

MEMORANDUM

DATE 25 May 2021

PROJECT NAME Seattle Indian Health Board Leschi Fence
SDIC PERMIT PROJECT #6813506
NUMBER
ARCHITECT CONTACT Megan Nielsen Hegstad
mnhegstad@jonesandjones.com
DISTRIBUTED TO Seattle Department of Construction and Inspections
700 Fifth Ave
Suite 2000
P.O. Box 34019
Seattle, WA 98124-4019

CORRECTIONS

No	ORDINANCE Item	Response
01	Description of Proposed Work	• Complete.
02	Site Plan	• Complete.
03	Scale Drawings (existing and proposed)	• Complete.
04	Construction Details	• Complete.
05	Photographs of existing features.	• Complete.
06	Photo of color/material samples.	• Photo of board form concrete attached.
07	Lighting Specifications	• N/A
08	Statement of Owner Consent	• Owner's representative has confirmed this has been received.
09	Fee	• Owner's representative has confirmed all fees have been paid by the owner and there are no outstanding unpaid fees.
AC 1	Please upload a comprehensive packet with the site plan, existing conditions photos, the sample photo of the board form concrete, updated plans/drawings/construction details and specifications under "Plan set". You do not need to reattach the corrections response document.	• Packet attached.

AC 2 Specifications for the proposed graffiti coating. We do not have a recommendation other than for a product that will work well with the board form concrete material.

AC 3 Payment of the application fee. Payment can be made through the Seattle Services Portal.

AC 4 From March corrections notice: Per our recent conversation, I also advise submitting a narrative describing the options that had been explored and why this is the preferred alternative. As we discussed, staff has concerns about the opacity of the wall and likelihood of it becoming a canvas for graffiti. I am concerned that the design of the wall is not consistent with intent of Chapter 23.66 of the land use code, due to the length blank façade. Optional designs that allow greater visual porosity are recommended.

- Graffiti coating manufacturer specifications attached. This product or equal will be applied to all exposed faces of the fence.
- Will be provided by Owner.
- Concrete is needed for the safety of the staff and patients at the non-profit clinic as it serves the needs of the community.
- Our review of 23.66.336 indicates the proposed fence is in keeping with the intent of the chapter and with the adjacent conditions. The proposed concrete material is within the B.1 noted selection of earthen materials. The gray color is found nearby in the adjacent building and bridge structures in keeping with B.2. The textured board form concrete surface is noted as preferred per B.3. B.4 is followed at the primary street facades along S Weller Street and 12th Avenue S. Our understanding is that 23.66.336 B.4. does not apply as the fence location is not the primary street façade. The fence is located at the rear of the property facing a path and the interstate.
- Over time the proposed trellis plantings are anticipated to grow up the North face of the wall and over the South face of the wall, further softening the appearance of the wall within the landscape.
- Graffiti coating is proposed to alleviate concerns of graffiti on the wall prior to the plants growing in.
- Other materials were considered and found to not be appropriate to the life safety needs of the location. The current chainlink does not meet the safety needs. Wood and porous metal can both be graffiti painted as well and are not bulletproof. Lexan can be painted and is beyond the available budget of the non-profit Owner serving the community.

END OF CORRECTIONS

Attachments:

Requested compiled document package



AERIAL SITE VIEW



COLORED CONCRETE STUCCO ACROSS 12TH.



FENCE SITE IS ON A PATH, NOT A PRIMARY STREET FRONT



CONCRETE FENCES VISIBLE ACROSS BRIDGE.



TRANSPARENCY MAINTAINED AT PRIMARY STREET FRONTS ALONG WELLER AND 12TH.



SITE NOT VISIBLE FROM DEARBORN STREET BELOW



SITE NOT VISIBLE FROM DEARBORN STREET BELOW



SCALE AND COLOR WILL BLEND WITH ADJACENT SURROUNDINGS



SCALE AND COLOR WILL BLEND WITH ADJACENT SURROUNDINGS



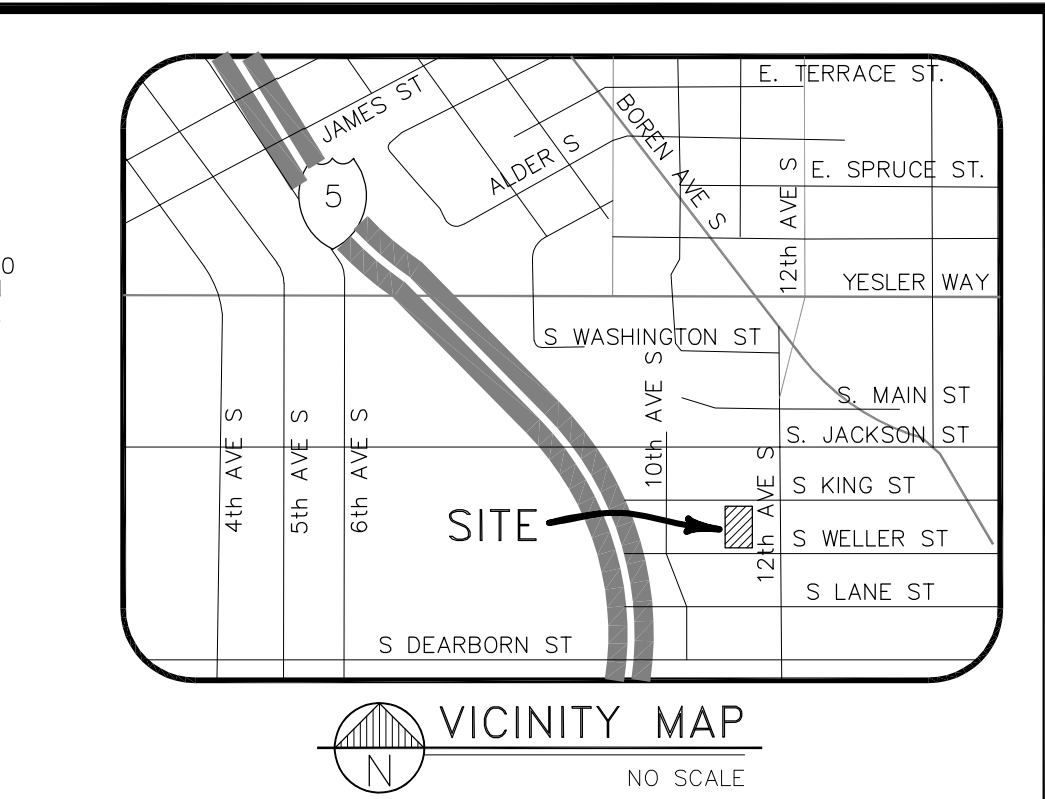
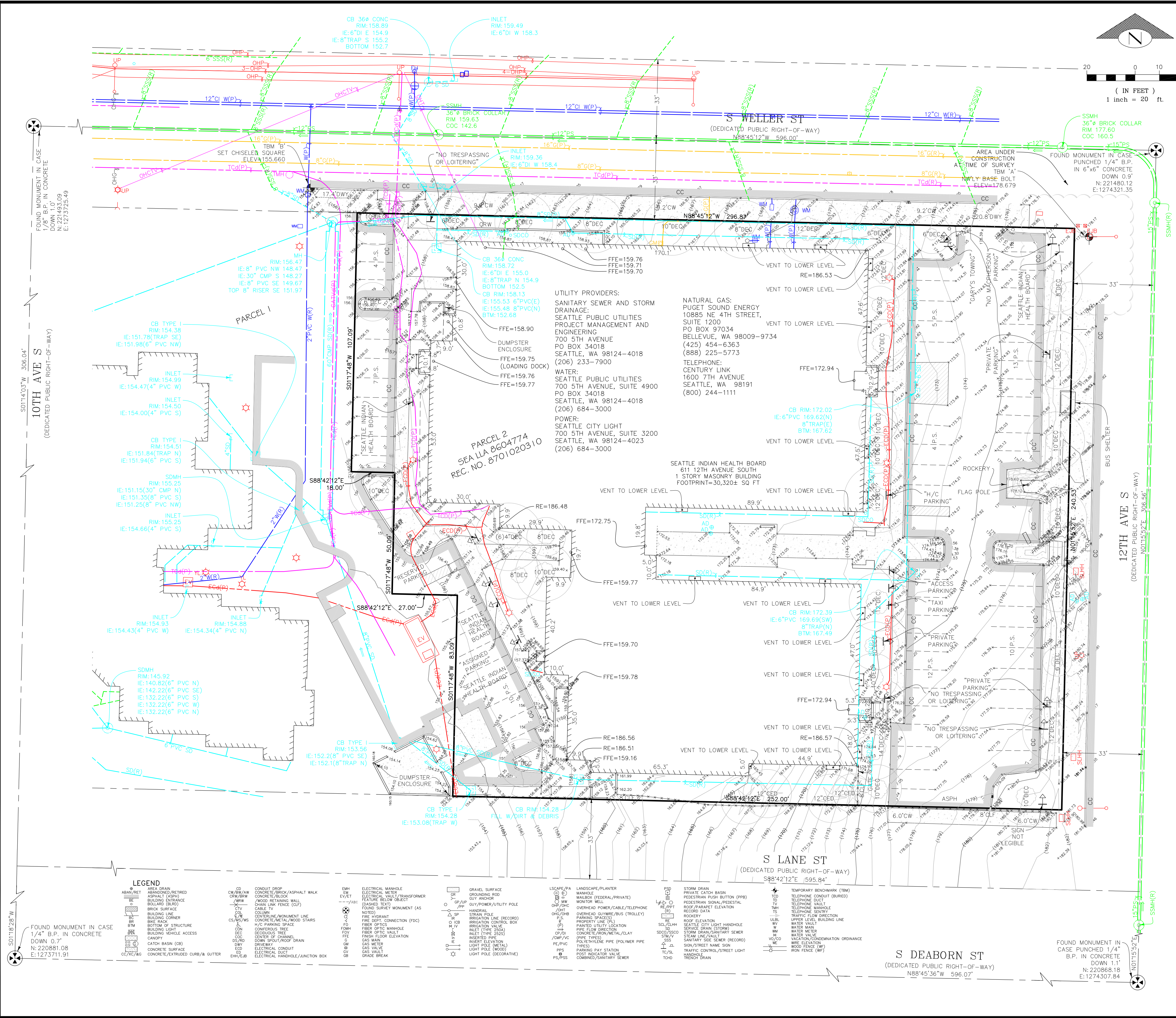
— — — — — DASHED LINE NOTES APPROXIMATE LOCATION OF CAST IN PLACE CONCRETE WALL TO REPLACE EXISTING BLACK FENCE.



BASE MATERIAL FINISH: BOARD FORM CONCRETE WITH MATTE ANTI-GRAFFITI COATING



OVER TIME NORTH FACE GREEN TRELLIS PLANTS ARE ANTICIPATED TO GROW OVER TO SOUTH FACE OF WALL.



SITE NOTES

SITE ADDRESS:
611 12TH AVENUE SOUTH
SEATTLE, WASHINGTON 98104

TAX ACCOUNT NO.:
817010-0415

DMC 85/75-170 = DOWNTOWN MIXED COMMERCIAL

ZONING AGENCY:
CITY OF SEATTLE
DEPARTMENT OF PLANNING AND DEVELOPMENT
700 5TH AVENUE, SUITE 2000
SEATTLE, WA 98104
(206) 684-8467

SETBACKS:
CURRENT SETBACK REQUIREMENTS SUBJECT TO SITE PLAN REVIEW.
CURRENT SETBACKS MAY DIFFER FROM THOSE IN EFFECT DURING DESIGN/CONSTRUCTION OF EXISTING IMPROVEMENTS.

THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE GOVERNING JURISDICTION INDICATES THAT STRUCTURES ON THIS PROPERTY COMPLIED WITH MINIMUM SETBACK AND HEIGHT REQUIREMENTS FOLLOWING CONSTRUCTION.

FLOOD ZONE:
CITY OF SEATTLE "SNV-2628"
ELEVATION = 100.30'
2" BRASS DOME MARKED "2628" 0.5' S OF THE < PT INT. BK. CW COR INT. S DEARBORN ST AND 13TH AVE S

HORIZONTAL DATUM:
NAD 83/2011 (EPOCH 2010)

VERTICAL DATUM:
NAVD 88

ORIGINATING BENCHMARK:
CITY OF SEATTLE "SNV-2628"
ELEVATION = 100.30'
2" BRASS DOME MARKED "2628" 0.5' S OF THE < PT INT. BK. CW COR INT. S DEARBORN ST AND 13TH AVE S

BENCHMARK 'A'
ELEVATION = 178.679
NORTHWESTERLY BASE BOLT OF METAL POWER POLE AT S.W. CORNER OF INTERSECTION OF 12TH AVENUE SOUTH & SOUTH WELLER STREET.

BENCHMARK 'B'
ELEVATION = 155.660
SET CHISELER SQUARE AT TOP FACE OF CURB AT WEST SIDE OF DRIVEWAY

AREA:
SITE AS SHOWN CONTAINS 66,742 SQUARE FEET OR 1.5322 ACRES, MORE OR LESS.

PARKING SPACE COUNT:
PARKING SPACES TOTAL 68 INCLUDING 3 HANDICAP ACCESSIBLE SPACES.

SUBSTRUCTURES:
BURIED UTILITIES ARE SHOWN AS INDICATED ON RECORDS MAPS FURNISHED BY OTHERS AND VERIFIED WHERE POSSIBLE BY FEATURES LOCATED IN THE FIELD. WE ASSUME NO LIABILITY FOR THE ACCURACY OF THOSE RECORDS. FOR THE FINAL LOCATION OF EXISTING UTILITIES IN AREAS CRITICAL TO DESIGN CONTACT THE UTILITY OWNER/AGENCY.

TELECOMMUNICATIONS/FIBER OPTIC DISCLAIMER:
RECORDS OF UNDERGROUND TELECOMMUNICATIONS AND/OR FIBER OPTIC LINES ARE NOT ALWAYS AVAILABLE TO THE PUBLIC. BRH HAS NOT CONTACTED EACH OF THE MANY COMPANIES, IN THE COURSE OF THIS SURVEY, WHICH COULD HAVE UNDERGROUND LINES WITHIN ADJACENT RIGHTS-OF-WAY. THEREFORE, BRH DOES NOT ACCEPT RESPONSIBILITY FOR THE EXISTENCE OF UNDERGROUND TELECOMMUNICATIONS/FIBER OPTIC LINES WHICH ARE NOT MADE PUBLIC RECORD WITH THE LOCAL JURISDICTION. AS ALWAYS, CALL 1-800-424-5555 BEFORE CONSTRUCTION.

STATEMENT OF TOPOGRAPHIC MAP ELEMENTS (WAC 332-130-145)

2(b) PURPOSE: FEASIBILITY AND DESIGN

2(c) CONTOUR SOURCE: CONTOURS DERIVED FROM DIRECT FIELD OBSERVATIONS

2(f) CONTOUR ACCURACY: COMPLIES WITH UNITED STATES NATIONAL MAP ACCURACY STANDARDS (90% OR GREATER OF ALL SURVEY POINTS CHECKED ARE CORRECT WITHIN HALF OF ONE CONTOUR INTERVAL).

2(g) LIMITATIONS: THE PURPOSE OF THIS TOPOGRAPHIC SURVEY IS TO SUPPORT DESIGN & ENGINEERING WORK, AND TO ILLUSTRATE BOUNDARY AND TITLE INVESTIGATIONS.

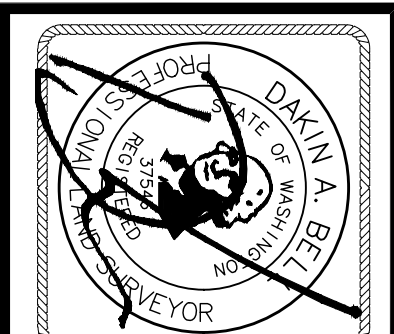
2(h) BOUNDARY SOURCE: FIELD SURVEY OF CONTROLLING MONUMENTS, AND CONSIDERATION OF EXISTING RECORDS OF SURVEYS & RECORD PLATS FOR DETERMINING ON THE GROUND POSITIONS OF DEEDED PROPERTY AND EASEMENT LINES.

3(a) & 3(b) UTILITIES: UNDERGROUND UTILITIES ARE SHOWN BY ONE OR MORE OF THE FOLLOWING METHODS:

1. SURVEY FIELD OBSERVATION OF MARKINGS PRODUCED BY DIRECT UTILITY DETECTION WORK.
2. DIRECT OBSERVATIONS OF UNDERGROUND, GRAVITY FLOW PIPES PERFORMED AT VISIBLE CONTROLLING STRUCTURES.
3. SCALING OF AS-BUILTS, DESIGN DRAWINGS OR OTHER RECORDS.

3(c) SCOPE STATEMENT: UTILITY INVESTIGATIONS ARE SUBJECT TO THE LIMITATIONS OF ACCURACY OF CONVENTIONAL UNDERGROUND UTILITY DETECTION EQUIPMENT. THE EXISTENCE / ACCURACY OF RECORD UTILITY MAPS PRODUCED BY OTHERS, OR THE AWARENESS OR LOCAL KNOWLEDGE OF ANYTHING CONCEALED UNDERGROUND, OR THE COMPREHENSIVENESS OF SAID INVESTIGATIONS ARE THEREFORE LIMITED TO THE CAPACITY OF SAID TECHNOLOGIES AND /OR THE AVAILABILITY OF SUCH RECORDS OR KNOWLEDGE.

PURSUANT TO R.C.W. 19.22.030, ALWAYS CALL 8-1-1 AT LEAST TWO DAYS BEFORE YOU DIG. www.washington811.com



12/09/2020

BUSH, ROED & HITCHINGS, INC.
CORPORATE SEAL
1969
WASHINGTON

BUSH, ROED & HITCHINGS, INC.
LAND SURVEYORS & CIVIL ENGINEERS

2009 MINOR AVE. EAST
SEATTLE, Washington
98102-3513

(206) 323-4144
1-800-935-0508
FAX# (206) 323-7135

NO.	REVISION	DATE

BOUNDARY & TOPOGRAPHIC SURVEY
611 12TH AVENUE SOUTH
SEATTLE INDIAN HEALTH BOARD
SEATTLE KING COUNTY WASHINGTON

drawn by	checked by
GLD	JRM
scale	date
1"=20'	12/9/20
job no.	
2020168.00	
sheet	of
1	1

MEMORANDUM

DATE 28 March 2021

PROJECT NAME Seattle Indian Health Board Leschi Fence
SDIC PERMIT PROJECT #6813506
NUMBER
ARCHITECT CONTACT Rachael Kitagawa
rkitagawa@jonesandjones.com
DISTRIBUTED TO Seattle Department of Construction and Inspections
700 Fifth Ave
Suite 2000
P.O. Box 34019
Seattle, WA 98124-4019

CORRECTIONS

ORDINANCE

No Item

- 01 Scale drawings (elevations and sections) showing the existing conditions and separate scale drawings showing the proposed work on both and east and south facades.
 - a. Include the location of the building and any trees or landscaping present along the length of the property line in the elevations (sheet A100)
 - b. We had discussed the SPD recommendation of stepping the wall on the east side, but that is not reflected in the plans. We also discussed fire access. Have you had the chance to consult with the Fire Department and are any modifications proposed in response to the feedback?

Response

- a. See A100 Site plan shows existing trees and notes that 1 existing tree will be removed. All others to remain. Existing and proposed elevations show the same.
- b. See A100 Elevations show the new proposed lowering of the wall to the east of the site for the width of the parking lot. Per the previous design, the beginning of the wall is still set back 20'-10" from east sidewalk. And per email from Roland Falb on behalf of the SFD FMO Plan review, "We are not staffed to provide a site visit as you requested. I searched the SDCI permit data base and found the construction permit for this project. The SDCI did not route the plans to the Fire Department for review because the Seattle Fire Code doesn't apply to this project. After a look at the plans I can confirm that the Seattle Fire Code does not apply to this project and we have no concerns regarding the project."

- 02 Since the elevation shows diagonal marks for the trellis wires on the north face, it's not clear what the south face will look like. Please provide an enlarged detail. Will the panels have visible connections between them.

- See A100 Elevations updated annotations. The trellis wires are on the north face, the south face will be CIP boardformed concrete with an anti graffiti coating. There will be no visible connections, as it is cast in place. The "panels" are where the concrete wall steps down to accommodate slope in grade at a regular interval.

- | | |
|---|--|
| <p>03 The foundation plan on sheet 4 suggests that the foundation may impact existing plantings and trees, not shown in elevation on sheet A100. Please confirm how the plans will impact existing plantings. If trees or other landscaping needs to be altered, that should be included in your application.</p> | <ul style="list-style-type: none"> • See updated A100 site plan and elevations. Existing trees have been noted on the elevations (they were noted on the site plan previously). Site plan notes have been updated to reflect 1 existing tree to be removed, the rest to remain. |
| <p>04 Sheet S2.01, detail 5 shows a stepped condition, but I don't see the notation else where in the plans. Please provide details about where this step will occur.</p> | <ul style="list-style-type: none"> • The stepping of the footing will occur as the wall steps to accommodate the change in slope in grade as shown in the elevations. |
| <p>05 Is there a graffiti coating? If so, please provide specifications</p> | <ul style="list-style-type: none"> • There will be. We have not chosen a specific one yet. Is there one recommended by ISRD. It will be clear. |
| <p>06 Updated, signed statement of owner consent form signed by both the owner and the applicant.</p> | <ul style="list-style-type: none"> • attached |
| <p>07 Payment of the application fee. Payment can be made through the Seattle Services Portal.</p> | <ul style="list-style-type: none"> • Will be paid by SIHB |

END OF CORRECTIONS

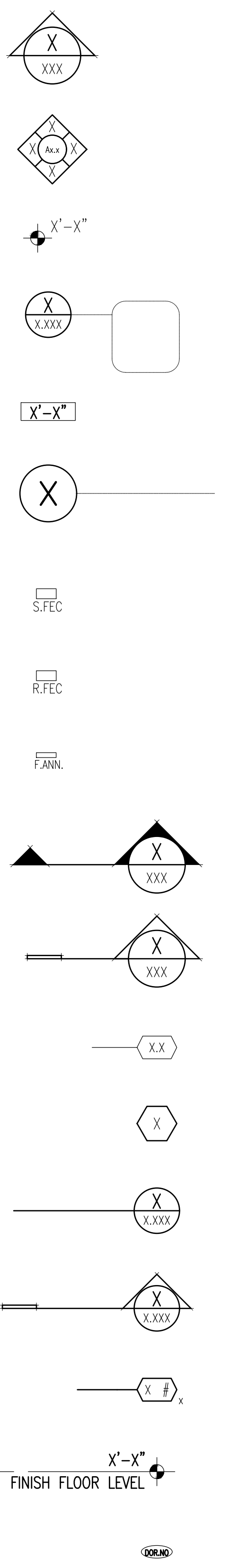
Attachments:

Updated Drawing Set and statement of owner consent

ABBREVIATIONS

@	AT	FP	FIREPROOF	PSI	POUNDS PER SQUARE INCH
Ø	DIAMETER OR ROUND	FRPB	FROST PROOF HOSE BIB	PT	POINT/POINT OF TANGENCY
#	POUND OR NUMBER	FRP	FIBERGLASS REINFORCED PANEL	PTD	FIELD PAINTED
AB	ANCHOR BOLT	FRRT	FIRE RETARDANT	PTN	PARTITION
ABE	AVERAGE BUILDING ELEVATION	FRZR	FREEZER	QTR	QUARTER
ABV	ABOVE	FS	FULL SIZE	QTY	QUANTITY
ACT	ACUSTIC TILE	FST	FIRE SEPARATION DISTANCE	R	RISER/RADIUS/RESISTANCE
ACW	ALUMINUM-CLAD WOOD	FT	FOOT OR FEET	RB	RUBBER BASE
AD	AREA DRAIN	FTG	FOOTING	RD	ROOF DRAIN
ADJ	ADJUSTABLE ADJACENT	GA	GAUGE	REC	RECEIVE
AFF	ABOVE FINISH FLOOR	GAL	GALLON	REF	REFERENCE
AHJ	AUTHORITY HAVING JURISDICTION	GALV	GALVANIZED	REFR	REFRIGERATOR
AHU	AIR HANDLING UNIT	GEN	GENERAL	RENF	REFINISHED
ALT	ALTERNATE	GFI	GROUND FAULT INTERRUPTER	REQD	REQUIRED
ALUMIAL	ALUMINUM	GFRG	GLASS FIBER REINFORCED CONCRETE	RET	RETURN
AP	ACCESS PANEL	GL	GLASS	REV	REVERSE/REVISED/REVISION
APFD	APPROVED	GND	GROUND	RF	ROOF
APPROX	APPROXIMATE	GOVT	GOVERNMENT	REG	ROOFING
ARCH	ARCHITECTURAL	GR	GRADE	RH	RIGHT HAND
ASF	ABOVE SUBFLOOR	GSM	GALVANIZED SHEET METAL	RIGID	RIGID INSULATION
AVG	AVERAGE	GWB	GYPSPUM WALL BOARD	RL	RAIN LEADER (INTERIOR)
BAL	BALANCING BOARD	GYP	GYPSPUM	RM	ROOM
BE	BATH FAN EXHAUST	HB	HOSE BIB	RND	ROUND
BEL	BELOW	HC	HANDICAP/HOLLOW CORE	RO	RANGE/OVEN
BEG	BEYOND	HD	HEAD/HEAVY DUTY	RO	ROUGH OPENING
BLOG	BUILDING	HDR	HEADER	ROW	RIGHT-OF-WAY
BLK	BLOCK, BLOCKING	HDWD	HARDWOOD	RUB	RUBBER
BM	BENCH MARK	HDWR	HARDWARE	RWL	RAINWATER LEADER (INDOORS)
BO	BOTTOM OF	HE	HOOD FAN EXHAUST	S	SOUTH
BOT	BOTTOM	HM	HOLLOW METAL	SALV	SALVAGE (D)
BRK MTL	BRAKE METAL	HOL	HOLLOW	SAM	SELF-ADHESIVE MEMBRANE
BTWN	BETWEEN	HOR	HORIZONTAL	SBC	SBC W/ SEATTLE AMENDMENTS
CSC	CHIEF SEATTLE CLUB	HORIZ	HORIZONTAL	SC	SOLID CORE
C to C	CENTER TO CENTER	HP	HIGH POINT	SCHED	SCHEDULE
CAB	CABINET	HR	HOUR	SCW	SOLID CORE WOOD
CAP	CAPACITY	HT	HEIGHT	SD	SMOKE DETECTOR
CG	CORNER GUARD	HWH	HOT WATER HEATER	SECT	SECTION
CHT	CHANGING TABLE	IBC	INTERNATIONAL BUILDING CODE	SF	SQUARE FEET / STOREFRONT
CIP	CAST-IN-PLACE	ID	INSIDE DIAMETER	SH	SHELF
CJ	CONTROL JOINT	IN	INCHES	SHT	SHEET
CL	CENTERLINE	INCL	INCLUDE (D) (ING)	SHTG	SHEATHING
CLG	CeILING	INCR	INCREASE	SID	SIDING
CLRG	CALLING	INSUL	INSULATION	SIM	SIMILAR
CLO	CLOSET	INT	INTERIOR	SL	SLOPE
CLR	CLEAR	INTM	INTERMEDIATE	SLNT	SLANT
CMU	CONCRETE MASONRY UNIT	INTUM	INTUMESCENT	SPEC	SPECIFICATIONS
COL	COLUMN	INV	INVERT	SPRT	SPORT FLOORING (RUBBER)
CONC	CONCRETE	JST	JOIST	SQ	SQUARE
COND	CONDITION	JT	JOINT	SST	STAINLESS STEEL
CONN	CONNECTION	L	LONG/LENGTH	STC	SOUND TRANSMISSION CLASS
CONST	CONSTRUCTION	LAM	LAMINATE	STD	STANDARD/STUD
CONT	CONTINUOUS	LAV	LAVATORY	STIFF	STIFFENER
CONTR	CONTRACTOR	LE	LAUNDRY FAN EXHAUST	STL	STEEL
CORR	CORROSION/CORRUGATED	LH	LEFT HAND	STOR	STORAGE
CPT	CARPET	LN	LINEAR/LINEAL	STFR	STOREFRONT
CT	CERAMIC TILE	LOCN	LOCATION	STRUCT	STRUCTURAL
CTR	CENTER	LP	LOW POINT	SUB	SUBSTITUTE
CUST	CUSTOM	LT	LIGHT	SUSP	SUSPENDED
CWP	CLEAR WALL PANEL	LTD	LIGHTING	SYM	SYMMETRICAL
D	DEEP (DIM)/DRYER	LVL	LEVEL	SYS	SYSTEM
DE	DRYER EXHAUST	MATL	MATERIAL	T	TOP/TREAD/TOILET/TEMPERED
DEPT	DEPARTMENT	MAX	MAXIMUM	T & G	TONGUE&GROOVE
DETDL	DETAL	MC	MEDICINE CABINET	T-STAT	THERMOSTAT
DF	DRINKING FOUNTAIN	MDF	MEDIUM DENSITY FIBERBOARD	TC	TOP OF CURB
DIA	DIAMETER	MECH	MECHANICAL	TD	TRENCH DRAIN
DIAG	DIAGONAL	MEMB	MEMBRANE	TEL	TELEPHONE
DICA	DRILLED-IN CONC ANCHOR	MFR	MANUFACTURER	TEMP	TEMPORARY/TEMPERATURE/TEMPERED
DIM	DIMENSION	MIN	MINIMUM	THK	THICKNESS
DIR	DIRECTION	MISC	MISCELLANEOUS	THRU	THRU THROUGH
DIV	DIVISION	MLDG	MLDGING	TO	TOP OF
DN	DOWN	MO	MASONRY OPENING	TOC	TOP OF CONCRETE
DP	DAMP/PROOFING	MOT	MOTORIZED	TOP	TOP OF CURB
DO	DITTO	MTD	MOUNTED	TOPL	TOPPING/TOP OF PLATE
DOM	DOMESTIC	METMTL	METAL	TOP OF PARAPET	
DOOR	DOOR	N	NORTH	TOSF	TOP OF SUBFLOOR
DS	DOWNSPOUT (EXTERIOR)	NA	NATURAL FINISH	TOW	TOP OF WALL
DW	DISHWASHER	NEG	NEGATIVE	TP	TOP OF PAVEMENT
DWG	DRAWING	NC	NOT IN CONTRACT	TRANSL	TRANSLUCENT
(E)	EXISTING	NO #	NUMBER	TRTD	TREATED
E	EAST	NOM	NOMINAL	TV	TELEVISION
EA	EACH	NTS	NOT TO SCALE	TWP	TRANSLUCENT WALL PANEL
EL	ELEVATION	OA	OVERALL	TYP	TYPICAL
ELEV	ELEVATOR	OC	ON CENTER	UL	UNDERWRITERS' LABORATORY
ELGC	ELECTRICAL	OD	OUTSIDE DIAMETER	UNFIN	UNFINISHED
EMER	EMERGENCY	OFD	OVERFLOW DRAIN	UNGUON	UNLESS NOTED OTHERWISE
EMR	ELEVATOR MACHINE ROOM	OH	OPPOSITE HAND/OVERHEAD	VAP	VAPOR BARRIER
EQ	EQUAL	OHV	ORDINARY HIGH WATER	VAR	VARIABLE/VARIABLE
EQU	EARTH/JAKE JOINT	OPNG	OPENING	VCT	VINYL COMPOSITION TILE
EQPT	EQUIPMENT	OPP	OPPOSITE	VENT	VENTILATION
EPL	EMERGENCY PATHWAY LIGHTING	OVHD	OVERHEAD	VERT	VERTICAL
EST	ESTIMATE, ESTIMATED	OWS	OPEN-WEB STEEL JOIST	VEST	VESTIBULE
EW	EACH WAY	OZ	OUNCE	VEY	VERIFY
EXC	EXCAVATED	(P)	PROPOSED	VF	VERIFY IN FIELD
EXH	EXHAUST	P	FIELD PAINTED	VD	VERTICAL DRAIN
EXIST	EXISTING	PAR	PARALLEL	VOC	VOLATILE ORGANIC COMPOUNDS
EXPAN	EXPANSION	PART	PARTITION	VOL	VOLUME
EXT	EXTERIOR	PC	PRECAST	VS	VINYL SHEET/SHEET VINYL
FAB	FABRICATED	PERF	PERFORATED	VTR	VENT THROUGH ROOF
FB	FLUSH BEAM	PERP	PERPENDICULAR	W	WEST/WIDE/WASHER
FC	FIBER CEMENT COMPOSITE	PKG	PARKING	WI	WITH
FD	FLOOR DRAIN	PL	PLATE/PROPERTY LINE/PLASTIC	WID	WITHOUT
FE	FIRE EXTINGUISHER	PLYWD	PLYWOOD	WIN	WAINSCOT
FF	FINISH FLOOR/FACTORY FINISHED	PLY	PLYWOOD	WC	WATER CLOSET
FG	FINISH GRADE	PNL	PANEL	WD	WOOD
FP	FACTORY PRIME PAINTED	PNT	PAINT(ED)	WOW	WINDOW
FS	FEDERAL SPECIFICATION	POL	POLISH/POLISHED	WSEC	WASH. STATE ENERGY CODE
FEC	FIRE CABINET	PPL	POLISHED PLATE	WGL	WIRE GLASS
FIN	FINISHED	PR	PAIR	WHD	WALL HUNG
FLASH	FLASHING	PREFAB	PREFABRICATE(D)	WIND	WINDOW
FLEX	FLEXIBLE	PRELIM	PRELIMINARY	WP	WATERPROOFING MEMBRANE
FLR	FLOOR	PROJ	PROJECT/PROJECTION	WR	WATER REPELLENT
FOC	FACE OF CONCRETE	PROP	PROPERTY	WRB	WEATHER RESISTANT BARRIER
FOF	FACE OF FINISH	PROX	PROXIMITY	WS	WEATHERSTRIP
FOIC	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR	YD	YARD DRAIN	WT	WEIGHT
FOM	FACE OF MASONRY			WWM	WELDED WIRE MESH
FOS	FACE OF STUD				

GRAPHIC SYMBOLS



BUILDING ELEVATION

INTERIOR ELEVATIONS

SPOT ELEVATION

DETAIL BUBBLE

CEILING ELEVATION

STRUCTURAL GRID BUBBLE

SURFACE MOUNTED FIRE EXTINGUISHER CABINET

RECESSED FIRE EXTINGUISHER CABINET

FIRE ALARM REMOTE ANNUNCIATOR

BUILDING SECTION LOCATOR

WALL SECTION LOCATOR

WALL TYPE

WINDOW TYPE

DETAIL CUT

DETAIL CUT

FLOOR HEIGHT TRANSITION

DATUM LINE (R)

DOOR TAG

PROJECT DATA

PROJECT LOCATION
611 12TH AVE. S. SEATTLE WA, 98104

KING COUNTY ASSESSOR'S PARCEL NUMBERS
8170100415

LEGAL DESCRIPTIONS
SYNDICATE ADD POR TR DESG SYNDICATE RIDGE DAF - BEG NE COR LOT 2 BLK 5 SYNDICATE ADD THE ALSO ELY EXT OF N LN SD LOT 2 133 FT TO TPOB TH S AT R/A TO SD N LN 107 FT TH E 18 FT TH S 50 FT TH E 27 FT TH S 83 FT TO S LN SYNDICATE RIDGE (N LN S LANE ST) TH N 89-59-32 E ALG SD N LN S LANE ST 252 FT TH N 0-0-32 E 239.98 FT TO S LN S WELER ST TH W ALG SD S LN 297.04 FT TO TPOB AKA PARCEL 2 SEA LLA 8604774 REC 8701020310

ZONING
DMC 85/75-170

SDCI PROJECT #
8813506 (BUILDING PERMIT)

PROJECT DESCRIPTION
INSTALLATION OF THE NEW FENCE ALONG THE SOUTH AND EAST PROPERTY LINES PER PLAN

DIRECTORY

OWNER
Seattle Indian Health Board
611 12th Ave S
Seattle, WA 98104
Ryan Gilbert
T: 206.324.9360 Ext.1106
E:ryang@sihb.org

ARCHITECT
Jones and Jones
105 South Main Street
Suite 300
Seattle, WA 98104
T: 206.424.5702
E: tharghejones@jonesandjones.com
Heather Harghejones

GENERAL CONTRACTOR
TBD

STRUCTURAL ENGINEER
Lund Opsahl
1201 First Ave South
Suite 310
Seattle, WA, 98134
T: 206.402.5156
E: snoberge@lundopsahl.com
Shawn Roberge

DRAWING INDEX

GENERAL
G001 COVER SHEET

SURVEY

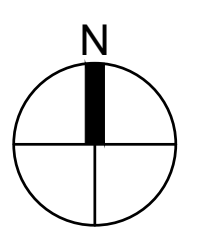
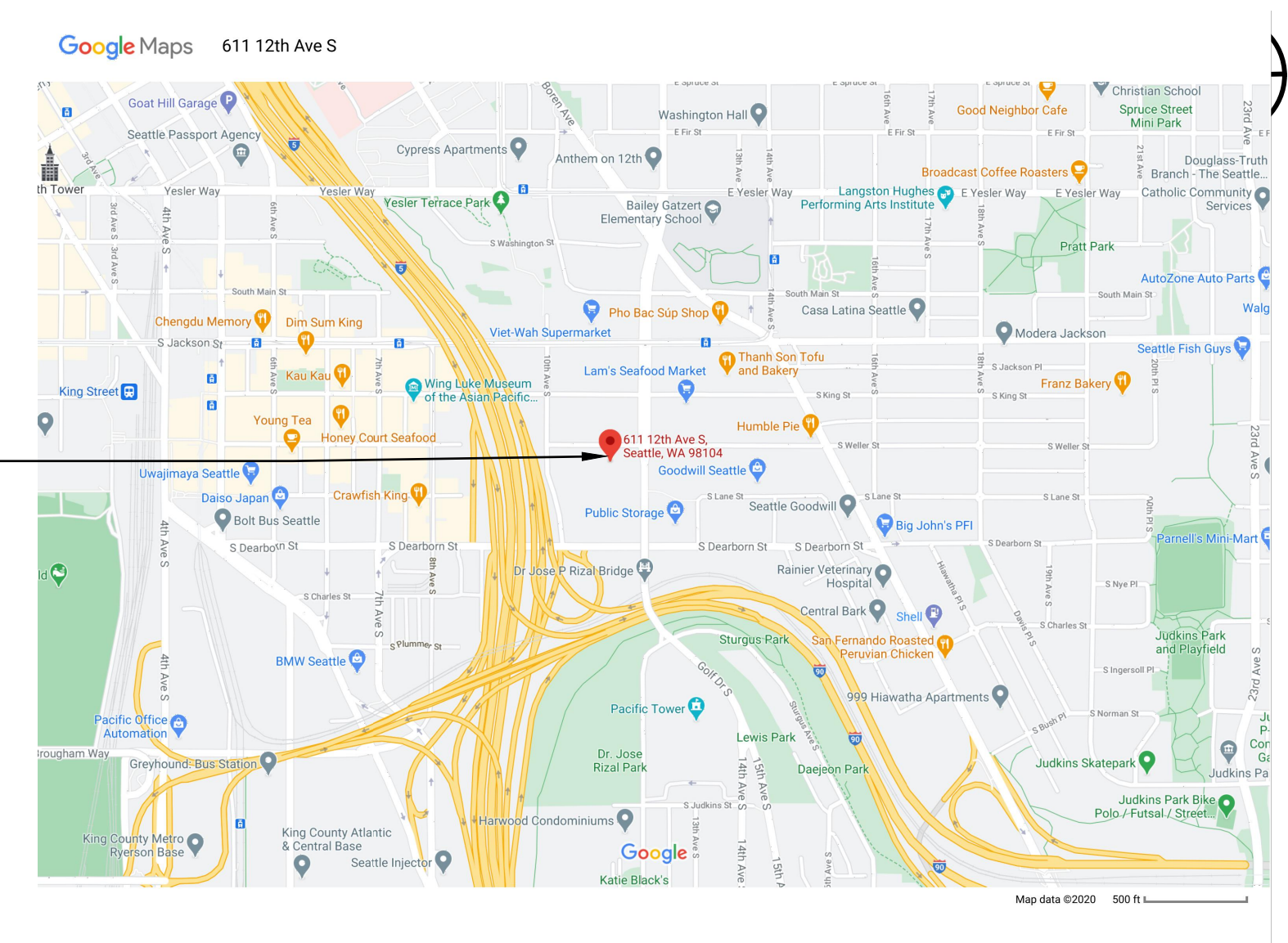
ARCHITECTURAL
A100 NEW AND EXISTING PLAN AND ELEVATIONS

STRUCTURAL
S101 STRUCTURAL GENERAL NOTES
S201 FENCE FOUNDATION PLAN AND DETAILS

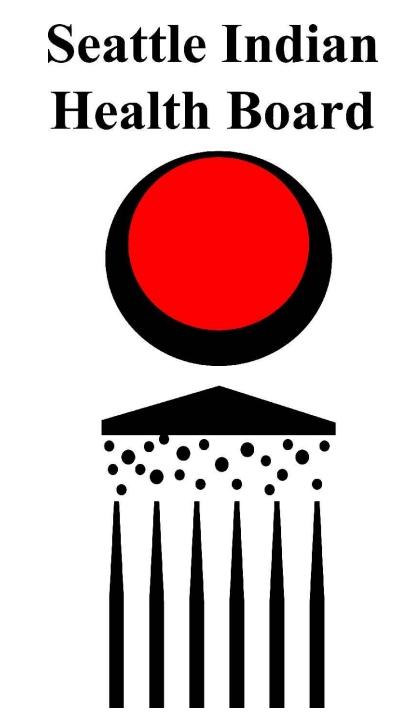
GENERAL NOTES

- ALL WORK SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE SEATTLE EXISTING BUILDING CODE (SEBC) (ADOPTED THE 2015 INTERNATIONAL EXISTING BUILDING CODE), AND ALL OTHER APPLICABLE CODES
- CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND VERIFY LOCATION OF WORK WITH THE ARCHITECTS. NO SCALE MEASUREMENTS SHALL BE USED AS DIMENSIONS FOR WORK. LARGER SCALED DETAILS AND DRAWINGS SHALL TAKE PRECEDENCE OVER SMALLER. NOTIFY THE ARCHITECT WHENEVER DIMENSION DISCREPANCIES ARISE.
- CONTRACTOR IS SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITION OF THE JOB SITE, INCLUDING SAFETY, PROTECTION OF THE PROPERTY, AND THE LIKE DURING PERFORMANCE OF THE WORK
- CONTRACTOR SHALL PROVIDED METHODS, MEANS, AND FACILITIES REQUIRED TO PREVENT CONTAMINATION OF SOIL, WATER OR ATMOSPHERE.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE OWNER'S WORK AND/OR SUPPLIED ITEMS THAT ARE FURNISHED BY OWNER AND INSTALLED BY CONTRACTS OR ARE NOT IN CONTRACT, BUT ARE ATTACHED TO THE CONTRACTOR'S WORK.
- BUILDING IS TO BE FULLY SPRINKLERED.
- ALL FURRED WALLS SHALL HAVE VERTICAL AND LATERAL DRAFTSTOPS PER SBC.
- DRAWINGS ISSUED FOR CONSTRUCTION PRIOR TO FINAL PERMITTING APPROVAL ARE SUBJECT TO REVISIONS. VERIFY CONSTRUCTION DOCUMENTS CONFORM TO PERMIT DRAWINGS BEFORE PROCEEDING WITH WORK. NOTIFY ARCHITECT WHENEVER DISCREPANCIES ARISE.
- DIMENSIONS ARE TO: FACE OF MASONRY (FOM), FACE OF CONCRETE (FOC), OR FACE OR STUD (FOS) UNLESS NOTED OTHERWISE (UNO) DIMENSIONS INDICATED AS CLEAR (CLR) OR FINISH (FIN) ARE TO FINISH FACE.
- GRADING MUST BE STABILIZED BY OCTOBER 31. NO EXCAVATION TO BE PERFORMED BETWEEN OCTOBER 31 AND APRIL 1 WITHOUT AN APPROVED DRY SEASON GRADING EXTENSION LETTER FROM DPD.
- DESTINATION OF EXCAVATION SOILS TO BE DETERMINED. DPD WILL BE NOTIFIED OF DISPOSAL SITE AFTER CONFIRMATION BY EARTHWORK SUBCONTRACTOR.

VICINITY MAP



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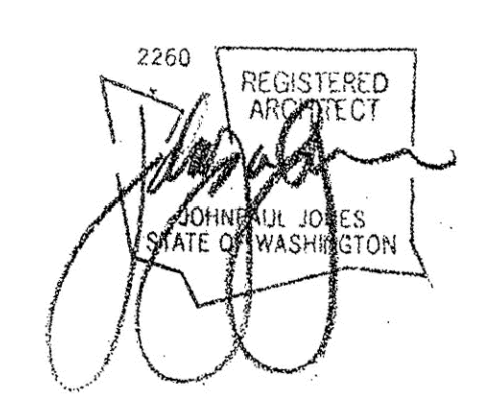
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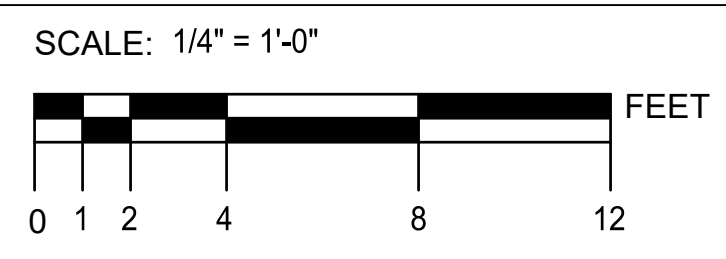
SEATTLE INDIAN HEALTH BOARD
611 12th Ave S
Seattle, WA 98104

DATE: 22 March 2021

REVISIONS:
Permit Submission 24 Dec 2020
Cert. of Approval 01 Feb 2021
Cert. of Approval 04 Mar 2021
Cert. of Approval 22 Mar 2021



COVER SHEET



DRAWN BY: GAR
CHECKED BY: HLH
JOB NO.: 23005.109

SHEET NO.: **G001**

All drawings and material appearing herein are the original and unpublished work of the architect and may not be duplicated, used, or disclosed without the written consent of Jones & Jones.

GENERAL REQUIREMENTS

SUMMARY OF WORK

Project consists of cast in place footings for new non-structural pre-cast concrete security walls as shown on these Contract Documents used in coordination with the Architectural and other discipline's documents.

GOVERNING CODE

All design and construction shall conform to the 2015 International Building Code and local jurisdiction amendments.

Reference to ASTM and other standards shall refer to the latest edition designated by IBC Chapter 35. Refer to the specifications for information in addition to that covered by these structural notes and drawings.

DOCUMENTS

Structural Documents shall be used in conjunction with Architectural Documents for all bidding and construction.

Drawings indicate general and typical details of construction. Typical details and general notes shall apply even if not specifically denoted on plans. UNO. Where conditions are not specifically indicated similar details of construction shall be used, subject to review and approval by the Architect and the SER.

Existing structural information, designated as (E) on the structural drawings, has been compiled from information furnished by various sources and is not necessarily field-verified by the engineer. Dimensions relating to existing structures are intended for use as guidelines only; all dimensions shall be field-verified by the contractor prior to start of construction. Notify the Architect of any discrepancies.

These Contract Documents and any materials used in preparation of them, including calculations, are the exclusive property of the SER and can be reproduced only with the permission of the SER.

WARRANTY

The SER has used that degree of care and skill ordinarily exercised under similar circumstances by members of the profession in this locale and no other warranty, either expressed or implied, is made in connection with rendering professional services.

OWNER RESPONSIBILITY

The owner shall retain a Special Inspector to perform the special inspection requirements required by the building official and as outlined in the Special Inspection section below.

DESIGN CRITERIA

BUILDING CATEGORY

Structural Risk Category II
Importance factors for snow and seismic are listed with the loading criteria.

LATERAL LOADS - WIND

Numbering below is per IBC Section 1603.1.4:

- Ultimate Design Wind Speed (3-second gust): $V_{ult} = 110$ mph
- Nominal Design Wind Speed: $V_{50} = 85$ mph
- Risk Category: II
- Wind Exposure: B
- Internal Pressure Coefficient = +/- 0.18

Additional Info:

- Topographic factor: $K_{zt} = 1.37$
- Directionality factor: $K_d = 0.85$
- Enclosure classification: Open
- Gust Effect Factor: $G = 0.85$
- Design Base shear: $V = 1.632$ kips
- Analysis procedure: Directional

LATERAL LOADS - EARTHQUAKE

Numbering below is per IBC Section 1603.1.5:

- Risk Category: II
- Seismic Importance Factor: $I_p = 1.0$
- Mapped Spectral Response Acceleration Parameters: $S_s = 1.411$ g; $S_1 = 0.492$ g
- Site Class: D; $F_a = 1.0$; $F_v = 1.5$
- Design Spectral Response Acceleration Parameters: $S_{DS} = xxx$ g; $S_{D1} = xxx$ g
- Seismic Design Category: D
- Design Base Shear: 4.4 kips
- Seismic Response Coefficient: $C_s = 0.452$
- Response Modification Coefficient: $R = 2.5$
- Analysis Procedure: Equivalent Lateral Force Procedure

Additional Items:

Building Location: 47.5972829° N, -122.3179333° W
Wall Height = 10 feet

CONTRACTOR PERFORMANCE REQUIREMENTS

DESIGN DOCUMENTS

Contractor shall verify all dimensions and all conditions at the job site, including building and site conditions before commencing work, and be responsible for same. All discrepancies shall be reported to the Architect before proceeding with work. Any errors, ambiguities and/or omissions in the contract documents shall be reported to the Architect immediately, in writing. No work is to be started before correction is made.

Contractor shall verify and/or coordinate all dimensioned openings and slab edges shown on the contract documents. Some dimensions, openings and embedded items are shown on the structural drawings. Others may be required. Refer to architectural drawings for size and location of curbs, equipment pads, wall and floor openings, architectural treatment, embeds required for architectural items and dimensions. Refer to mechanical, plumbing, electrical and fire protection drawings for size and location of all openings for ducts, piping, conduits, etc. Submit openings to architect for review.

Do not scale drawings. Use only field verified dimensions. When electronic plan files are provided for the Contractor's detailing convenience, it shall be noted that the electronic files are not guaranteed to be dimensionally accurate. The Contractor uses them at their own risk. The published paper documents are the controlling Contract Documents. Electronic files of detail sheets and notes will not be provided.

CONTRACTOR-INITIATED CHANGES

Contractor-initiated changes shall be submitted in writing to the Architect for review and acceptance prior to fabrication or construction. Changes shown on shop drawings only will not satisfy this requirement.

INSPECTIONS

The Contractor shall coordinate with the building department for all building department required inspections.

TEMPORARY SHORING AND BRACING

The Contractor shall provide temporary bracing as required until all permanent connections and stiffening have been installed. The Contractor is responsible for the strength and stability of all partially completed structures including but not limited to concrete or masonry walls, steel framing and erection aids. The Contractor shall, at their discretion, employ the aid of a licensed Structural Engineer to design all temporary bracing and shoring necessary to complete the work described in these contract documents. The Contractor shall be responsible for all required safety standards, safety precautions and the methods, techniques, sequences or procedures required in performing their work. For concrete construction refer to ACI 318 - Section 26.11.2 "Removal of Formwork".

SAFETY PROCEDURES

Contractor shall be responsible for all safety precautions and the methods, techniques, sequences or procedures required to perform the Contractor's work. The Structural Engineer 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 Structural Engineer 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.

SHOP DRAWINGS AND SUBMITTALS

SHOP DRAWING & SUBMITTAL REVIEW (including Deferred Structural Components)

The contractor must review and stamp the shop drawings & submittals for review. SER will only review submittals for items shown on SER documents. Submittals for Deferred Structural Components will receive cursory review by SER for loads imposed on primary structure. SER will review shop drawings for general conformance with design concept of the project and general compliance with the information given in the Structural Contract Documents. Review of submittals does not constitute approval or acceptance of unauthorized deviation from Contract Documents.

Corrections or comments made on shop drawings during this review do not relieve contractor from compliance with the requirements of the plans and specifications.

Contractor responsible for:

- Reviewing, approving, stamping and signing submittals prior to submittal to Architect and SER
- Timing submittals to allow two weeks of review time for the SER and time for corrections and/or resubmittal
- Conformance to requirements of the Contract Documents
- Dimensions and quantities
- Verifying information to be confirmed or coordinated
- Information solely for fabrication, safety, means, methods, techniques and sequences of construction
- Coordination of all trades

Resubmittals shall be clouded and dated for all changes to the submittal. Only clouded portions of resubmittal will be reviewed and SER's review stamp applies to only these areas.

SUBSTITUTIONS

Substitutions shall be submitted in writing prior to submittal of shop drawings. Shop drawings bearing substitutions will be rejected. Submit engineering data to substantiate the equivalence of the proposed items. The SER's basic services contract does not include review of substitutions that require re-engineering of the item or adjacent structure. Nor does the SER's contract cover excessive review of proposed substitutions. The fees for making these reviews and/or redesign shall be paid by the contractor. Reviews and approvals shall not be made until authorization is received.

SHOP DRAWINGS AND SUBMITTALS (con't)

SUBMITTALS

Shop drawings and material submittals shall be submitted to the Architect and SER prior to any fabrication or construction for the following structural items. Submittals shall include one reproducible and one copy; reproducible will be marked and returned. If deviations, discrepancies, or conflicts between shop drawings submittals and the contract documents are discovered either prior to or after shop drawing submittals are processed by the SER, the Contract Documents control and shall be followed.

- Construction sequence description
- Contractor quality control testing procedures when required in specifications
- Concrete mix designs
- Concrete construction joint plans
- Concrete accessories, material specification, size and location
- Fabrication shop AISC Certification

INSPECTIONS

INSPECTIONS BY BUILDING OFFICIAL

The building official, upon notification, shall make structural inspections as required by local ordinance. The inspection by the building official per IBC Section 110 will be separate from and in addition to the special inspection and structural observation mentioned subsequently.

SPECIAL INSPECTIONS

A Special Inspector shall be hired by the owner to perform the following special inspections per IBC Section 1704.

See the specifications for additional requirements for special inspection and testing. The architect, structural engineer, and building department shall be furnished with copies of all inspection reports and test results.

Each contractor responsible for the construction of a seismic force resisting system, designated seismic system, or component listed in the statement of special inspections shall submit a written statement of responsibility to the building official and the owner prior to the commencement of work on the system or component. The written statement shall be in accordance with IBC Section 1704.4.

See IBC Chapter 17: "Special Inspections and Tests" for more detailed requirements.

SPECIAL INSPECTIONS AND TESTS OF SOILS (PER IBC 1705.6)

Verification and Inspection	Frequency		Reference
	Cont.	Periodic	
Verify materials below shallow foundations are adequate to achieve the design bearing capacity		X	
Verify that excavations are extended to proper depth and have reached proper material		X	
Perform classification and testing of compacted fill materials		X	
Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill	X		
Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly		X	

SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION (PER IBC 1705.3)

Verification and Inspection	Frequency		Reference
	Cont.	Periodic	
Inspect reinforcement and verify placement		X	IBC 1908.4 ACI 318: 20, 25.2, 25.3, 26.6.1-3
Verifying use of required design mix		X	IBC 1904.1, 1904.2, 1908.2, 1908.3, ACI 318: CH. 19, 26.4.3, 26.4.4
Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	X		IBC 1908.10 ACI 318: 26.4, 26.12 ASTM C172, C31 Seattle DCI DR 14-2014
Inspection of concrete and shotcrete placement for proper application techniques	X		IBC 1908.6, 1908.7, 1908.8 ACI 318: 26.5
Verify maintenance of specified curing temperature and techniques		X	IBC 1908.9 ACI 318: 26.5.3- 26.5.5
Inspect formwork for shape, location and dimensions of the concrete being formed		X	ACI 318: 26.11.1,2(b)

GEOTECHNICAL

GENERAL CRITERIA

Allowable soil pressure and lateral earth pressure are assumed and therefore must be verified by a Geotechnical Engineer or the building official. If soils are found to be other than assumed, notify the Structural Engineer for possible foundation redesign.

Unless noted otherwise, footings shall be centered below columns or walls.

INSPECTIONS

All prepared soil-bearing surfaces shall be inspected by the owners Geotechnical Inspector (or building official) prior to placement of reinforcing steel and concrete. Inspections shall be made per IBC Table 1705.6.

BEARING VALUES

All footings shall bear on undisturbed soil and shall be lowered to firm bearing if suitable soil is not found at elevations shown. Exterior footings shall bear a minimum of 18" below the finished ground surface. Footing elevations shown on plans (or in details) are minimum depths and for guidance only; the actual elevations of footings must be established by the Contractor in the field working with the Geotechnical Inspector.

Allowable vertical bearing soil pressure = 1,500 psf

SUBGRADE PREPARATION

Prepare subgrade per the Geotechnical Report, summarized as follows: All footings shall be cast on undisturbed firm natural soils that are free of organic materials. Footing excavation shall be free of loose soils, sloughs, debris and free of water at all times. If organic silt and/or fill material is encountered at subgrade elevations, overexcavate a minimum of 2'-0" below the design foundation subgrade elevation prior to placing footings. The overexcavated areas shall be backfilled with structural fill compacted to 95% proctor per ASTM D-1557 or a lean concrete mix.

EXISTING UTILITIES

The Contractor shall determine the location of all adjacent underground utilities prior to any excavation, shoring, pile driving, or pier drilling. Any utility information shown on the plans and details are approximate and not verified by the SER. Contractor is to provide protection of any utilities or underground structures during construction.

DRAINAGE

Drainage systems, including foundation, roof and surface drains, shall be installed as directed by the Geotechnical Report. Vapor retarder placed below slab-on-grade shall conform to ASTM E 1643 and ASTM E 745.

RETAINING WALLS

Grade on either side of concrete walls shall not vary by more than 12"; UNO. Slope of backfill shall not exceed 2H to 1V, UNO. Backfill behind all retaining walls with free draining, granular fill installed per the Geotechnical Report. Provide for subsurface drainage. Design pressures used for the design of retaining walls are based on drained conditions.

Active earth pressure (restrained/unrestrained) = 50/35 PCF
Passive earth pressure = 350 PCF
Coefficient of friction (factor of safety of 1.5 included) = 0.35

Provide temporary shoring for tops of walls if backfill is placed prior to the supporting structure being constructed. Supporting structure is the floor framing and sheathing completely installed and attached to perpendicular walls.

CONCRETE

CAST-IN-PLACE CONCRETE

Concrete materials shall conform to the following:

Portland cement:	Type I, ASTM C150
Fly ash (if used):	ASTM C618 class F or C
Slag cement (if used):	ASTM C989
Lightweight aggregates:	lightweight aggregates shall not be used without prior approval of SER and building department
Normal weight aggregates:	ASTM C33
Sand equivalent:	ASTM C93
Water:	Potable per ASTM C94
Air entraining admixtures:	ASTM C260
Chemical admixtures:	ASTM C494
Flowable concrete admixtures:	ASTM C1017

Durability requirements of concrete mixes shall conform to building code. These requirements include water-cementitious material ratios, minimum compressive strengths, air entrainment, type of cement, and maximum chloride ion content.

CONCRETE STRENGTH REQUIREMENTS TABLE

Location	Strength f'c (psi)	Max Agg Size	Max W/C Ratio	Total Air Content	Exposure Categories and Classes			
					F	S	W	C
Foundations, stem walls	4,000	1"	0.44	4.5%	F1	S0	W0	C1

CONCRETE MIXTURES

Mixes shall be proportioned to meet compliance requirements of ACI 318 Section 26.4.3. Slump, W/C ratio, admixtures and aggregate size will be determined by the contractor. Submit documentation of concrete mixture characteristics for review by the SER before the mixture is used and before making changes to mixtures already in use. Documentation shall comply with ACI 318 Section 26.4.4 or City of Seattle Director's Rule 11-2014.

All concrete, including slab on grade, shall contain an acceptable water-reducing admixture conforming to ASTM C494 and be used in strict accordance with the manufacturer's recommendations.

All concrete which is exposed to freezing and thawing in a moist condition or exposed to deicing chemicals shall contain an air entraining agent, conforming to ASTM C260. Total air content shall be adjusted per ACI 318 for mix designs with smaller nominal aggregate size. The amount of entrained air shall be measured at the discharge end of the placing nozzle. Entrained air shall be as noted ± 1.0% by volume. Air-entrainment shall not be used at slabs that will receive a smooth, dense, hard-troweled finish.

Trucks hauling plant-mixed concrete shall arrive on-site with a field ticket indicating the maximum gallons of water that can be added at the site not to exceed the total water content in the approved mix design.

Concrete shall be deposited as nearly as practicable in its final position to avoid segregation due to rehandling or flowing. Concrete shall be thoroughly consolidated by suitable means during placement and shall be thoroughly worked around reinforcement, embedded items, and into corners of forms.

FORMWORK AND ACCESSORIES

Concrete construction shall conform to ACI 301 "Specifications for Structural Concrete" and the Building Code, including testing procedures. See specifications and/or architectural documents for formwork requirements. Installation shall adhere to ACI 301. Conduits and pipes of aluminum shall not be embedded in concrete construction.

See architectural drawings for exact locations and dimensions of door and window openings in all concrete walls. See mechanical drawings for size and location of mechanical openings through concrete walls. See architectural drawings for all grooves, notches, chamfers, feature strips, color, texture, and other finish details at all exposed concrete surfaces, both cast-in-place and precast. See structural details for reinforcing around openings.

Contractor shall submit the proposed locations of construction joints to the Architect for acceptance before starting construction. Erico Lenton Form-saver (ER-0129) may be used as an alternate to the roughened joint. All construction, control, and isolation joints for slabs on ground shall be in accordance with the typical details.

Concrete accessories and embedded items shall be coordinated with Architectural and all other Contract Documents and suppliers' drawings before placing concrete. Wet-setting of anchor rods, reinforcing hardware, etc. is not allowed in concrete. Anchor rods, reinforcing, hardware, etc. shall be firmly tied in place prior to concrete placement.

Refer to Architectural documents for waterstops, damp proofing, and soil retaining wall drainage requirements at concrete and at concrete joints (construction joints, slab to wall joints, curb to slab joints, etc).

CURING AND FINISHES

Protect and cure freshly placed concrete per ACI 305.1 in hot conditions, ACI 306.1 in cold conditions, and ACI 308.1 "Specification for Curing Concrete". All exposed edges and corners shall have 3/4" chamfer. UNO. Concrete formwork shall be sloped to provide positive drainage. Coordinate finish with architectural contract documents.

At the time of application of finish materials or special treatment to concrete, moisture content of concrete shall conform to requirements in finish material specifications. Where vapor sensitive coverings are to be placed on slabs on grade, conform strictly to slab covering manufacturer's recommendations regarding vapor retarder and granular fill requirements below the slab.

CONCRETE CRACK MAINTENANCE

Cracking occurs in concrete structures due to inherent shrinkage, creep, and the restraining effects of walls and other structural elements. Most cracking due to shrinkage and creep will likely occur over the first two years of the life of the structure; further concrete movement due to variations in temperature may persist. Cracks that result in water penetration will need to be repaired to protect reinforcing. Other cracking may be repaired at the owner's discretion for aesthetic reasons or performance of applied finishes. Prior to repairing cracks, a structural engineer should be consulted to provide direction on which cracks to repair and on whether observed cracks may affect the strength of the structure.

REINFORCEMENT IN CONCRETE AND MASONRY

REINFORCING STEEL

Reinforcing steel shall conform to ASTM A615 (including supplement S1), Grade 60, $F_y = 60,000$ psi, except any bars specifically so noted on the drawings shall be Grade 40, $F_y = 40,000$ psi.

PROCEDURES

Reinforcing steel shall be detailed (including hooks and bends) in accordance with ACI 315 "Details and Detailing of Concrete Reinforcement". Lap all reinforcement in accordance with "The Reinforcing Splice and Development Length Schedule" on these documents, if table is not provided; lap all reinforcing by 40-bar diameters. Provide corner bars at all wall and footing intersections.

Reinforcing steel shall be adequately supported to prevent displacement during concrete and grout placement. Bars shall be bent cold.

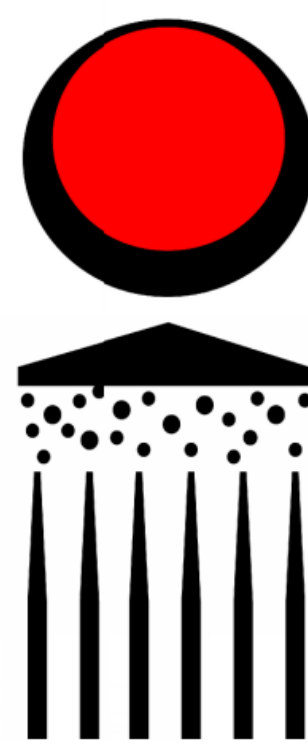
Bars partially embedded in concrete shall not be field bent, unless specifically so detailed or approved by the SER.

Mechanical connection of continuous reinforcing bar shall be used where shown on documents and may be substituted for lap splices if approved by the SER. Such connections shall develop at least 125% of the specified yield strength of the bar. Acceptable connectors shall be the Erico Lenton Plus Standard Coupler (ER-3967), Dayton Superior Bar-Lock L Series (ER-5064), or approved equal.

Welding or tack welding of reinforcing bars to other bars or to plates, angles, etc. is prohibited, except where specifically approved by the SER. Where welding is approved, it shall be done by AWS/WABO-certified welders using E9018 or approved electrodes. Welding procedures shall conform to the requirements of AWS D14. Any Grade 60 reinforcing bars indicated on drawings to be welded shall conform to ASTM A706. Reinforcement complying with ASTM A615 (S1) may be welded only if material property reports indicating conformance with welding procedures specified in AWS D14 are submitted. Welding within 4" of cold bends in reinforcing steel is not permitted.

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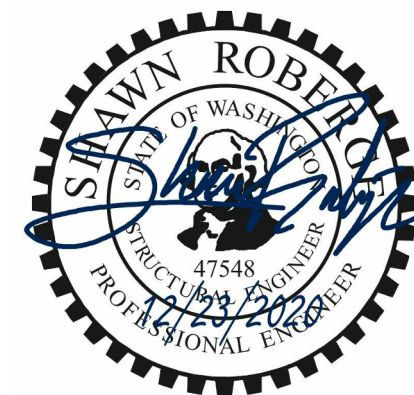
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Seattle, WA 98104

DATE: 12/23/2020

REVISIONS:



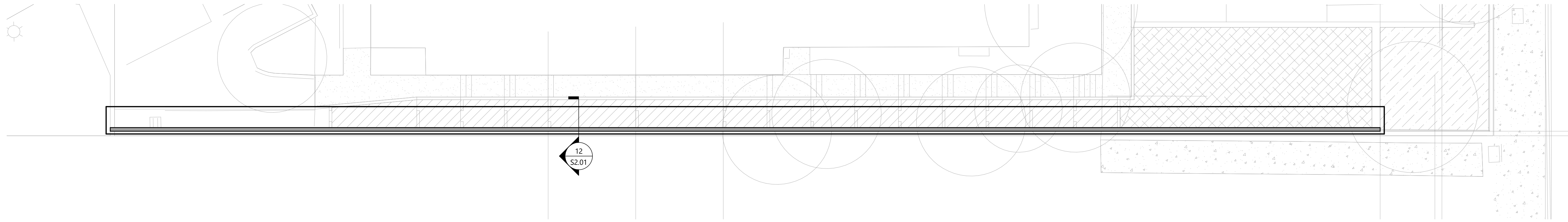
STRUCTURAL
GENERAL
NOTES

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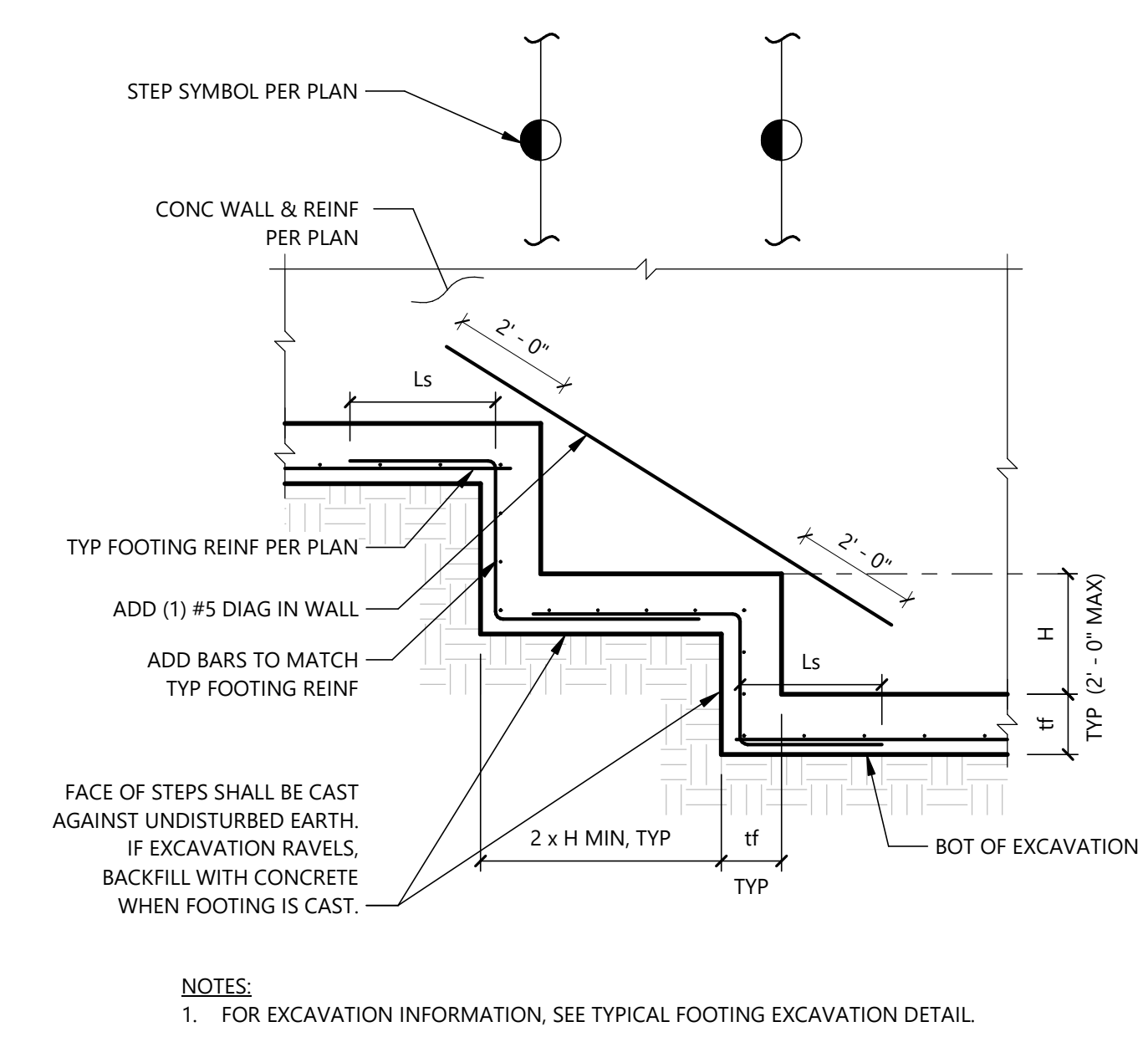
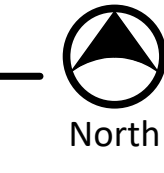
CHECKED BY: SR

JOB NO: 20-192-01

SHEET NO.: S1.01



1 FOUNDATION PLAN
Scale: 1" = 10'-0"



CONCRETE COVER FOR REINFORCING STEEL

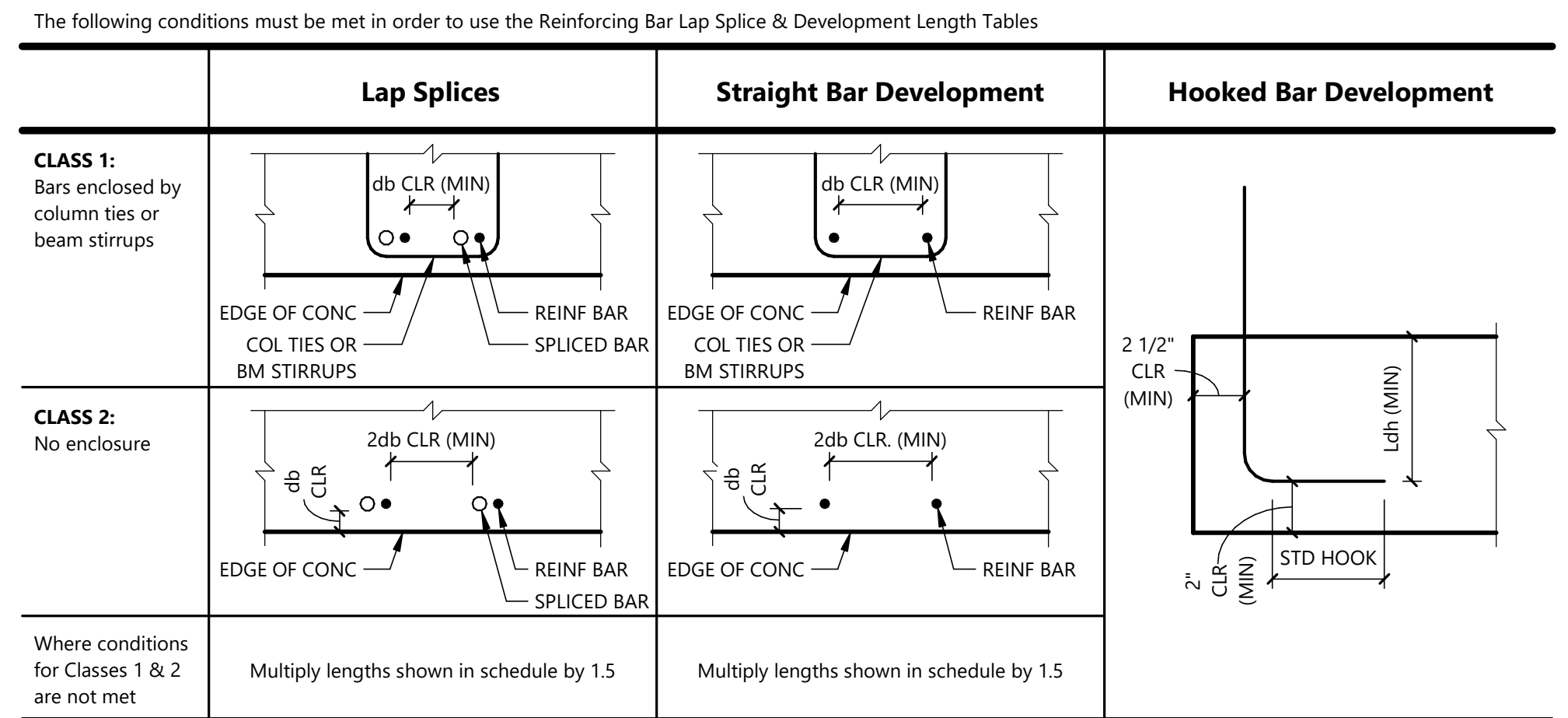
Reinforcing Bar Location	Minimum Concrete Cover
Unformed surfaces cast against and permanently exposed to earth	3"
Formed surfaces exposed to earth or weather (#6 bars and larger)	2"
Formed surfaces exposed to earth or weather (#5 bars and smaller)	1 1/2"
Columns and beams w/ bars enclosed in stirrups, ties or spiral reinforcement	1 1/2"
Slabs, joists and interior faces of walls (#11 bars and smaller)	3/4"
2-hour and 3-hour slabs	(Refer to plan notes)
Clear spacing between longitudinal bars in columns and boundary elements	1 1/2" or 1.5db
Clear spacing between parallel bars in a layer	1" or db
Clear spacing between (2) or more parallel layers	1"

Notes:
1. Where a thickness of cover required for fire protection is greater than that specified in this table, the greater thickness shall be used.
2. Where two values are shown, the greater shall be used.

5 Typical Stepped Footing
Scale: 3/8" = 1'-0"

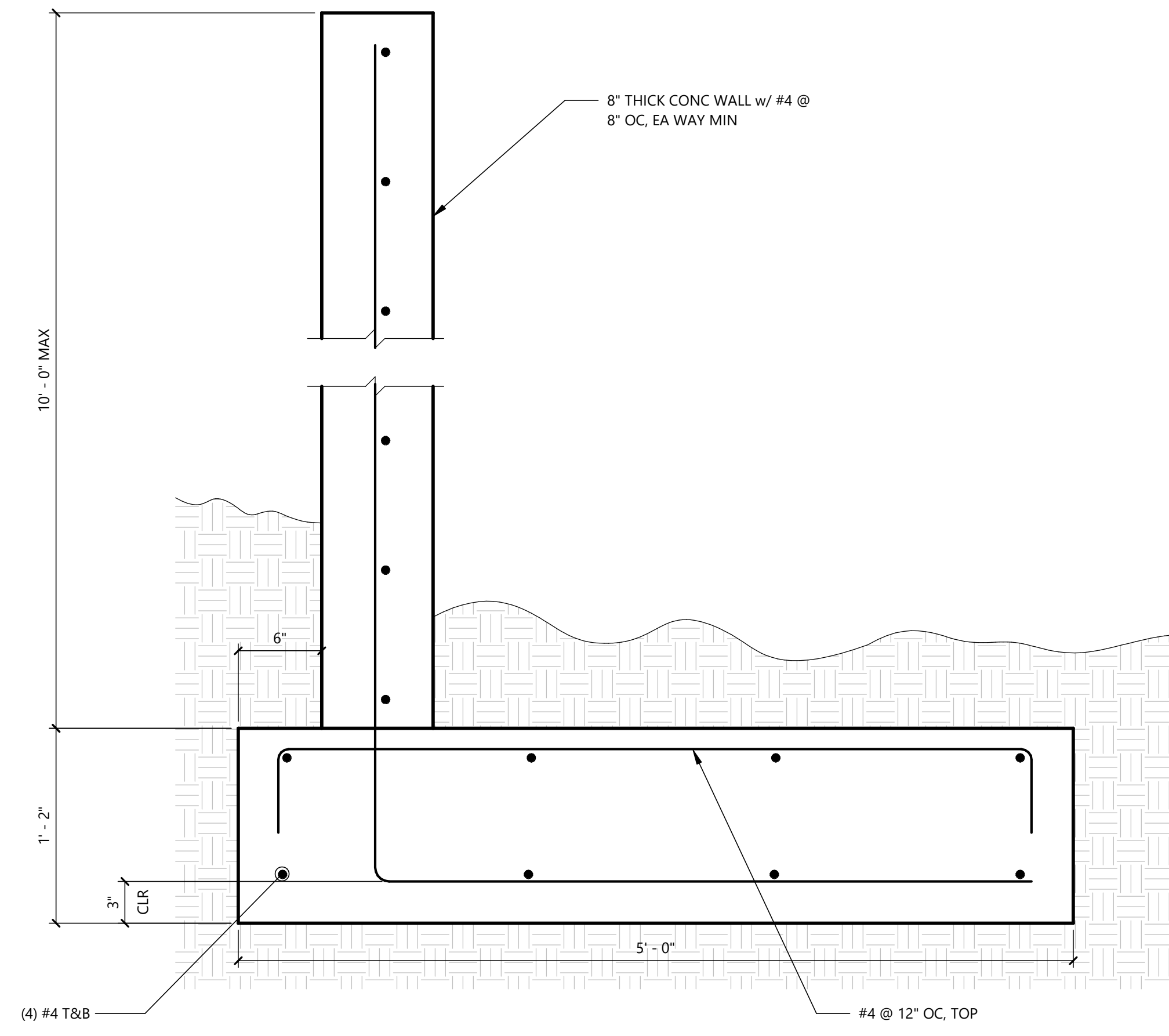
6 Concrete Cover for Reinforcing Steel

REINFORCING BAR LAP SPLICE & DEVELOPMENT LENGTH DIAGRAMS



REINFORCING BAR LAP SPLICE & DEVELOPMENT LENGTH TABLE
f'c = 4,000 psi Grade 60 Reinforcing

Bar Size	Min Lap Splice Lengths (Ls)		Min Straight Bar Development Lengths (Ld)		Min Hooked Bar Embedment Lengths (Ldh)
	Top Bars	Other Bars	Top Bars	Other Bars	
#3	25"	19"	19"	15"	8"
#4	32"	25"	25"	19"	10"
#5	41"	31"	31"	24"	12"
#6	49"	37"	37"	29"	15"
#7	71"	54"	54"	42"	17"
#8	81"	62"	62"	48"	19"
#9	91"	70"	70"	54"	22"
#10	102"	79"	79"	61"	25"
#11	114"	87"	87"	67"	27"

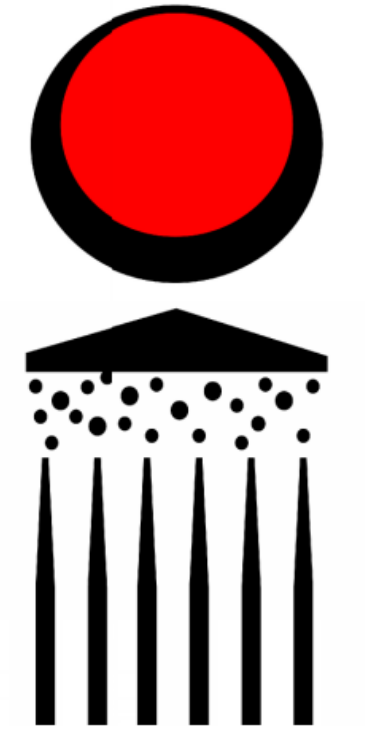


12 Typical Wall and Footing
Scale: 1 1/2" = 1'-0"

9 Reinforcing Bar Lap Splice & Development Length Tables

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Seattle, WA 98104

DATE: 12/23/2020

REVISIONS:



FOUNDATION PLAN AND DETAILS

DRAWN BY: DG
CHECKED BY: SR

JOB NO: 20-192-01

SHEET NO.: S2.01



STRUCTURAL CALCULATIONS

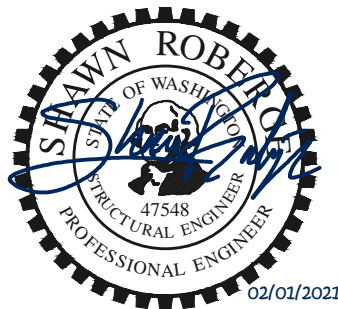
#20-192-01

Security Wall and Site Features

611 12th Ave,
Seattle, WA 98104

for
Jones and Jones Architects Landscape Architects Planners

February 1, 2021





Project Security Wall

Sheet 3

Subject

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Client

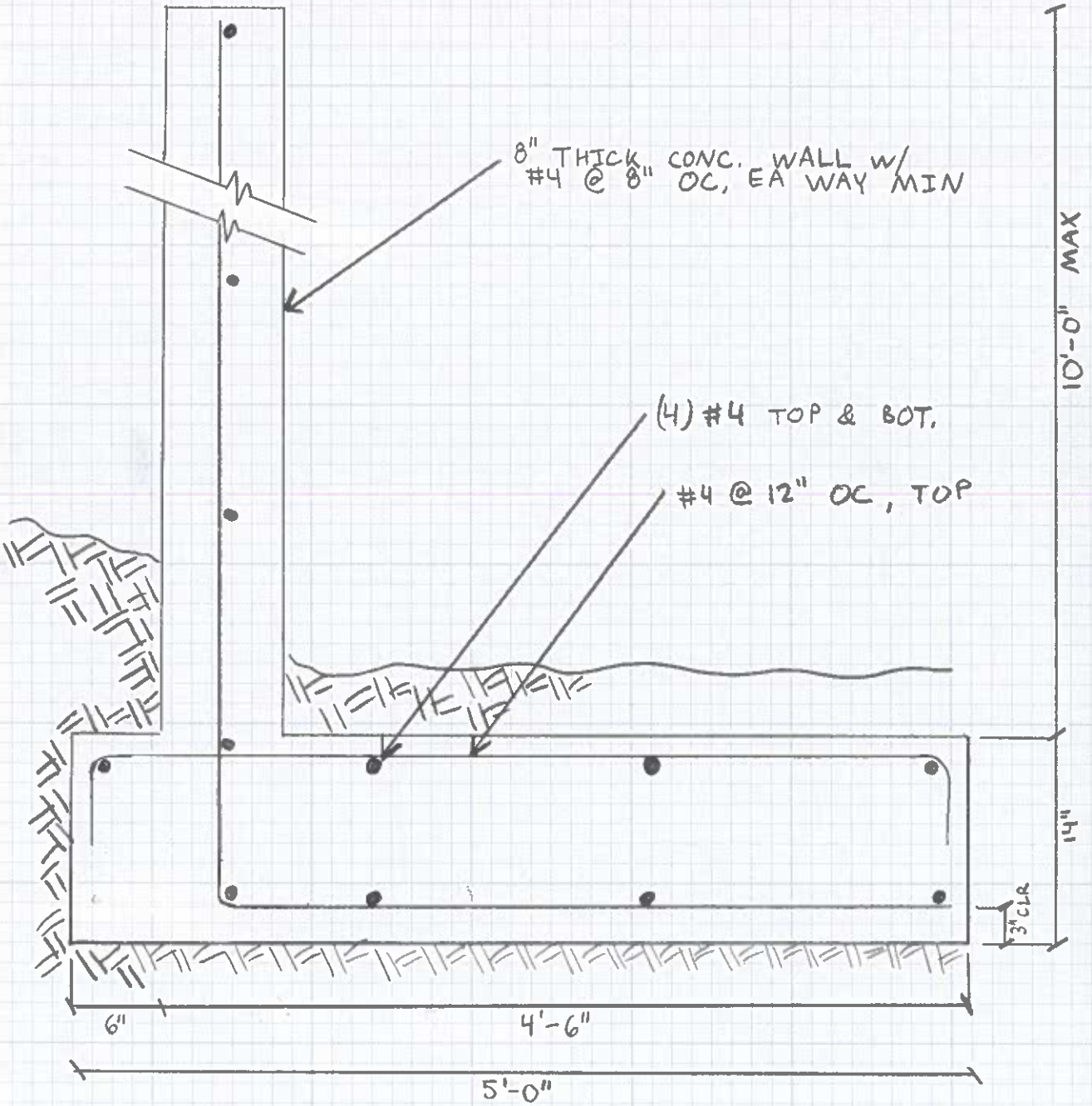
Project No.

Designer AC

Date 2/1

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DESIGN SUMMARY FOR CAST-IN-PLACE WALL AND FOOTING



① CAST IN PLACE CONC. SECURITY WALL
SCALE $\frac{3}{32}'' = 1''$

Search Information

Address: 611 12th Ave S, Seattle, WA 98144, USA

Coordinates: 47.5972829, -122.3179333

Elevation: 169 ft

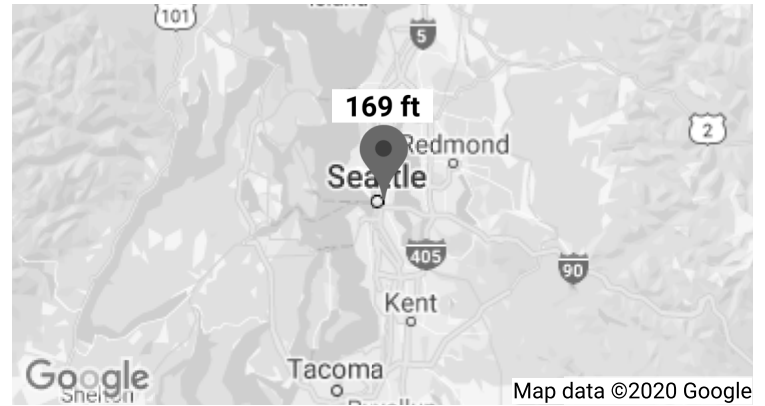
Timestamp: 2020-12-17T20:03:16.371Z

Hazard Type: Seismic

Reference Document: ASCE7-16

Risk Category: II

Site Class: D-default



Basic Parameters

Name	Value	Description
S_S	1.411	MCE_R ground motion (period=0.2s)
S_1	0.492	MCE_R ground motion (period=1.0s)
S_{MS}	1.693	Site-modified spectral acceleration value
S_{M1}	* null	Site-modified spectral acceleration value
S_{DS}	1.129	Numeric seismic design value at 0.2s SA
S_{D1}	* null	Numeric seismic design value at 1.0s SA

* See Section 11.4.8

▼Additional Information

Name	Value	Description
SDC	* null	Seismic design category
F_a	1.2	Site amplification factor at 0.2s
F_v	* null	Site amplification factor at 1.0s
CR_S	0.901	Coefficient of risk (0.2s)
CR_1	0.895	Coefficient of risk (1.0s)
PGA	0.602	MCE_G peak ground acceleration
F_{PGA}	1.2	Site amplification factor at PGA
PGA_M	0.723	Site modified peak ground acceleration

T _L	6	Long-period transition period (s)
SsRT	1.411	Probabilistic risk-targeted ground motion (0.2s)
SsUH	1.566	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
SsD	2.957	Factored deterministic acceleration value (0.2s)
S1RT	0.492	Probabilistic risk-targeted ground motion (1.0s)
S1UH	0.55	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
S1D	1.234	Factored deterministic acceleration value (1.0s)
PGAd	1.035	Factored deterministic acceleration value (PGA)

* See Section 11.4.8

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Disclaimer

Hazard loads are provided by the U.S. Geological Survey [Seismic Design Web Services](#).

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Project 611 12th AVE SECURITY WALL Sheet 1.a

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Designer AC Date 12/17

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DETERMINE WIND PRESSURE ON PRECAST CONC. WALL

• SOLID FREESTANDING WALLS / SIGNS (ASCE 7-16, 29.3)

$$F = q_h G C_f A_s \quad (\text{EQ 29.3-1})$$

KNOWNS

$$q_h = 0.00256 K_z k_{z+} k_d k_e V^2 \quad (16 \text{ / ft}^2) \quad (26.10)$$

$$G = 0.85 \quad (26.10)$$

$$C_f = 1.5 \quad (\text{Fig 29.3-1}) \text{ BASED ON } \frac{B}{S} = \frac{8'}{10'} = 0.8$$

$$A_s = (10') (8') = 80 \text{ ft}^2 \quad (\text{SITE PLAN ELEVATIONS})$$

$$K_z = 0.57 \quad (\text{BASED ON EXPOSURE B}) (\text{TAB. 26-10-1})$$

$$K_{z+} = 1.37 \quad (\text{SEATTLE WIND MAPS})$$

$$K_d = 0.85 \quad (\text{SEC 26.6})$$

$$k_e = 1.0 \quad (\text{TAB 26.9-1})$$

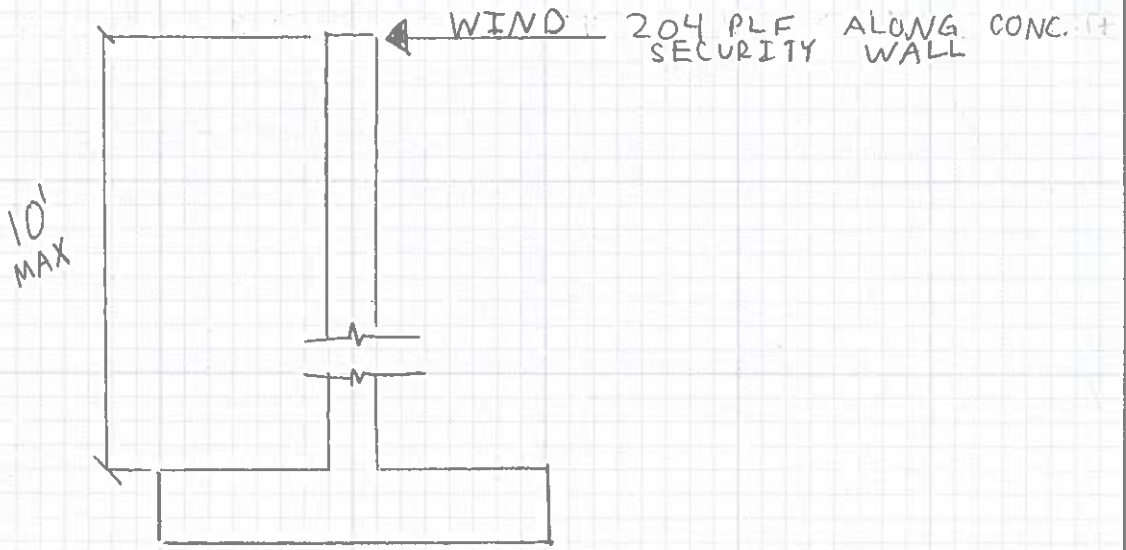
$$V = 97 \text{ mph} \quad (\text{SEC 26.5})$$

CALCS

$$q_h = 0.00256 (0.57) (1.37) (0.85) (1.0) (97)^2 = \underline{\underline{16 \text{ PSF} = q_h}}$$

$$F = 16 \text{ PSF} (0.85) (1.5) (80 \text{ ft}^2) = \underline{\underline{1632 \# = F}}$$

SINCE WALL = 8' LONG ASSUME DISTRIBUTED LOAD @ TOP OF WALL FROM WIND AS $\frac{1632\#}{8\text{ft}} = 204 \text{ PLF}$





Project 611 12th AVE

Sheet 1.6

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DETERMINE SEISMIC FORCE ON WALL

- FREE STANDING WALL / NONSTRUCTURAL COMPONENT
- $WT_{WALL} = 8000 \# = W_p$

$$F_p = 0.3 S_{DS} I_p W_p \quad w/ \quad S_{DS} = 1.129$$
$$= 0.3 (1.129) (1.0) 8000 \# \quad I_p = 1.0$$

$$F_p = 2710 \# \quad (ULT) \Rightarrow 0.7 (2710 \#) = 1897 \# \quad (ASD) \quad (EQ 13.3-3)$$

APPLY @ CENTER OF WALL @ $h = 5'$

SINCE SEISMIC > WIND LOADING
DESIGN W/ SEISMIC LOADS

FIND PSF OF SEISMIC

$$F_p = \frac{1897 \#}{8'} = 237 \text{ PLF OF WALL}$$

$$WALL = 10' \text{ HIGH} \Rightarrow \frac{237 \text{ PLF}}{10'} = \boxed{24 \text{ PSF = SEISMIC FORCE}}$$



Project Coll 12th AVE SEC. WALL Sheet 2
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Designer AC Date 12/17
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WT. OF WALL

• WT. OF WALL = $150 \text{ PCF} (10') (8') (8''/12'') = 8,000 \#$

• FOOTING = $150 \text{ PCF} (14''/12'') (8') (.5') = 7,000 \#$

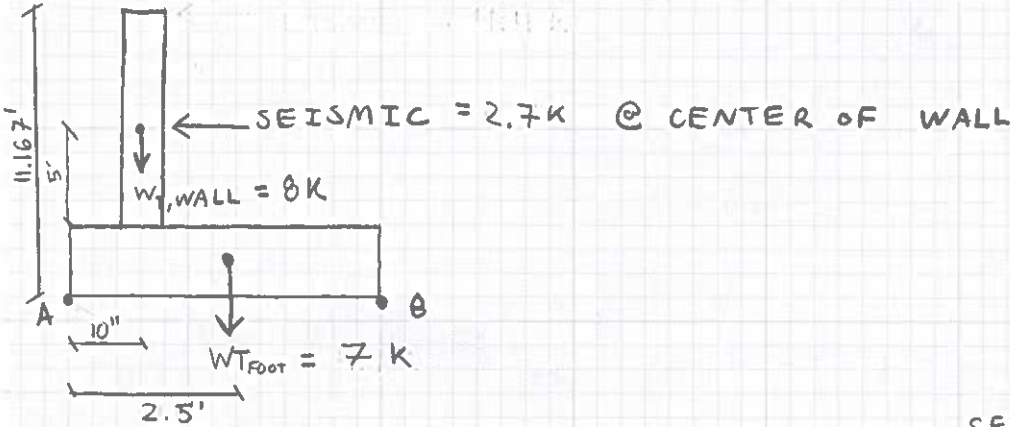
$\Sigma_{\text{TOT}} = 15,000 \#$

THIS DEAD LOAD OF THE WALL WILL RESIST OVERTURNING AND SLIDING

• OVERTURNING MOMENT DUE TO SEISMIC = $2710 \# (5')$

$M_{\text{TOT}} = 13,550 \# - ft$

CHECK FOOTING FOR "L" SHAPE DESIGN



CHECK OVERTURNING @ (A)

$$\sum M_A = 2.7^k(6.167') - 7^k(2.5') - 8^k(10"/12") = 16.7^k\text{-ft} - 24.2^k\text{-ft}$$

$$16.7^k\text{-ft} \leq 24.2^k\text{-ft}$$

OVERTURNING CAN BE RESISTED W/ DEAD LOAD

OK ✓

CHECK BEARING $\frac{7,500 \# \text{-ft}}{15,000 \#} = 0.5' = e = \frac{M}{P}$

SINCE "e" < $\frac{l}{6} = e_k = \frac{5'-0"}{6} = 0.83'$ → $e_{BRG} = \frac{M}{S} + \frac{P}{A}$

$$e_{BRG} = \frac{7,500 \# \text{-ft}}{\left(\frac{5'(8')^2}{6}\right)} + \frac{15,000 \#}{5'(8')} = \frac{7,500}{53.3} + 375$$

$e_{BRG} = 516 \text{ psf} < e_{allow} = 1500 \text{ psf}$

OK ✓



Project 611 12th AVE

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CHECK FOOTING FOR SLIDING

$$V_u \leq R$$

• $V_u = \text{LATERAL SHEAR LOAD} = 2710 \# = 2.7 \text{ k (ULT.)}$

• $R = [0.6 - 0.2 S_{os}] DL \cdot \mu$

- $DL = \text{SUPERIMPOSED} = 0 \text{ k}$

- $DL = \text{SELFWT.} = 15 \text{ k}$

- $S_{os} = 1.129$

- $\mu = 0.35$

$$R = [0.6 - 0.2(1.129)(0 \text{ k})] 15 \text{ k} (0.35)$$

$$R = 0.6 (15.0 \text{ k}) (0.35)$$

$$R = 3.15 \text{ k (ASD)}$$

NEED V_u (ASD) $\rightarrow \left(\frac{2.7 \text{ k}}{1.3} \right) 0.7 = 1.45 \text{ k}$

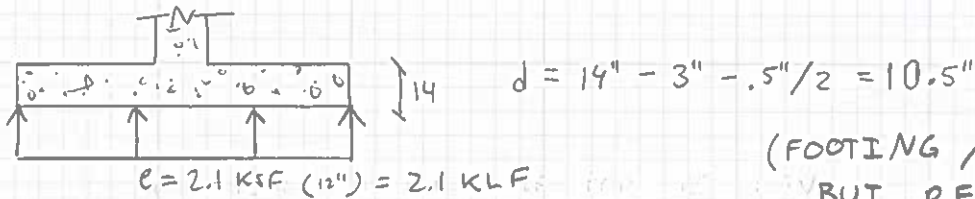
(Note: 2.7 k is labeled LRFD, and 1.3 is labeled ϕ)

SINCE $R = 3.15 \text{ k (ASD)} > V_u = 1.45 \text{ k (ASD)}$ OK ✓

FOOTING WILL RESIST SLIDING

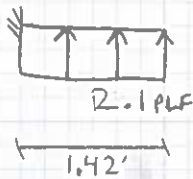
CHECK FOOTING REINFORCING

- $P_{BRG} = 1500$ PSF (ASSUMED ALLOWABLE) $\rightarrow 1.4(1,500) = 2100$ PSF



(FOOTING / STEM CHANGE
BUT REIN. STILL OK)

1.42'



$$V_{max} = 3.0 \text{ k}$$

$$M_{max} = \frac{Wl^2}{2} = \frac{2.1 \text{ KLF} (1.42')^2}{2} = 2.12 \text{ k-ft}$$

DETERMINE MIN. REIN. $\rightarrow A_{s, min} = \frac{M_{max}}{\phi F_y (.9d)} = \frac{2.12 \text{ k-ft} (12")}{0.9 (60 \text{ ksi}) (.9 \cdot 10.5')}$

IF $\phi M_n = \phi A_s F_y (.9d)$

$$A_{s, min} = 0.05 \text{ in}^2$$

SINCE #4 @ 12" OC $= A_{s, prov} = 0.2 \text{ in}^2 > A_{s, min}$ OK ✓

TEMP. REIN. MAY CONTROL

TAB 24.4.3.2 \rightarrow MIN. REIN. = $\text{MAX} \left(\frac{0.0018 (60,000)}{60,000} \right)$ OR 0.0014

$$e = 0.0014 < \frac{A_s}{bd} \Rightarrow A_{s, min} = 0.0014 (12") (1.42' \cdot 12") = 0.286 \text{ in}^2 \text{ / per foot span of footing TOTAL (TOP \& BOTTOM)}$$

SINCE #4 @ TOP & BOT. $\Rightarrow A_{s, prov} = 0.2 (2) = 0.4 \text{ in}^2 > A_{s, min}$

#4 @ 12" OC TOP/BOT OK ✓



Project SECURITY WALL

Sheet 1

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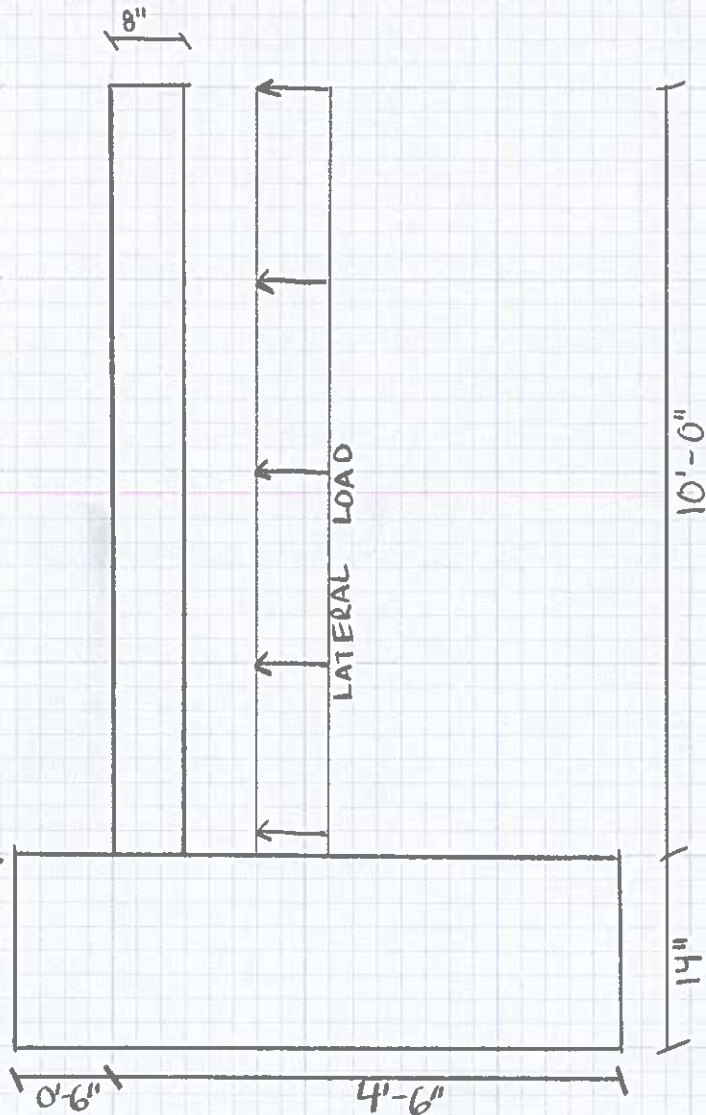
Project No.

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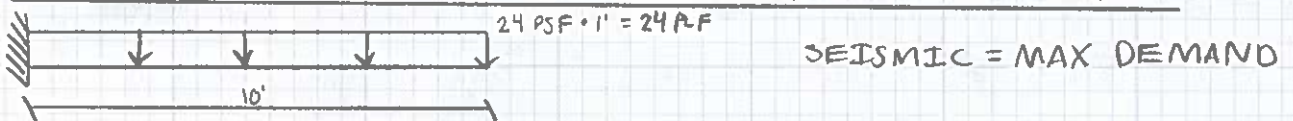
REVISED SECURITY WALL W/ CAST IN PLACE DESIGN



• WIND PRESSURE = DISTRIBUTED LOAD = 16 PSF (ASD)

• SEISMIC FORCE = DISTRIBUTED LOAD = 24 PSF (ASD)

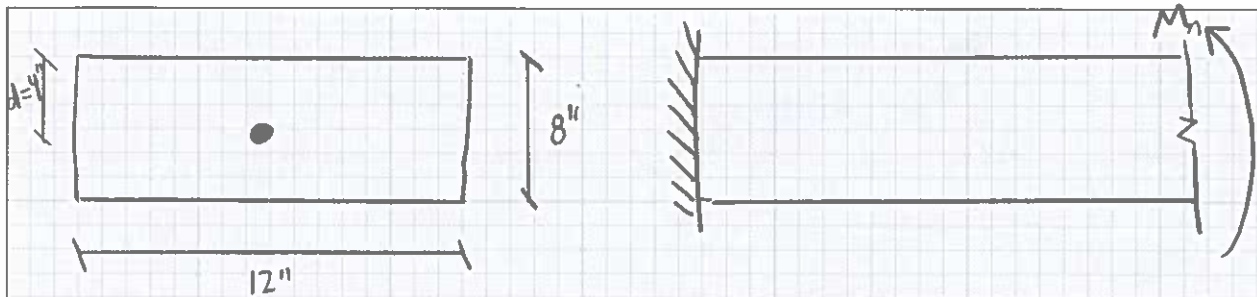
FOR DESIGN LOOK @ 12" SECTION OF 10' WALL



$V_{max} = 240 \# / ft \text{ OF WALL}$

$M_{max} = \frac{24 \text{ PLF } (10')^2}{2} = 1200 \# - ft / ft \text{ OF WALL} = 1.2 \text{ k-ft}$

← CANTILEVER W/ DISTRIB. LOAD EQ



DETERMINE MOMENT CAPACITY OF CONC. 8" BEAM
W/ #4 REIN. @ 8" OC

$$A_{s,prov} = (.2 \text{ in}^2) \left(\frac{12''}{8''} \right) = 0.30 \text{ in}^2 / \text{ft OF WALL}$$

$$\phi M_u = 0.9 A_s f_y (0.9d) = 0.9 (0.30 \text{ in}^2) (60 \text{ ksi}) (0.9 \cdot 4'')$$

$$\phi M_u = 58.32 \text{ k-in}$$

$$\text{CAPACITY : } \phi M_u = 4.86 \text{ k-ft}$$

SINCE DEMAND OF SEISMIC = 1.2 k-ft < 4.86 k-ft

8" WALL W/ #4 @ 8" OC OK

$$\text{DCR} = 0.25$$

REQUIRED DEV. LENGTH

#4 REIN. $L_d = 14''$

& $L_{dH} = 10''$

OK ✓

MIN. REIN. REQ PER ACI 8.7.5.6.3

$$A_{s,min} = \frac{4.5 \sqrt{4000 \text{ psi}} (12'')(4'')}{60,000 \text{ psi}} = 0.23 \text{ in}^2 / \text{PER } 12'' \text{ WALL}$$

$$A_{s,prov} = 0.30 \text{ in}^2 / \text{PER } 12'' \text{ OF WALL}$$

$$0.3 \text{ in}^2 > 0.23 \text{ in}^2 \therefore \text{OK } \checkmark$$

SECTION 099600 - HIGH-PERFORMANCE COATINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes surface preparation and the application of high-performance coating systems on the following substrates:
 - 1. Exterior Substrates:
 - a. Concrete, vertical and [**horizontal**] surfaces.
- B. Related Requirements:
 - 1. Section 051200 "Structural Steel Framing" for shop priming of structural steel with primers specified in this Section.
 - 2. Section 055213 "Pipe and Tube Railings" for shop priming pipe and tube railings with coatings specified in this Section.
 - 3. Section 099113 "Exterior Painting" for general field painting.
 - 4. Section 099123 "Interior Painting" for general field painting.

1.3 DEFINITIONS

- A. MPI Gloss Level 5: 35 to 70 units at 60 degrees, according to ASTM D 523.
- B. MPI Gloss Level 6: 70 to 85 units at 60 degrees, according to ASTM D 523.
- C. MPI Gloss Level 7: More than 85 units at 60 degrees, according to ASTM D 523.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product. Include preparation requirements and application instructions.
 - 1. Include printout of current "MPI Approved Products List" for each product category specified, with the proposed product highlighted.
 - 2. Indicate VOC content.
- B. Samples for Initial Selection: For each type of topcoat product indicated.

1.5 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials , from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Coatings: 5 percent, but not less than **1 gal.** of each material and color applied.

1.6 QUALITY ASSURANCE

- A. Mockups: Apply mockups of each coating system indicated to verify preliminary selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 - 1. Architect will select one surface to represent surfaces and conditions for application of each coating system.
 - a. Wall and Ceiling Surfaces: Provide samples of at least **100 sq. ft.**
 - b. Other Items: Architect will designate items or areas required.
 - 2. Final approval of color selections will be based on mockups.
 - a. If preliminary color selections are not approved, apply additional mockups of additional colors selected by Architect at no added cost to Owner.
 - 3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 - 4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than **45 deg F.**
 - 1. Maintain containers in clean condition, free of foreign materials and residue.
 - 2. Remove rags and waste from storage areas daily.

1.8 FIELD CONDITIONS

- A. Apply coatings only when temperature of surfaces to be coated and ambient air temperatures are between **50 and 95 deg F.**
- B. Do not apply coatings when relative humidity exceeds 85 percent; at temperatures less than **5 deg F** above the dew point; or to damp or wet surfaces.
- C. Do not apply exterior coatings in snow, rain, fog, or mist.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Monochem Permashield or equal.
- B. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to products listed in the Exterior High-Performance Coating Schedule or Interior High-Performance Coating Schedule for the coating category indicated.

2.2 HIGH-PERFORMANCE COATINGS, GENERAL

- A. MPI Standards: Products shall comply with MPI standards indicated and shall be listed in its "MPI Approved Products Lists."
- B. Material Compatibility:
 - 1. Materials for use within each paint system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
 - 2. For each coat in a paint system, products shall be recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.
 - 3. Products shall be of same manufacturer for each coat in a coating system.
- C. Colors: Clear Matte Finish.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
- B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
 - 1. Concrete: 12 percent.
- C. Verify suitability of substrates, including surface conditions and compatibility, with existing finishes and primers.
- D. Proceed with coating application only after unsatisfactory conditions have been corrected.
 - 1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates and coating systems indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
 - 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.
- C. Clean substrates of substances that could impair bond of coatings, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
 - 1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce coating systems indicated.
- D. Concrete Substrates: Remove release agents, curing compounds, efflorescence, and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces to be coated exceeds that permitted in manufacturer's written instructions.
 - 1. Clean surfaces with pressurized water. Use pressure range of 1500 to 4000 psi at 6 to 12 inches.
 - 2. Abrasive blast clean surfaces to comply with SSPC-SP 7/NACE No. 4.
- E. Steel Substrates: Remove rust, loose mill scale, and shop primer if any. Clean using methods recommended in writing by paint manufacturer but not less than the following:
 - 1. SSPC-SP 7/NACE No. 4.
 - 2. SSPC-SP 11.
 - 3. SSPC-SP 6/NACE No. 3.
 - 4. SSPC-SP 10/NACE No. 2.
 - 5. SSPC-SP 5/NACE No. 1.
- F. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and areas where shop paint is abraded. Paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.
- G. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied coatings.
- H. Aluminum Substrates: Remove loose surface oxidation.

3.3 APPLICATION

- A. Apply high-performance coatings according to manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual."
 - 1. Use applicators and techniques suited for coating and substrate indicated.

2. Coat surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, coat surfaces behind permanently fixed equipment or furniture with prime coat only.
 3. Coat backsides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
 4. Do not apply coatings over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
- B. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of the same material are to be applied. Tint undercoats to match color of finish coat, but provide sufficient difference in shade of undercoats to distinguish each separate coat.
- C. If undercoats or other conditions show through final coat, apply additional coats until cured film has a uniform coating finish, color, and appearance.
- D. Apply coatings to produce surface films without cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections. Produce sharp glass lines and color breaks.

3.4 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing coating application, clean spattered surfaces. Remove spattered coatings by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from coating operation. Correct damage to work of other trades by cleaning, repairing, replacing, and recoating, as approved by Architect, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced coated surfaces.

3.5 EXTERIOR HIGH-PERFORMANCE COATING SCHEDULE

- A. Concrete Substrates, Vertical Surfaces:
1. Graffiti Coating:
 - a. Prime Coat: Monochem Aquaseal ME12.
 - b. Intermediate Coat: Monochem Permashield Non-Sacrificial
 - c. Topcoat: Monochem Permashield Non-Sacrificial
 - 1) Monochem by Chemex Industries Inc. 3 Chattanooga Irvine, CA 92620

END OF SECTION 099600

PERMASHIELD®



Non - Sacrificial Graffiti Resistant Coating

MADE IN U.S.A.

PRODUCT DESCRIPTION:

ITEM NO. 5300, 5400

PERMASHIELD NON-SACRIFICIAL is a one component, water based copolymer plastic coating that dries to a clear hard, non-yellowing film. It protects the surface and prevents the penetration of spray paint, marking pens, chemical attacks, crayons and lipstick into the substrate.

BASIC USES:

PERMASHIELD NON-SACRIFICIAL may be used on most interior or exterior, bare or painted surfaces. It is used for graffiti control and to protect against fog, mildew, corrosion, fumes and salt spray. It also leaves the surface easy to clean.

Product Qualifications	
Cal Green	Yes
SCAQMD	Yes
CARB	Yes
LEED (New Construction)	Yes
LEED (New Schools / CHPS)	Yes

CALTRANS APPROVAL NUMBER: 08-09-019

The Office of Health and Safety Services has approved the use of **PERMASHIELD NON-SACRIFICIAL** by Caltrans employees.

PREPARATION:

All surfaces must be clean and dry (< 15% moisture), free from adhesion affecting contaminants like dust, dirt, oil, scale, rust, etc. Mortar joints should be sound, cracks that are larger than hairlines should be sealed/caulked or filled. Any other repairs or improvements which may be necessary to insure a sound surface must be conducted before the application of **PERMASHIELD NON-SACRIFICIAL**. All preparation, caulking of joints or cracks must be allowed to cure prior to application of **PERMASHIELD NON-SACRIFICIAL**. Alkali or efflorescence on the surface should be treated or cleaned with a neutralizing agent such as a solution of muriatic acid diluted (4:1 water: muriatic acid). Allow the surface to dry for minimum of 48 hours or until moisture level is less than 15%, before proceeding with the application of **PERMASHIELD SYSTEM**.

Free standing type walls (ex. planters, retaining walls) require that all the moisture exposed wall sides (cap, backside, and sides if applicable) be sealed from moisture to avoid hydrostatic pressure. This can be achieved with one coat of **AQUASEAL ME12** or by painting. Contact our technical department to confirm the specific application information.

NOTE: Red brick masonry or naturally stained deep colored block might show haziness after the application of **PERMASHIELD NON-SACRIFICIAL**. This accentuation is normal and expected from all film forming clear glossy coatings. Test an area for approval before proceeding with entire job.

TECHNICAL DATA:

Composition	Acrylic Co-Polymer
Solids by Weight (ASTM D2369)	28% ±2
Density	1.032-1.044 g/cm³
Flash Point	None
Drying Time	30 minutes
Curing Time	72-96 hours
Color	Clear
Sheen	Gloss (5400) or Low Gloss (5300)
Odor	Mild
VOC Compliancy	< 100 g/L
UV Resistance	Excellent

APPLICATION:

STIR OR SHAKE WELL BEFORE USING

PERMASHIELD NON-SACRIFICIAL may be applied over sealed surfaces and properly primed wood and metal. Make sure to test the adhesion to each surface type prior to proceeding with the desired application.

NPAINED MOISTURE ABSORBENT SURFACES:

A. Base Coat: AQUASEAL ME12 (clear, flat, penetrating sealer) must be applied to the entire exterior elevation of unpainted/unsealed walls. It is intended for use on porous surfaces to protect against water penetration and to help neutralize alkaline on the surface. Alkaline causes cracking and flaking of paint and coatings.

- Allow **AQUASEAL ME12** to dry for 24 hours before top coating with **PERMASHIELD NON-SACRIFICIAL**. The approximate coverage rate: 60-110 sq/ft per gallon depending on the surface porosity. Allow the product run down 8-10 inches and backroll in all the material (Refer to Aquaseal ME12 Technical Bulletin for proper application and coverage rates).

B. Top Coat: Apply **PERMASHIELD NON-SACRIFICIAL** to the specified elevation where graffiti protection is desired. Apply by brush, roller, airless sprayers or conventional spray equipment at normal painting pressure with a tip size ranging from .010 to .015.

- Apply **PERMASHIELD NON-SACRIFICIAL** at 300-400 sq/ft per gallon, per coat, depending on the texture and porosity of the surface being top coated and the method of application.
- Two to three coats are recommended where markings are expected from pencils, pens and felt pens.
- Three to four coats are recommended where spray can paint may be expected.
- Apply enough coats of **PERMASHIELD NON-SACRIFICIAL** to ensure the surface is pinhole free.
- Allow 30-45 minutes in between coats. Apply succeeding coats only after the previous coating has cleared out.

C. Remover: CITRUS CLEAN (9700), water base graffiti remover/cleaner.

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GRAFFITI RESISTANT COATINGS 09 96 23
PROTECTIVE COATINGS

MONOPOLE INC.
UPDATED JULY 2014



Chemex Industries, Inc.

3 Chattanooga, Irvine, CA 92620 • Phone: 714-832-8441 • Fax: 714-832-8103

- ALWAYS TEST the removal process using **CITRUS CLEAN** on each surface type and paint coating before proceeding with entire application to ensure suitability and the desired results.
- Allow the test areas to dry thoroughly before inspecting.
- Do not dilute, use-as-is over the **PERMASHIELD NON-SACRIFICIAL** coating.
- **CITRUS CLEAN (9700)** is the only cleaner recommended for graffiti removal with the **PERMASHIELD NON-SACRIFICIAL**. Spray the **CITRUS CLEAN** on the graffiti and allow it to set for 2 to 3 minutes (do not allow the cleaner to dry on the surface). Then use a nylon hard bristle scrub brush or scour pad, to work the cleaner into the graffiti. Spray more cleaning solution to maintain a wet surface and to remove the dissolved graffiti. Continuous wet scrubbing is the key to removing the graffiti. After the complete removal, rinse the cleaned area well with water. Do not use solvents such as M.E.K. or lacquer thinners for cleaning before using **CITRUS CLEAN**.

SPECIAL NOTE:

CITRUS CLEAN tends to soften **PERMASHIELD NON-SACRIFICIAL COATINGS**. This is temporary and **PERMASHIELD** will return to its original hardness when dry. For complete instructions and cautions, please refer to the **CITRUS CLEAN** technical data sheet.

PAINTED SURFACES:

If the surface is painted for the full elevation skip **AQUASEAL ME12** and conduct a test patch to ensure the proper adhesion and performance.

Caution: Painted & Stucco Surfaces

PERMASHIELD GRAFFITI RESISTANT COATINGS are clear non-yellowing products and may be used over latex painted or unpainted surfaces. However, on rare occasions certain pigmented paints and stuccos contain a biocide that may create yellowing when top coated with a clear graffiti resistant coating. Yellowing can be severe and normally appears within 3-7 days of direct sunlight exposure, particularly during hot weather.

Allowing freshly painted and stucco surfaces to fully cure (~1 - 2 weeks minimum for paint and 28 days for fresh stucco) before applying a clear graffiti resistant coating will minimize the effect if it is occurring. Consult the manufacturer of the paint coating and/or stucco to determine the full curing time.

To ensure proper results, we require applying a small test patch on each of the different paints and stucco surfaces prior to product application. It is very important that these test patches receive direct UV exposure. Allow the test areas 4-7 days of dry time in the direct sunlight and then check for ambering. Monopole is not responsible for yellowing, whitening, discoloration, or any other consequential damages associated with the application of our **PERMASHIELD GRAFFITI RESISTANT COATINGS**. The end-user shall determine the product's suitability and assumes all risks and liability. Under no circumstances will Monopole pay labor charges

APPLICATION GUIDELINES:

- Do not apply **PERMASHIELD NON-SACRIFICIAL** to non porous surfaces.
- Do not apply **PERMASHIELD NON-SACRIFICIAL** over oil based or glossy painted surfaces.
- **PERMASHIELD NON-SACRIFICIAL** must be allowed to cure for a minimum of 72 hours (ideally 5 days) before exposing it to graffiti attacks.
- Do not apply heavy or overlap.
- Do not roll while the coating is drying or curing.
- No rundowns. Use a dry roller to pick up excess materials running down, otherwise **PERMASHIELD NON-SACRIFICIAL** can dry looking milky or chalky.
- Apply when the surface temperature is between 55°F and 90°F. Do not apply if rain, moisture or dew is eminent within 24 hours after application.
- Do not apply if the moisture content in the wall exceeds 15%.
- Apply at the packaged consistency.

CLEAN UP:

Clean equipment with water when materials are still wet. Use a lacquer or paint thinner.

PACKAGING:

PERMASHIELD NON-SACRIFICIAL is packaged in one-gallon cans and five-gallon pails.

STORAGE:

50°F - 90°F PROTECT FROM FREEZING

SHELF LIFE:

One year in a closed container.

WARRANTY INFORMATION: MONOPOLE believes that the information in this publication is an accurate description of the typical characteristics and/or uses of the product or products. It is your responsibility to thoroughly test the product in your specific application to determine its safety and performance capabilities. Since use of this product is beyond our control, MONOPOLE, INC. cannot assume any risk or liability for results obtained when not used according to our specifications and directions. Unless MONOPOLE provides a specifically written statement of fitness for a particular use, MONOPOLE'S sole warranty is that the product will meet its current sales specifications. MONOPOLE disclaims any other expressed or implied warranties, including the warranty of merchantability and fitness for use. Your exclusive remedy and MONOPOLE'S sole liability for breach of warranty is limited to a refund of the purchase price or replacement of any product proven to be defective. In no event shall the seller be liable for any loss of profits or other consequential damages, including labor charges.



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Safety Data Sheet

Monopole, Inc.

Product Name: Permashield Non-Sacrificial

Issue Date: January 2016

Monopole Inc. encourages and expects you to read and understand the entire SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

SECTION 1: Identification

Product Name: Permashield Non-Sacrificial

Product Code: 5300, 5400

COMPANY IDENTIFICATION

Monopole, Inc.
4661 Alger Street
Los Angeles, CA 90039
Tel: (818) 500-8585
Fax: (818) 502-0818

EMERGENCY TELEPHONE NUMBERS:

Health Emergency : (818) 500 - 8585
Poison Center..... : (800) 222 - 1222
Chemtrec..... : (800) 424 - 9300

SECTION 2: Hazard Identification

GHS Classification

Skin irritation: Category 2
Eye irritation: Category 2
Specific target organ toxicity: Category 3 (Respiratory system)
single exposure

GHS Label Elements

Hazard pictograms:



Hazard statements: May cause skin irritation.
May cause eye damage/irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.

Precautionary statements:

Prevention:

Do not breathe dust, mist, gas, vapors or spray.
Use only outdoors or in a well-ventilated area.
Wear protective gloves.
In case of inadequate ventilation wear respiratory protection. The type of respiratory protection selected must comply with the requirements set forth in OSHA's Respiratory Protection Standard (29 CFR 1910.134) or regional standards.

Response:

IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse with water for several minutes.
Call a doctor or emergency medical facility if you feel unwell.
If experiencing respiratory symptoms: Call a doctor or emergency medical facility.
Wash contaminated clothing before reuse.

Storage:

Store locked up.
Store in well-ventilated place. Keep container tightly closed.

Disposal:

Dispose of contents and container in accordance with existing federal, state, and local environmental control laws.

SECTION 3: Composition/Information on Ingredients

Hazardous Components	% (by weight)	CAS#	Classification
Acrylic polymer(s)	25-30%	Not Hazardous	
2(2 - Butoxyethoxy)ethanol	6%	112-34-5	Skin Irritation - Category 2 Eye Irritation - Category 2 Respiratory Irritation - Category 3
Water		7732-18-5	

SECTION 4: First Aid Measures

Inhalation: Move to fresh air. If victim is not breathing, give artificial respiration. If victim's breathing is difficult, give oxygen. Call a physician.

Skin Contact: Wash skin with soap and water. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

Eye Contact: Flush eyes thoroughly with water for 15-20 minutes while holding eyelids apart. If eye irritation persists, consult a specialist.

Ingestion: Do not induce vomiting. Immediately give victim 1-2 glasses of water. Never give anything to an unconscious person. Call a physician.

SECTION 5: Fire Fighting Measures

Flash Point: Non-Flammable, Non-Combustible

Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: No data available.

Fire Fighting Instructions: Wear self-contained breathing apparatus and full protective equipment.

SECTION 6: Accidental Release Measures

Personal Precautions: Use Personal Protective Equipment. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes or clothing. Material can create slippery conditions.

Environmental Precautions: Do not allow into any sewer, on the ground or into any body of water. Dike to collect large liquid spills.

Steps To Be Taken In Case Material Is Released Or Spilled: Use personal protective equipment. Cover spill with sawdust, sand, oil dry or other absorbent material. Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

SECTION 7: Handling and Storage

Safe Handling: Use personal protective equipment. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling. Wash clothing after use. Do not store or consume food, drink, or tobacco in areas where they may become contaminated with this material. Avoid breathing vapors or mist. Ensure adequate ventilation, especially in confined areas.

Storage Conditions: Store temperatures: 34°F - 100°F. Keep from freezing – product stability may be affected. Stir well before use. Keep container tightly closed.

SECTION 8: Exposure Controls and Personal Protection

Exposure Guidelines: Exposure Limits

Hazardous Components	CAS#	TWA (OSHA)	TLV (ACGIH)
2(2-Butoxyethoxy)ethanol	112-34-5	None Known	25 ppm

Engineering Controls: Use only with adequate ventilation.

Personal Protection – Routine Handling

Eye/Face Protection: Wear safety glasses with side-shields.

Skin and Body Protection: Wear protective gloves and protective clothing.

Respirator Protection: Wear appropriate NIOSH approved respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that the limits are within recommended exposure guidelines.

Protective Clothing / Skin Contact: Where there is potential for skin contact have available and wear as appropriate impervious gloves and apron. Wash at mealtime and end of shift. If skin contact occurs, change contaminated clothing and flush affected areas with cool water.

SECTION 9: Physical and Chemical Properties

Appearance and Odor: Slight Odor, Milky White Liquid

pH: 7-7.5

Boiling Point: 100°C (212°F) Water

Flash Point: Noncombustible

Flammable Limits: LEL: Not Applicable UEL: Not Applicable

Specific Gravity (H20=1): 1.032 - 1.044 g/cm³

Water Solubility: Dilutable

Evaporation Rate: <1 Water

VOC: < 100 g/L

SECTION 10: Stability and Reactivity

Hazardous reactions: None known.

Chemical Stability: Stable

Materials to Avoid (Incompatibility): None known.

Hazardous Decomposition Products: Thermal decomposition may yield acrylic monomers.

Conditions to Avoid: Extremes of temperature and direct sunlight.

SECTION 11: Toxicological Information

There is no data available for this material.

SECTION 12: Ecological Information

There is no data available on the adverse effects of this material on the environment.

SECTION 13: Disposal Considerations

Environmental Precautions: CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Waste Disposal Method: Dispose of in accordance with Local, State, and Federal Regulations. Regulations may vary in different locations. DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER.

SECTION 14: Transportation Information

DOT Proper Shipping Name: Not regulated.

IATA Proper Shipping Name: Not regulated.

IMO Proper Shipping Name: Not regulated (Not dangerous for transport).

State Regulations: California - None.

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations.

SECTION 15: Regulatory Information

Toxic Substance Control Act: All chemicals comprising this product are listed on or exempt from the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986): There are no chemical present known to the state of California to cause cancer or reproductive toxicity.

SARA 313: Section 313 of Title III of the Superfund Amendments and Reauthorization act of 1986. This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute health hazard:	Yes
Chronic health hazard:	No
Fire hazard:	No
Sudden release of pressure hazard:	No
Reactive hazard:	No

CERCLA

This material does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to the release of this material.

SECTION 16: Other Information

NFPA	Health Hazards 1	Flammability 0	Instability 0	
HMIS	Health Hazards 1	Flammability 0	Physical Hazards 0	Personal Protection X

USER'S RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions, in addition to those described herein, are required. Any health hazard and safety information herein should be passed on to your customers or employees, as the case may be.

DISCLAIMER: To the best of our knowledge, the information contained herein is accurate, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability or completeness of the information. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Monopole Inc. urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.