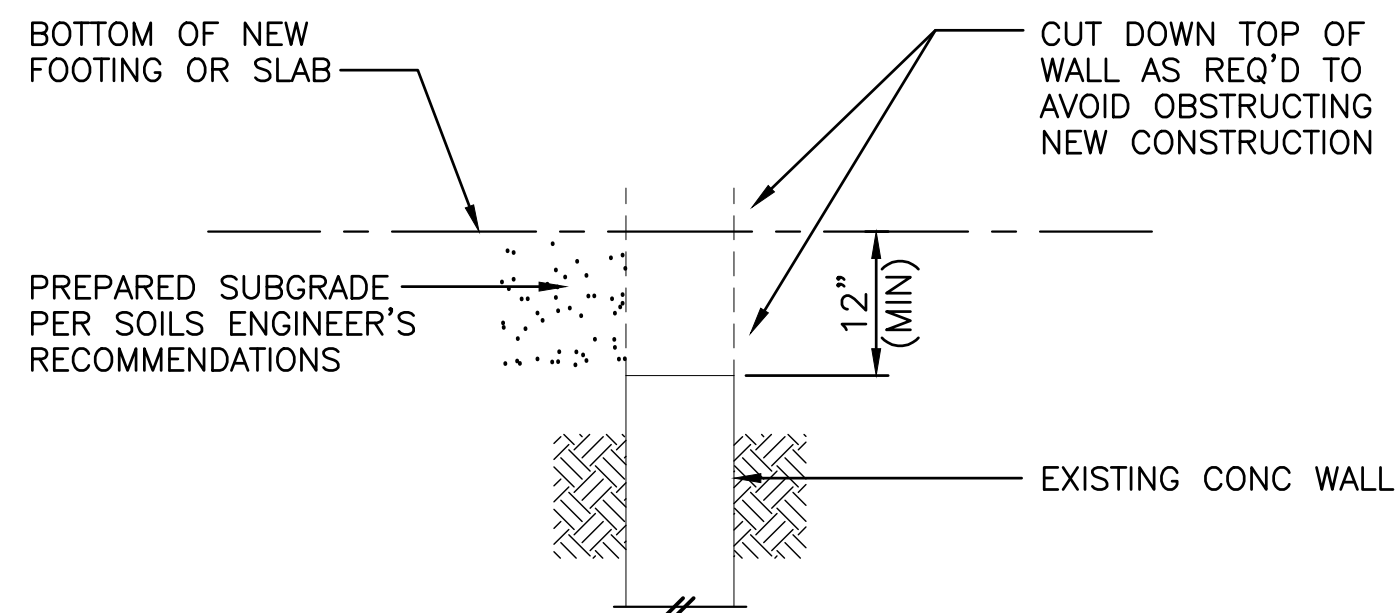
DESIGNED	NJR	DATE	01/20/22
DRAWN	JAS		
CHECKED	NJR		
ORDINANCE NO.	125475		
CONTRACT NO.	2064		
SCALE	AS NOTED		

S 2.0

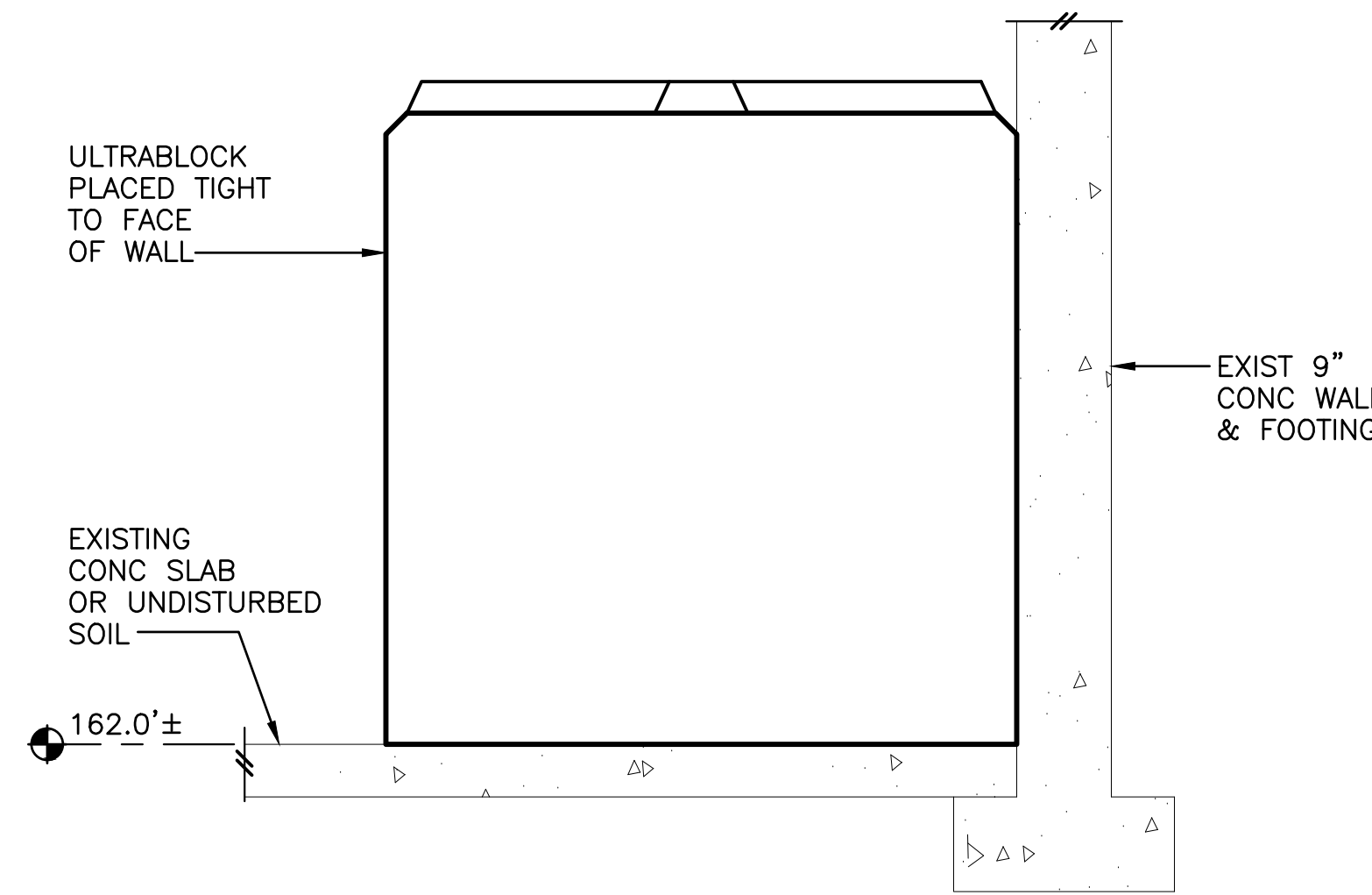
SHEET 21 of 26



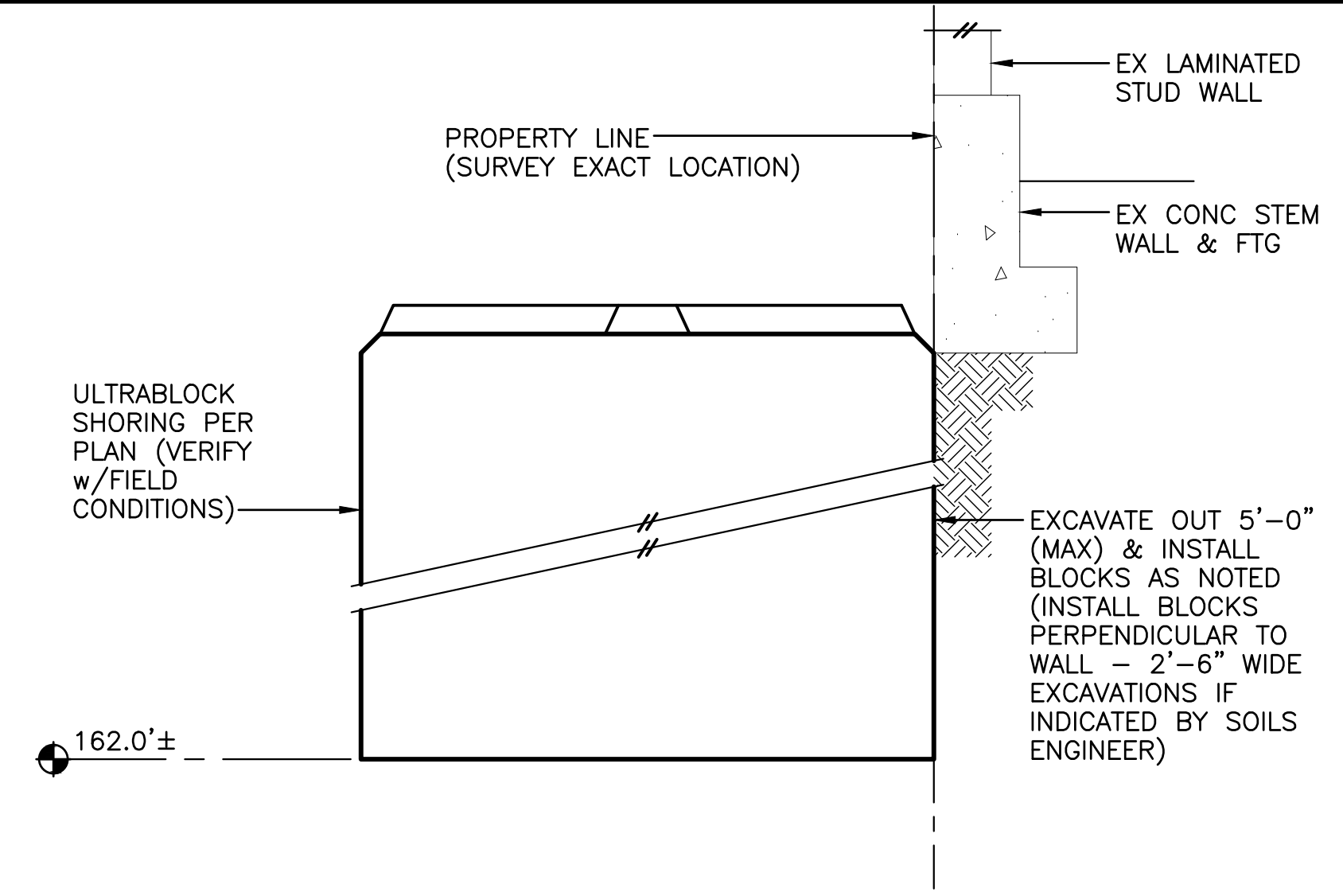
SECTION N-N₃



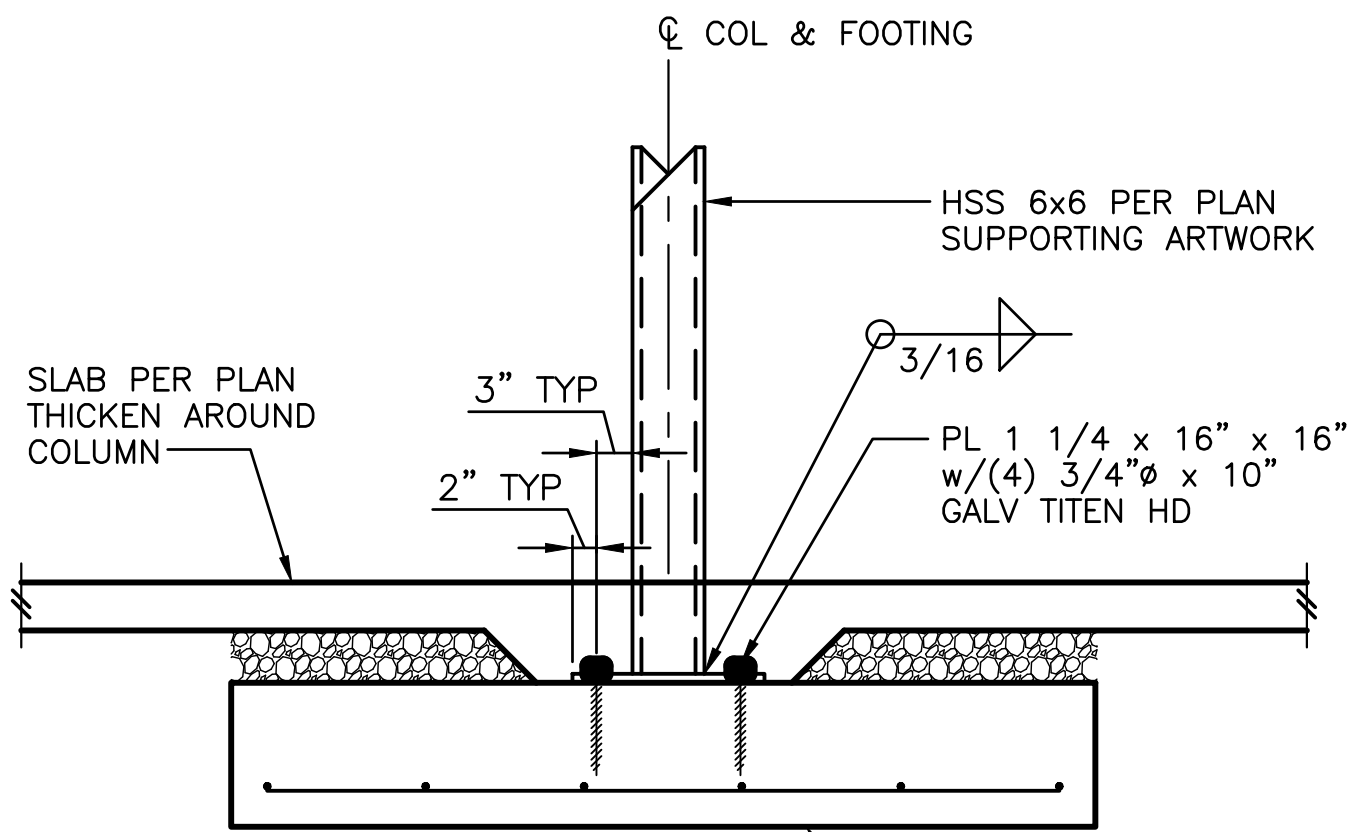
SECTION O-O₃



SECTION P-P₃



SECTION Q-Q₃



SECTION R-R₁

FOOTING SCHEDULE

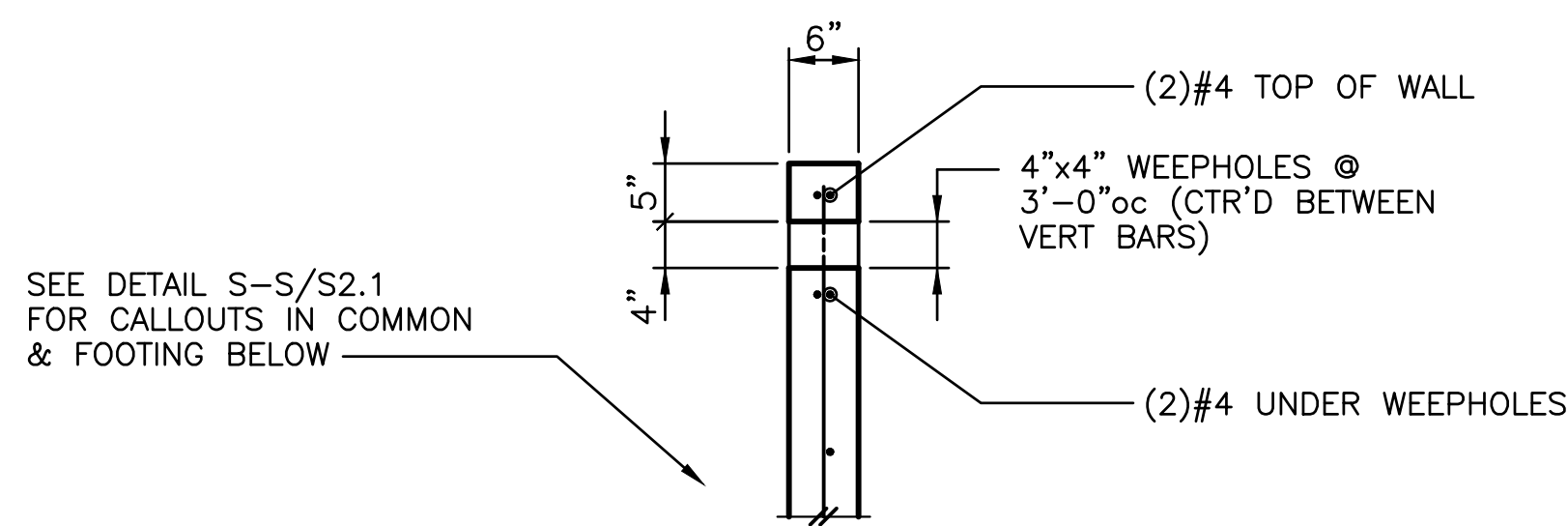
MARK	SIZE (MIN) ^①	REINFORCING (MIN) ^②
FA	5'-0" x 5'-0" x 12"	(5)#5 EACH WAY BOTTOM
FB	6'-0" x 6'-0" x 12"	(6)#5 EACH WAY BOTTOM

NOTES:

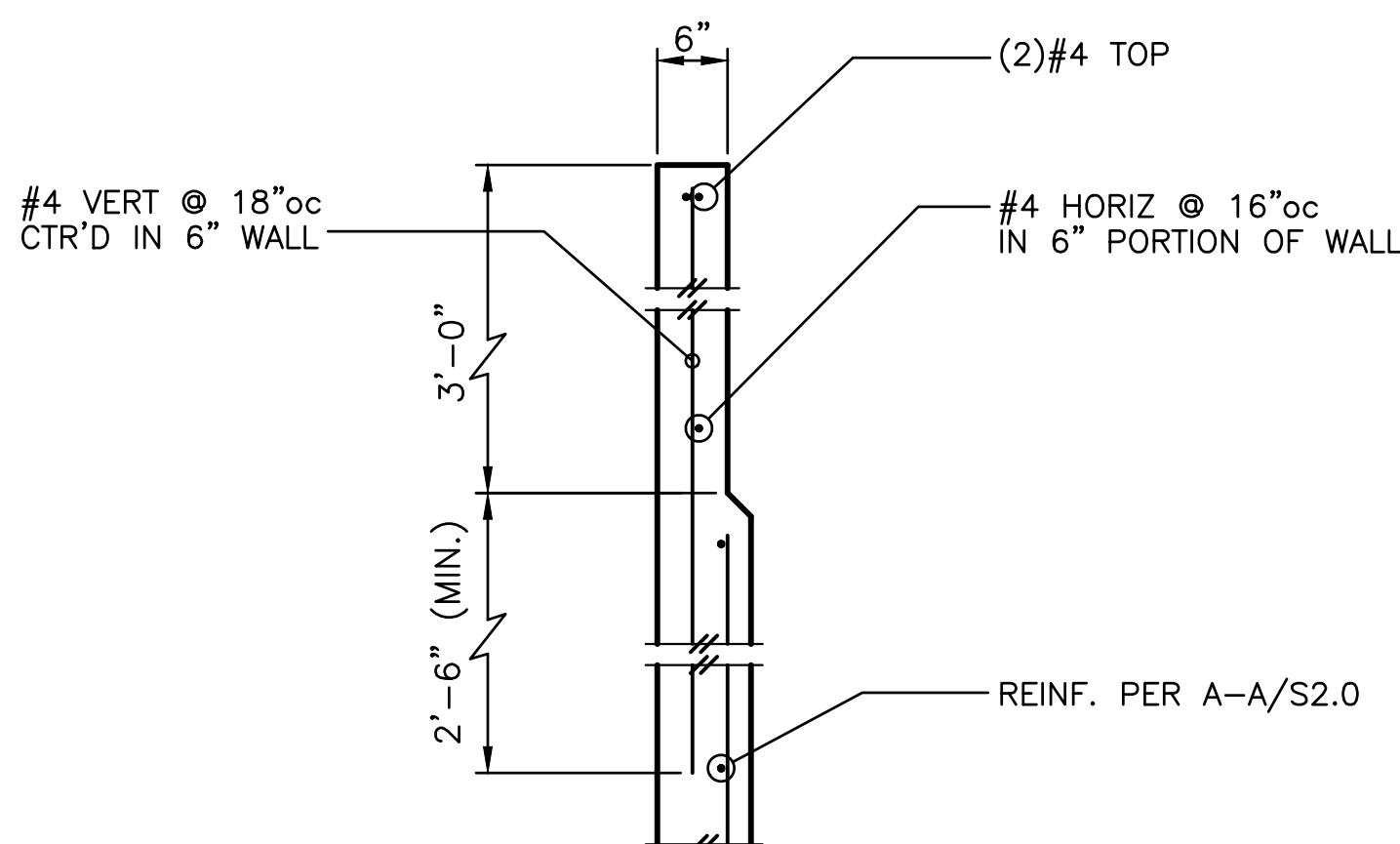
- ① INTEGRATE w/RETAINING WALL FOOTING, WHERE OCCURS
- ② CONTINUE RETAINING WALL REINF THROUGH FOOTING BOT DO NOT COUNT AS PART OF SCHEDULED REINFORCING, WHERE OCCURS

NOTE: SEE DETAIL O-O/S2.1 WHERE BEARING OVER EXISTING CONCRETE WALL

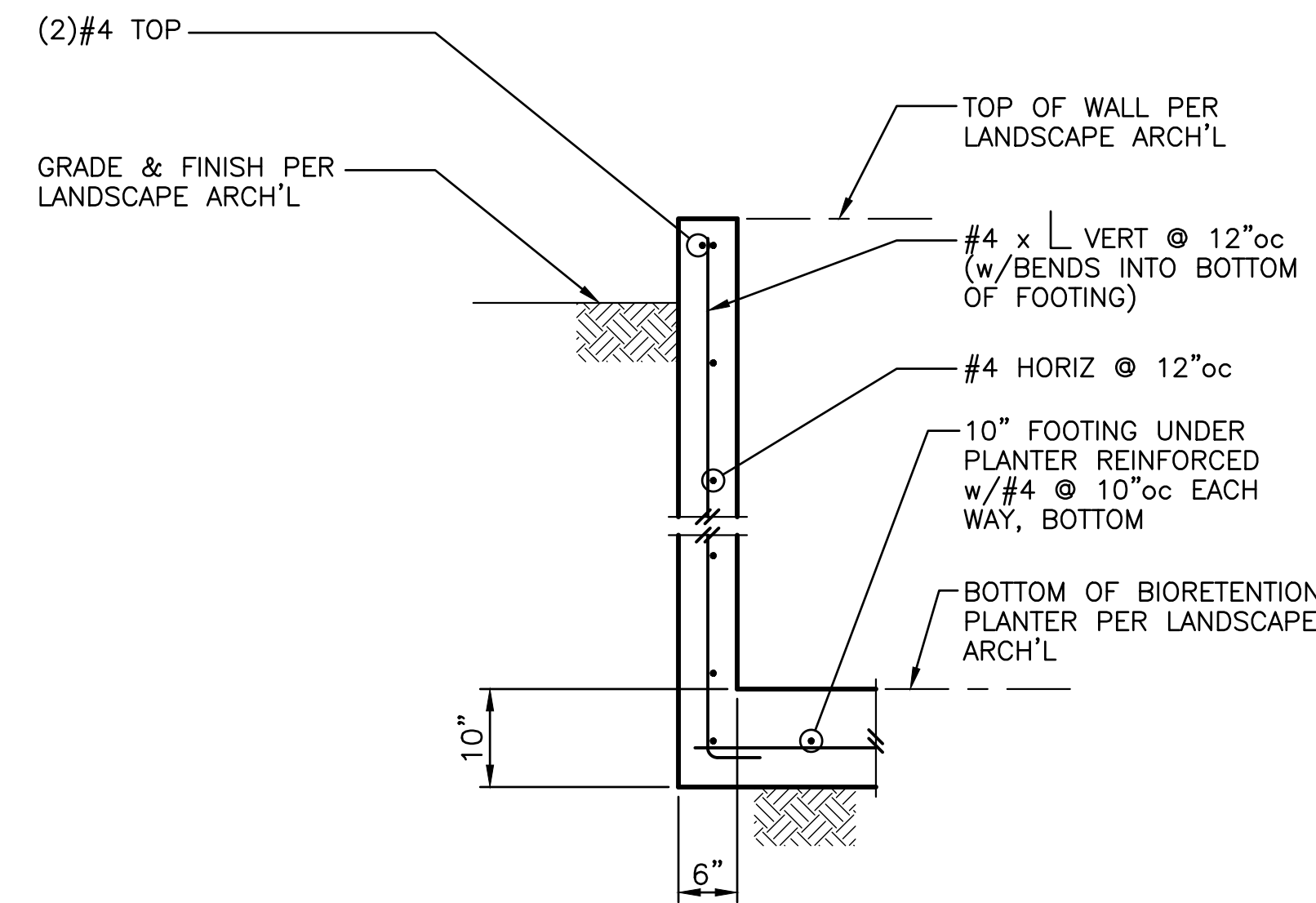
FOOTING SIZE & REINF PER SCHED (INTEGRATE w/RETAINING WALL FOOTING WHERE OCCURS)



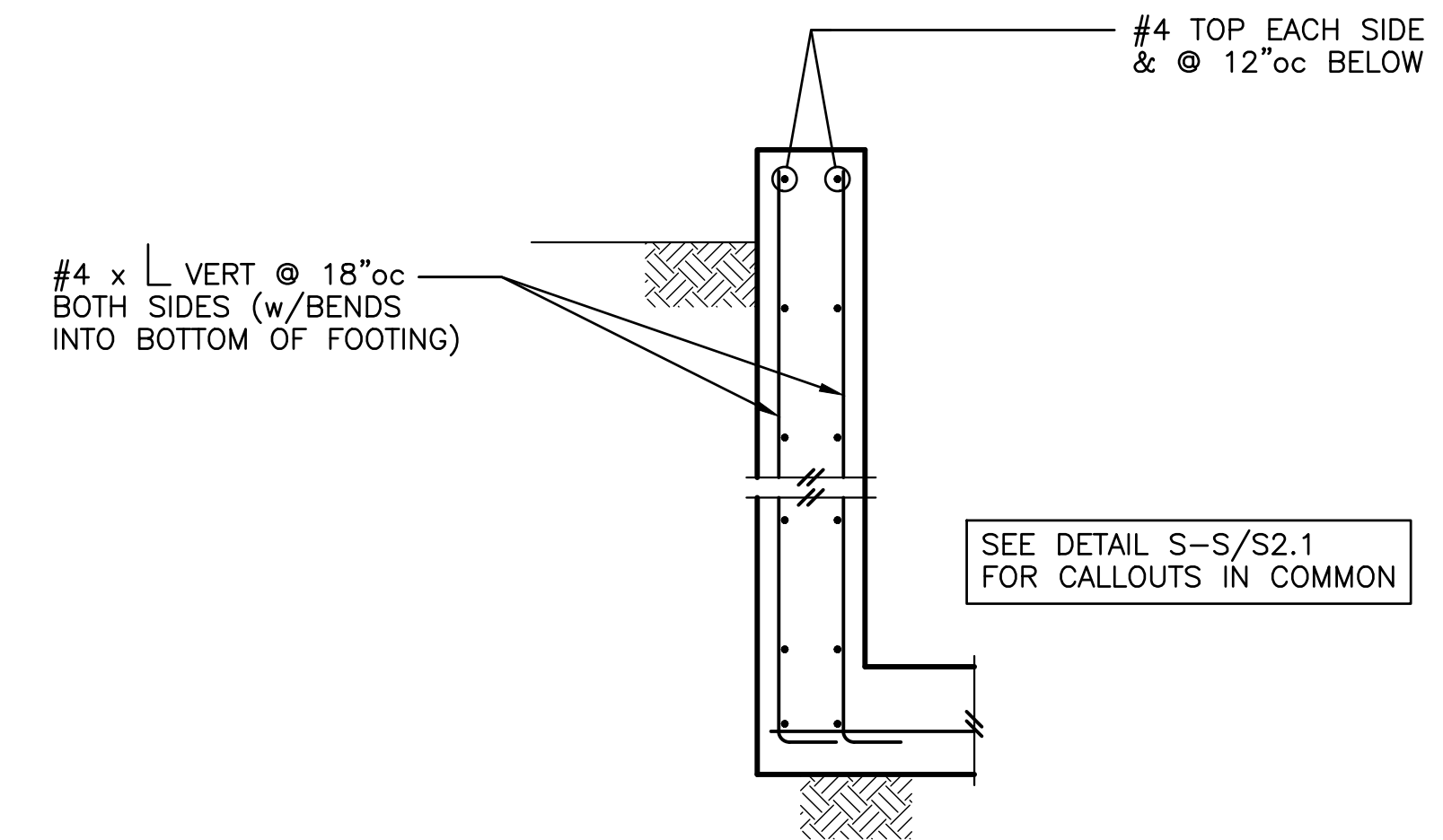
SECTION U-U₁



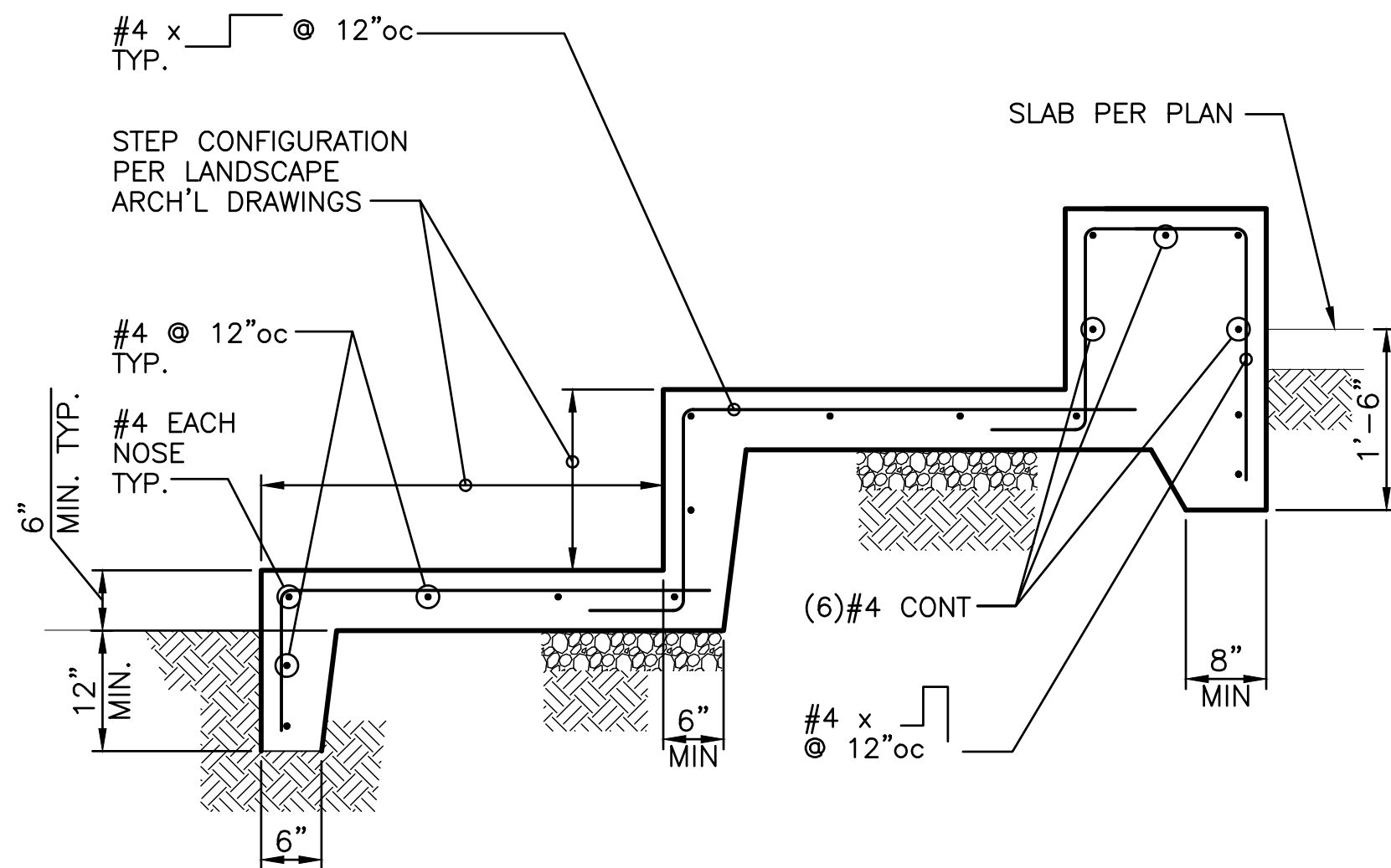
SECTION V-V₁



SECTION S-S₁



SECTION T-T₁



SECTION W-W₁

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BEFORE YOU DIG!
WWW.CALL811.COM

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3		
2	90% CD SUBMITTAL	01/20/22
1	PERMIT SET	01/28/21
NO.	REVISION - AS BUILT	DATE

REVIEWED: _____ DATE _____
 PARK ENGINEER

All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.

structural engineering
giraf design
 9220 Roosevelt Way NE
 Seattle, WA 98115
 206.621.0060



Seattle
 Parks & Recreation

LITTLE SAIGON

PARK DEVELOPMENT

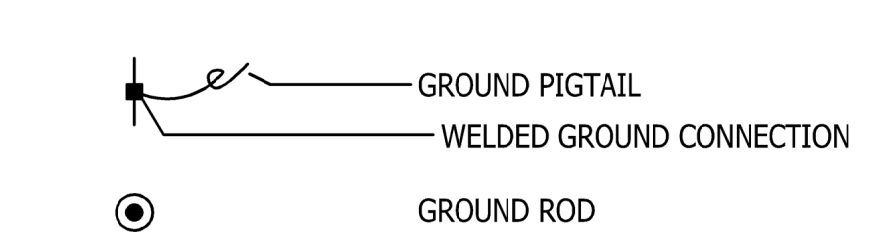
STRUCTURAL DETAILS

DESIGNED NJR	DATE 01/20/22
DRAWN JAS	SHEET 22 of 26
CHECKED NJR	
ORDINANCE NO. 125475	S 2.1
CONTRACT NO. 2064	
SCALE AS NOTED	

ABBREVIATIONS

A	AMPERE
AC	ABOVE COUNTER, ALTERNATING CURRENT
AF	AMP FUSE; AMP FRAME
AF	ABOVE FINISHED FLOOR
AHJ	AUTHORITIES HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CURRENT
AL	ALUMINUM
AS	AMP SWITCH
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
C	CONDUIT; DEGREES CELSIUS
CAT	CATEGORY
CCTV	CLOSED CIRCUIT TELEVISION
CU	COPPER
DWG	DRAWING
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR, END CAP
EF	EXHAUST FAN
ELEC	ELECTRICAL
EPO	EMERGENCY POWER OFF
EQ, EQUIP	EQUIPMENT
EWIC	ELECTRIC WATER COOLER
EWI	ELECTRIC WATER HEATER
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OWNER
FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR
FOIO	FURNISHED BY OWNER INSTALLED BY OWNER
FSD	FIRE SMOKE DAMPER
FT	FOOT, FEET
G, GND	GROUND
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSE POWER
IBC	INTERNATIONAL BUILDING CODE
JB	JUNCTION BOX
kVA	KILOVOLT AMPERE
KW	KILOWATT
KCMIL	THOUSAND CIRCULAR MILS
LCP	LIGHTING CONTROL PANEL
LTG	LIGHTING
LF	LINEAL FOOT
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
N	NEUTRAL
(N)	NEW
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OC	ON CENTER
OH	OVERHEAD LINE
OS	OCCUPANCY SENSOR
PIV	POST INDICATOR VALVE
QTY	QUANTITY
REV	REVISION
SCL	SEATTLE CITY LIGHT
SF	SQUARE FOOT, SUPPLY FAN
SMR	SURFACE METAL RACEWAY
SPEC	SPECIFICATION
TBB	TELECOMMUNICATIONS BACKBOARD
TBD	TO BE DETERMINED
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
W	WATT; WIRE
WP	WEATHERPROOF
XFMR	TRANSFORMER
Y	WYE

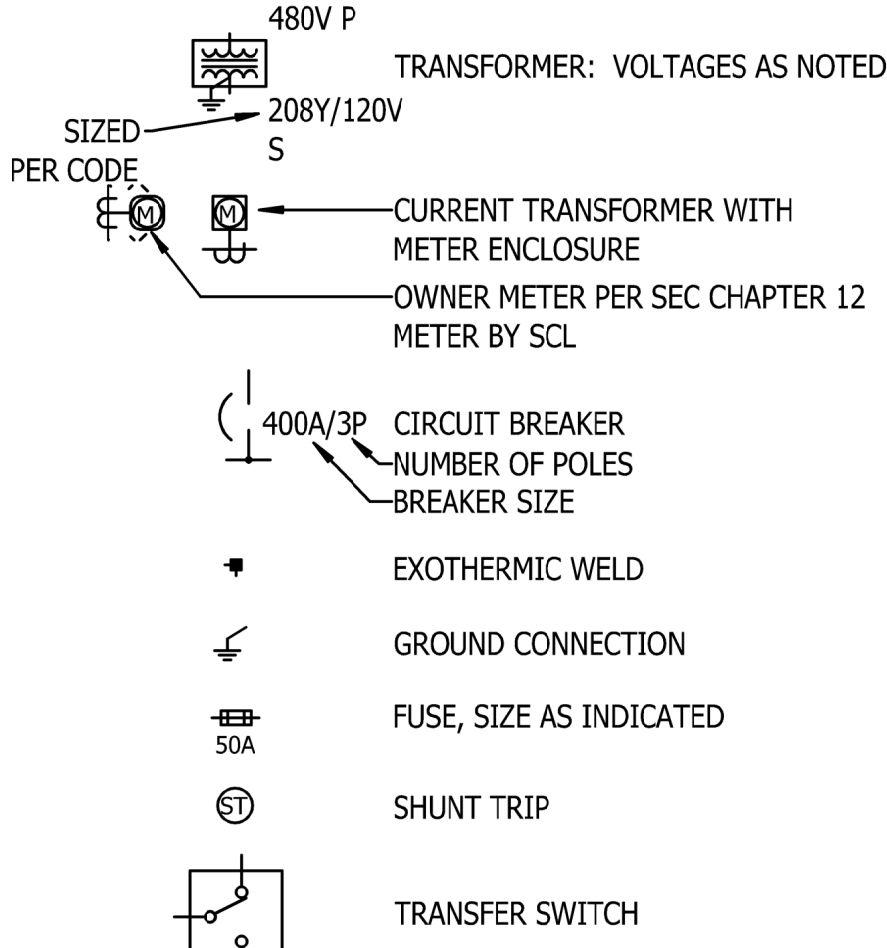
GROUNDING



EXISTING CONSTRUCTION

EXISTING	DEMO	NEW	DESCRIPTION
			DUPLEX RECEPTACLE

SCHEMATIC / ONE LINE

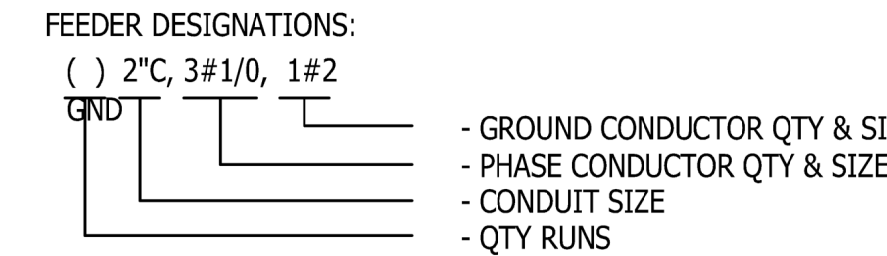
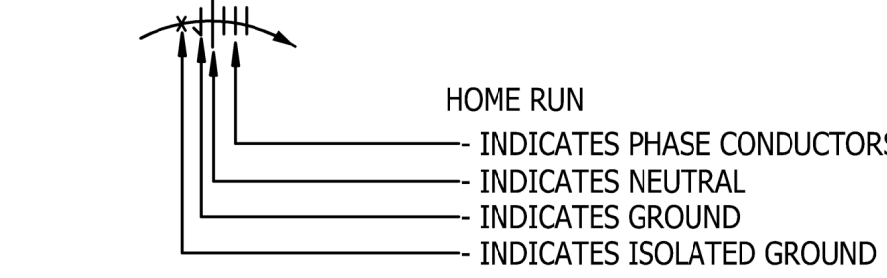


GENERIC

	EQUIPMENT TAG
	FLAG NOTE
	DETAIL / PLAN IDENTIFIER
	REVISION CALLOUT
	FEEDER TAG

WIRING

	CONDUIT, EXPOSED OR CONCEALED
	CONDUIT (UNDERGROUND)
	CONDUIT OR CABLE DOWN
	CONDUIT OR CABLE UP
	CABLE CAPPED
	CONDUIT CONTINUATION/BREAK



MISCELLANEOUS

	KEY PAD
	PUSH BUTTON DOOR OPERATOR
	EMERGENCY POWER OFF SWITCH
	CLOCK
	EQUIPMENT AS NOTED
	DOOR HOLDER - CLOSER
	DOOR RELEASE
	INTERCOM
	DESTINATION DISPATCH
	THERMOSTAT

POWER

	RECEPTACLE OUTLET; SUBSCRIPT NUMBER INDICATES PANEL CIRCUIT NUMBER. SUBSCRIPT LETTER INDICATES: WP - WEATHERPROOF USB- DUPLEX RECEPTACLE WITH USB PORT T - TAMPERPROOF RECEPTACLE
	GFCI FOURPLEX RECEPTACLE
	GFCI DUPLEX RECEPTACLE
	FOURPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE - HALF SWITCH
	CEILING DUPLEX RECEPTACLE
	ABOVE COUNTER FOURPLEX RECEPTACLE
	ABOVE COUNTER DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT
	QUADPLEX RECEPTACLE ON EMERGENCY CIRCUIT
	POKE-THRU, DEVICES AS INDICATED F - FLUSH MOUNTED
	FLOOR BOX, DEVICES AS INDICATED
	EQUIPMENT CONNECTION
	SPECIAL PURPOSE RECEPTACLE, DEVICE RATING AS SHOWN
	J-BOX
	NON-FUSED DISCONNECT SIZE AS INDICATED
	FUSED DISCONNECT 40/60 - AMP SWITCH SIZE (60 AS) AMP FUSE SIZE (40 AF)
	MOTOR STARTER
	COMBINATION MOTOR STARTER - DISCONNECT SWITCH
	SHUNT TRIP CIRCUIT BREAKER
	MOTOR CONNECTION
	MOTOR CONNECTION - 3 PHASE
	480Y/277V ELECTRICAL PANEL
	208Y/120V ELECTRICAL PANEL
	RESIDENTIAL PANEL
	PANEL, TYPE AS NOTED ECP - ELEVATOR CONTROL PANEL LCP - LIGHTING CONTROL PANEL
	SURFACE MOUNTED RACEWAY WITH DEVICE AS SHOWN, OR WITH SPACING INDICATED
	DOOR CONTACT









































DATA

	BROADBAND COAX OUTLET W/ (1) RG-6 CABLE
	WALL PHONE OUTLET, MOUNT AT +48", W/ (1) CAT5E CABLE
	TELECOM OUTLET SUBSCRIPT INDICATES: X - QTY OF CAT5E CABLES; (1) CAT5E CABLE UON WAP - WIRELESS ACCESS POINT; (1) CAT5E CABLE UON
	CAMERA
	CARD READER
	INTERCOM STATION - FOR RESCUE ASSISTANCE. CONNECT TO HEAD-END SYSTEM WITH CAT5E CABLE.
	COMMUNICATIONS BACKBOARD (BACKBOARD LENGTH AS INDICATED)
	RADIO READER
	SMART BOX (APARTMENT DISTRIBUTION FRAME) WITH RECEPTACLE

LIGHTING

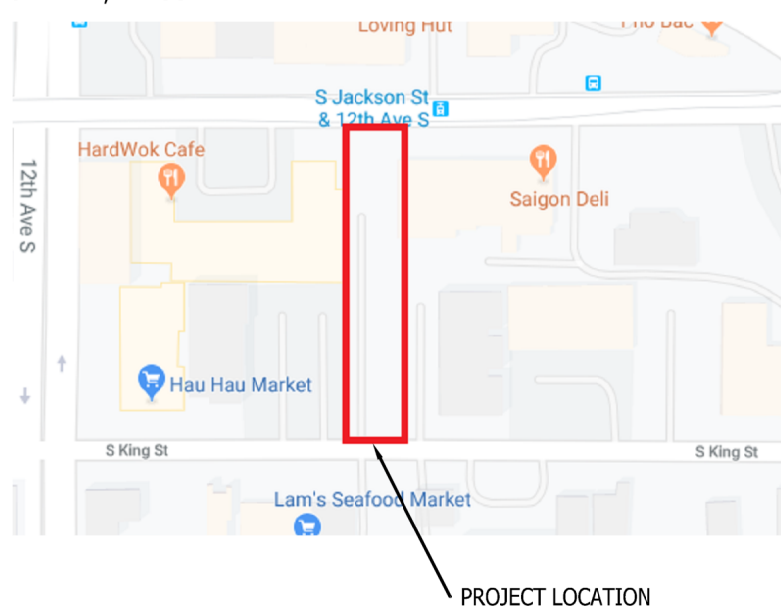
	WALL SWITCH - SUBSCRIPT INDICATES: 3 = 3-WAY 4 = 4-WAY LV = LOW-VOLTAGE NS = NIGHT SETBACK a = LOWER CASE LETTERS INDICATES SWITCHING GROUP DESIGNATION T = TIMER OS = OCCUPANCY SENSOR
	DIMMER SWITCH
	DAYLIGHT SENSOR
	OCCUPANCY SENSOR, CEILING MOUNTED
	OCCUPANCY SENSOR, WALL MOUNTED
	LIGHT FIXTURE, SIZES VARY. REFER TO FIXTURE TYPE. TYPICAL ALL FIXTURES: ADJACENT NUMBER INDICATES CIRCUIT GROUPING LOWER CASE LETTER INDICATES SWITCHING GROUP
	FIXTURE ON EMERGENCY CIRCUIT SIZE VARIES, REFER TO FIXTURE TYPE.
	WALL-MOUNTED FIXTURE SIZE VARIES, REFER TO FIXTURE TYPE.
	WALL MOUNTED FIXTURE ON EMERGENCY CIRCUIT. SIZE VARIES, REFER TO FIXTURE TYPE.
	STRIP FIXTURE SIZE VARIES, REFER TO FIXTURE TYPE.
	STRIP FIXTURE ON EMERGENCY CIRCUIT SIZE VARIES, REFER TO FIXTURE TYPE.
	RECESSED DOWNLIGHT FIXTURE
	RECESSED WALL WASH/ADJUSTABLE FIXTURE
	DOWNLIGHT ON EMERGENCY CIRCUIT
	STEP LIGHTS
	TRACK LIGHTING, LENGTH AS INDICATED
	PENDANT LIGHT
	WALL SCONCE
	ILLUMINATED EXIT SIGN - FACES & DIRECTION OF ALL ARROWS AS SHOWN, WHERE INDICATED
	TROFFER
	SURFACE DOWNLIGHT
	SURFACE WALL WASH/ADJUSTABLE DOWNLIGHT
	LINEAR PENDANT
	LINEAR WALL WASH

FIRE ALARM

CLG MTD	WALL MTD	
N/A		MANUAL PULL STATION
N/A		FIRE ALARM HORN
		FIRE ALARM STROBE
		FIRE ALARM SPEAKER
		FIRE ALARM HORN/STROBE
		FIRE ALARM REMOTE ANNUNCIATION
		FIRE ALARM CONTROL PANEL
		FIRE ALARM SMOKE DETECTOR
		FIRE ALARM SMOKE DUCT DETECTOR
		RESIDENTIAL COMBO SMOKE ALARM/ CO DETECTOR
		FIRE ALARM HEAT DETECTOR
		COMBINATION SMOKE/FIRE DAMPER
		FIRE KNOX BOX
		TAMPER SWITCH
		MAGNETIC DOOR HOLD OPEN
		DOOR RELEASE
		DOOR HOLDER-CLOSER
		ALARM SWITCH
		PRESSURE SWITCH
		VALVE
		FLOW SWITCH

PROJECT ADDRESS:

1222 S KING ST.
SEATTLE, WA 98144



LOCATION/SITE MAP

SCALE: NOT TO SCALE

ELECTRICAL DRAWING INDEX

SHEET NUMBER	SHEET TITLE	SHEET SCALE	90% CD SUBMITTAL
			1/20/2022
E0.0	ELECTRICAL LEGEND	NTS	X
E1.0	ELEC SITE PLAN	1"=10'-0"	X
E2.0	ELEC DETAILS	NTS	X
E3.0	LIGHTING ENERGY CODE	NTS	X

OUTLET MOUNTING HEIGHTS

SPECIAL OUTLET HEIGHTS ARE SHOWN ON THE ELECTRICAL DRAWINGS OR ON THE ARCHITECTURAL DRAWINGS. IF SPECIAL OUTLET HEIGHTS ARE NOT SHOWN OR REQUIRED, LOCATE OUTLETS AS NOTED BELOW. OUTLET HEIGHTS ARE MEASURED FROM THE CENTERLINE OF THE OUTLET TO THE FINISHED FLOOR, UNO.	
RECEPTACLES	+18 INCHES VERTICAL
LIGHT SWITCHES	+48 INCHES SET VERTICAL
PANEL BOARDS	+4 FEET TO THE HIGHEST CIRCUIT BREAKER ON PANEL
RESI PANEL BOARDS	+4 FEET TO THE HIGHEST CIRCUIT BREAKER ON PANEL
ADA PANEL BOARDS	+4 FEET TO THE HIGHEST CIRCUIT BREAKER ON PANEL
TELECOM OUTLET-DESK	+18 INCHES VERTICAL
TELECOM OUTLET-WALL	+18 INCHES VERTICAL
MANUAL STATION	+18 INCHES VERTICAL
FIRE ALARM CONTROL PANEL	+6 FEET TO TOP
FIRE ALARM VISUAL ALARM	+80 INCHES OR 6 INCHES BELOW CEILING, WHICHEVER IS LOWER
LIGHT	LOWER
FIRE ALARM SPEAKER HORN, CHIME	+80 INCHES OR 6 INCHES BELOW CEILING, WHICHEVER IS LOWER

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BEFORE YOU DIG!

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4	90% CD SUBMITTAL	01/20/22
3	90% CD CHECK SET	11/02/21
2	60% CD SUBMITTAL	01/27/21
1		
NO.	REVISION - AS BUILT	DATE

REVIEWED: PARK ENGINEER DATE
All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.

RUSHING
Engineering - Essentials - Delivery
1725 WESTLAKE AVE N, SUITE 300
SEATTLE, WA 98109
P: (206) 285-7100 F: (206) 285-7111

Seattle
Parks & Recreation

LITTLE SAIGON

PARK DEVELOPMENT

ELECTRICAL LEGENDS

DESIGNED	ND & CS	DATE	01/20/2022
DRAWN	ND & CS		
CHECKED	AH & TT	SHEET	23_of_26
ORDINANCE NO.	125475		E0.0
CONTRACT NO.	2064		
SCALE	NTS		

GENERAL NOTE:

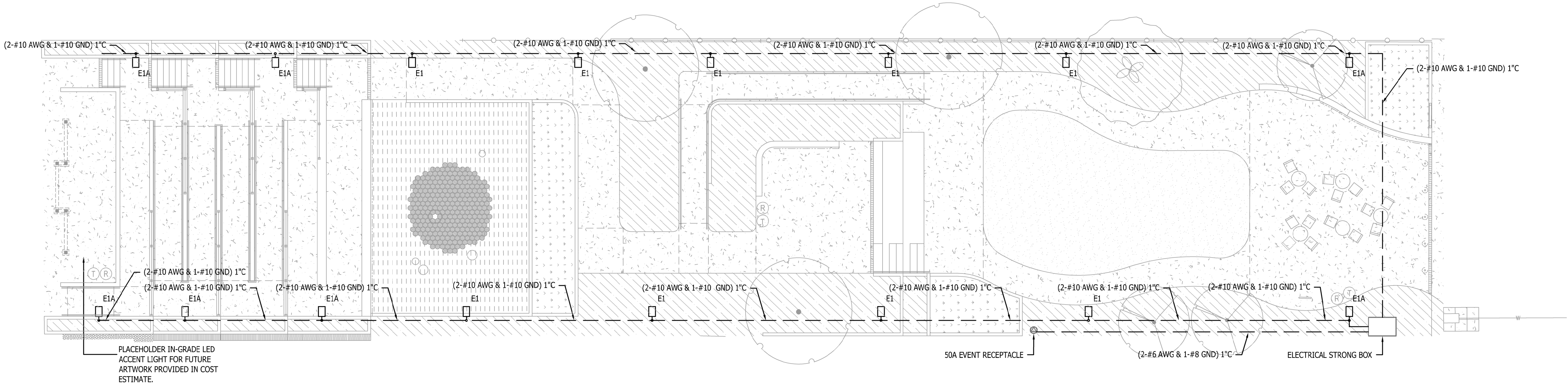
1. ALL EXTERIOR LIGHTING TO BE TIED TO STRONG BOX WITH PROGRAMMABLE ON/OFF AUTOMATIC TIME CLOCK CONTROL AND PHOTOCELL BYPASS SWITCH PER SEATTLE PARKS AND RECREATION STANDARDS. INTEGRAL OCCUPANCY SENSORS IN EACH POLE TO BE PROVIDED FOR CODE REQUIRED DIMMING.
2. ALL CONDUIT ROUTING TO BE 1" PVC SCHEDULE 40, UNLESS NOTED OTHERWISE.
3. INSTALL SQA EXTERIOR EVENT RECEPTACLE WITH ABOVE-GROUND UNISTRUT.

>>>>CAUTION - CALL 811<<<<
UTILITY NOTIFICATION CENTER
BEFORE YOU DIG!
WWW.CALL811.COM

Also, verify all underground utilities not located by the 811 service by using a commercial location service and call SPR Inspection Request Line (206) 684-7034.

GENERAL NOTES:													
1. ALL LIGHT FIXTURE FINISHES TO BE VERIFIED BY OWNER/ARCHITECT. 2. CCT = CORRELATED COLOR TEMPERATURE (MEASURED IN KELVIN, K) 3. CRI = COLOR RENDERING INDEX (HIGHER NUMBER IS BETTER RENDERING)													
TYPE	DESCRIPTION	LOCATION	MANUFACTURER	PRODUCT NO.	LAMP, CCT, CRI	LUMENS	WATTS	VOLTAGE	DRIVER	DIMMING	OPTIC	FINISH	NOTES
EXTERIOR LIGHTING													
E1	16' POLE MOUNTED TYPE III LED AREA LIGHT WITH FLAT GLASS LENS AND BACKLIGHT CONTROL	SITE BOUNDARIES	KIM	HEAD: ALT1-28L-20-3K8-3-UNV-VSF-BL-NXSP20F-8C POLE: PRA16-4188	LED, 3000K, 80 CRI	1,180	20	120-277V	INTEGRAL	0-10V	TYPE III WITH BACKLIGHT CONTROL	BLACK	1. PROVIDE INTEGRAL OCCUPANCY SENSOR.
E1A	16' POLE MOUNTED TYPE IV LED AREA LIGHT WITH FLAT GLASS LENS AND BACKLIGHT CONTROL	SITE ENTRIES	KIM	HEAD: ALT1-28L-20-3K8-4-UNV-VSF-BL-NXSP20F-8C POLE: PRA16-4188	LED, 3000K, 80 CRI	2,190	20	120-277V	INTEGRAL	0-10V	TYPE IV WITH BACKLIGHT CONTROL	BLACK	1. PROVIDE INTEGRAL OCCUPANCY SENSOR.

2 LUMINARE SCHEDULE
NTS



1 ELECTRICAL SITE PLAN
1/8"=1'-0"



LITTLE SAIGON

PARK DEVELOPMENT

ELEC SITE PLAN

DESIGNED	ND & CS	DATE	01/20/2022
DRAWN	ND & CS	SHEET	24 OF 26
CHECKED	AH & TT		
ORDINANCE NO.	125475		E1.0
CONTRACT NO.	2064		
SCALE	1" = 10'-0"		

>>>>CAUTION - CALL 811<<<<
UTILITY NOTIFICATION CENTER
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Also, verify all underground utilities not located by the
811 service by using a commercial location service and
call SPR Inspection Request Line (206) 684-7034.

A IRRIGATION CONTROL PANEL LEGEND:

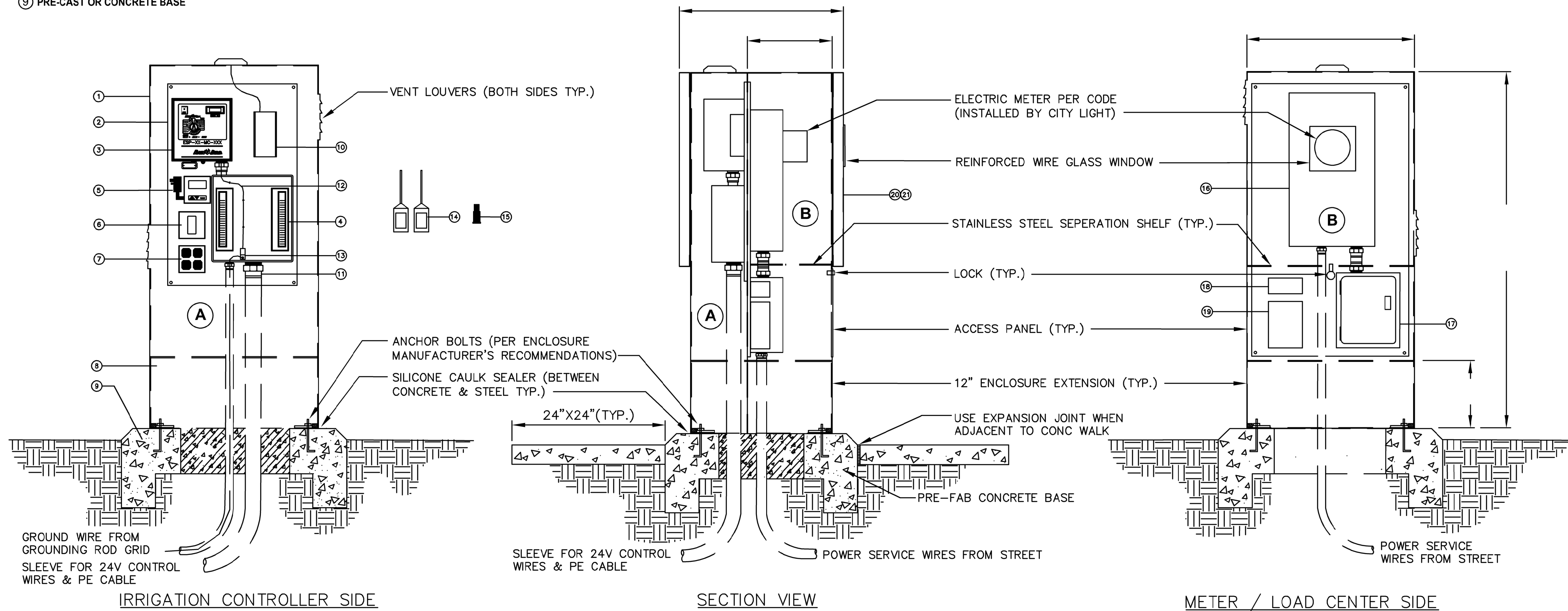
- STRONGBOX ENCLOSURE #SB24-SS-120V
- ALUMINUM PANEL (BOLTED TO BACK WALL OF BOX)
- HYBRID CONTROLLER: RAINBIRD ESP LXME, SITE, OR
SITESAT-XX-XXXX (EDIT - EXACT TYPE OF CONTROLLER & # OF
STATIONS VARIES BY PROJECT).
- TERMINAL BOX WITH TERMINAL STRIPS.
- RAINBIRD FLOW MONITOR.
- PUMP MANUFACTURER (OPTIONAL IF REQUIRED)
- LEVITON 5280-W, GFI OUTLET.
- 12" ENCLOSURE EXTENSION (TYP.)
- PRE-CAST OR CONCRETE BASE
- DIGITAL CELLULAR COMMUNICATION UNIT
(#CDS-9022-1X-V) WITH DOMED TOP ANTENNA &
CABLE
- MIN. 2" CONDUIT FOR STATION CONTROL WIRES
- GROUND WIRE CONNECTS FROM GROUND LUG
TO GROUNDING BUSS IN CONTROLLER (TYP.)
- GROUND LUG (RUN WIRE FROM GROUND LUG TO
GROUNDING ROD GRID TYP.)
- TRC COMMANDER REMOTE TRANSMITTERS (2 UNITS
PER PROJECT TYP.)
- PULSE DECODER (OPTIONAL IF REQUIRED)

B METER / LOAD CENTER PANEL LEGEND:

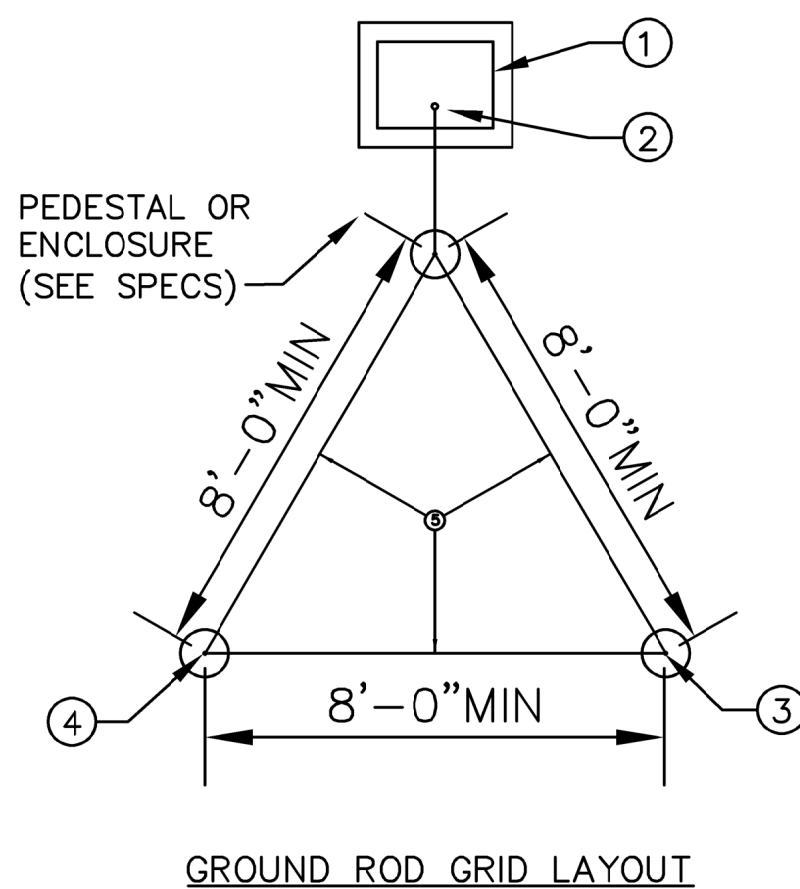
- 200 AMP METER BASE REQUIRED BY CITY LIGHT (ALIGN METER
WITH WINDOW TYP.)
- SIEMENS LOAD CENTER, #E0816ML1125SCU - 8/16, W/125A, WITH 8
SPACES & 16 CIRCUITS, 4-QP MAX. 2-POLES, 14-3/4"X12-3/8"X3-7/8",
(WITH BACK-FED MAIN BREAKER TYP.)
- PHOTOCELL BYPASS SWITCH
- LIGHTING CONTACTOR (OPTIONAL IF REQUIRED)
- CABINET SHALL HAVE SHROUD TO COVER PAD LOCK AND HANDLE.
- CABINET DOOR SHALL HAVE 3 POINTS TO SECURE DOOR.

ENCLOSURE CABINET & PANEL NOTES:

- STRONG BOX CABINET - #SB-24SS-120V.
- COLD ROLLED STEEL CONSTRUCTION
- POWDER COATED DARK GREEN COLOR
- TWO LOUVERED VENTS ON EACH SIDE
- REMOVABLE EQUIPMENT MOUNTING PANELS
- CABINET BOLTED TO A PREFABRICATED CONCRETE BASE
- HINGED METER VIEWING WINDOW WITH REINFORCED GLASS
- CONTROL CABINET, PREFABRICATED CONCRETE BASE, IRRIGATION
CONTROLLER, TERMINAL STRIPS, SURGE PROTECTION, & PANEL
ASSEMBLY AVAILABLE FROM UNITED PIPE AND SUPPLY (MODEL #
IT-ICC-SBMC12MB-RP).

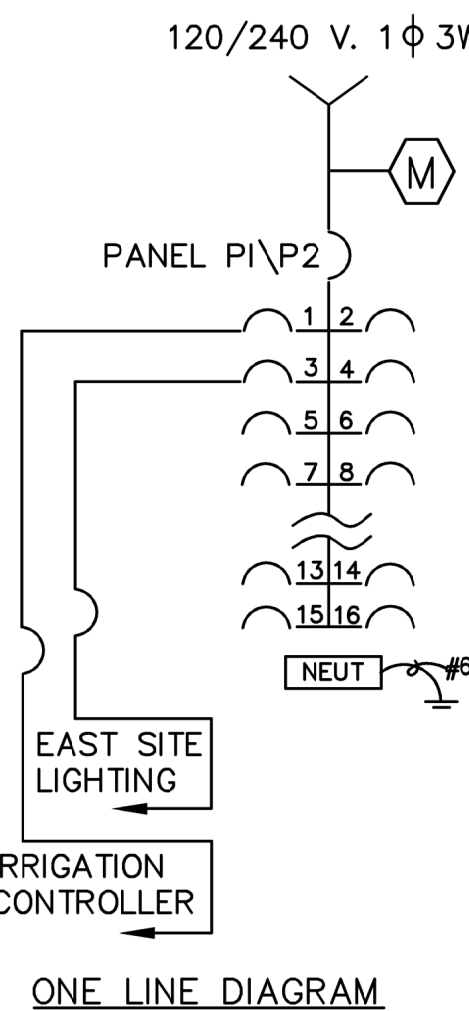
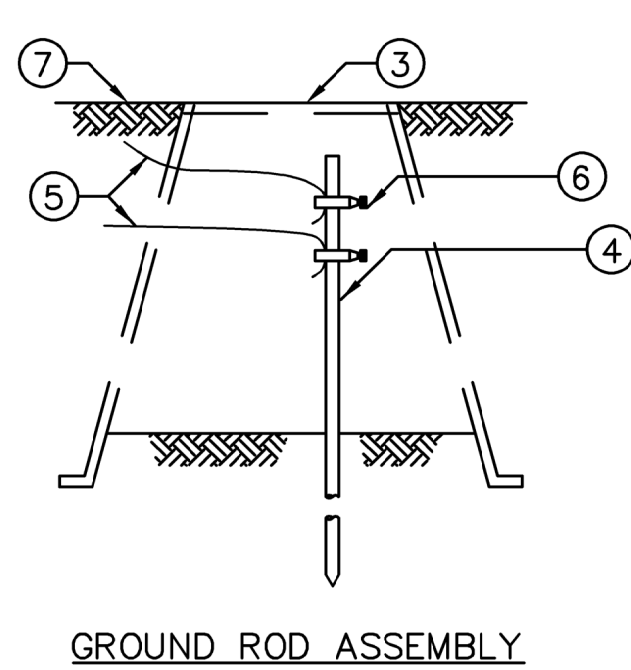


1 POWER DROP WITH METER & IRRIGATION CONTROLLER ENCLOSURE DETAILS
NOT TO SCALE



GROUNDING LEGEND

- CONTROLLER AND/OR CLUSTER CONTROL UNIT (CCU)
- #10 AWG SOLID BARE COPPER WIRE FROM
GROUNDING ROD TO GROUND LUG ON CONTROLLER
(OR CCU). MAKE WIRE AS SHORT AS POSSIBLE.
- COVER GROUNDING ROD WITH 6" ROUND VALVE BOX
- 5/8"x8'-0" COPPER CLAD GROUNDING RODS. INSTALL
RODS IN SOIL IN A TRIANGULAR PATTERN,
SPACED 8'-0" MIN APART. GROUNDING GRID SHALL
HAVE A RESISTANCE OF 10 OHMS OR LESS.
- #10 AWG BARE COPPER WIRE BETWEEN GROUNDING
RODS (TYP.).
- BRASS WIRE CLAMP (USE SEPARATE CLAMP FOR
EACH WIRE).
- FINISH GRADE.



PANEL SCHEDULE									
NO.	LOCATION	DESCRIPTION	TRIPS	TRIPS	TRIPS	TRIPS	TRIPS	TRIPS	TRIPS
NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1	EAST SITE LIGHTS	0.5	20	50	6.0	50A EVENT RECEPTACLE	4		
2	IRRIGATION CONTROLLER	1.0	20	50	6.0	50A EVENT RECEPTACLE	4		
3	SPARE	-	20	50	6.0	50A EVENT RECEPTACLE	4		
4	SPARE	-	20	50	6.0	50A EVENT RECEPTACLE	4		
5	SPARE ONLY	XX	XX	XX	XX	SPARE ONLY	10		
6	SPARE ONLY	XX	XX	XX	XX	SPARE ONLY	12		
7	SPARE ONLY	XX	XX	XX	XX	SPARE ONLY	14		
8	SPARE ONLY	XX	XX	XX	XX	SPARE ONLY	16		
REMARKS:									
CONNECTED LOAD: 13.9_KVA, 57.9_AMPS									
DEMAND LOAD: 14.13_KVA, 58.9_AMPS									

SYMBOL KEY									
TC	-	ELECTRONIC TIME CLOCK - TORK Z400							
⊕	-	PHOTOCELL 105-285 V. 1800 VA. MOUNT ON CHANNEL MARKER SHELTER							
⊕	-	SWITCH 15 A. 120V.							
⊕	-	DUPLEX RECEPTACLE SS COVER 20A. 120V.							
LC-1	-	3P-30A ELECTRICALLY HELD LIGHTING CONTRACTOR WITH 120 V. COIL							
⊕	-	HOA SWITCH - INTEGRAL IN TIME CLOCK							

3 ONE LINE DIAGRAM, PANEL SCHEDULE & SYMBOL KEY
NOT TO SCALE

4	90% CD SUBMITTAL	01/20/22
3	90% CD CHECK SET	11/02/21
2	60% CD SUBMITTAL	01/27/21
1		
NO.	REVISION - AS BUILT	DATE

REVIEWED: **PARK ENGINEER** DATE
All work done in accordance with the City of Seattle Standard
Plans and Specifications in effect on the date shown above, and
supplemented by Special Provisions.

RUSHING
Engineering - Essentials - Delivery
1725 WESTLAKE AVE N, SUITE 300
SEATTLE, WA 98109
P: (206) 285-7100 F: (206) 285-7111

Seattle
Parks & Recreation

LITTLE SAIGON

PARK DEVELOPMENT

ELEC DETAILS

DESIGNED	ND & CS	DATE	01/20/2022
DRAWN	ND & CS		
CHECKED	AH & TT	SHEET	25 OF 26
ORDINANCE NO.	125475		
CONTRACT NO.	2064		
SCALE	NTS		

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Lighting SummaryLGT-SUM

2015 Seattle Energy Code Compliance Forms for Commercial Buildings including R2, R3 & R4 over 3 stories + all R1Revised Jan 2017

Project Title: LITTLE SAIGON PARK DEVELOPMENTDate: 1/20/2022

Compliance Forms do not require a return to use.

Professional and calculating cells are within protected

Applicant Information: Provide contact information for individual who can respond to inquiries about compliance form information provided.

Company Name: RUSHING

Company Address: 1725 WESTLAKE AVE N, SUITE 300, SEATTLE, WA, 98109

Applicant Name: 206-285-7100

Applicant Email: LIGHTING@RUSHINGCO.COM

Project Description

☐ New Building☐ Addition☐ Alteration☐ Plans Included

Include PROJ-SUM form (included in envelope forms workbook) with lighting compliance forms.

Building Additions

Compliance Method

Interior lighting

Exterior lighting

Refer to Section C502.2.6 for additional requirements.

Lighting systems in addition area comply with all applicable provisions as a stand alone new construction project.

Lighting systems in addition are combined with existing building lighting systems to demonstrate compliance.

Addition is combined with existing:

For interior lighting projects, include new + existing interior lighting future wattage in Proposed Lighting Wattage table in LGT-INT-BLD or LGT-INT-SPACE form.

For exterior lighting projects, include new + existing exterior lighting future wattage in Proposed Tradable and Proposed Non-Tradable Lighting Wattage tables in LGT-EXT form.

Interior and Exterior Lighting Alterations

Select all Lighting Power and Lighting Control elements that apply to the scope of the retrofit project. If project includes a combination of spaces where less than 25% of the existing fixtures are replaced in some spaces, and 25% or more of the fixtures are replaced in others, then provide separate lighting power compliance forms for the two retrofit conditions. Spaces undergoing the same type of retrofit may be combined into one lighting power compliance form. Parking garages and exterior lighting have 50% thresholds.

Refer to Section C503.6 for additional requirements.

All alteration lighting controls shall be commissioned per C408.3.

Change of Space Use

☐ Existing interior lighting systems in areas under-going a change in space use are upgraded to comply with LPAs for the new space types per Tables C405.4.2(1) or C405.4.2(2).

Identify interior spaces requiring LPD upgrade to the current Code in Proposed Lighting Wattage table in LGT-INT-BLD or LGT-INT-SPACE form.

Exterior LightingLGT-EXT

2015 Seattle Energy Code Compliance Forms for Commercial Buildings including R2, R3 & R4 over 3 stories + all R1Revised Jan 2017

Project Title: LITTLE SAIGON PARK DEVELOPMENTDate: 1/20/2022

For SDCI Use

Zone 1 ☐ Zone 2 ☐ Zone 3 ☒

Zone selection required to enable LGT-EXT form

Calculation Area

☒ New construction☐ Addition - stand alone☐ Addition - existing

☐ Alteration with < 50% ext. wattage replaced☐ Alteration with ≥ 50% ext. wattage replaced

Building Grounds

Applies to luminaires > 100 Watts, C405.5.1

☐ Efficacy ≥ 80 lumens/watt☐ Exemption

☐ Controlled by motion sensor

Tradable Maximum Allowed Lighting Wattage^{NOTE 1}

Base Site Allowance: 750

Tradable Surfaces	Surface Description	Area (ft ² , perimeter (ft) or # of items	Allowed Watts per ft ² or per ft	Allowed Watts x ft ² (or x ft)
Stairways	STAIRS	288	1.0 W/ft ²	288
Grounds Walkways >10' wide	GROUNDS	11312	0.16 W/ft ²	1810

Total Allowed Tradable + Site Allowance Watts: 2848

Tradable Proposed Lighting Wattage^{NOTE 2}

Tradable Surface	Fixture Description ^{NOTE 3,4}	Number of Fixtures	Watts per Fixture ^{NOTE 5}	Watts Proposed
Grounds Walkways >10' wide	E1	9	20	180
Stairways	E1A	7	20	140

Total Proposed Tradable Watts: 320

Non-Tradable Maximum Allowed Lighting Wattage^{NOTE 1}

Site Allowance Remaining: 750

Non-Tradable Surfaces	Surface Description	Area (ft ² , perimeter (ft) or # of items	Allowed Watts per ft ² or per ft	Allowed Watts x ft ² (or x ft)

Non-Tradable Proposed Lighting Wattage^{NOTE 3}

Non-Tradable Surface	Fixture Description ^{NOTE 3,4}	Number of Fixtures	Watts per Fixture ^{NOTE 5}	Watts Proposed

Non-tradable proposed watts may not exceed allowed watts for any individual surface unless the total excess watts for all non-tradable surfaces are less than the remaining site allowance.

Non-Tradable Watts Exceeding LPA: 0

Remaining Site Allowance: 750

Exterior Lighting

COMPLIES WITH MAX. ALLOWANCE

NOTE 1 - List all unique exterior surfaces per Table C405.5.2(2) that occur in the project scope. Select exterior surface categories from drop down menu.

NOTE 2 - List all proposed lighting fixtures including existing-to-remain fixtures.

NOTE 3 - For proposed Fixture Description, indicate fixture type, lamp type, number of lamps in the fixture, and ballast type (if applicable).

NOTE 4 - Existing-to-remain fixtures shall be included in the Tradable and Non-Tradable Proposed Lighting Wattage tables in the same manner as new fixtures. Identify as existing in fixture description.

NOTE 5 - For proposed Watts/Fixture enter the luminaire wattage for installed lamp and ballast using manufacturer or other approved source. For luminaires with screw-in lamps, enter the manufacturer's listed maximum input wattage of the fixture (not the lamp wattage). For low voltage luminaires, enter the wattage of the transformer.

Lighting, Motor, and Electrical Permit Checklist, Pg. 1LGT-CHK

2015 Seattle Energy Code Compliance Forms for Commercial Buildings including R2, R3 & R4 over 3 stories + all R1Revised Jan 2017

Project Title: LITTLE SAIGON PARK DEVELOPMENTDate: 1/20/2022

The following information is necessary to check a permit application for compliance with the lighting, motor, and electrical requirements in the Washington State Energy Code, Commercial Provisions.

Applicability (yes/no/na)

Code Section

Component

Compliance information required in permit documents

Location in Documents

SDCI Notes

LIGHTING CONTROLS

Yes

C405.2

Lighting controls, general

For all lighting fixtures, indicate lighting control method on plans for spaces and lighting zone(s) served, or exception taken

E1.0, E3.0

NA

C405.2

Luminaire level lighting controls (LLLC)

Indicate on plans all fixtures provided with LLLC in lieu of C405.2 lighting controls; provide description of control capabilities and performance parameters

For permanently installed lighting fixtures in dwelling units, demonstrate that ≥ 75% of lamps are high efficacy as defined in Chapter 2

NA

C405.2.3
C405.2.1.1
C405.2.2.2
C405.2.4
C405.2.5

Manual controls

Indicate on plans the method of manual lighting control (whether combined with occupancy sensor, automatic light reduction, daylight responsive or specific application controls), location of manual control device and area of specific application if served

NA

C405.2.2.1
C405.2.2.2
C405.2.3

Manual light reduction controls

Indicate on plans which method of manual 50% lighting load reduction is provided, or whether lighting load is reduced via occupancy sensors or daylight responsive controls

NA

C405.2.2

Method of automatic shut-off control

Indicate lighting zones where automatic shut-off is provided by other methods (occupancy sensor or digital timer switch) or which time switch control exception applies

NA

C405.2.1
C405.2.1.1

Occupancy sensor controls

Indicate on plans the spaces served by occupancy sensors; indicate whether occupancy sensor controls are configured to be manual-on, automatic 50%-on, or serve a space eligible for automatic 100%-on per exception

NA

C405.2.1.2

Occupancy sensor controls - warehouses

Indicate aislemways and open areas in warehouse spaces provided with occupancy sensor controls that independently reduce lighting power by 50%

NA

C405.2.6

Digital timer switch

Indicate room type and digital timer switch control function if control is used instead of occupancy sensor

NA

C405.2.2.1

Automatic time switch controls

Indicate locations of override switches on plans and the lighting zone(s) served, include area sq. ft. of each zone

NA

C405.2.4.2
C405.2.4.3

Daylight zones - Sidelight and tolight

Indicate primary and secondary sidelight daylight zone areas on plans, include sq. ft. of each zone

Indicate daylight daylight zone areas on plans, include sq. ft.; For small vertical fenestration assemblies (rough opening less than 10 percent of primary daylight zone) where daylight responsive controls are not required, provide demonstration area to daylight zone calculation(s)

NA

C405.2.4

Daylight responsive controls

Identify sidelight and tolight daylight zones that are not provided with daylight sensing controls and the exception(s) that apply

NA

C405.2.5

Additional controls - Specific application lighting controls

Identify spaces and lighting fixtures on plans that require specific application lighting controls per this section

NA

C405.2.5
Item 182

Display and accent lighting

Indicate on plans that display and accent lighting, and display case lighting are controlled independently from both general area lighting and other lighting applications within the same space

Indicate manual and automatic lighting control method

Lighting, Motor, and Electrical Permit Checklist, Pg. 3LGT-CHK

2015 Seattle Energy Code Compliance Forms for Commercial Buildings including R2, R3 & R4 over 3 stories + all R1Revised Jan 2017

Project Title: LITTLE SAIGON PARK DEVELOPMENTDate: 1/20/2022

The following information is necessary to check a permit application for compliance with the lighting, motor, and electrical requirements in the Washington State Energy Code, Commercial Provisions.

Applicability (yes/no/na)

Code Section

Component

Compliance information required in permit documents

Location in Documents

SDCI Notes

INTERIOR LIGHTING POWER & EFFICACY

NA

C405.4.1
C405.4.2

Total connected interior lighting power

Include all luminaires in lighting future schedule; indicate fixture types, lamps, ballasts, and manufacturer's rated watts per fixture

Identify spaces eligible for lighting power exemption on plans and in compliance forms; indicate the exception applied

Identify lighting equipment eligible for lighting power exemption in future schedule and in compliance forms; indicate the exception applied

Indicate that exempt lighting equipment is in addition to general area lighting and is controlled independently

NA

C405.4.1

Total connected interior lighting power alternative

Indicate on plans any areas where proposed wattage is calculated as the total dedicated lighting branch wattage; detail rated wattage and proposed lighting power for each branch

NA

C405.3

Exit signs

Indicate location of exit signs on plans and rated watts per fixture in lighting future schedule (maximum 5 watts per side)

NA

C405.1

Lighting in dwelling units - lamp efficacy

In dwelling units, indicate in lighting future schedule if lamps in fixtures are high efficacy per R404.1. Calculate percentage of fixtures with high efficacy lamps in project (min 75% to comply with exception)

NA

C406.3

Reduced lighting power density dwelling unit lamp efficacy

For project with dwelling units, to comply with additional efficiency package option indicate in lighting future schedule if lamps in fixtures have efficacy rating of 60 lumens per watt or more. Calculate percentage of fixtures with lamps that have this efficacy rating (min 95% to comply with option)

Lighting Power Calculation - Indicate compliance path taken

NA

C405.4.2.1

Building Area Method

Complete required compliance forms - proposed wattage per building area does not exceed maximum allowed wattage per building area. Identify locations of building areas on plans

NA

C405.4.2.2

Space-By-Space Method

Complete required compliance forms - total proposed wattage does not exceed maximum allowed wattage; identify locations of space types on plans, including retail display areas, lobby art & exhibit display areas, and ceiling heights as applicable

NA

C406.3

Reduced lighting power density

To comply with additional efficiency package option, demonstrate in compliance forms that total connected interior lighting wattage is 25% less than the total maximum allowed lighting wattage via Building Area Method or Space-By-Space Method

EXTERIOR LIGHTING POWER & EFFICACY

Yes

C405.5.2

Total connected exterior lighting power

Include all luminaires in lighting future schedule; indicate fixture types, lamps, ballasts, and manufacturer's rated watts per fixture

Identify exterior applications eligible for lighting power exemption on plans and in compliance forms; indicate exception applied

Indicate that exempt exterior lighting is controlled independently from non-exempt exterior lighting; include exception claimed for each fixture or group of fixtures under exception category

Yes

Table C405.5.2(1)

Exterior lighting zone

Indicate building exterior lighting zone as defined by the SDCI

E3.0

Yes

C405.5.2

Exterior lighting power calculations

Complete required compliance form - proposed wattage for exterior lighting plus base site allowed does not exceed maximum allowed

E3.0

Yes

C405.5.3

Fut cutoff luminaires

For open parking, outdoor area, and roadway luminaires mounted more than 15 above the ground, indicate fixture with zero candles at an angle of 90 degrees

E1.0

Lighting Summary, cont.LGT-SUM

2015 Seattle Energy Code Compliance Forms for Commercial Buildings including R2, R3 & R4 over 3 stories + all R1Revised Jan 2017

Project Title: LITTLE SAIGON PARK DEVELOPMENTDate: 1/20/2022

Interior Lighting System Description

NO INTERIOR SPACES ON THIS PROJECT.

Interior Lighting Power Allowance Method

☐ Building Area Method☐ Space-by-space Method

Select method used in project.

Interior Lighting Permit Date

☐ Before January 1, 2018☒ January 1, 2018 or after

Select date range for the initial building permit application or initial TI permit acceptance

Interior Lighting Controls

☐ All C405.2.1 - C405.2.8 Controls☐ C405.2 Exception 5 Luminaire Level Lighting Control (LLLC)

☐ Additional Efficiency Package Option☐ C406.4 Enhanced digital lighting controls

To comply with C406.4, no less than 90% of the total installed interior lighting power shall comply with the required controls per C406.4.

Dwelling Unit Interior Lighting

Permanently installed interior lighting fixtures in dwelling units comply with:

- C405.2 thru C405.5 Commercial Lighting Controls and LPA
- C406.3 High Efficacy Lighting

Exterior Lighting System Description

ALL EXTERIOR LIGHTING TO BE TIED TO STRONG BOX WITH PROGRAMMABLE ON/OFF AUTOMATIC TIME CLOCK CONTROL AND PHOTOCELL BYPASS SWITCH PER SEATTLE PARKS AND RECREATION STANDARDS. INTEGRAL OCCUPANCY SENSORS IN EACH POLE TO BE PROVIDED FOR CODE REQUIRED DIMMING.

Exterior Lighting Controls

☐ All C405.2.1 - C405.2.8 Controls☐ C405.2 Exception 5 Luminaire Level Lighting Control (LLLC)

☐ Additional Efficiency Package Option☐ C406.4 Enhanced digital lighting controls

To comply with C406.4, no less than 90% of the total installed interior lighting power shall comply with the required controls per C406.4.

Lighting, Motor, and Electrical Permit Checklist, Pg. 2LGT-CHK

2015 Seattle Energy Code Compliance Forms for Commercial Buildings including R2, R3 & R4 over 3 stories + all R1Revised Jan 2017

Project Title: LITTLE SAIGON PARK DEVELOPMENTDate: 1/20/2022

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Applicability (yes/no/na)

Code Section

Component

Compliance information required in permit documents

Location in Documents

SDCI Notes

NA

C405.2.5
Item 3

Hotel/motel guest rooms

Indicate method of automatic control - vacancy sensor or captive key control of all installed luminaires and switched receptacles in guest room

NA

C405.2.5
Item 4

Supplemental task lighting

Indicate method and location of automatic shut-off vacancy control for supplemental task lighting, including under-shelf or under-cabinet lighting

NA

C405.2.5
Item 5

Lighting for non-visual applications

Indicate on plans eligible non-visual lighting applications, include sq. ft. area of each lighting control zone

Indicate on plans that non-visual lighting is controlled independently from both general area lighting and other lighting applications within the same space

Indicate method of manual lighting control and applicable automatic lighting control

NA

C405.2.5
Item 6

Lighting equipment for sale or demonstration

Indicate on plans that lighting equipment for sale or demonstration are controlled independently from both general area lighting and other lighting applications within the same space

Indicate method of manual lighting control and applicable automatic lighting control

NA

C405.2.5
Item 7

Means of egress lighting

Identify on plans light fixtures that function as both normal and emergency means of egress illumination within the exit access, as defined in the SBCC

Provide calculation of lighting power density of total egress lighting that remains on while general lighting is off

If total egress lighting power density is greater than 0.02 W/sq. ft., indicate on plans egress fixtures requiring automatic shut-off during unoccupied periods

Indicate method of automatic shut-off control

NA

C405.2.5
Item 8

Stairways

Indicate on plans that each stairway has automatic controls to reduce lighting by ≥ 50% when no occupants detected

Indicate that lighting maintains Seattle Building Code compliant lighting when lighting power reduced

NA

C405.2.5
Item 9

Parking Garages

Indicate on plans that garage lighting has automatic controls to reduce lighting by ≥ 50% when no occupants detected

Indicate on plans required control sequence and configuration

Yes

C405.2.7

Exterior lighting controls

Indicate on exterior lighting plans and fixture schedules the automatic lighting control method, control sequence, and locations served

For building facade and landscape lighting, indicate automatic controls shut off lighting as a function of dusk/dawn, and between midnight and 6 a.m. or while closed

For all other exterior lighting, indicate automatic controls shut off lighting as a function of available daylight; include control sequence that also reduces lighting power by at least 30% between 12am-6am, or from 1 hour after closing to 1 hour before opening, or based upon motion sensor

NA

C405.5.1

Exterior building grounds lighting controls

For building grounds fixtures greater than 100 watts, indicate on plans whether fixtures have efficacy greater than 80 lumens or are controlled by motion sensor, or are exempt lighting per C405.5.2

Yes

C405.5.5
(listed after C405.2.7)

Area controls - Master control switches and circuit power limit

Indicate location(s) of master control switch(es) intended to control multiple independent switches; circuit breaker may not be used as a master control switch

Verify that no 20 amp circuit controlled by a single switch or automatic control is loaded beyond 80%

NA

C406.4

Enhanced digital lighting controls

To comply with additional efficiency package option, indicate on plans all interior lighting fixtures that are individually addressed and provided with continuous dimming, or exception taken

Include calculation of percent total installed interior lighting power that is configured with required enhanced digital lighting functions (min 95% to comply with additional efficiency package option)

If dimming lighting system commissioning exemption provide supporting calculation

NA

C405.13
C408.3

Lighting system functional testing

Identify applicable commissioning documentation requirements per Section C408 or eligibility for exception

Provide written procedures for functional testing of all automatic controls and describe the expected system response

Lighting, Motor, and Electrical Permit Checklist, Pg. 4LGT-CHK

2015 Seattle Energy Code Compliance Forms for Commercial Buildings including R2, R3 & R4 over 3 stories + all R1Revised Jan 2017

Project Title: LITTLE SAIGON PARK DEVELOPMENTDate: 1/20/2022

The following information is necessary to check a permit application for compliance with the lighting, motor, and electrical requirements in the Washington State Energy Code, Commercial Provisions.

Applicability (yes/no/na)

Code Section

Component

Compliance information required in permit documents

Location in Documents

SDCI Notes

MOTORS & TRANSFORMERS

NA

C405.6

Electrical transformers

Include electrical transformer schedule on electrical plans; indicate transformer size, efficiency, or exception taken

NA

C405.7

Dwelling unit electrical energy consumption

Indicate on electrical plans that each dwelling unit in Group R-2 has a separate electrical energy meter

NA

C405.8

Electric motor efficiency

Indicate all motors, including fractional hp motors, in electric motor schedule on electrical plans; indicate hp, rpm, rated efficiency, or exception applied

For luminaires in each elevator cab, provide calculated average efficacy of combined fixtures that indicates efficacy is not less than 35 lumens per watt

NA

C405.9.1

Elevator cabs

Indicate rated watts per cfm for elevator cab ventilation fans do not exceed 0.33 watts per cfm

Indicate automatic controls that de-energize lighting and ventilation fans when elevator is stopped and unoccupied for a period of 15 minutes or more

NA

C405.9.2

Escalators and moving walks

Indicate escalators comply with ASME A17.1/CSA B44; automatic controls are configured to reduce operational speed to the minimum permitted when not in use

NA

C405.9.3

Regenerative drive

Indicate all one-way down or reversible escalators are provided with a variable frequency regenerative drive

Identify all controlled and uncontrolled receptacles on electrical plans in each space in which they are required; include receptacle configuration such as spacing between controlled and uncontrolled, duplex devices, etc.

NA

C405.10

Controlled receptacles

Indicate on plans whether the method of automatic control for each controlled receptacle zone is by occupant sensor or programmable time-of-day control

NA

C405.13

Commissioning

Indicate all lighting systems and controlled receptacles shall be commissioned in accordance with Section C408

If "no" is selected for any question, provide explanation:

PROJECT HAS EXTERIOR SPACES ONLY; NO INTERIOR LIGHTING IS REQUIRED.

End of Lighting, Motor & Transformer Permit Documents Checklist

REVIEWED: PARK ENGINEER DATE
All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.
RUSHING
Engineering - Essentials - Delivery
1725 WESTLAKE AVE N, SUITE 300
SEATTLE, WA 98109
P: (206) 285-7100 F: (206) 285-7111

Seattle Parks & Recreation

LITTLE SAIGON

PARK DEVELOPMENT

LIGHTING ENERGY CODE FORMS

DESIGNED ND & CS

DRAWN ND & CS

CHECKED AH & TT

DATE 01/20/2022

SHEET 26 of 26

ORDINANCE NO. 125475

CONTRACT NO. 2064

SCALE NTS

E3.0



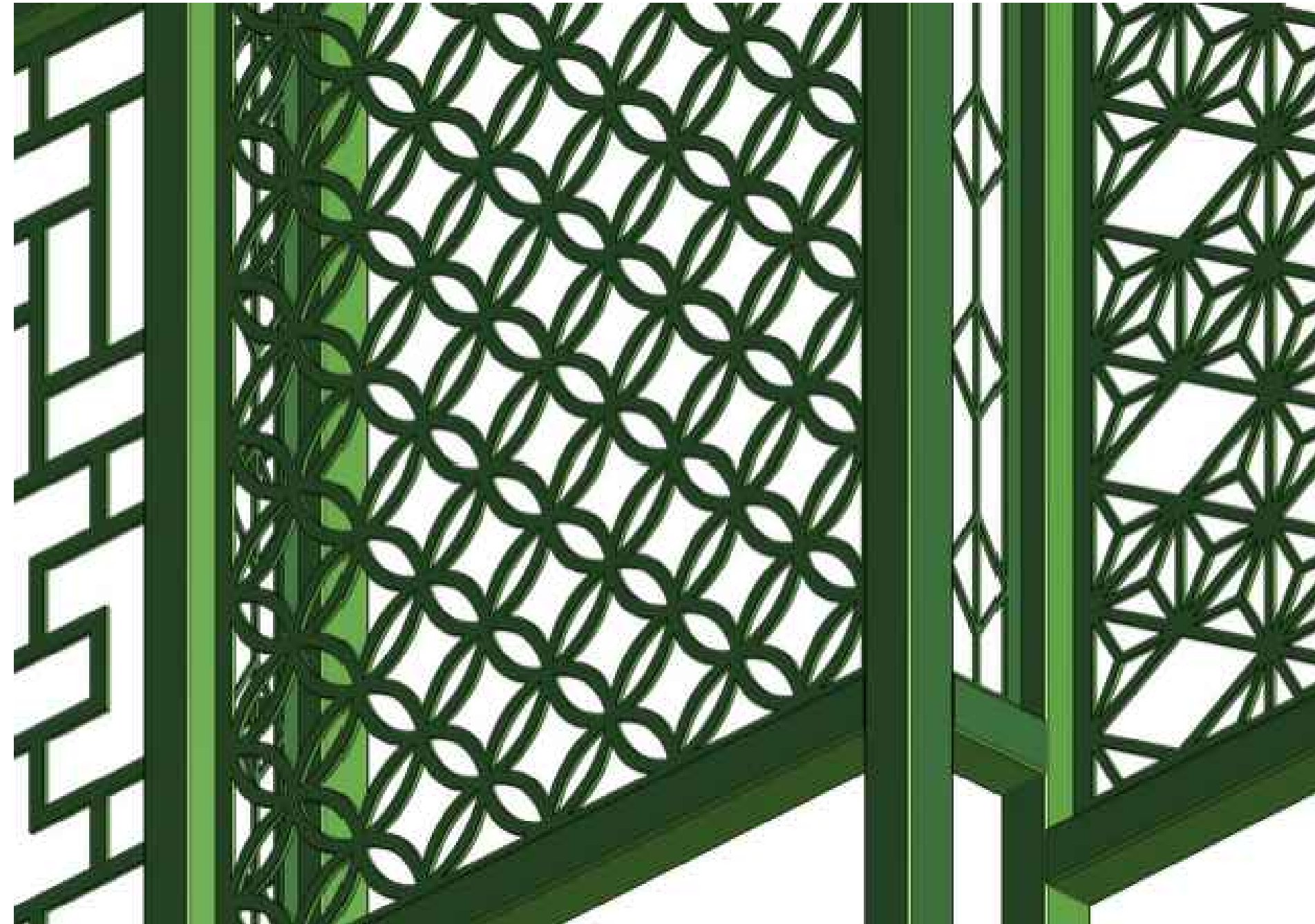
1 GATEWAY FEATURE BY KALINA CHUNG- LOOKING SOUTH FROM S. JACKSON STREET
SCALE: NTS



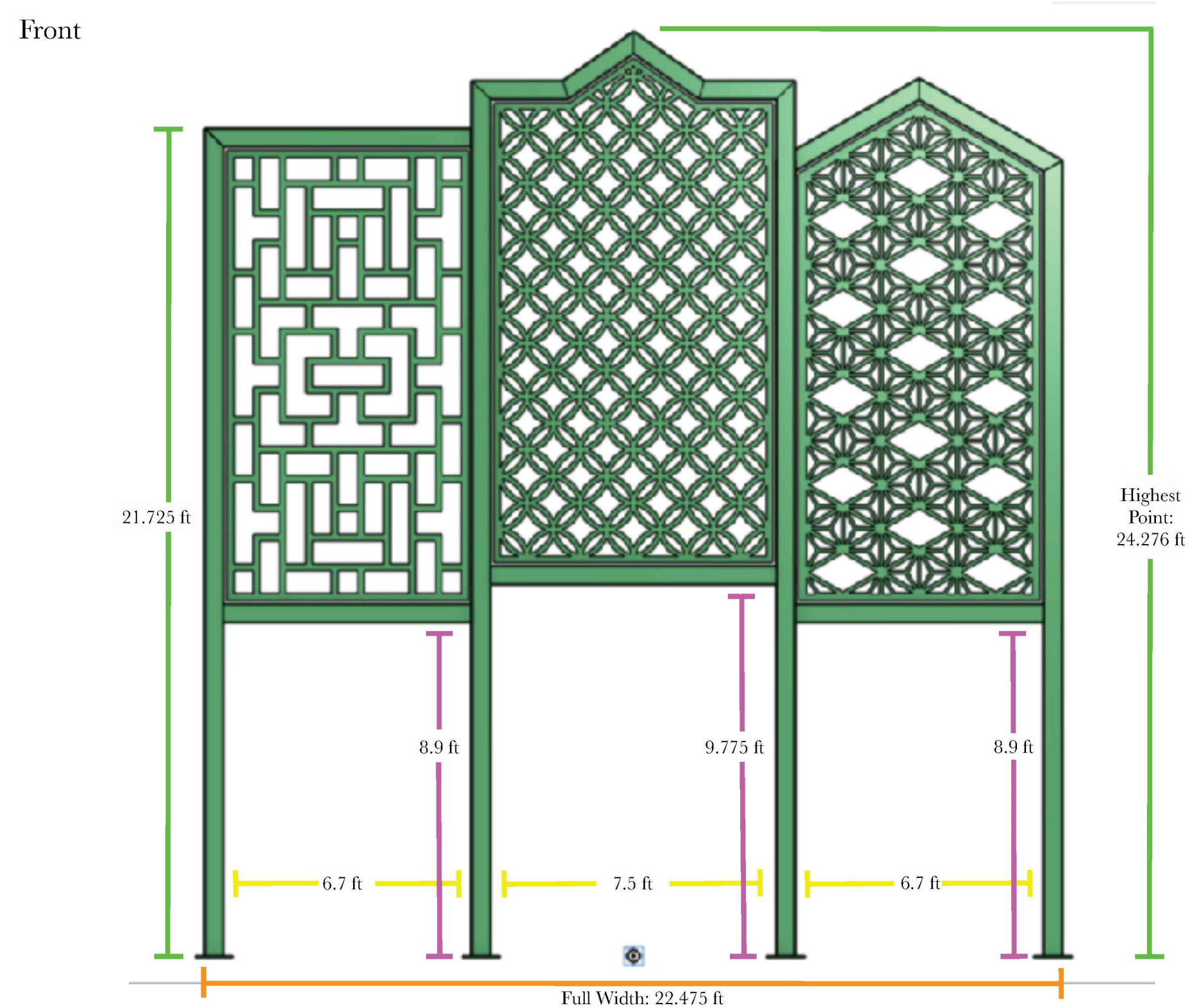
2 GATEWAY FEATURE BY KALINA CHUNG- LOOKING SOUTHWEST FROM S. JACKSON STREET
SCALE: NTS



3 GATEWAY FEATURE BY KALINA CHUNG- LOOKING SOUTHEAST FROM S. JACKSON STREET
SCALE: NTS



4 CLOSE-UP OF 2-TONE GREEN COLOR
SCALE: NTS



5 GATEWAY FEATURE BY KALINA CHUNG- DIMENSIONS
SCALE: NTS

NOT IN CONTRACT
FOR REFERENCE ONLY

>>>>CAUTION - CALL 811<<<<
UTILITY NOTIFICATION CENTER
BEFORE YOU DIG!

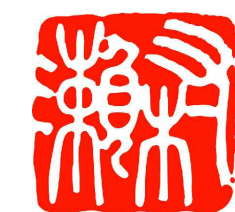
WWW.CALL811.COM

Also, verify all underground utilities not located by the
811 service by using a commercial location service and
call SPR Inspection Request Line (206) 684-7034.

3		
2	90% CD SUBMITTAL	01/20/22
1	PERMIT SET	01/28/21
NO.	REVISION - AS BUILT	DATE

REVIEWED: PARK ENGINEER DATE

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MURASE ASSOCIATES
LANDSCAPE ARCHITECTURE
200 East Boston, Seattle, WA 98102
T 206-322-4937 www.murase.com



Seattle
Parks & Recreation

LITTLE SAIGON

PARK DEVELOPMENT

GATEWAY FEATURE

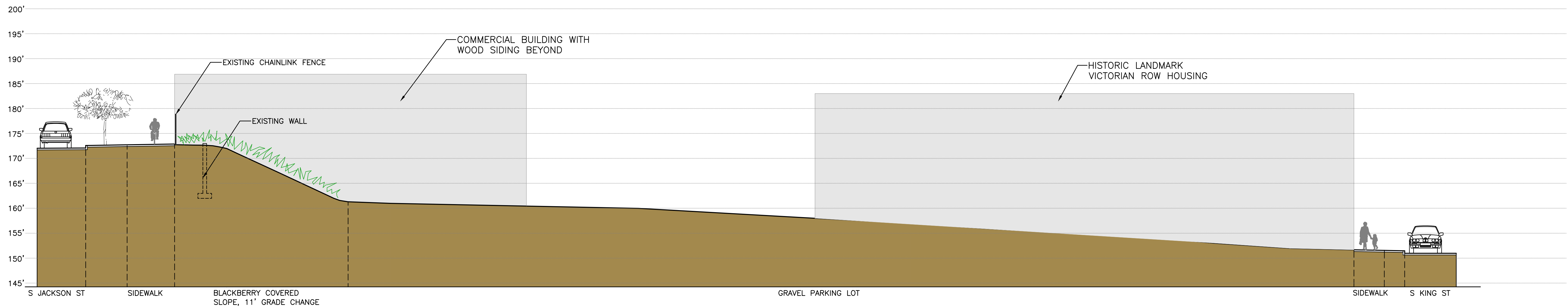
DESIGNED SM	DATE 01/20/22
DRAWN CA/DR	SHEET 27 OF 27
CHECKED MT	
ORDINANCE NO. 125475	L0.4
CONTRACT NO. 2064	
SCALE 1"=10'-0"	

SUPPLEMENTAL PACKAGE:

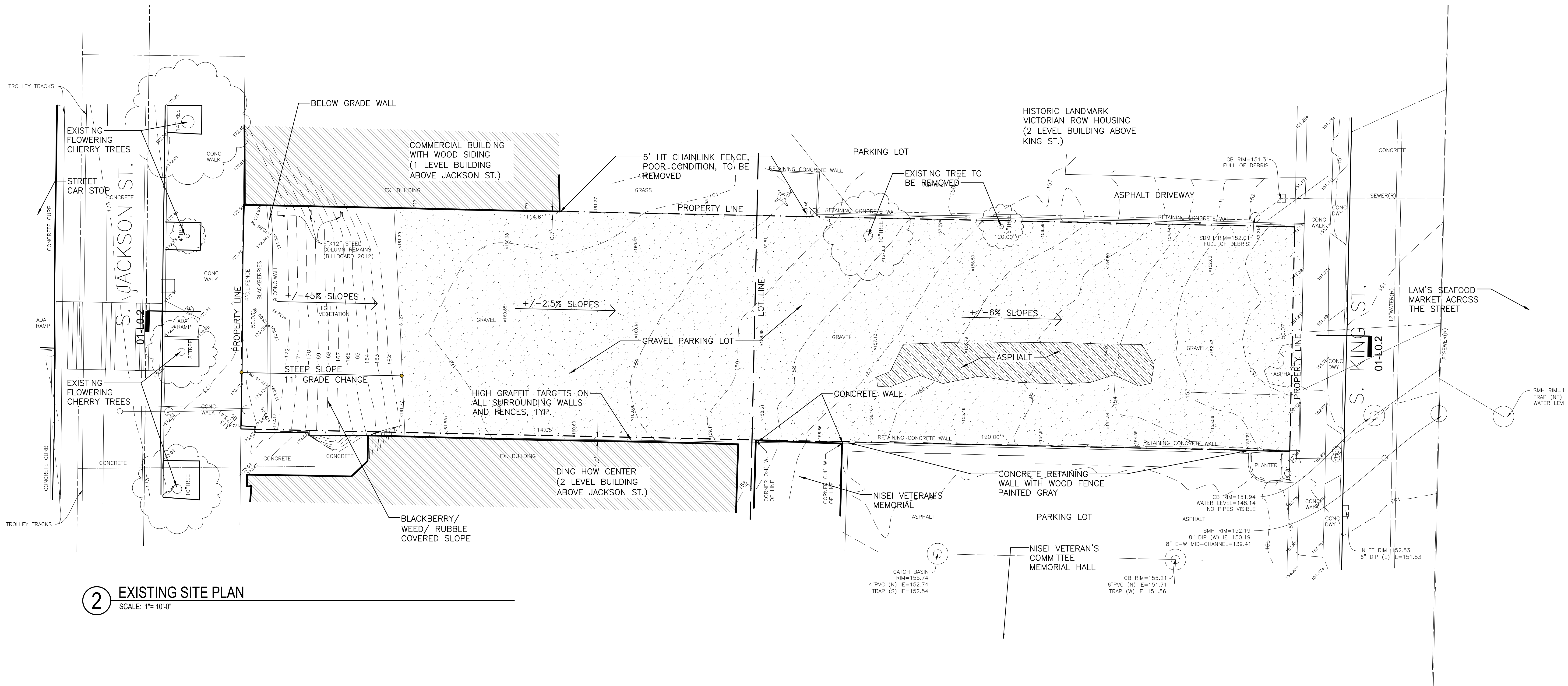
Little Saigon Park-Existing_Materials_Sign_2022_0215 update

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1 EXISTING SITE SECTION FROM NORTH TO SOUTH
SCALE: 1"=10'-0"



2 EXISTING SITE PLAN
SCALE: 1"=10'-0"

3		
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LITTLE SAIGON

PARK DEVELOPMENT

EXISTING SITE PLAN

DESIGNED SM	DATE 01/20/22
DRAWN CA/DR	SHEET OF 27
CHECKED MT	
ORDINANCE NO. 125475	L0.2
CONTRACT NO. 2064	
SCALE 1"=10'-0"	



1 LOOKING SOUTH FROM S. JACKSON STREET
SCALE: NTS



2 LOOKING NORTH AT GRADE CHANGE FROM S. JACKSON
SCALE: NTS



3 LOOKING NORTH FROM S. KING STREET
SCALE: NTS

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 Seattle
Parks & Recreation

LITTLE SAIGON

PARK DEVELOPMENT

EXISTING SITE FEATURES

DESIGNED SM	DATE 01/20/22
DRAWN CA/DR	SHEET 26
CHECKED MT	
ORDINANCE NO. 125475	L0.3
CONTRACT NO. 2064	
SCALE 1"=10'-0"	



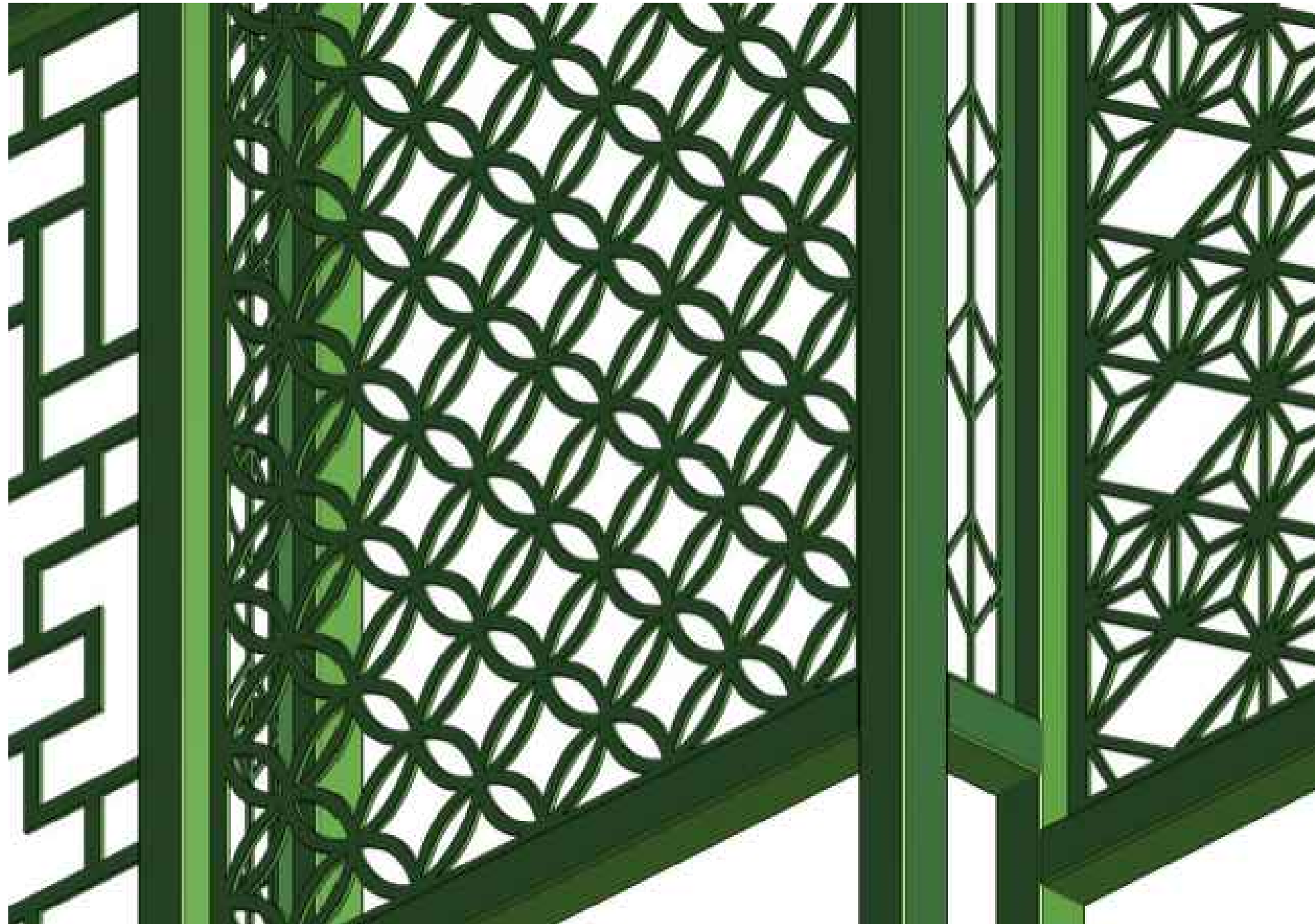
1 GATEWAY FEATURE BY KALINA CHUNG- LOOKING SOUTH FROM S. JACKSON STREET
SCALE: NTS



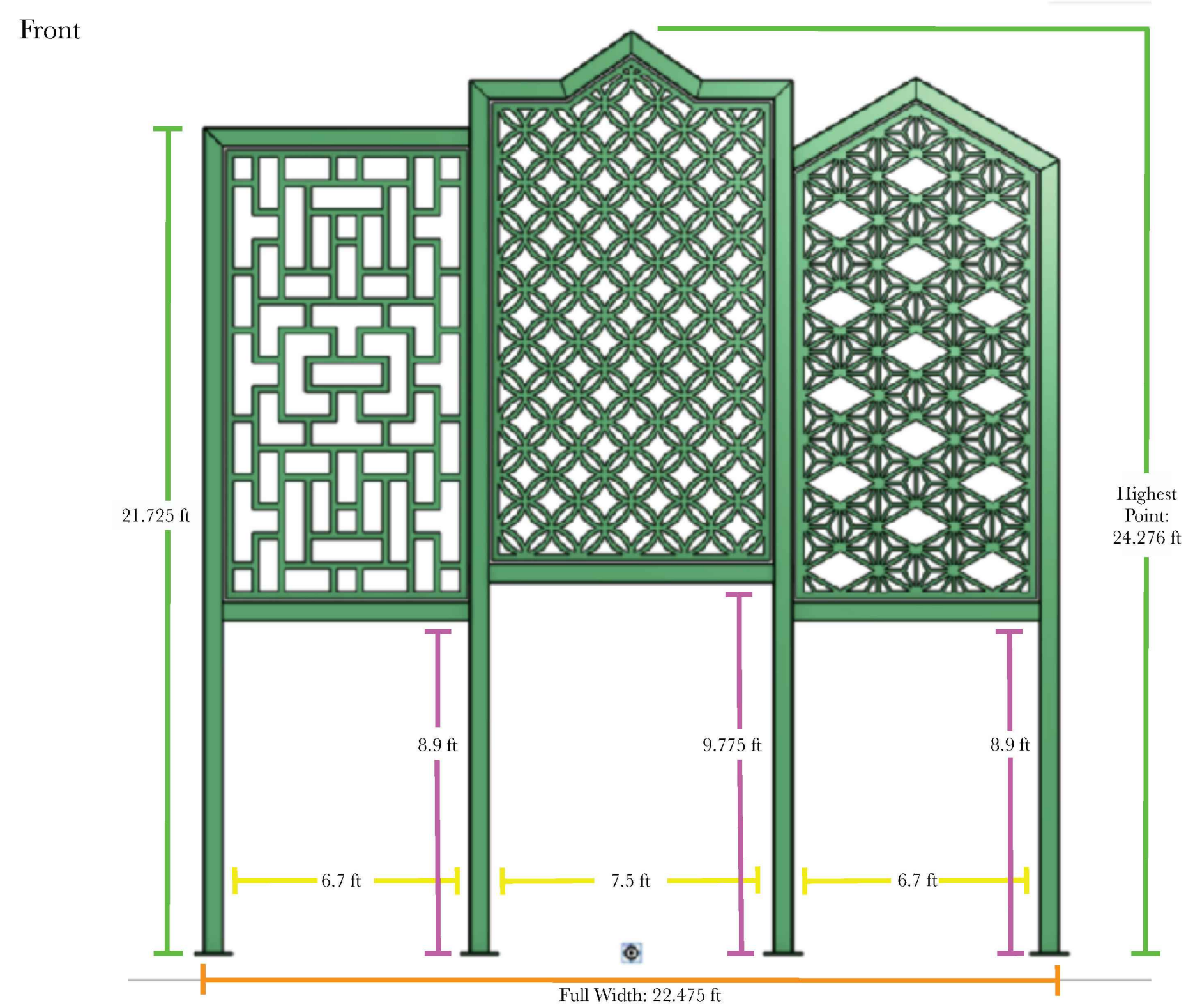
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SCALE: NTS



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SCALE: NTS



4 CLOSE-UP OF 2-TONE GREEN COLOR
SCALE: NTS



5 GATEWAY FEATURE BY KALINA CHUNG- DIMENSIONS
SCALE: NTS

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Parks & Recreation

LITTLE SAIGON

PARK DEVELOPMENT

GATEWAY FEATURE

DESIGNED SM	DATE 01/20/22
DRAWN CA/DR	SHEET 26 OF 26
CHECKED MT	
ORDINANCE NO. 125475	L0.4
CONTRACT NO. 2064	
SCALE 1"=10'-0"	



BLACK POWDER COATED/ PAINTED/
VINYL-COATED METAL: GUARDRAIL,
CHAINLINK FENCE, LIGHT FIXTURES,
TRASH RECEPTACLES

1
SCALE: NTS



BUTTERCUP YELLOW POWDER COATED/
PAINTED: TABLES AND CHAIRS,
PATTERNS ON CONCRETE BENCHES

2
SCALE: NTS



GALVANIZED STEEL: HANDRAILS
AND REMOVABLE BOLLARDS

3
SCALE: NTS



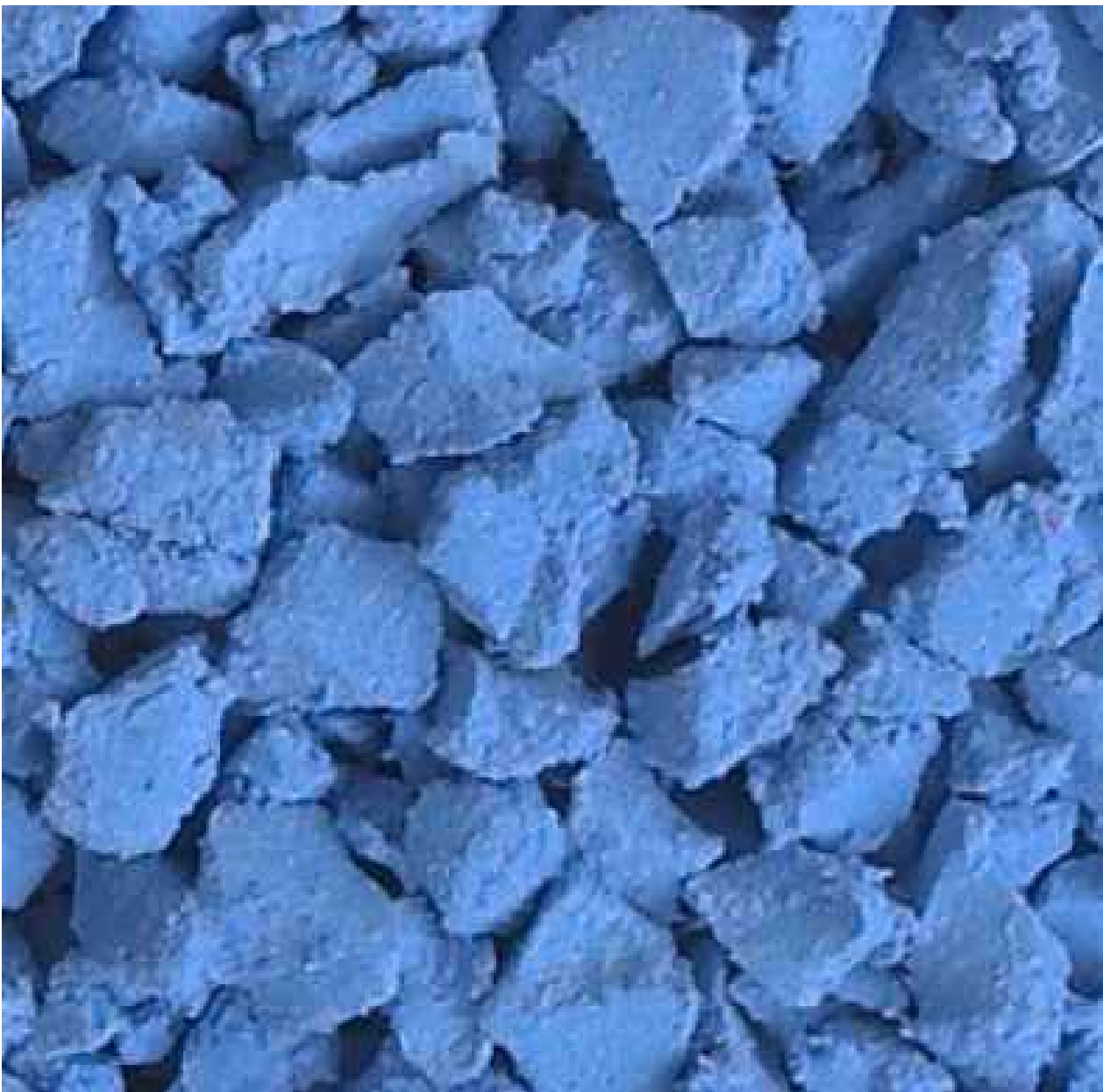
BROOM-FINISH, STANDARD GRAY,
CONCRETE SURFACING: WALKWAYS
AND PLAZAS

4
SCALE: NTS



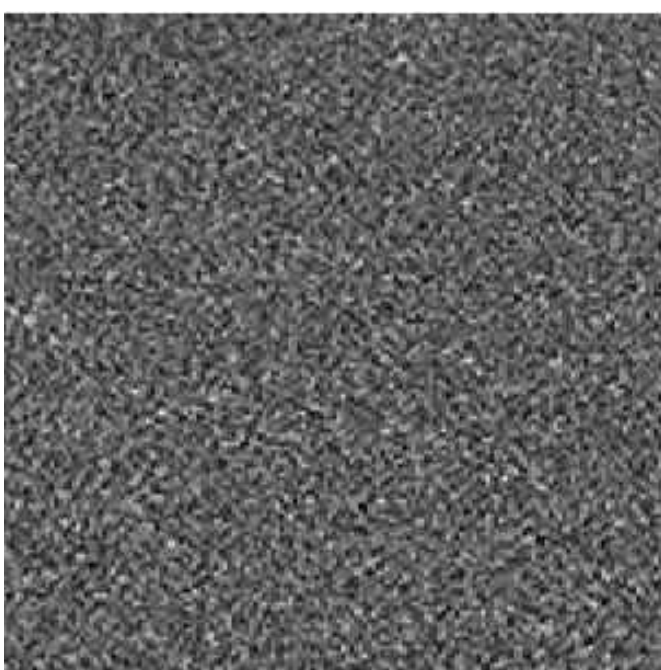
SMOOTH FORM FINISH CONCRETE: WALLS

5
SCALE: NTS



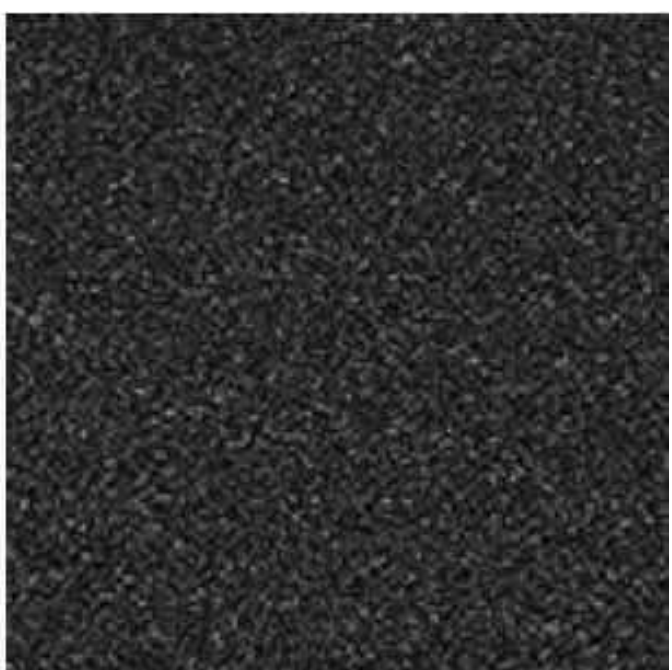
CLOSE-UP OF SKY BLUE RUBBER SURFACING

6
SCALE: NTS



BLACK AND GRAY RUBBER STEPPERS

7
SCALE: NTS

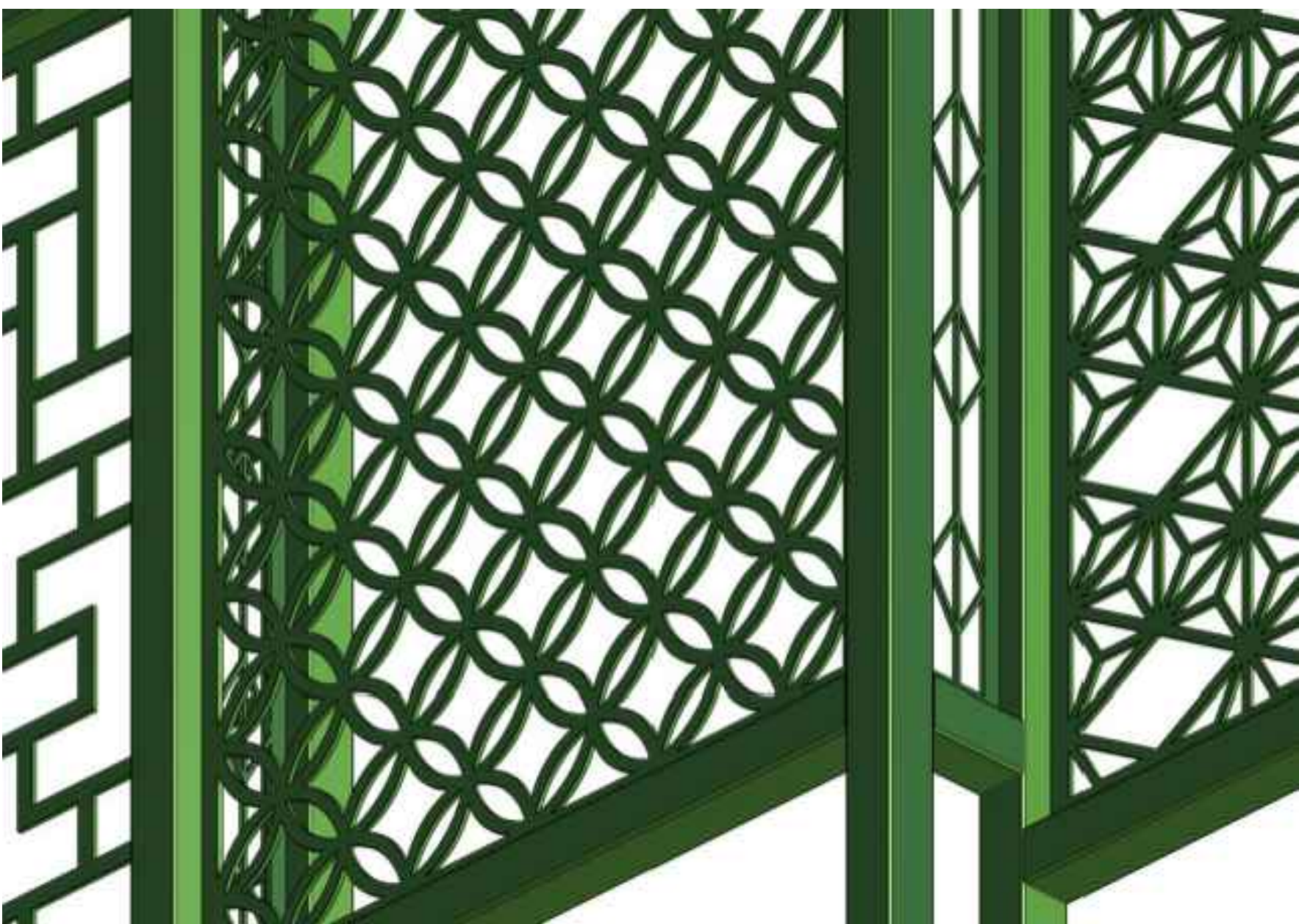


RAL 1012
bright yellow



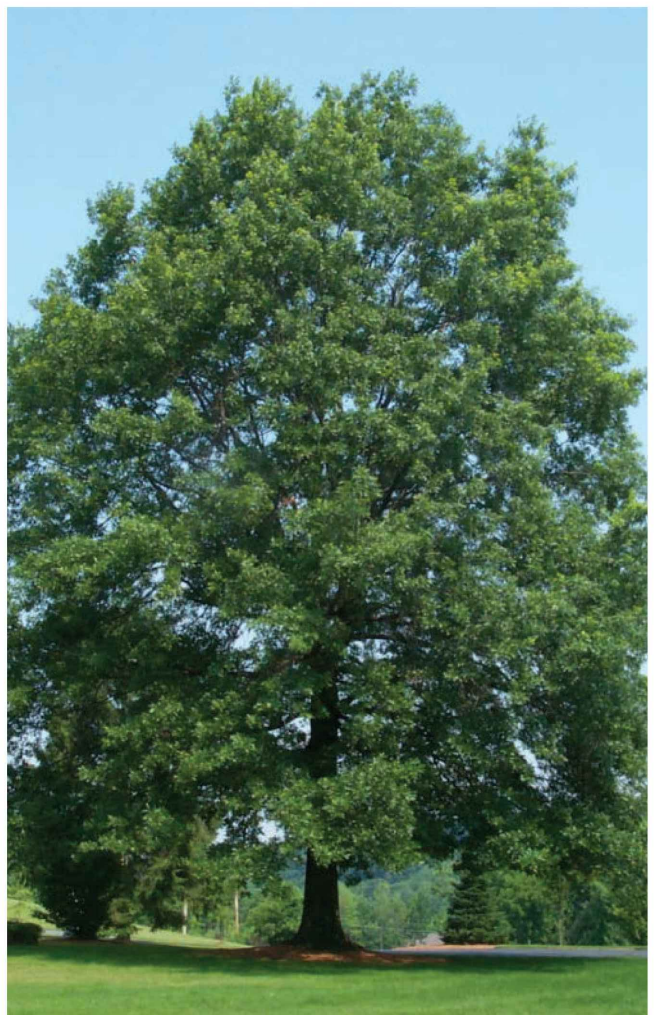
BRIGHT YELLOW FULL
RUBBER BALLS

8
SCALE: NTS



CLOSE-UP OF 2-TONE GREEN COLOR GATEWAY FEATURE

9
SCALE: NTS



CHINESE ELM TREE/
ULMUS PARVIFOLIUM



JAPANESE MAPLE/
ACER PALMATUM



GOLDEN BAMBOO



SARCOCOCCA HUMILIS



ACANTHUS MOLLIS



LIRIOPE



CAMASSIA



JUNCUS EFFUSUS*



KOUSA DOGWOOD/
CORNUS KOUSA



RHAPHIOLEPSIS BALLERINA



MAHONIA CHARITY



DAYLILY



AGAPANTHUS



CAREX OBNUPTA
*BIO RETENTION

PLANTING PALETTE

10
SCALE: NTS

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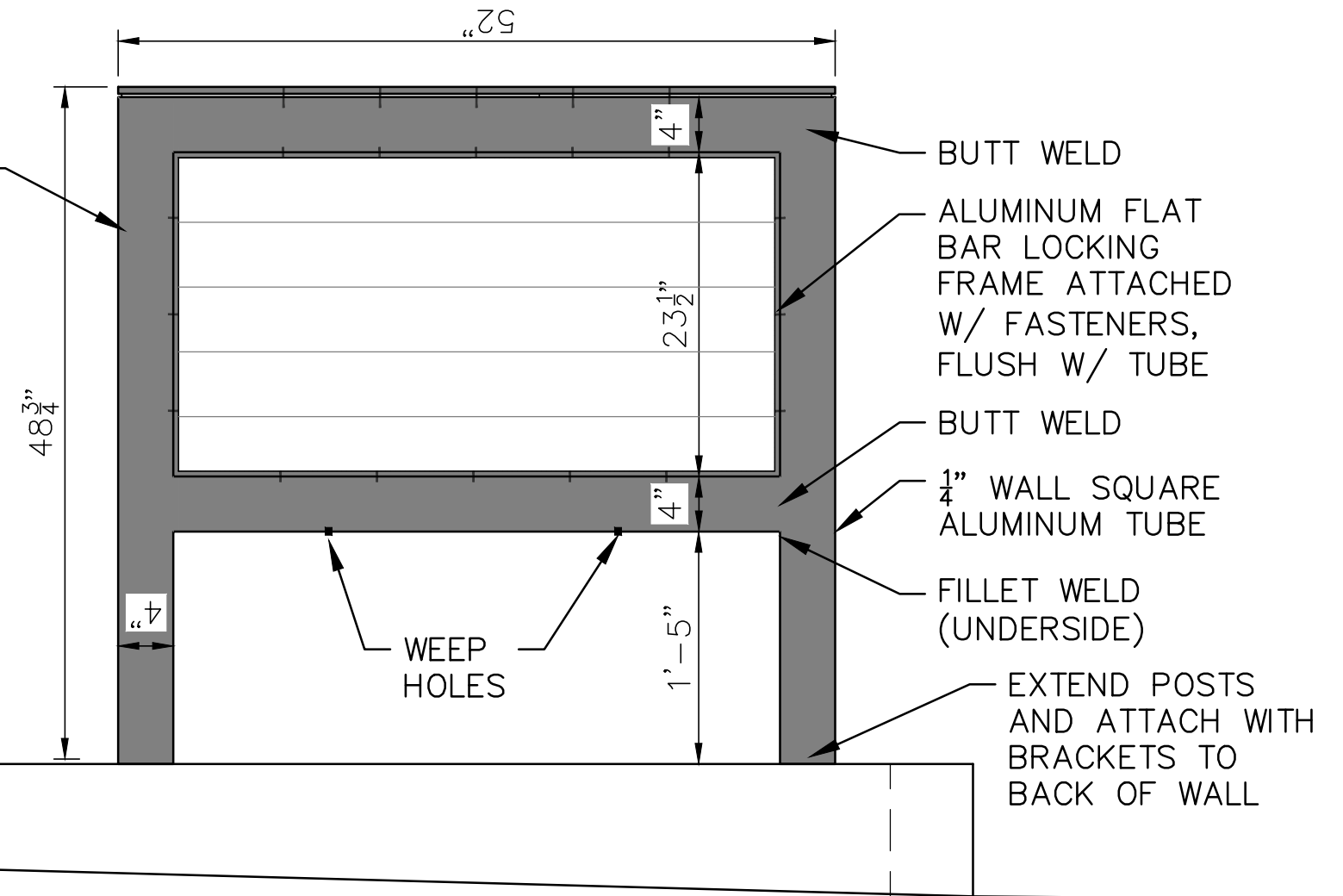
MATERIALS BOARD

DESIGNED SM	DATE 01/20/22
DRAWN CA/DR	SHEET 27
CHECKED MT	L0.5
ORDINANCE NO. 125475	
CONTRACT NO. 2064	
SCALE 1"=10'-0"	



SEATTLE PARKS
AND RECREATION
STANDARD
RAINBOW SIGN

BIORETENTION
PLANTER WALL



FRONT ELEVATION

1

SIGN SECTION

SCALE: 1"=1'-0"