

PORT OF TACOMA

EB-1 UTILITY LID REPAIRS

PROJECT NO. 201144.01 CONTRACT NO. 071732

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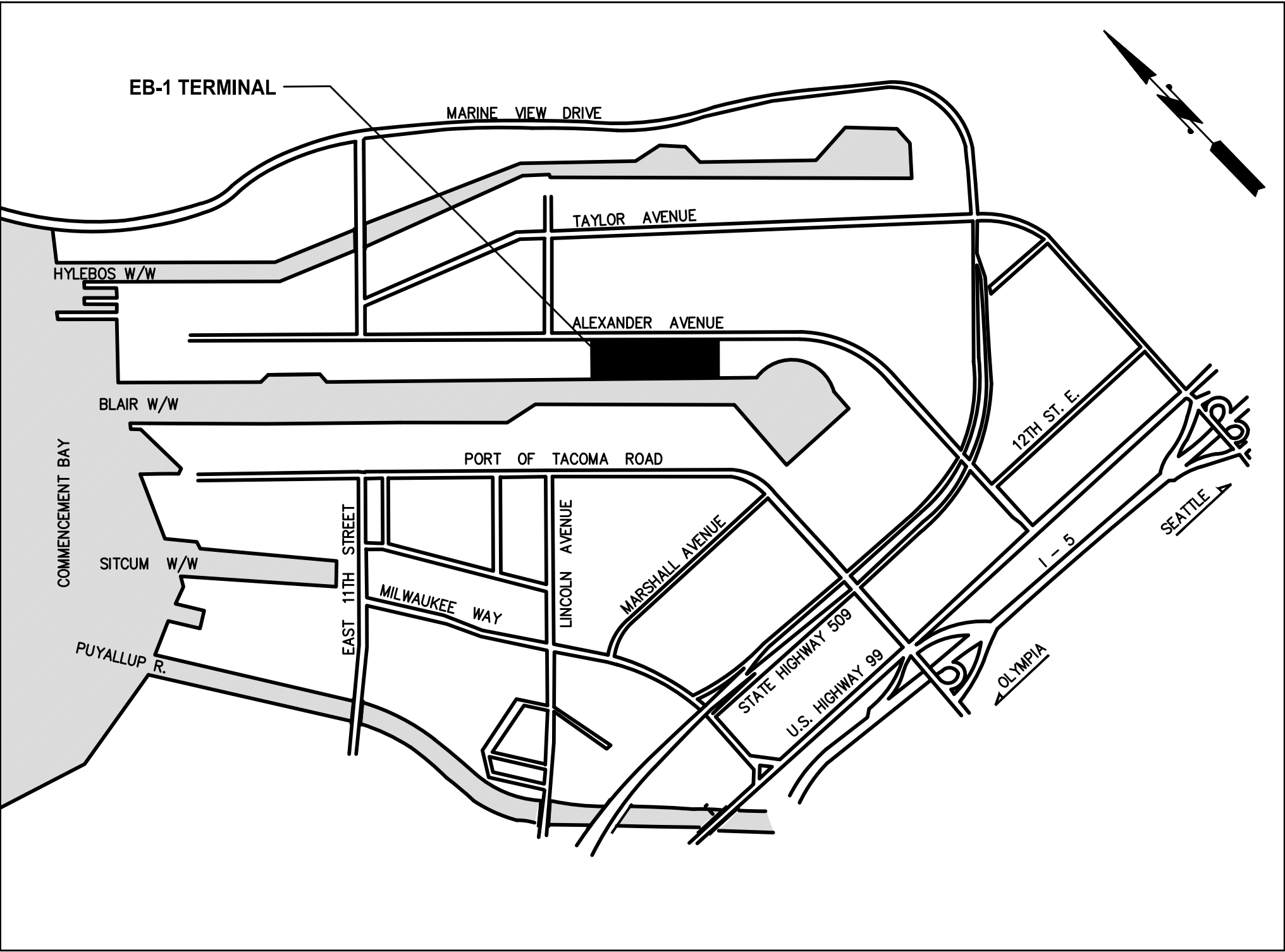
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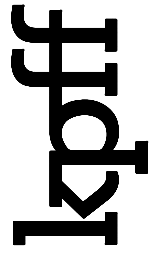
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TACOMA, WA, 98401-1837

EB-1 UTILITY LID REPAIRS

COVER SHEET

G1.1
1 OF 8

CONT/CONS: 071732 TOWNSHIP: 21N RANGE: 3E SECTION: 36
M. ID: 201144.01 DAT-HRZ: W83-SF VERT: PORT OF TACOMA BM#
PHASE: BID SET PARCEL: 0321354035 DRAWING SCALE: AS SHOWN

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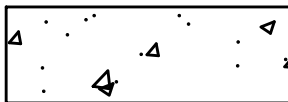





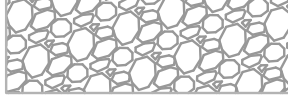

GENERAL NOTES

3. ALL WORK SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE PROJECT PERMITS AND ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS PERTAINING TO DEMOLITION AND DISPOSAL.
2. THE PROJECT SITE IS WITHIN AN ACTIVE TERMINAL. ALL ACTIVITIES SHALL BE COORDINATED WITH THE PORT AND THE TERMINAL OPERATOR. TERMINAL OPERATIONS SHALL NOT BE HINDERED TO THE EXTENT POSSIBLE. IN THE EVENT CONSTRUCTION ACTIVITY IS NOT COORDINATED WITH THE PORT AND TERMINAL OPERATORS AND RESULTS IN IMPACTS TO TERMINAL OPERATIONS, THE CONTRACTOR SHALL BE HELD LIABLE. SEE SPECIFICATIONS FOR CONSTRUCTION LIMITATIONS AND RELATED INFORMATION.
3. THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES. CONTRACTOR SHALL PROVIDE TIMELY NOTIFICATION TO THE ENGINEER FOR ALL ITEMS OF WORK REQUIRING COORDINATION.
4. IF CLASSIFIED HAZARDOUS MATERIAL IS ENCOUNTERED DURING CONSTRUCTION, CONTRACTOR IS DIRECTED TO STOP WORK IN THE EFFECTED AREA IMMEDIATELY AND NOTIFY THE ENGINEER.
5. CONTRACTOR SHALL OBTAIN APPROVAL OF THE ENGINEER PRIOR TO DISCONNECTING OR INTERRUPTING THE OPERATION OF ANY EXISTING UTILITY OR SYSTEM. CONTRACTOR SHALL REQUEST PERMISSION FROM THE ENGINEER A MINIMUM OF TWO (2) DAYS PRIOR TO DISRUPTING SAID UTILITY.
6. MODIFICATIONS TO EXISTING STRUCTURES SHALL MAINTAIN A WORKING LOAD CAPACITY OF 125 KIPS.
7. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A DETAILED WORK PLAN, INCLUDING, DEMOLITION PRIOR TO COMMENCING WORK, SEE SPECIFICATIONS.
8. THE CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE SCOPE OF WORK. UNLESS OTHERWISE SHOWN THEY DO NOT INDICATE THE METHOD OF WORK. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES.
9. THE CONTRACTOR SHALL KEEP ALL STREETS, TERMINAL AREAS, AND VEHICULAR TRAFFIC AREAS CLEAN.
10. CONTRACTOR IS RESPONSIBLE FOR ANY TRAFFIC CONTROLS REQUIRED DURING THE DURATION OF THIS PROJECT, SEE SPECIFICATIONS.
11. CONTRACTOR SHALL PROTECT-IN-PLACE ALL STRUCTURES, UTILITIES AND OBJECTS NOT CALLED OUT AS BEING DEMOLISHED ON THE PLANS. ANY DAMAGE TO ITEMS NOT BEING DEMOLISHED SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
12. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO STRICTLY CONTAIN THE WORK WITHIN CLOSE PROXIMITY TO THE SCOPE SHOWN ON THE DRAWINGS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ANY DAMAGE TO UTILITIES, OTHER FACILITIES, OR EQUIPMENT DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE PROMPTLY REPAIRED AT THE CONTRACTOR'S EXPENSE. THIS INCLUDES ITEMS OUTSIDE THE WORK AREA THAT ARE DAMAGED BY CONSTRUCTION ACTIVITIES DURING EXECUTION OF THIS CONTRACT.
13. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND AVOID OTHER UTILITIES NOT SHOWN HEREIN WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. THE CONTRACTOR SHALL BRING ANY CONFLICTS BETWEEN EXISTING UTILITIES AND NEW WORK TO THE ENGINEER'S ATTENTION.
14. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO COMMENCING WORK IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.
15. PRIOR TO COMMENCING DEMOLITION ACTIVITIES CONTRACTOR SHALL IMPLEMENT TEMPORARY EROSION AND SEDIMENTATION CONTROLS. NO DEMOLITION MATERIALS OR DEBRIS SHALL BE ALLOWED TO ENTER THE WATERWAY, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

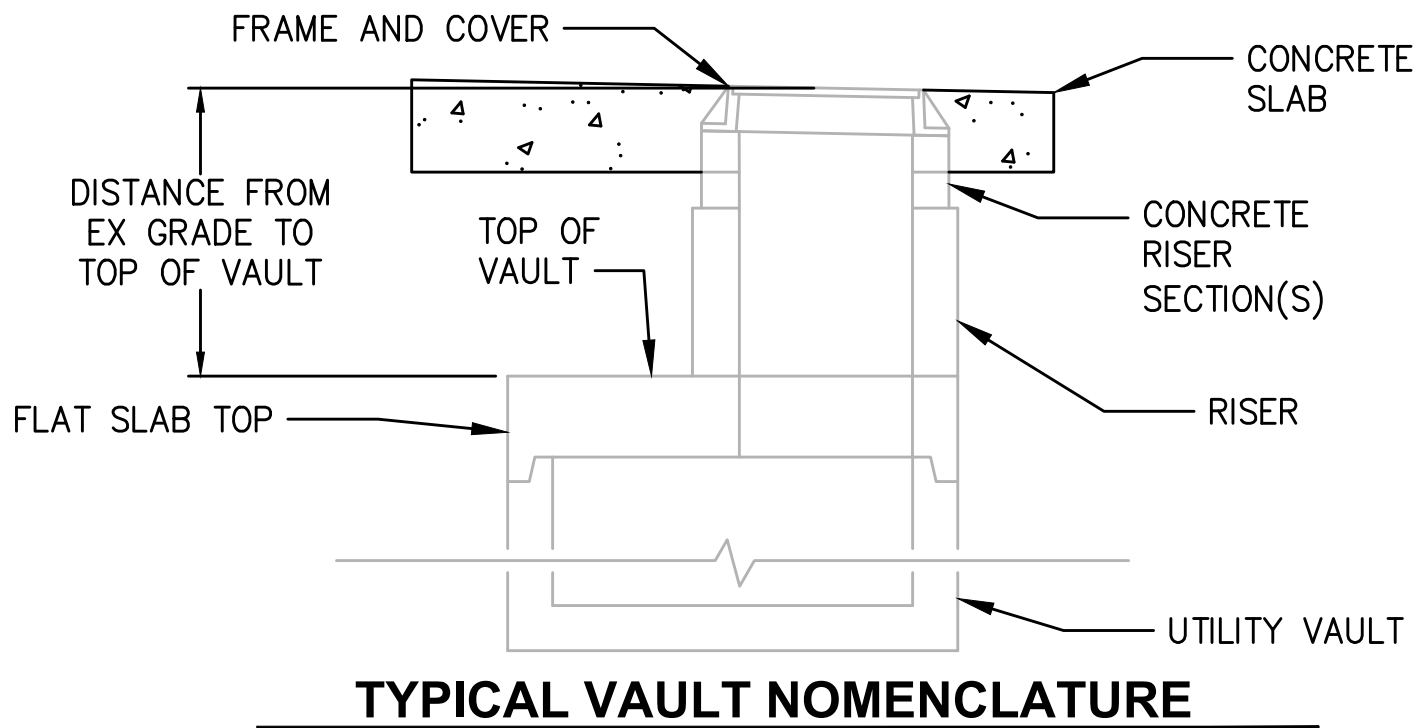
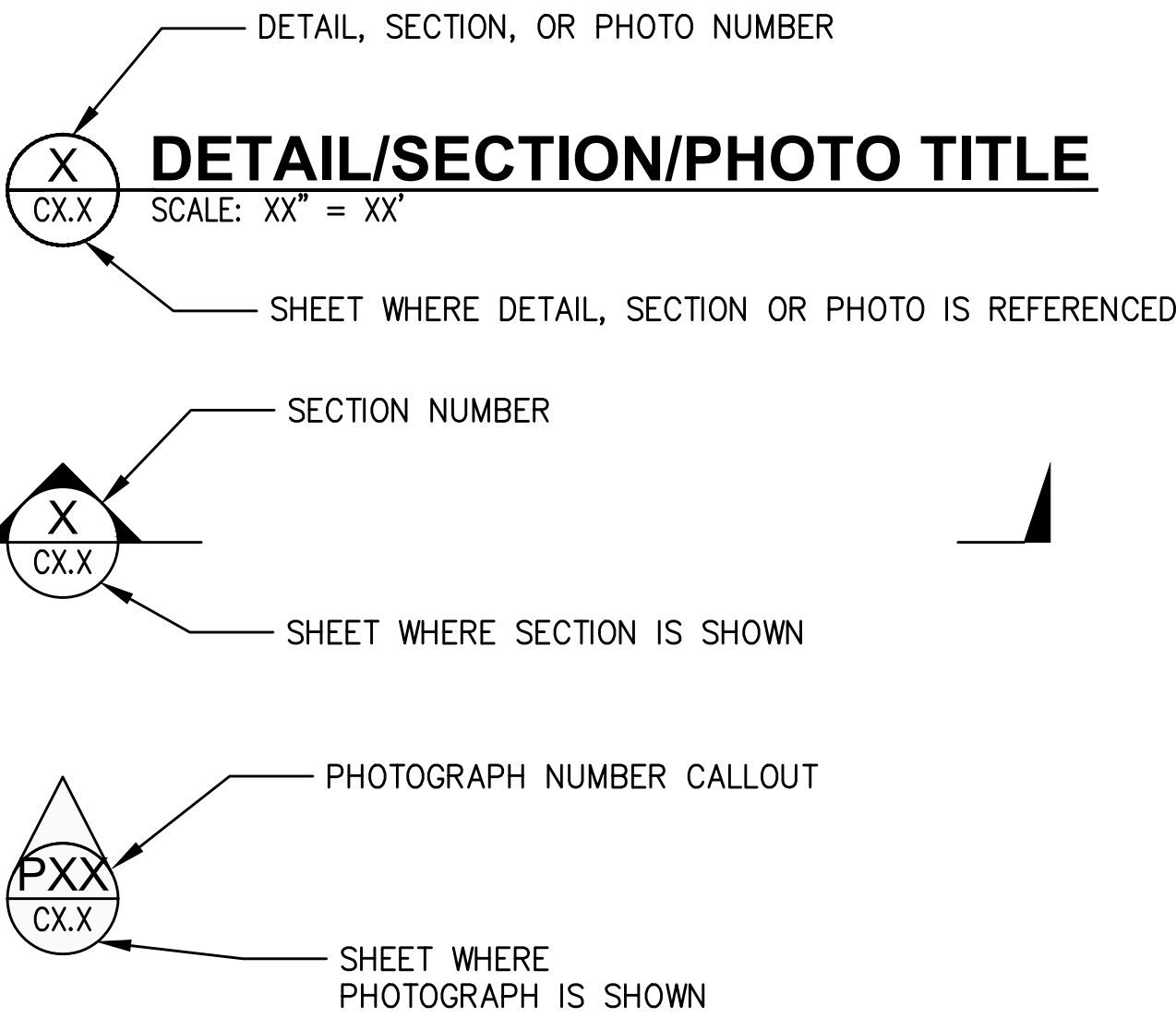
ABBREVIATIONS

#	NUMBER	LF	LINEAL FOOT
Ø	DIAMETER	LH	LEFT HAND
@	AT	LIN	LINEAL or LINEAR
AB	AGGREGATE BASE	MAX	MAXIMUM
AC	ASPHALT CONCRETE	MH	MANHOLE
ACI	AMERICAN CONCRETE INSTITUTE	MIL	MILLIMETER
ACP	ASPHALTIC CONCRETE PAVEMENT	MIN	MINIMUM
ADD, ADDL	ADDITIONAL	MISC	MISCELLANEOUS
ADJ	ADJACENT	MSP	MANUAL OF STANDARD PRACTICE
AGGR	AGGREGATE	MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL
ALT	ALTERNATE		DEVICES
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	N	NORTH or NORTHING
APP or APPVD	APPROVED	N/A	NOT APPLICABLE
APPROX	APPROXIMATE	NE	NORTHEAST
APWA	AMERICAN PUBLIC WORKS ASSOCIATION	NIC	NOT IN CONTRACT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	NO	NUMBER
AVG	AVERAGE	NTS	NOT TO SCALE
AWS	AMERICAN WELDING SOCIETY	NW	NORTHWEST
AWWA	AMERICAN WATER WORKS ASSOCIATION	OC	ON CENTER
BM	BENCH MARK or BEAM	OD	OUTSIDE DIAMETER
BMP or BMP'S	BEST MANAGEMENT PRACTICES	OVH	OVERHEAD
BOT	BOTTOM	P/L or PL	PROPERTY LINE
BTW or BTWN	BETWEEN	PB	PULL BOX
BV	BALL VALVE	PCC	PORTLAND CEMENT CONCRETE
CY	CONTAINER YARD OR CUBIC YARD	PERP	PERPENDICULAR
C/L	CENTERLINE	PG	PERFORMANCE GRADE
CAB	CRUSHED AGGREGATE BASE	PI	POINT OF INTERSECTION
CB	CATCH BASIN	PJ	PUSH-ON JOINT
CC	CENTER TO CENTER	PNT	POINT
CFS	CUBIC FEET PER SECOND	POT	PORT OF TACOMA
CIP	CAST IRON PIPE	PR	PRESSURE RATING
CL	CENTER LINE or CLASS	PROP	PROPOSED
CLR	CLEAR or CLEARANCE	PSF	POUNDS PER SQUARE FOOT
CO	CLEAN OUT	PSI	POUNDS PER SQUARE INCH
CONC	CONCRETE	PT	POINT or POINT OF TANGENCY
CONT	CONTINUE or CONTINUOUS	PVC	POLYVINYL CHLORIDE
CONT'D	CONTINUED	PVMT	PAVEMENT
COORD	COORDINATE	R	RIDGE OR RADIUS
COUP	COUPLING	R/W or ROW	RIGHT OF WAY
CPT	CONE PENETROMETER TEST	RCP	REINFORCED CONCRETE PIPE
CRSI	CONCRETE REINFORCING STEEL INSTITUTE	RD	ROAD
CSBC	CRUSHED SURFACING BASE COURSE	REF	REFERENCE
CSTC	CRUSHED SURFACING TOP COURSE	REINF	REINFORCE OR REINFORCING
CTR	CENTER	REQ'D	REQUIRED
DIA	DIAMETER	RH	RIGHT HAND
DIAG	DIAGONAL	RP	RADIUS POINT
DIM	DIMENSION	RR	RAILROAD
DIP	DUCTILE IRON PIPE	RT.	RIGHT
DWG	DRAWING	S	SLOPE OR SOUTH
DWY	DRIVEWAY	SD	STORM DRAIN
E	EAST or EASTING	SDR	STANDARD DIMENSION RATIO
EA	EACH	SDMH	STORM DRAIN MANHOLE
EG	EXISTING GRADE	SE	SOUTH-EAST
EL or ELEV	ELEVATION	SECT	SECTION
ELEC or ELECT	ELECTRICAL	SHT	SHEET
ENGR	ENGINEER	SIM	SIMILAR
EOR	ENGINEER OF RECORD	SPECS	SPECIFICATIONS
EP	EDGE OF PAVEMENT	SQ	SQUARE
EQ	EQUAL	SOFT	SQUARE FEET
ES	EACH SIDE	SSMH	SANITARY SEWER MANHOLE
ETC	ET CETERA	STD	STANDARD
EW	EACH WAY	STL	STEEL
EX or EXIST	EXISTING	SW	SOUTHWEST
EXP JT	EXPANSION JOINT	SYM	SYMMETRIC or SYMBOL
FG	FINISH GRADE	TB	THRUST BLOCK
FH	FIRE HYDRANT	TBM	TEMPORARY BENCH MARK
FIN	FINISH	TESC	TEMPORARY EROSION AND SEDIMENTATION CONTROL
FL	FLOW LINE OR FLANGE		TOP AND BOTTOM
FM	FORCE MAIN	T&B	TACOMA PUBLIC UTILITIES
FS	FINISHED SURFACE	TPU	
FSM	FIRE SERVICE METER	TW	TOP OF WALL
FT	FOOT, FEET	TYP	TYPICAL
G	GAS	UNO	UNLESS NOTED OTHERWISE
GIS	GEOGRAPHIC INFORMATION SYSTEM	UV	ULTRA-VIOLET
GPS	GLOBAL POSITIONING SYSTEM	V	VERTICAL
GV	GATE VALVE	VAR	VARIABLE or VARIES
H or HORIZ	HORIZONTAL	VERT	VERTICAL
HAZMAT	HAZARDOUS MATERIALS	W	WATER, WEST, WIDTH
HDPE	HIGH DENSITY POLYETHYLENE	W/	WITH
HMA	HOT MIX ASPHALT	W/O	WITHOUT
HORZ	HORIZONTAL	WHS	WELDED HEADED STUD
HT	HEIGHT	WM	WATER METER
ID	INSIDE DIAMETER	XO	CROSSOVER
IE	INVERT ELEVATION	XS	EXTRA STRONG
IN	INCH		
INCL	INCLUDE		
JB	JUNCTION BOX		
JS	JUNCTION STRUCTURE		
JT	JOINT		
KIP(S)	KILOPOUND(S)		
L	LENGTH		
LAT	LATERAL		
LB	POUND		

LEGEND

	CONCRETE (IN SECTION)
	HMA DEMO AND CONCRETE REPLACEMENT LIMITS – PLAN
	LIMITS OF STRUCTURE BELOW GRADE – PLAN
	DEMO LIMITS – DETAILS
	EXISTING CONCRETE
	EXISTING ASPHALT
	EXISTING GRAVEL BASE
	EXISTING SUBGRADE

REFERENCE CALLOUTS





OVERALL SITE PLAN

NOTES

1. CONTRACTOR SHALL STORE ALL EQUIPMENT AND MATERIAL WITHIN THE LAYDOWN AND STAGING AREA SHOWN ON THE PLANS, OR OTHER AREA APPROVED BY THE PORT.
2. CONTRACTOR SHALL MAINTAIN DAILY COORDINATION WITH THE PORT AND TENANT, AND NOT INFRINGE ON TERMINAL ACTIVITIES.
3. TWC CARD OR ESCORT REQUIRED FOR ACCESS TO TERMINAL FOR ALL WORKERS.

G1.3

3

OF 8

CONT/CONS: 071732

M. ID: 2011441.01

PHASE: BID SET

EB-1 UTILITY LID REPAIRS

TERMINAL SITE PLAN

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TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EMPLOYING THE LISTED TESC BMPS AS NEEDED TO PREVENT SEDIMENT LADEN WATER FROM ENTERING THE STORM DRAIN SYSTEM. IF LISTED BMPS ARE INSUFFICIENT, ADDITIONAL BMPS MAY BE REQUIRED.
2. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL MEET THE REQUIREMENTS OF SPECIFICATIONS SECTION 01 57 13.
3. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE PROVIDED TO PREVENT ERODED SEDIMENT AND TURBID WATER FROM ENTERING THE STORM DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES AND FOLLOWING CONSTRUCTION UNTIL THE ENTIRE SITE HAS BEEN STABILIZED.
4. CERTAIN BEST MANAGEMENT PRACTICES (BMPS) THAT MAY BE APPLICABLE TO THE CONTRACTOR'S IMPLEMENTATION OF THE WORK ARE PRESENTED IN THE WASHINGTON STATE DEPARTMENT OF ECOLOGY 2019 STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON, INCLUDING VOLUME 2 "CONSTRUCTION STORMWATER POLLUTION PREVENTION" AND INCLUDE:

BMP C103: HIGH VISIBILITY FENCE

BMP C105: STABILIZED CONSTRUCTION ACCESS

BMP C107: CONSTRUCTION ROAD/PARKING AREA STABILIZATION

BMP C123: PLASTIC COVERING

BMP C152: SAWCUTTING AND SURFACING POLLUTION PREVENTION

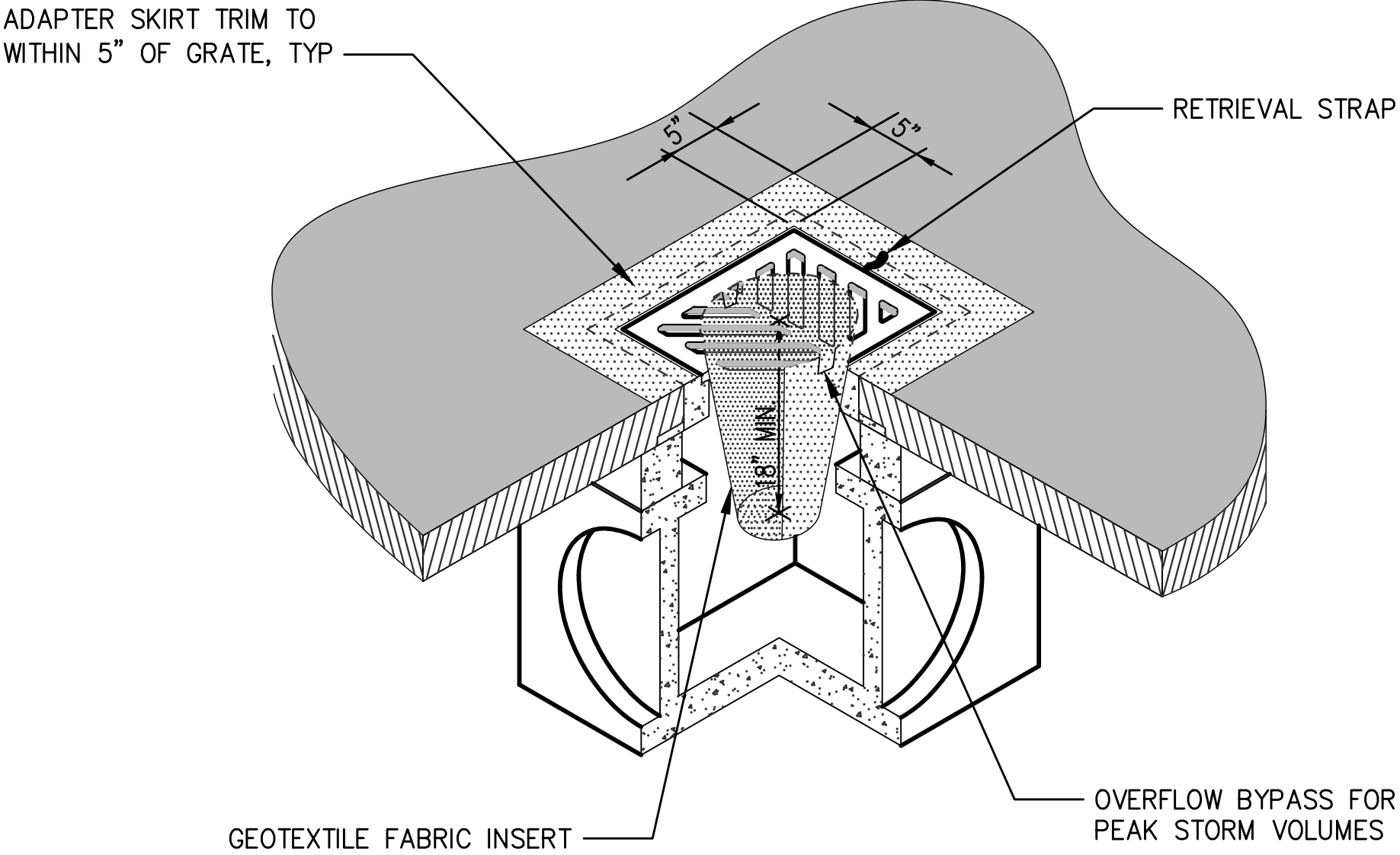
BMP C153: MATERIAL DELIVERY, STORAGE, AND CONTAINMENT

BMP C154: CONCRETE WASHOUT AREA

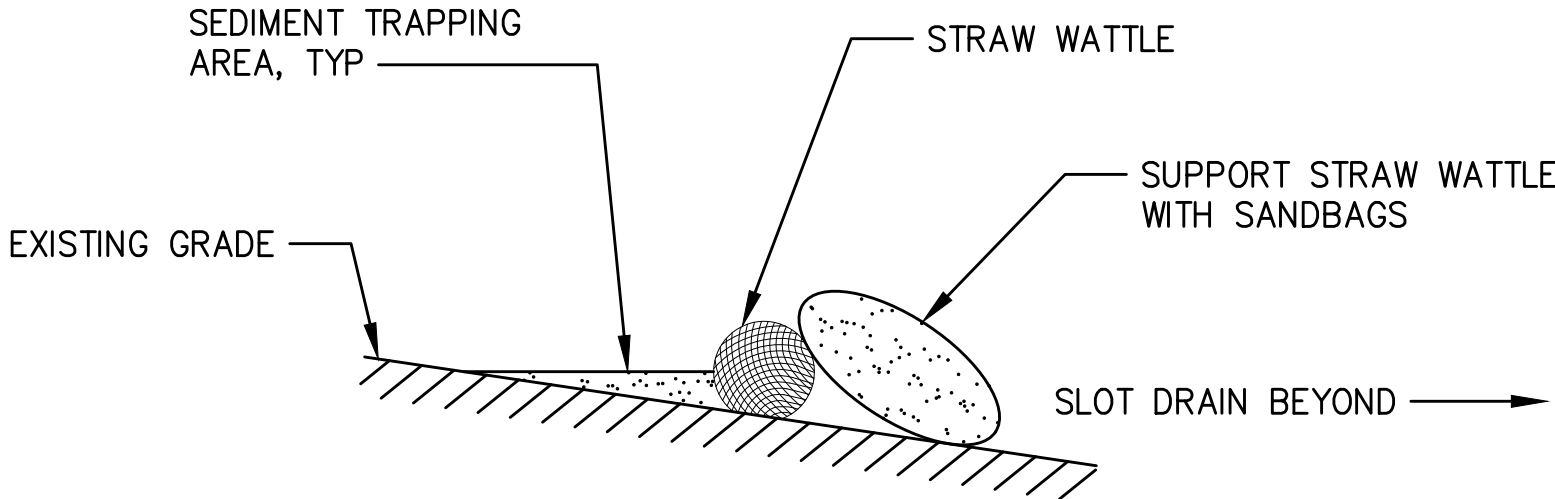
BMP C160: CERTIFIED EROSION AND SEDIMENT CONTROL LEAD

BMP C220: INLET PROTECTION

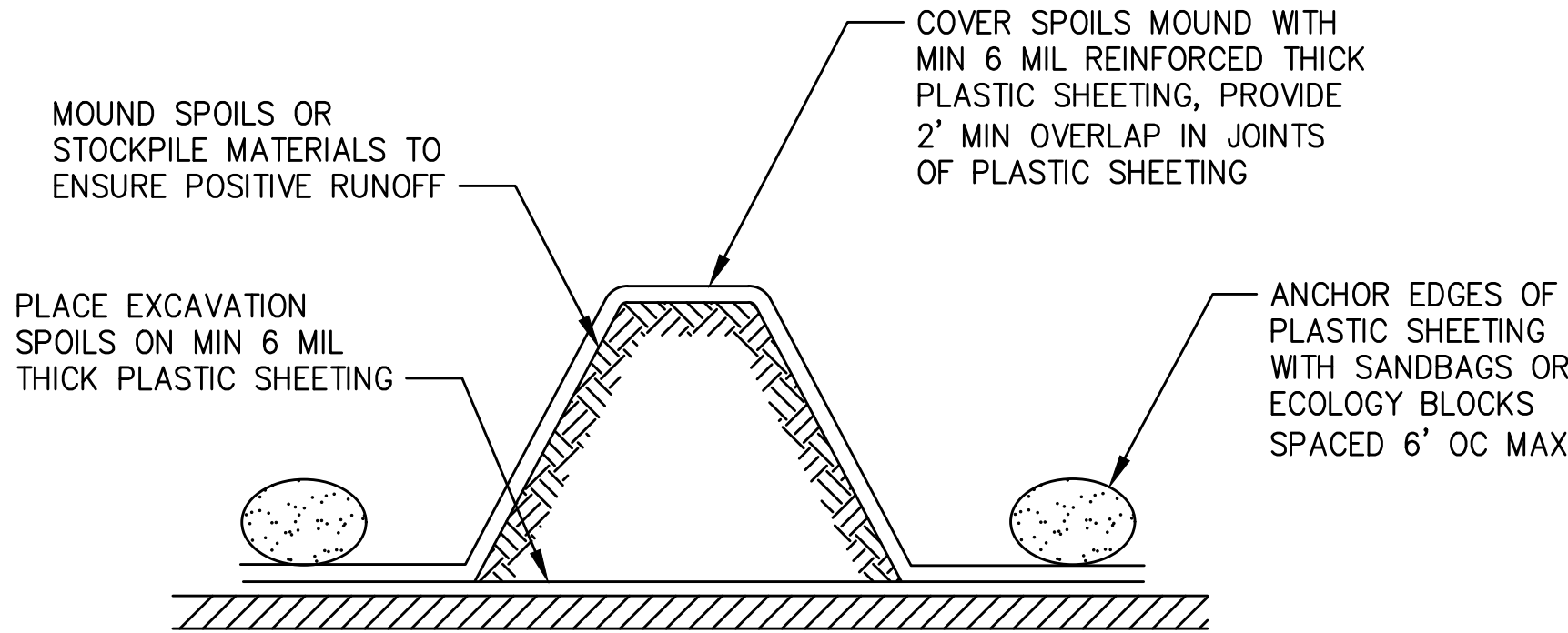
BMP C235: WATTLES
5. IF SEDIMENT IS TRANSPORTED ONTO A PAVED SURFACE, THE SURFACE(S) SHALL BE CLEANED IMMEDIATELY USING A METHOD ACCEPTABLE TO THE ENGINEER. IF A SWEEPER IS USED, IT SHALL BE A REGENERATIVE AIR SWEEPER.
6. THE CONTRACTOR SHALL MAINTAIN, REPLACE, AND UPGRADE TESC FACILITIES UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED. IF EROSION CONTROL FACILITIES FAIL, THEY SHALL BE REPAIRED OR REPLACED IMMEDIATELY.
7. TESC FACILITIES SHALL BE PROVIDED IN CONJUNCTION WITH CLEARING AND GRADING AND/OR DEMOLITION FROM ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT ERODED SEDIMENT OR TURBID WATER DOES NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
8. AS CONSTRUCTION PROGRESSES AND UNEXPECTED CONDITIONS AND/OR SEASONAL CONDITIONS DICTATE, THE CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION AND SEDIMENTATION CONTROL FACILITIES TO ENSURE COMPLETE SILTATION CONTROL ON THE PROJECT SITE.
9. ADDRESS ANY NEW CONDITIONS AND PROVIDE ADDITIONAL FACILITIES AS MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES AND WATER QUALITY OF THE RECEIVING DRAINAGE SYSTEM AND AS REQUIRED BY THE ENGINEER.
10. CATCH BASIN CLEANING SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM PIPE OR SYSTEM.
11. THE CONTRACTOR SHALL PROTECT STOCK PILE AREAS FROM RELEASE OF ERODED SEDIMENT OR SEDIMENT-LADEN WATER. STOCK PILES SHALL BE LINED AND COVERED AT ALL TIMES WHILE NOT IN USE TO KEEP THE STORED MATERIAL DRY.
12. ALL DISTURBED AREAS SHALL BE STABILIZED BY ACCEPTABLE METHODS FOR THE PREVENTION OF ON-SITE EROSION AFTER COMPLETION OF CONSTRUCTION.
13. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL FACILITIES FROM EACH WORK AREA AFTER IT HAS BEEN COMPLETELY STABILIZED.



1
- NTS
INLET PROTECTION DETAIL



2
- NTS
STRAW WATTLE DETAIL



3
- NTS
STOCKPILE PROTECTION DETAIL

NOTES:

1. INSERT SHALL BE INSTALLED IN ALL OPERATIONAL CATCH BASINS WITHIN 500 FEET OF WORK LIMITS PRIOR TO CLEARING AND GRADING ACTIVITY, OR UPON PLACEMENT OF A NEW CATCH BASIN.
2. FILTERS SHALL BE INSPECTED AFTER EACH STORM EVENT AND CLEANED OR REPLACED WHEN IT IS 1/3 FULL.

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EB-1 UTILITY LID REPAIRS

TESC NOTES AND DETAILS

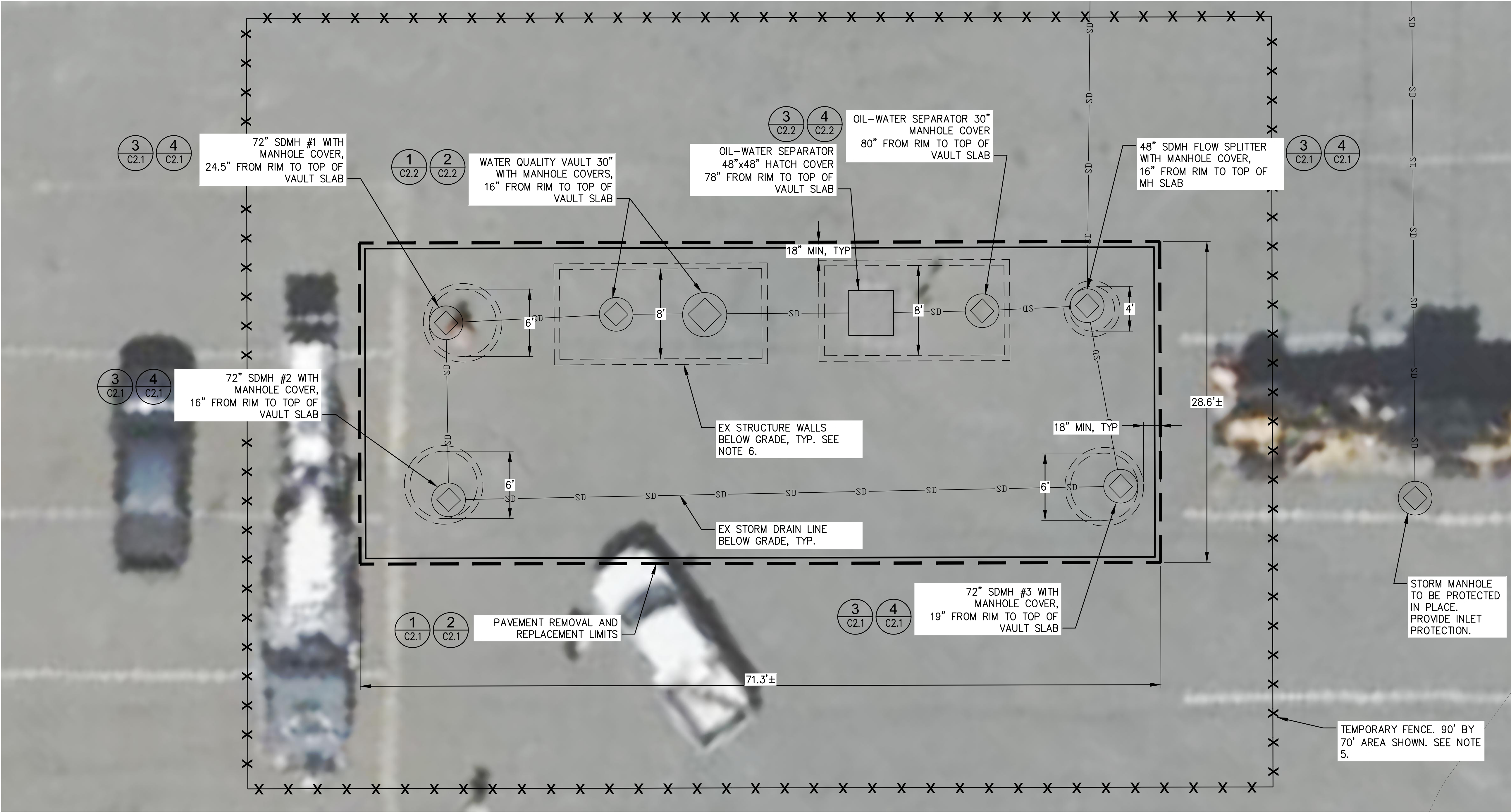
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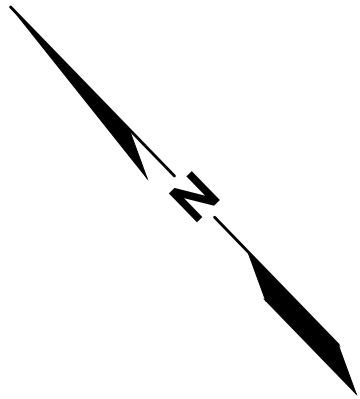
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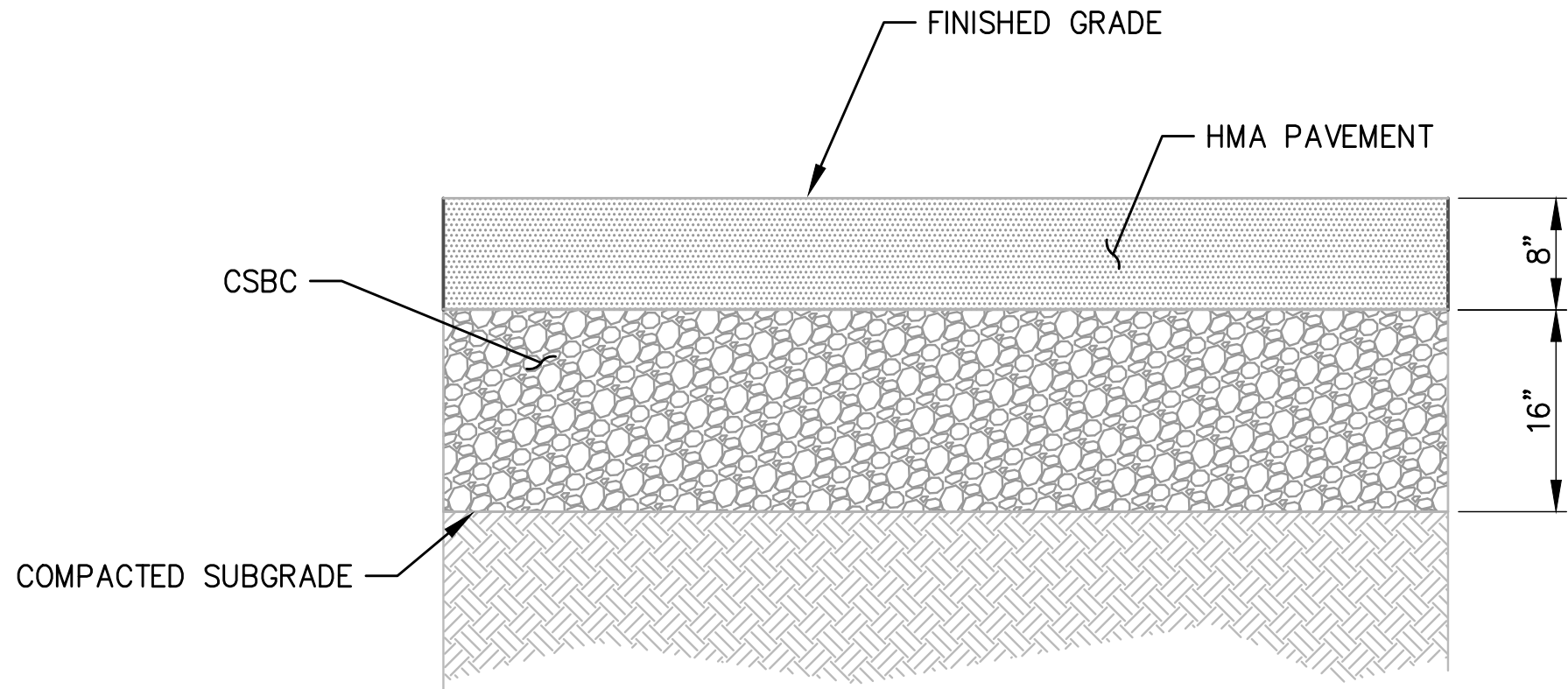
NOTES

1. THE WORK INCLUDES SAWCUTTING OF EXISTING ASPHALT, REMOVAL OF EXISTING PAVEMENT AND BASE COURSE, REPLACEMENT OF METAL UTILITY FRAMES AND COVERS (WHERE NOTED), AND PLACING REINFORCED CONCRETE SLAB TO MATCH EXISTING ASPHALT GRADE.
2. NO FIELD SURVEY HAS BEEN CONDUCTED FOR THIS PROJECT. THE INFORMATION PRESENTED IS BASED UPON AVAILABLE RECORD DRAWING INFORMATION, GIS DATA, SITE SURFACE OBSERVATIONS, AND AERIAL IMAGERY. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL REFERENCES TO EXISTING CONDITIONS AND REPORTING ALL DISCREPANCIES BETWEEN INFORMATION CONTAINED HEREIN AND FIELD CONDITIONS PRIOR TO PROCEEDING WITH REPAIRS.
3. THE DISTANCE FROM TOP OF VAULT SLABS TO RIM ELEVATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL CONFIRM THESE DISTANCES IN THE FIELD PRIOR TO COMMENCEMENT OF WORK AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
4. IF SOFT SPOTS IN EXISTING BASE COURSE OR SUBGRADE ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER. REMOVE UNSUITABLE MATERIAL TO THE SATISFACTION OF THE ENGINEER AND REPLACE WITH CONCRETE.
5. THE CONTRACTOR SHALL COORDINATE THE LIMITS OF THE WORK AREA WITH THE PORT AND TENANT. THE TEMPORARY FENCING SHALL BE ANCHORED AT THE PAVEMENT SURFACE AND FENCE POLES SHALL NOT BE EMBEDDED INTO THE PAVEMENT.
6. CONTRACTOR TO CONFIRM LIMITS OF BELOW GRADE STRUCTURE WALLS AND NOTIFY ENGINEER IF LIMITS VARY FROM THE PLANS AND THE PROPOSED SLAB DIMENSIONS DO NOT PROVIDE MINIMUM HORIZONTAL CLEARANCE OF 18" BETWEEN STRUCTURE WALL AND EDGE OF SLAB.

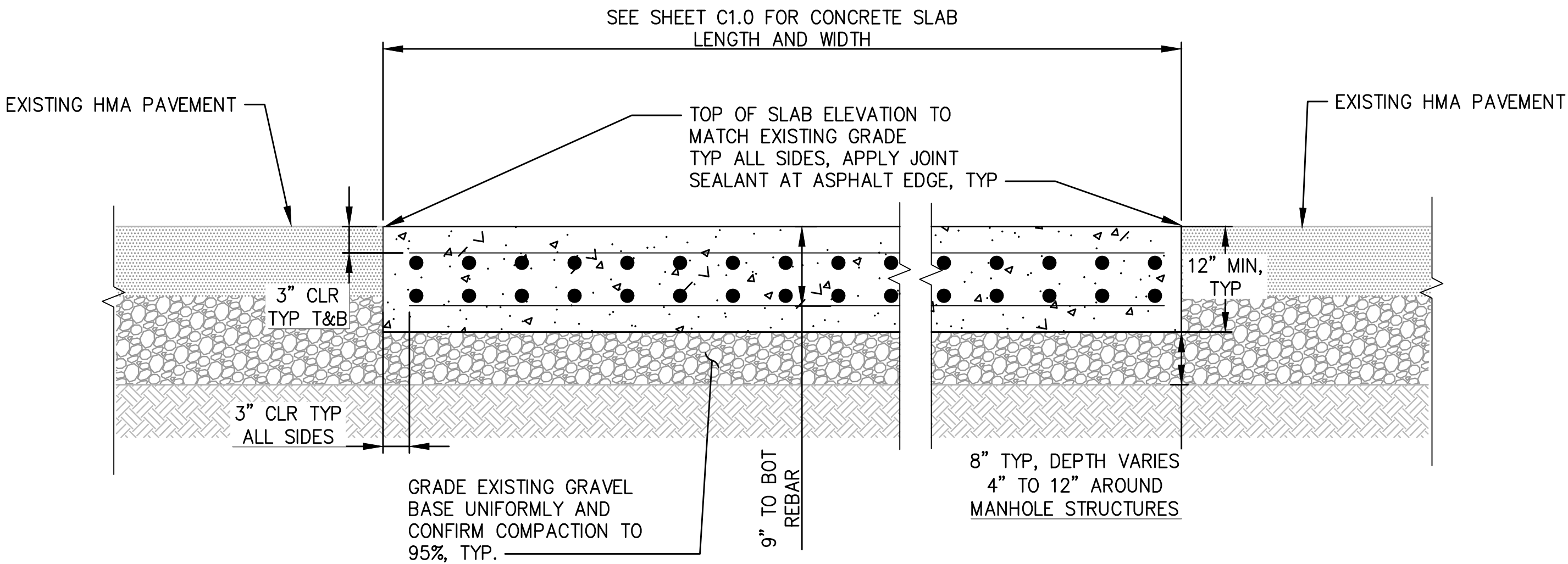
SITE PLAN



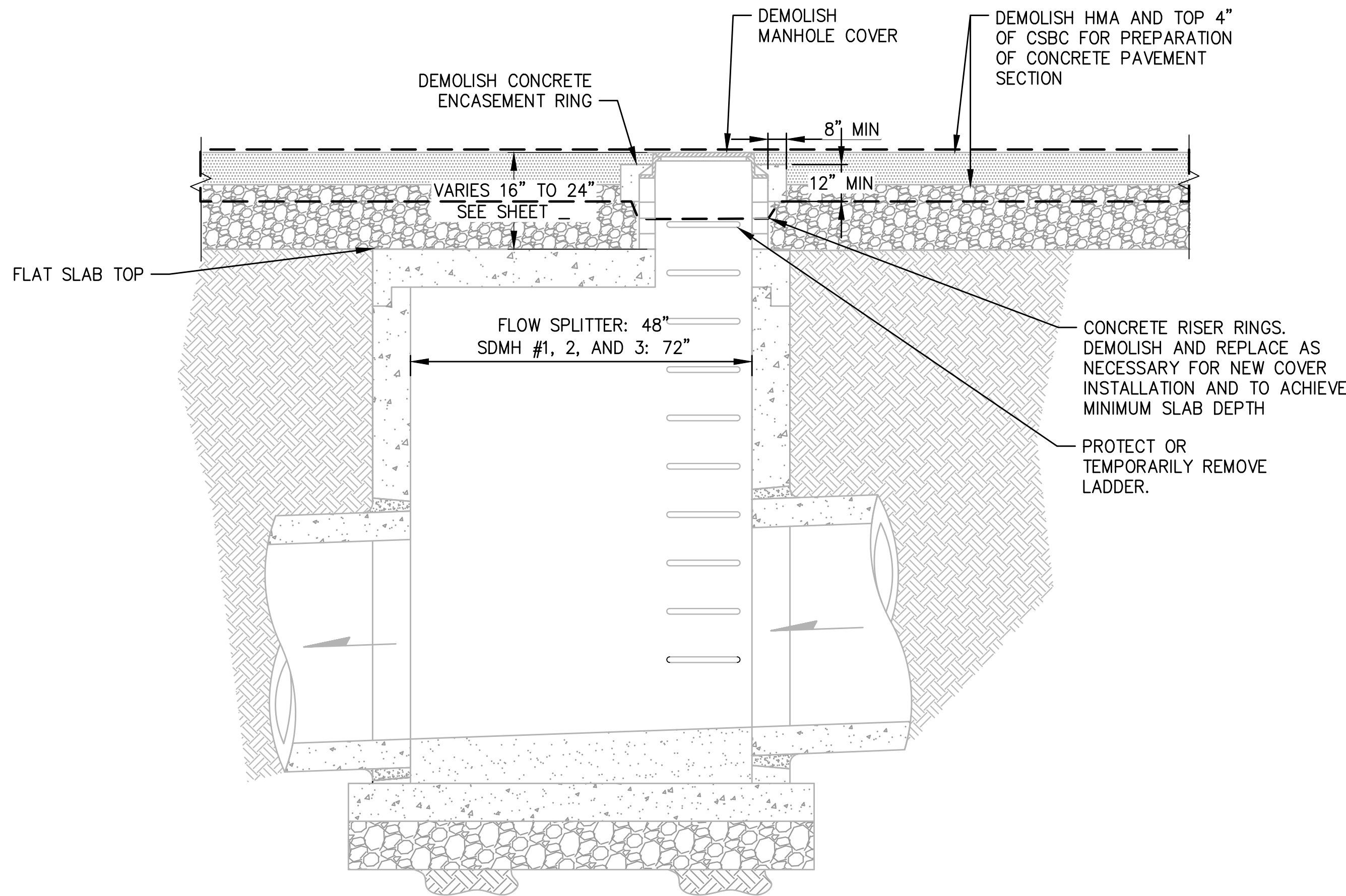
C1.1 5 OF 8	EB-1 UTILITY LID REPAIRS				APPROVED:				TJH 9/22/2022		9/23/22									
	SITE PLAN				CHECKED BY DATE		REVISION:		BY:		APPR:		DATE:		2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162		Port of Tacoma P.O. BOX 1837 TACOMA, WA 98401-1837			
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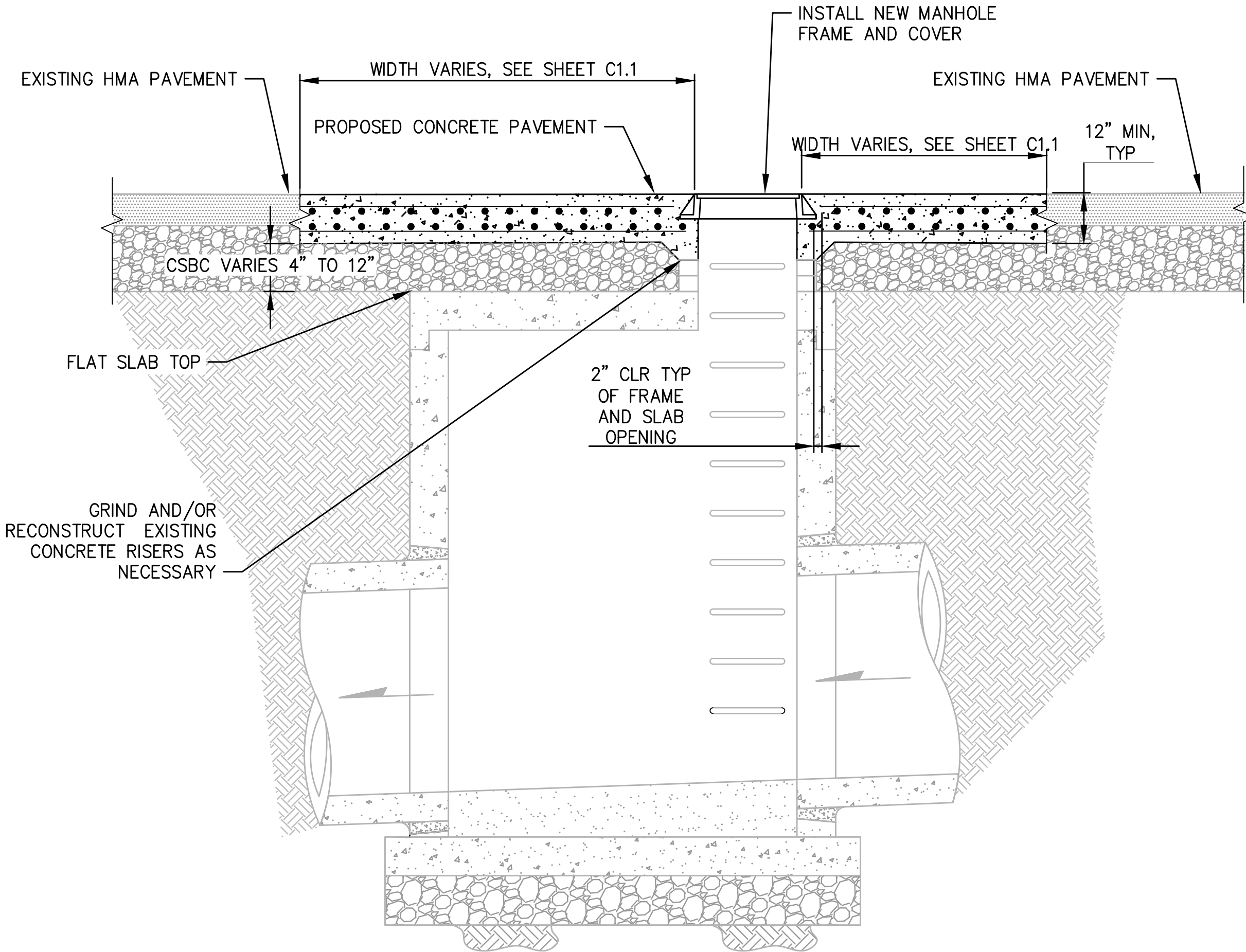
1 EXISTING PAVEMENT SECTION
SCALE: 1" = 1'



2 PROPOSED CONCRETE SLAB SECTION
SCALE: 1" = 1'



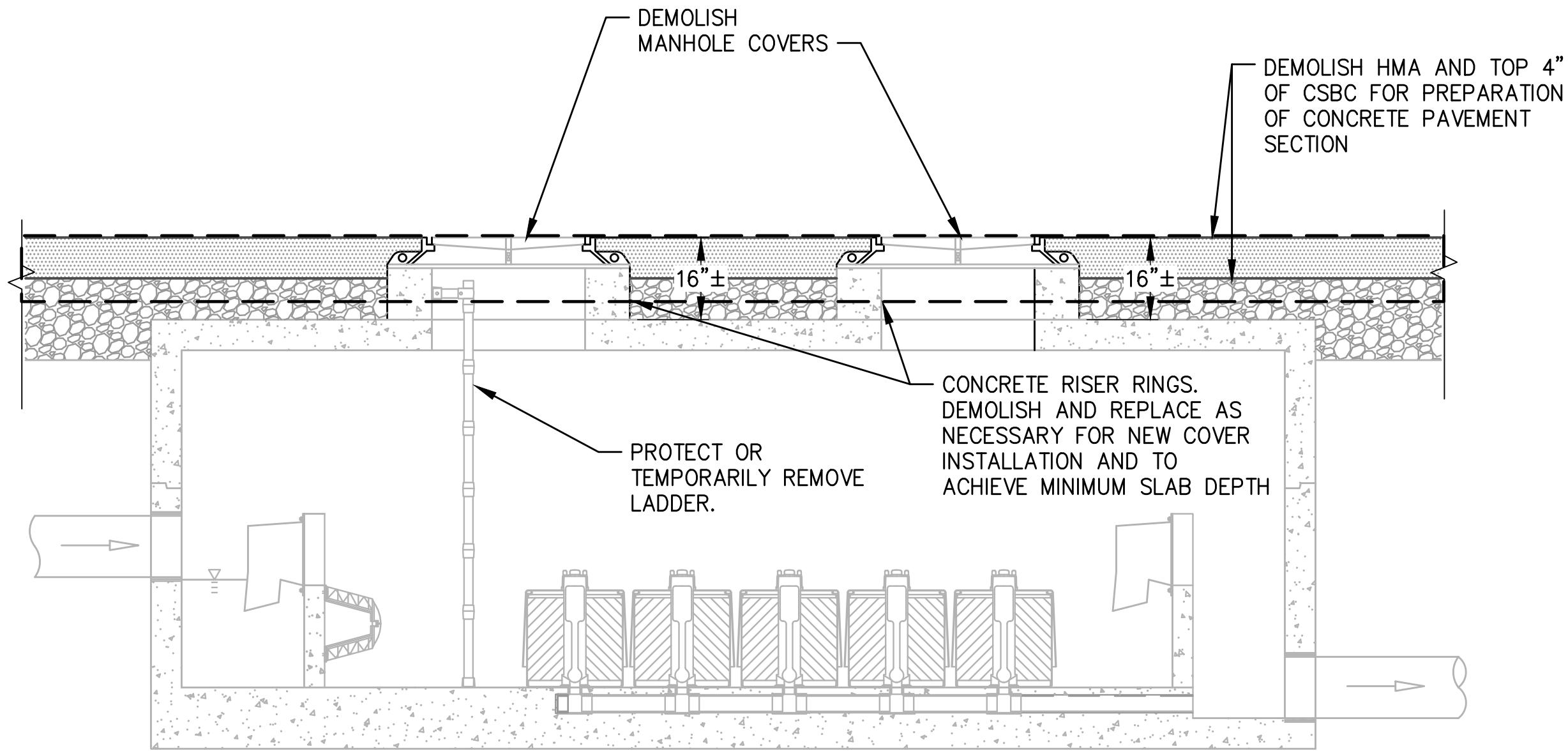
3 EXISTING MANHOLE CONDITIONS
SCALE: 1" = 2'



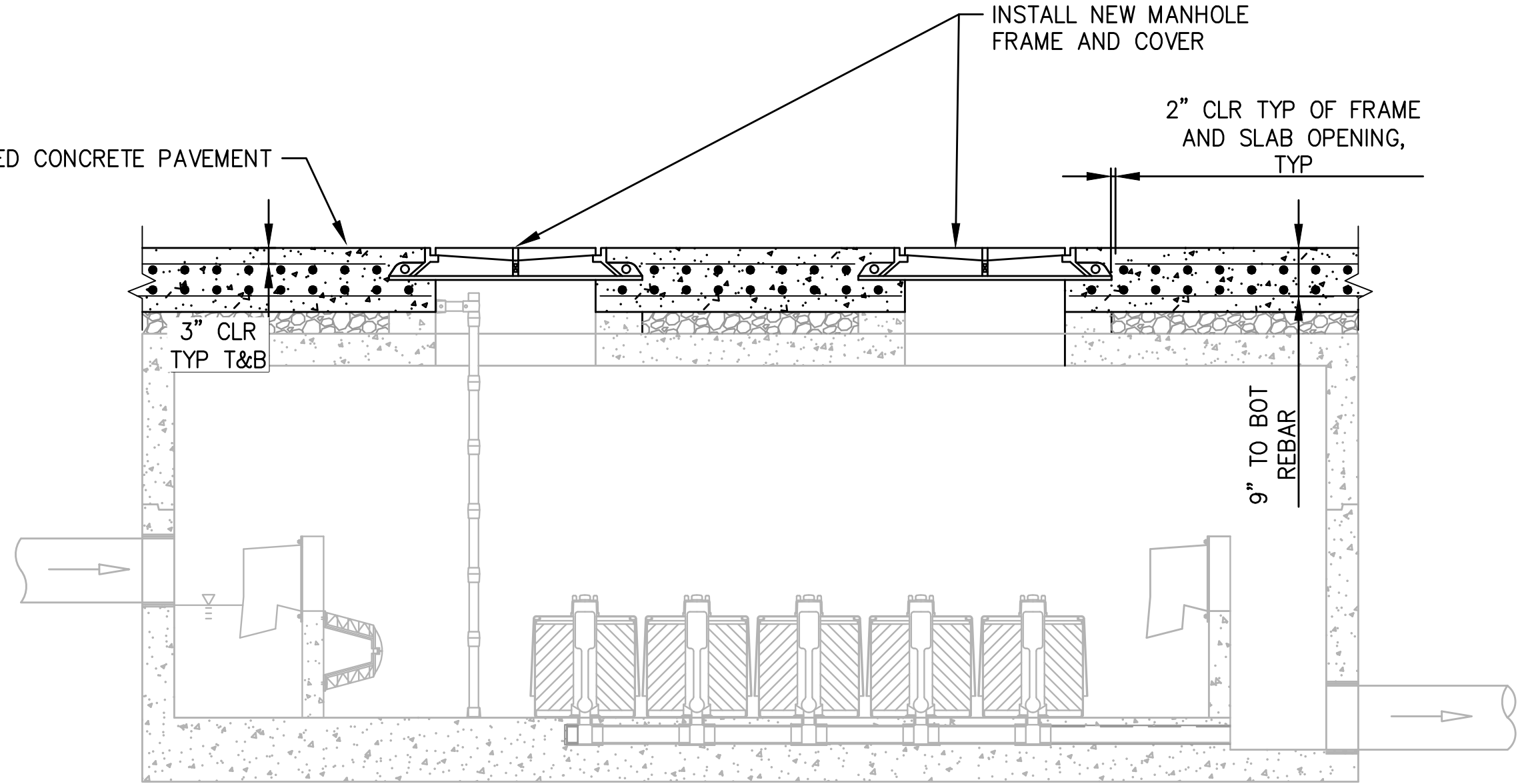
4 PROPOSED MANHOLE CONDITIONS
SCALE: 1" = 2'

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M. ID: 201144.01 DAT-HRZ: W83-SF VERT: PORT OF TACOMA BM#				PORT ADDRESS: ONE SITCUM PLAZA				
PHASE: BID SET				PARCEL: 0321354035 DRAWING SCALE: AS SHOWN				TACOMA, WA, 98401-1837

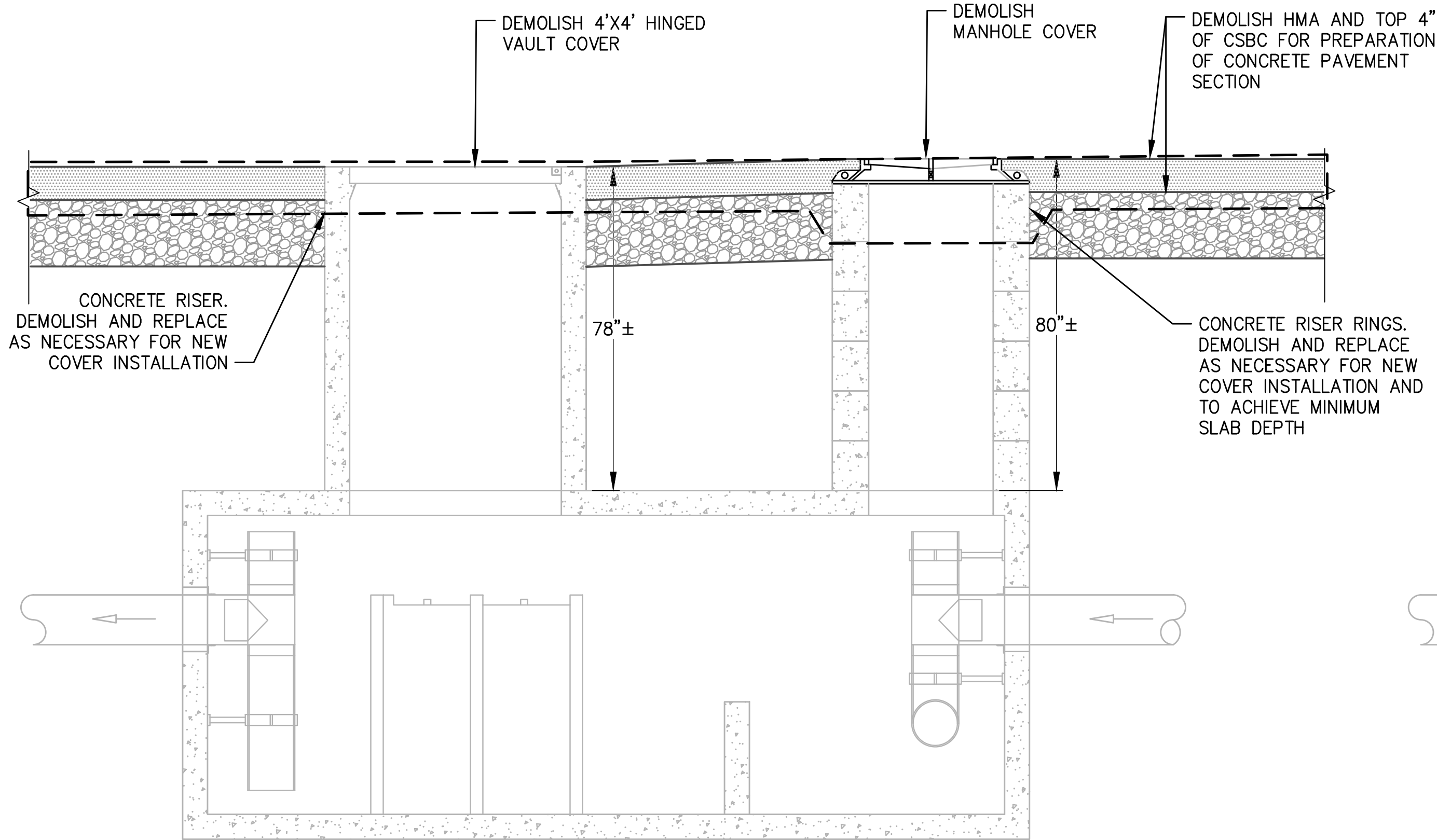
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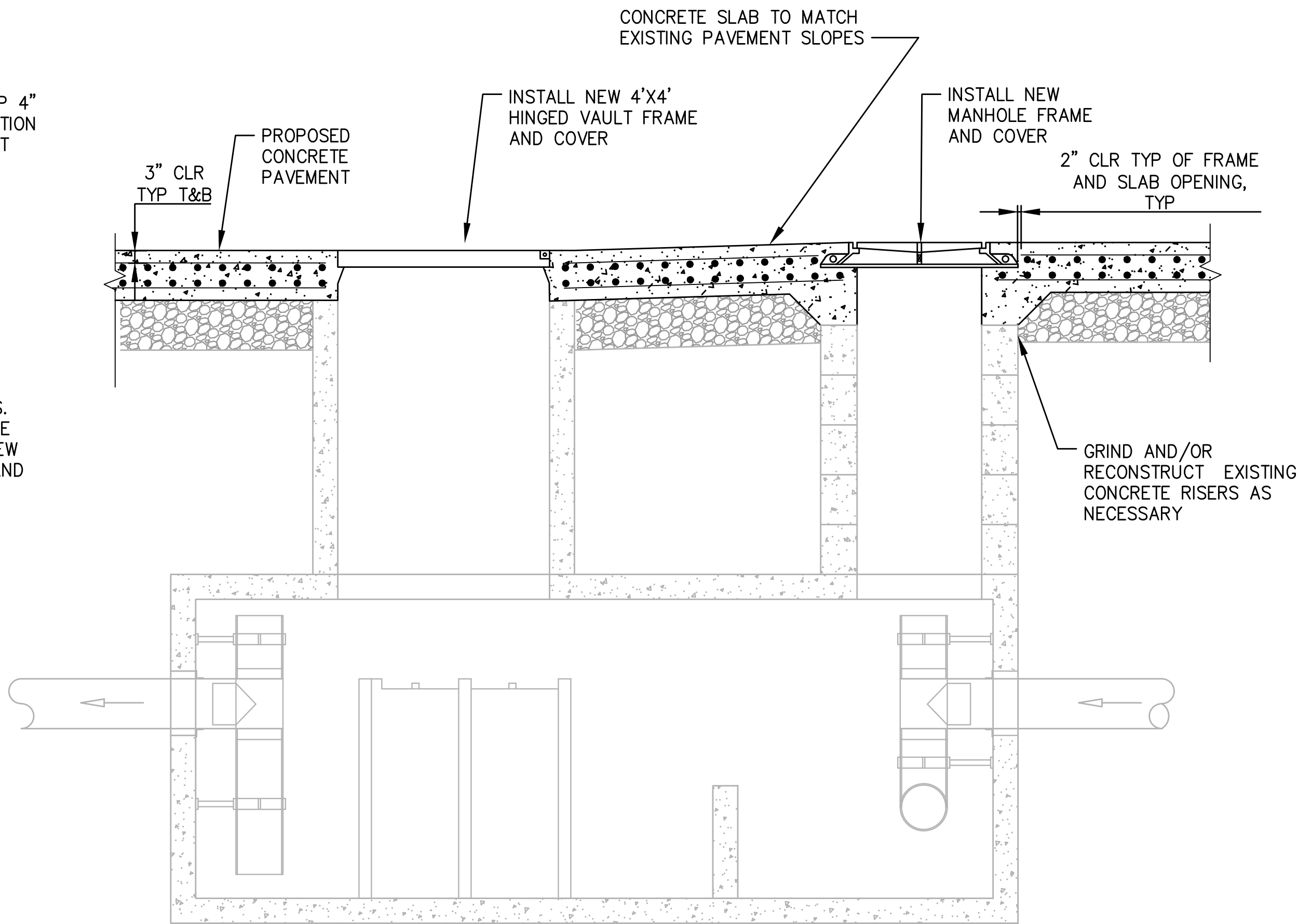
1 EXISTING WATER QUALITY VAULT CONDITIONS
SCALE: 1" = 2'



2 PROPOSED WATER QUALITY VAULT CONDITIONS
SCALE: 1" = 2'

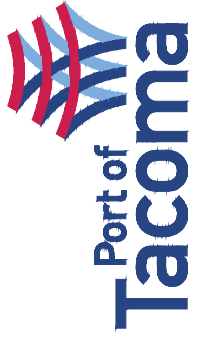


3 EXISTING OIL WATER SEPARATOR CONDITIONS
SCALE: 1" = 2'

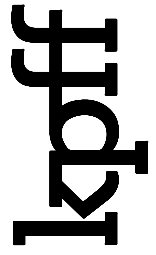


4 PROPOSED OIL WATER SEPARATOR CONDITIONS
SCALE: 1" = 2'

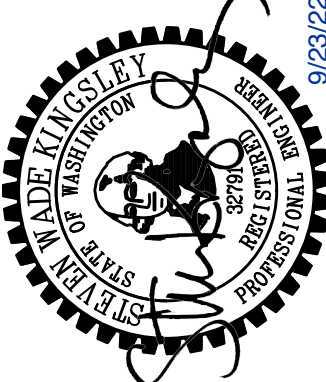
C2.2 7 OF 8	EB-1 UTILITY LID REPAIRS		APPROVED:		TJH	9/22/2022
	EXISTING AND PROPOSED DETAILS		CHECKED BY:		SWK	9/22/2022
	TOWNSHIP: 21N	RANGE: 3E	SECTION: 36	DIRECTOR ENG. DATE		thelbig Sep 22, 2022
	DAT-HRZ: W83-SF	VERT: PORT OF TACOMA BM#	PRINTED BY:		PROJ. ENGR	DATE
PHASE: BID SET	PARCEL: 0321354035	DRAWING SCALE: AS SHOWN	PORT ADDRESS: ONE SITCUM PLAZA		TACOMA WA, 98401-1837	
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