# PORT OF TACOMA

# PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS PROJECT NO. 201038.01 CONTRACT NO. 070857

### **PORT COMMISSIONERS:**

DONALD JOHNSON RICHARD MARZANO DON MEYER JOHN MCCARTHY CLARE PETRICH

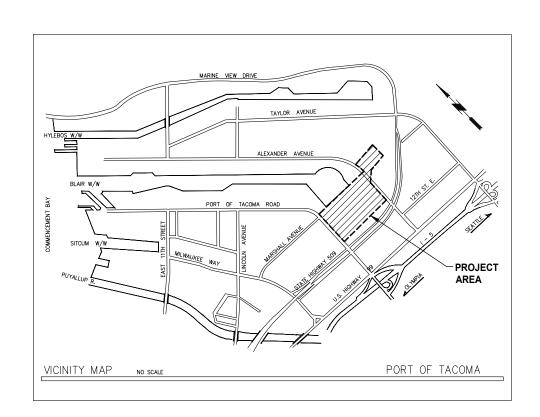
### **PORT STAFF:**

JOHN WOLFE
Chief Executive Officer

DAKOTA CHAMBERLAIN, PE Chief Facilities Development Officer

JANE VANDENBERG, PE Director of Engineering

DAVID MYERS
Project Manager



CONSULTANT:		
	moffatt & nichol	
	600 UNIVERSITY STREET SUITE 610 SEATTLE, WA 98101 (206) 622-0222	

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### **GENERAL NOTES:**

- 1. THE PLANS INDICATE TYPICAL REPAIR AND REHABILITATION OF EXISTING YARD STRUCTURES AND SHALL BE CONSIDERED TO BE REFERENCE INFORMATION FOR THE PURPOSES OF BID PREPARATION OF THE UNIT PRICE PAY ITEMS. WORK OF THIS CONTRACT WILL BE AUTHORIZED ON A TASK BY TASK BASIS AND MAY VARY FROM THE WORK REPRESENTED ON THE PLANS. THE LOCATIONS AND LIMITS OF WORK IS SUBJECT TO FIELD DETERMINATION BY THE ENGINEER AND AUTHORIZATION ON A TASK BY TASK BASIS.
- 2. THE CONTRACTOR SHALL PERFORM ALL WORK IN SUCH A MANNER AS TO NOT IMPACT TERMINAL OPERATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE PORT AND SCHEDULE WORK TO MINIMIZE DISRUPTION, STRICT COMPLIANCE WITH THE SPECIFIED WORK HOURS AND DAYS WILL BE ENFORCED. 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. THE CONTRACTOR SHALL PROVIDE ALL NOTICES AND PERMITS REQUIRED FOR THIS WORK.
- 5. IF CLASSIFIED HAZARDOUS MATERIAL IS ENCOUNTERED DURING CONSTRUCTION, CONTRACTOR IS DIRECTED TO STOP WORK IN THE EFFECTED AREA IMMEDIATELY AND NOTIFY THE ENGINEER.
- 6. 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.
- 7. MODIFICATIONS TO EXISTING STRUCTURES SHALL MAINTAIN A LOAD CAPACITY OF 125 KIPS (REFER TO REFERENCE DOCUMENT PCT REDEVELOPMENT CONSTRUCTION SHEET S1.1 PROVIDED BY THE

ABBREVIATIONS
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CV CY

, " ©	FEET INCHES AT	REQ'D ROW RR	REQUIRED RIGHT OF WAY (CITY OF TACOMA) RAIL ROAD
ACP APPROX	ASPHALT CONCRETE PAVEMENT APPROXIMATE	SD SIM SS	STORM DRAINAGE SIMILAR SANITARY SEWER
BLDG	BUILDING	STD SV	STANDARD SITE COMMUNICATIONS VAULT

REINFORCED

CB CL	CATCH BASIN CLASS	TESC	TEMPORARY EROSION AND SEDIMENTATION CONTROL
COMM	COMMUNICATIONS CONCRETE	TEL TYP	TELEPHONE TYPICAL

CSBC CSTC	CRUSHED SURFACING BASE COURSE CRUSHED SURFACING TOP COURSE	UON	UNLESS OTHERWISE NOTED
CTR	CENTER SON ACING VALUE	VERT	VERTICAL

	COMMUNICATIONS VAULT	VLT	VAUL
	CUBIC YARD	VLV	VAL\
5	DIAMETER DIMENSION		

ELEC	ELECTRICAL
ELEV	ELEVATION
EOP	EDGE OF PAVEMENT
EQUIP	EQUIPMENT
ESC	EROSION AND SEDIMENTATION CONTROL
EW	EACH WAY
EX	EXISTING

FOV	CRANE	<b>FIBER</b>	OPTIC	COMMUNICATIONS	
	VALILT				

	VAULT
FT	FEET
F۷	FIELD VERIFY
FW	FIRE WATER

HMA	HOT MIX ASPHALT
HORIZ	HORIZONTAL
IE	INIVEDT ELEVATION

IE.	INVERT ELEVATION
KIPS	THOUSANDS OF POUNDS

LF	LINEAR FEET
MAINT MAX	MAINTENANCE MAXIMUM
MFR's	MANUFACTURERS
мН	MANHOLE

MIN	MINIMUM	
MLLW	MEAN LOWER LOW WATER	

N	NORTH OR NORTHING
NA	NOT APPLICABLE
NGAS	NATURAL GAS
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OWS	OIL / WATER SEPARATOR

PCT	PIERCE COUNTY TERMINAL
PG	PERFORMANCE GRADE
POT	PORT OF TACOMA
PV	POWER VAULT
PVC	POLYVINYL CHLORIDE
DVMT	DAVEMENT

### **LEGEND**

EXISTING	DESCRIP HON
X	FENCE





 FOLE
TYPE 1L CB

TYPE 2 CB

ACP
GRAVEL BASE

	SUBGRADE
V // / / / / / N	



4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	CAST-IN-PLACE CONC
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	FLOWABLE FILL BASE COURSE
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### REFERENCE CALLOUTS



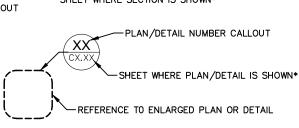
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-SHEET WHERE PLAN/SECTION/DETAIL IS TAKEN\*

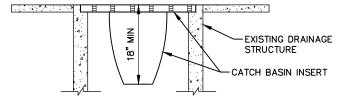


\*NOTE: DASH (-) INDICATES SECTION OR DÈTÁIL FROM SAME SHEET

### ONE-CALL at 1-800-424-5555

UNDERGROUND UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE, AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURE. TO DETERMINE ACTUAL LOCATIONS, SIZE, AND MATERIAL. THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 1—800—424—5555 AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.

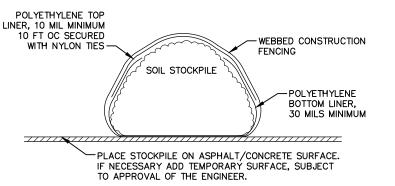
- A. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL MEET THE REQUIREMENTS OF SPECIFICATIONS SECTION 01 57 13.
- B. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE PROVIDED TO PREVENT ERODED SEDIMENT AND TURBID WATER FROM ENTERING THE STORM DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES DURING AND FOLLOWING CONSTRUCTION UNTIL ENTIRE SITE HAS BEEN STABILIZED.
- C. 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 2012 STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON, AS AMENDED IN DECEMBER 2014, INCLUDING VOLUME 2 "STORMWATER MANAGEMENT" AND INCLUDE:
- BMP C103: HIGH VISIBILITY FENCE
- BMP C105: STABILIZED CONSTRUCTION ENTRANCE/EXIT
- BMP C107: CONSTRUCTION ROAD/PARKING AREA STABILIZATION
- 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: STORM DRAIN INLET PROTECTION
- D. 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.
- E. 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.
- F. TESC FACILITIES SHALL BE PROVIDED IN CONJUNCTION WITH CLEARING AND GRADING AND/OR DEMOLITION 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.
- G. 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.
- H. 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.
- I. CATCH BASIN CLEANING SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM PIPE OR SYSTEM.
- J. 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.
- K. ALL DISTURBED AREAS SHALL BE STABILIZED BY ACCEPTABLE METHODS FOR THE PREVENTION OF ON-SITE EROSION AFTER COMPLETION OF CONSTRUCTION.
- L. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL FACILITIES FROM EACH WORK AREA AFTER IT HAS BEEN COMPLETELY STABILIZED.



### NOTES:

- A. THE CATCH BASIN INSERT DETAIL IS SCHEMATIC.
- B. CATCH BASIN INSERTS SHALL HAVE A MINIMUM STORAGE CAPACITY OF 0.5 CUBIC FEET AND A MEANS TO DEWATER THE STORED SEDIMENT. INSERTS SHALL HAVE AN OVERFLOW AND SHALL BE EASY TO MAINTAIN.
- C. FILTERS SHALL BE INSPECTED AFTER EACH STORM EVENT. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN INSERT.
- D. INSERTS SHALL BE INSTALLED IN ALL OPERATIONAL CATCH BASINS WITHIN 100 FEET OF WORK LIMITS PRIOR TO CLEARING AND GRADING ACTIVITY.





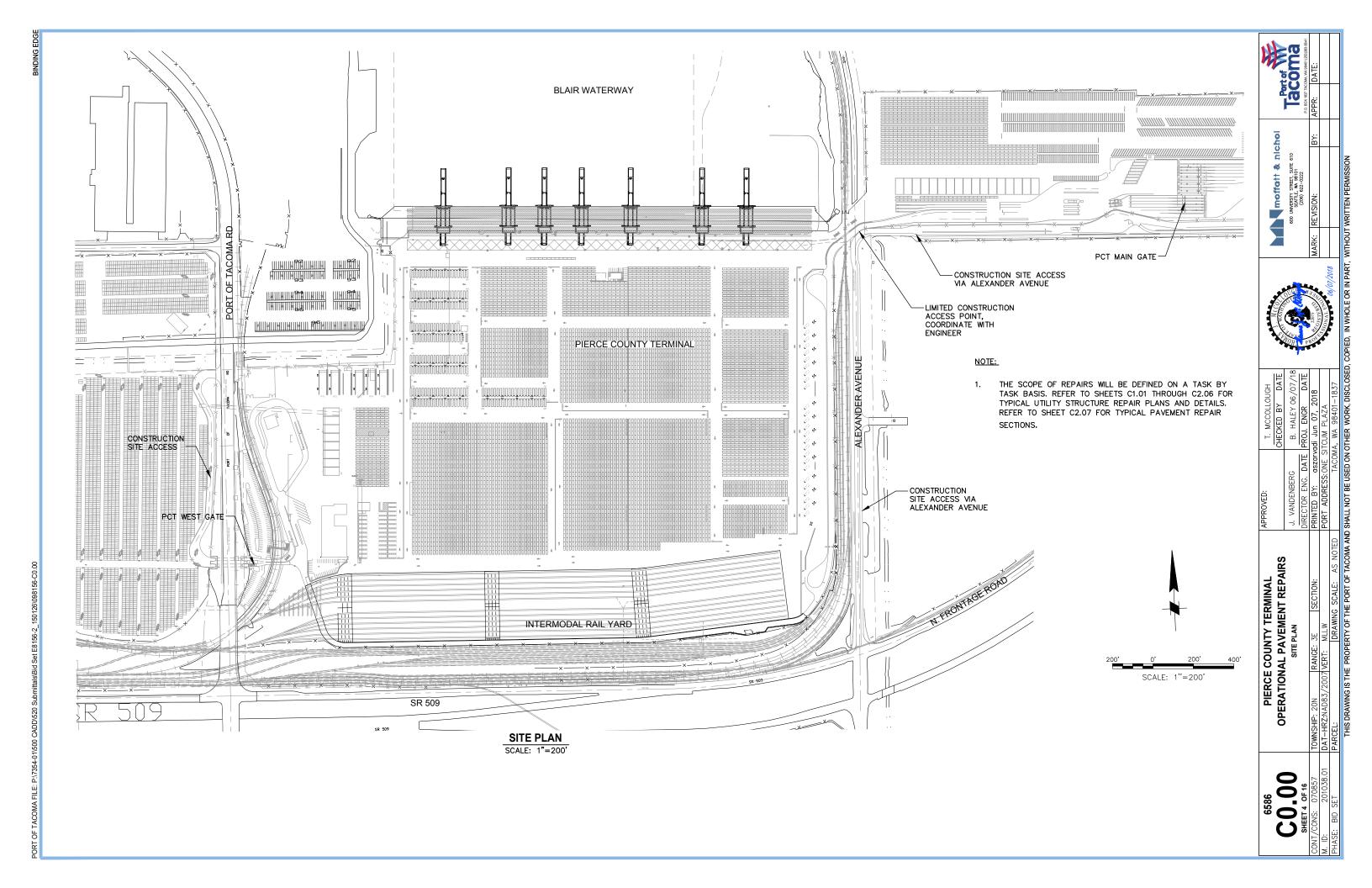


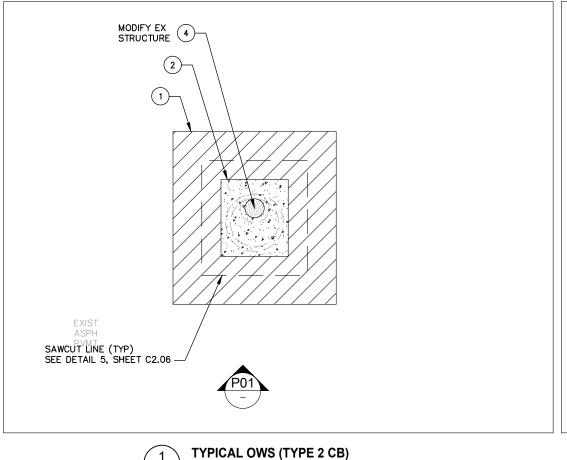


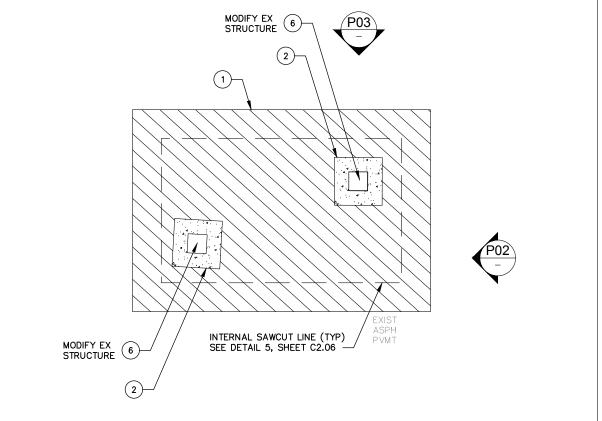




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TYPICAL DOUBLE VALVE BOX SLAB (WATER VALVE BOXES)

SCALE: 1" = 5'

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SCALE: 1" = 5'





P01 TYPICAL OWS

P02 TYPICAL VALVE BOX

P03 TYPICAL VALVE BOX

### STD CONSTRUCTION NOTES:

- 1) LIMITS OF ACP REMOVAL AND RESTORATION.
- 2 LIMITS OF REINF CONC SLAB.
- 3 ADJUST TYPE 1L CB AND RESTORE SURFACING, SEE DETAIL 1, SHEET C2.01.
- ADJUST TYPE 2 CB AND RESTORE SURFACING, SEE DETAIL 2, SHEET C2.02.
- ADJUST VAULT AND RESTORE SURFACING, SEE DETAIL 3, SHEET C2.03.
- 6 ADJUST WATER VALVE BOX AND RESTORE SURFACING, SEE DETAIL 4, SHEET C2.04.

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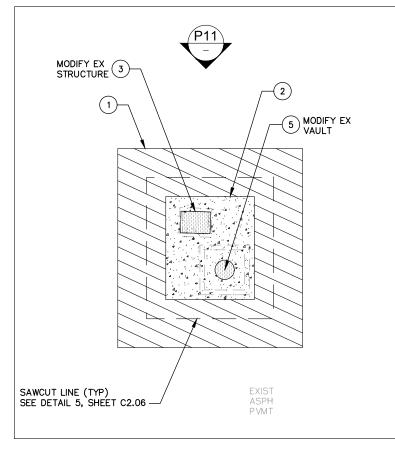
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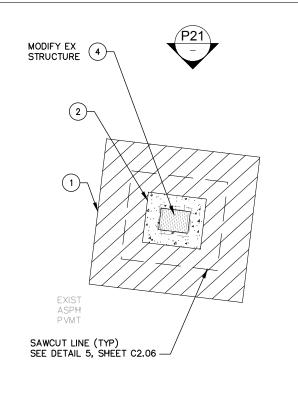
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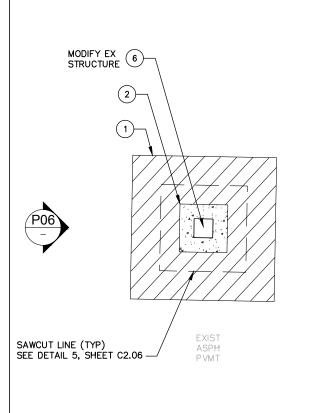
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- 2. NOT EVERY STD CONSTRUCTION NOTE IS USED ON EVERY SHEET.
- 3. PROTECT WORK AREAS PER DETAIL 7, SHEET C2.06.

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5' 0' 5' 10' SCALE: 1"=5'







### **STD CONSTRUCTION NOTES:**

- 1) LIMITS OF ACP REMOVAL AND RESTORATION.
- 2 LIMITS OF REINF CONC SLAB.
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PIERCE COUNTY TERMINAL
OPERATIONAL PAVEMENT REPAIRS
ENLARGED UTILITIES PLAN 02

NOTES: EXISTING STRUCTURES ARE SHOWN AT ESTIMATED LOCATIONS, SIZE AND CONFIGURATION. CONTRACTOR SHALL

2. NOT EVERY STD CONSTRUCTION NOTE IS USED ON EVERY SHEET.

FIELD VERIFY SITE CONDITIONS.

3. PROTECT WORK AREAS PER DETAIL 7, SHEET C2.06.

TYPICAL SINGLE VALVE BOX (WATER VALVE BOX) SCALE: 1" = 5'

# TYPICAL CB (TYPE 1L CB) & CPV (POWER VAULT)

TYPICAL CB (TYPE 2 CB) SCALE: 1" = 5'



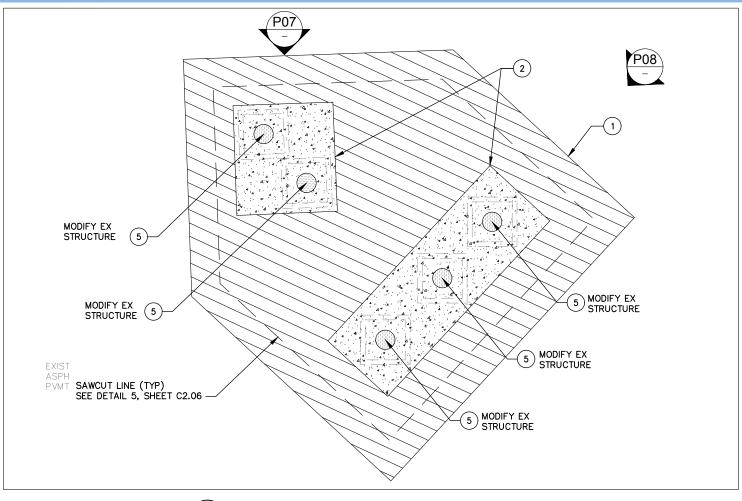
**TYPICAL SD & CPV** 



**TYPICAL CB** 

**TYPICAL VALVE BOX** 





MODIFY EX STRUCTURE 3 (2) SAWCUT LINE (TYP) SEE DETAIL 5, SHEET C2.06 EXIST ASPH PVMT

### **STD CONSTRUCTION NOTES:**

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- 2 LIMITS OF REINF CONC SLAB.
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- ADJUST VAULT AND RESTORE SURFACING, SEE DETAIL 3, SHEET C2.03.
- ADJUST WATER VALVE BOX AND RESTORE SURFACING, SEE DETAIL 4, SHEET C2.04.

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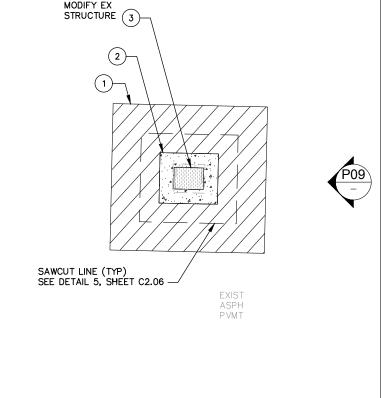
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TYPICAL CB (TYPE 1L CB)

TYPICAL CPV, CPV, PV, PV & SV (ELEC / COMM VAULTS)



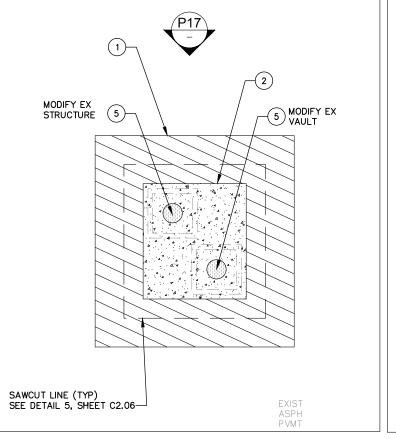
TYPICAL CB

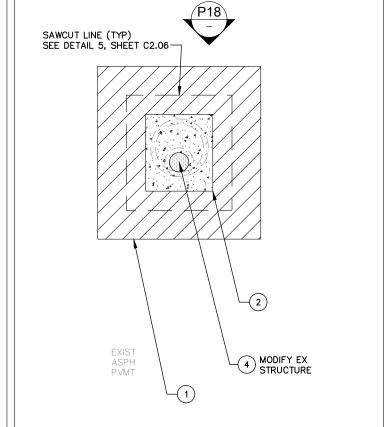


**TYPICAL CPV & CPV** 

**TYPICAL PV, PV & SV** 

SCALE: 1"=5'





TYPICAL PV & SV (POWER / COMM VAULT)

SCALE: 1" = 5'

18 TYPICAL SD (TYPE 2 CB)

- SCALE: 1" = 5'



P17 TYPICAL PV & SV



P18 TYPICAL CB

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- 6 ADJUST WATER VALVE BOX AND RESTORE SURFACING, SEE DETAIL 4, SHEET C2.04.

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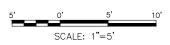


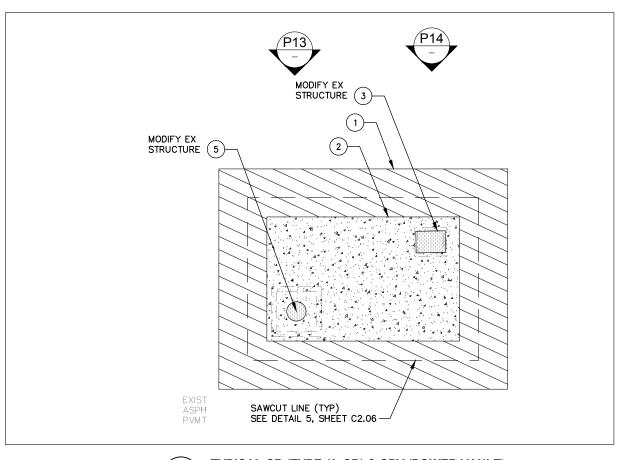
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MODIFY EX STRUCTURE (5)-(2) SAWCUT LINE (TYP) SEE DETAIL 5, SHEET C2.06 EXIST ASPH PVMT

> TYPICAL FOV (POWER VAULT) SCALE: 1" = 5'

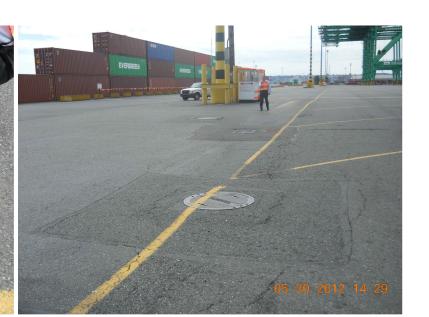
# TYPICAL CB (TYPE 1L CB) & CPV (POWER VAULT)



SCALE: 1" = 5'

CPV

**TYPICAL CB** 



**TYPICAL FOV** 

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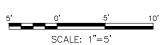
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TACOM	TACOMA, WA 98401-1837

## NOTES:

- EXISTING STRUCTURES ARE SHOWN AT ESTIMATED LOCATIONS, SIZE AND CONFIGURATION. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS.
- 2. NOT EVERY STD CONSTRUCTION NOTE IS USED ON EVERY SHEET.
- 3. PROTECT WORK AREAS PER DETAIL 7, SHEET C2.06.



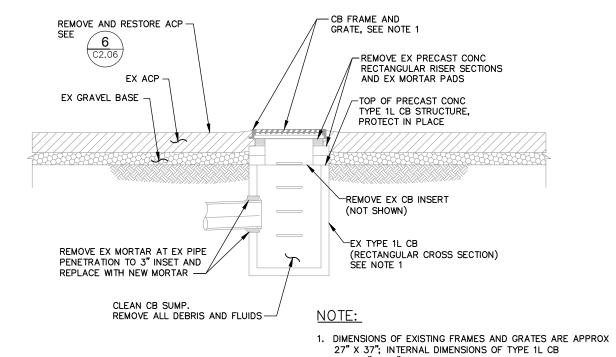
PLAN

SCALE: 1"=2'

LIMIT OF CB (BELOW) (TYP)

REINF CONC SLAB WITH TOP AND BOTTOM LAYERS

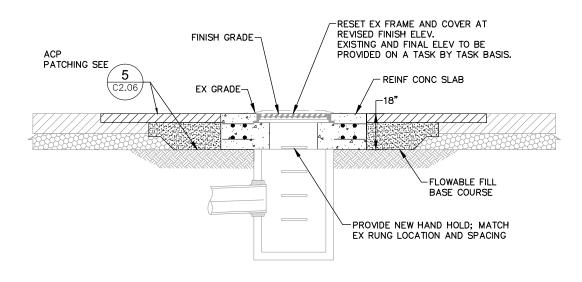
OF #6 @ 6" SPACING EW PLUS #6 OBLIQUE BARS.



### **SECTION - EXISTING CONDITION AND PREPARATION**

SCALE: 1"=2'

ARE 28" X 32".

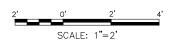


**SECTION - FINISH CONDITION** 

SCALE: 1"=2'



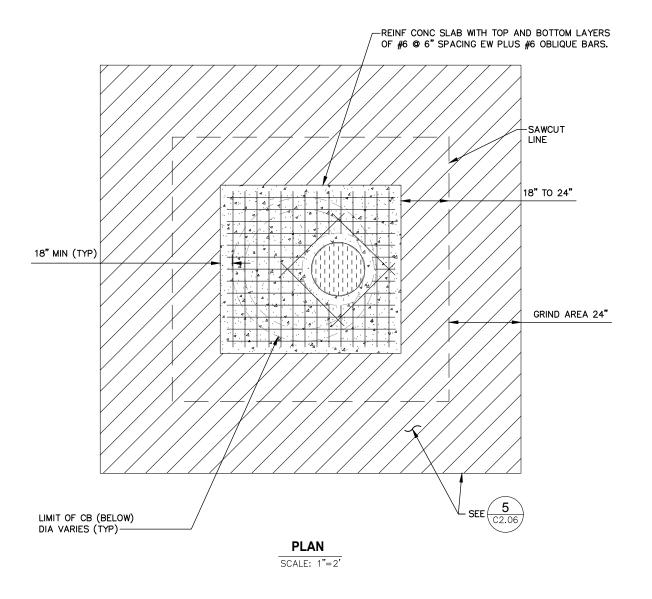
**TYPICAL REHABILITATION OF TYPE 1L CB** 

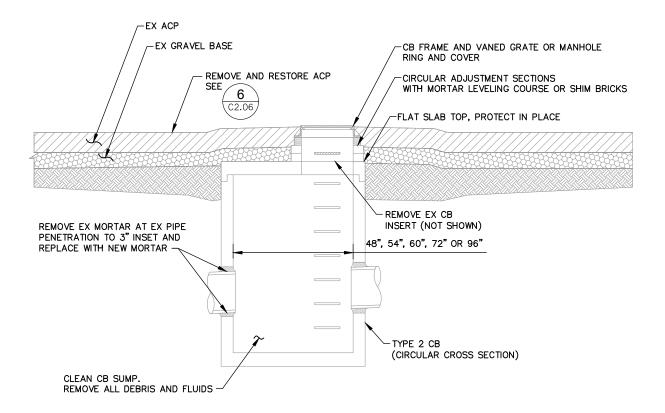


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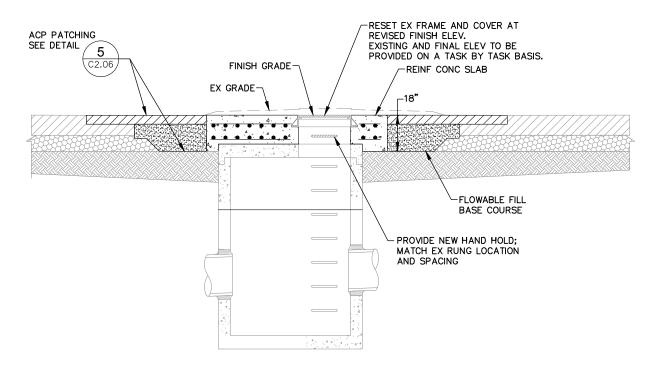
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### **SECTION - EXISTING CONDITION**

SCALE: 1"=2'



### **SECTION - FINISH CONDITION**

SCALE: 1"=2'





SCALE: 1"=2"

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**TYPICAL REHABILITATION OF TYPE 2 CB** 





LIMIT OF VAULT (BELOW), TYP

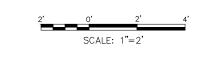
**PLAN** 

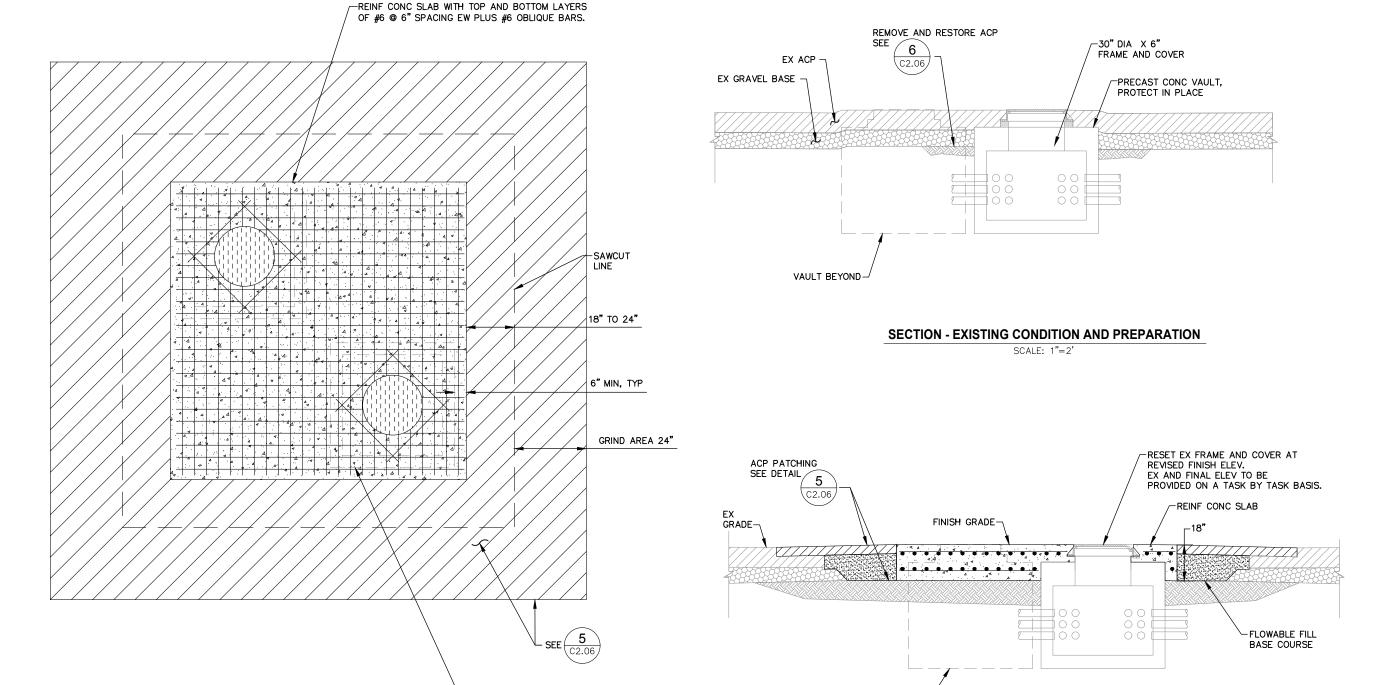
SCALE: 1"=2"



VAULT BEYOND -

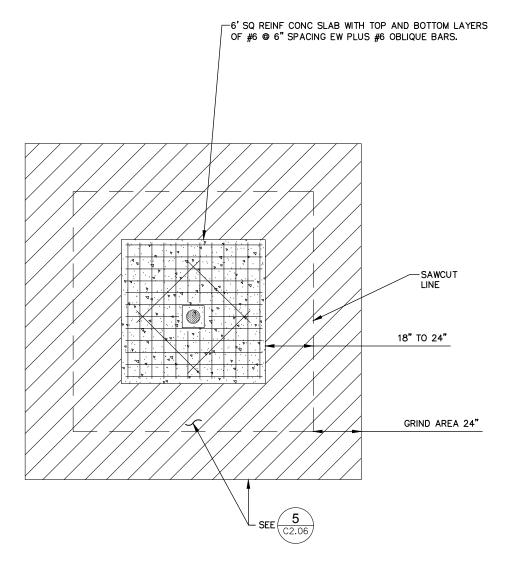
**SECTION - FINISH CONDITION** SCALE: 1"=2'



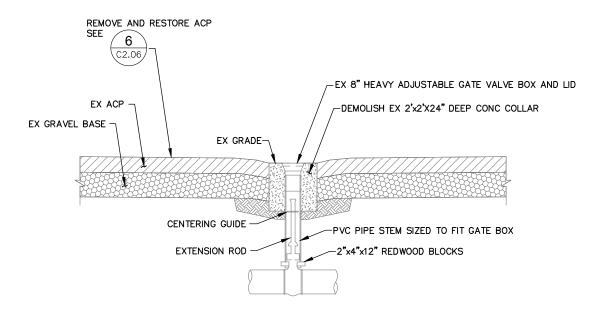


PIERCE COUNTY TERMINAL
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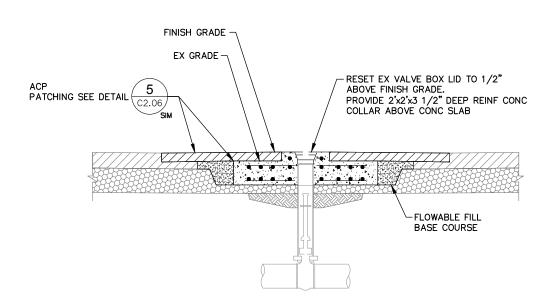


**PLAN** SCALE: 1"=2'



### **SECTION - EXISTING CONDITION AND PREPARATION**

SCALE: 1"=2"



### **SECTION - FINISH CONDITION**

SCALE: 1"=2"

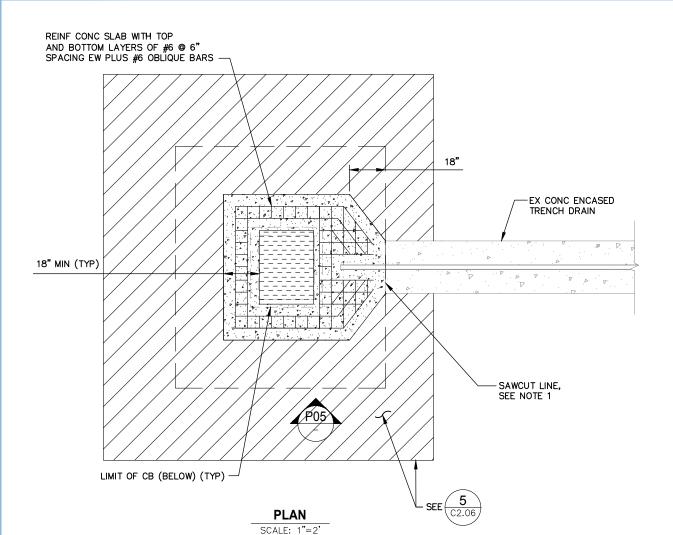




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PIERCE COUNTY TERMINAL
OPERATIONAL PAVEMENT REPAIRS
SITE DETAILS 04





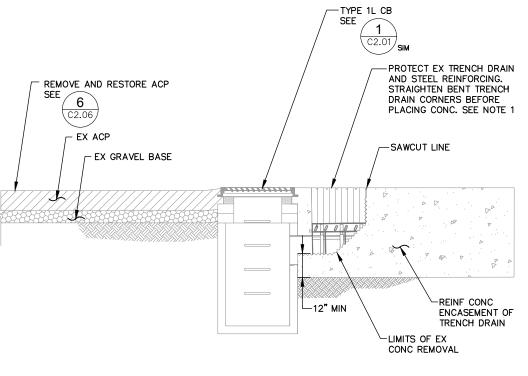




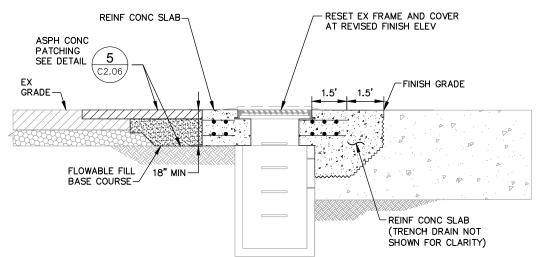
**PHOTO - EXAMPLE EXISTING CONDITION** 

**PHOTO - EXAMPLE FINISH CONDITION** 

(P05) TYPICAL TYPE 1L CB WITH TRENCH DRAIN NO SCLAE



### **SECTION - EXISTING CONDITION AND PREPARATION**



### SEC

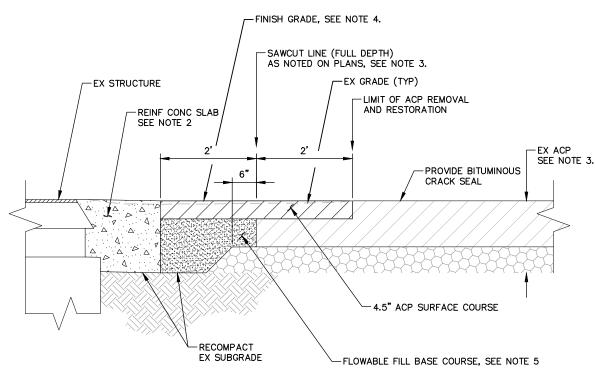
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SCALE: 1"=2'	T. MCCOLLO		B. HALEY 06 PROJ. ENGR	adi Jun 07, 2		IA, WA 98401-
RESET EX FRAME AND COVER AT REVISED FINISH ELEV	APPROVED:		J. VANDENBERG DIRECTOR ENG. DATE	PRINTED BY: aszarvadi	PORT ADDRESS:ONE S	CEL:   DRAWING SCALE: AS NOTED   TACOMA, WA 98401-
1.5' 1.5' FINISH GRADE		S				AS NOTED
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REINF CONC SLAB (TRENCH DRAIN NOT SHOWN FOR CLARITY)	E COUNT	NAL PAVI	SITE DETAILS 05	RANGE: 3E	2007 VERT: ML	<u>P</u>
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2' 0' 2' 4' SCALE: 1"=2'				TOWN	DAT-	PARCEL:
SAWCUT TOP 3 INCHES OF EXISTING REINFORCED CONCRETE TRENCH STRUCTURE AT THE LOCATION INDICATED. DO NOT DAMAGE EXISTING TRENCH DRAIN EMBEDDED METAL RISER OR PIPE SECTIONS. JACK HAMMER TO REMOVE LOOSE CONCRETE AND PROVIDE A SOLID BASE SURFACE. MAINTAIN REINFORCING STEEL FOR USE IN NEW REINFORCED CONCRETE SLAB. APPLY BONDING AGENT TO EXISTING CONCRETE SURFACES. PROVIDE ADDITIONAL REINFORCEMENT AS DIRECTED BY THE ENGINEER.	6586	C 0 0 5	SHEET 14 OF 16	CONT/CONS: 070857		PHASE: BID SET

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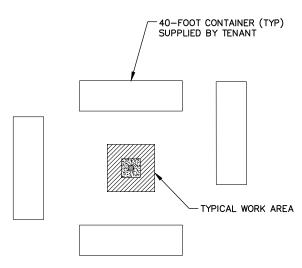
TYPICAL REHABILITATION OF TYPE 1L CATCH BASIN WITH TRENCH DRAIN



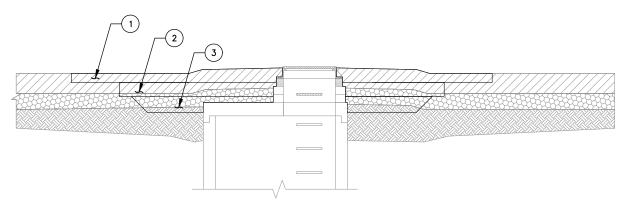
### NOTES:

- 1. REINF CONC SLAB SHALL EXTEND MINIMUM 18" HORIZONTALLY BEYOND EXTERIOR LIMIT OF EXIST STRUCTURE BELOW OR AS SHOWN OR INDICATED ON THE PLANS.
- 2. MATCH ELEVATION OF ADJUSTED STRUCTURE GRATE OR RIM. FIELD VERIFY FRAME AND GRATE (OR COVER) DIMENSIONS. THIS CONCRETE SLAB SHALL BE CAST MONOLITHIC WITH CAST—IN—PLACE STRUCTURE RISERS (NOT SHOWN) WHERE APPLICABLE.
- 3. EXISTING PAVEMENT SECTION VARIES THROUGHOUT THE YARD. TYPICAL SECTION MAY INCLUDE ±8" TO 10" OF SUPERPAVE ACP ON ±2" OF CLASS B ACP OVER A CRUSHED ROCK BASE OR PITRUN SUB-GRADE.
- 4. FINISH ELEVATIONS SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACCOMMODATE ADJACENT PAVEMENT ELEVATIONS AND TO ENSURE POSITIVE DRAINAGE.
- 5. FLOWABLE FILL MAY BE ELIMINATED AT THE CONTRACTOR'S OPTION AS APPROVED BY THE ENGINEER.



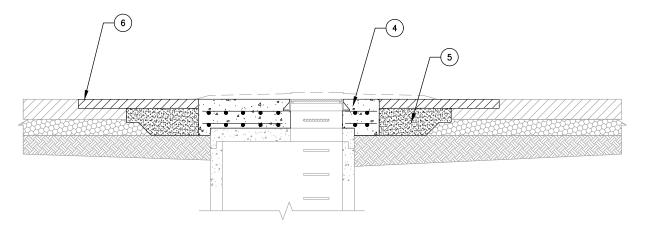


7 TYPICAL WORK AREA PROTECTION
WARIES SCALE: NTS



### **SECTION - EXISTING CONDITION & PREPARATION**

SCALE: 1"=2'

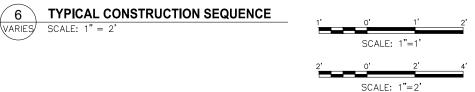


### SECTION - PROPOSED CONDITION

SCALE: 1"=2'

### NOTES:

- 1) COLD MILL ACP SURFACE COURSE TO DEPTH OF 4-1/2 INCHES.
- 2 SAWCUT AND REMOVE ACP.
- 3 REMOVE PAVEMENT BASE AND EXCAVATE TO BOTTOM OF WORK AREA. COMPACT SUBGRADE TO UNYIELDING STATE.
- (4) CONSTRUCT REINFORCED CONC SLAB.
- (5) PROVIDE FLOWABLE FILL BASE COURSE. FLOWABLE FILL MAY BE ELIMINATED AT THE CONTRACTOR'S OPTION AS APPROVED BY THE ENGINEER.
- (6) RESTORE ACP SURFACE COURSE IN TWO LIFTS.



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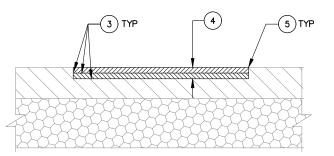
OPERATIONAL PAVEMENT REPASITE DETAILS 06

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### SECTION - EXISTING CONDITION AND PREPARATION

SCALE: NTS



# SECTION - FINISH CONDITION SCALE: NTS

PAVEMENT REPAIRS

SCALE: NTS

### **KEY NOTES:**

- 1 EXISTING DAMAGED ACP (LIMITS AND SEVERITY VARY).
- MILL EXISTING ACP TO THE NECESSARY LIMITS AND DEPTH TO ACCOMMODATE A 4.5 INCHES INLAY.
- REFER TO THE SPECIFICATIONS FOR TACK COAT REQUIREMENTS.
- PROVIDE 4.5 INCHES ACP INLAY VIA A 21 INCHES BASE LIFT FOLLOWED BY A 2 INCHES SURFACE LIFT.
- (5) PROVIDE JOINT SEALANT.

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PIERCE	COUNTY	PIERCE COUNTY TERMINAL		APPROVED:	T. MCCOLLOUGH	
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DESIGN LOADS 2.1 EARTHQUAKE LOADS PER UBC 1997

ZONE 3,.....Z=0.30;.....SOIL PROFILE TYPE SF BASE SHEAR (Fp):  $Fp = \frac{ap \times Ca \times Ip \times 4}{Pc}$ 

ap = COEFFICIENT TABLE 16-0 In = IMPORTANCE FACTOR TABLE 16-K. Rp = RESPONSE MODIFICATION COEFFICIENT TABLE 16-0....=1.0 Ca = SEISMIC COEFFICIENT TABLE 16-Q ... ...=3.0 W = TOTAL DEAD LOAD....

2.2 WIND LOADS: 80 MPH EXPOSURE D, PER UBC 1997

 $p = C_B C_Q Q_S I_W PSF$   $C_B = SEE TABLE BELOW$   $C_Q = 1.4$ DESIGN WIND PRESSURE (p) EXPOSURE & GUST FACTOR PRESSURE COEFFICIENT STAGNATION PRESSURE COEFFICIENT 9 = IMPORTANCE FACTOR

HEIGHT	Ce	psf
0-20	1.45	33
20-40	1.62	37
40-60	1.73	40
60-80	1.81	42
80-100	1.88	43
100-120	1.93	44

- DESIGN WHEEL LOADS
- TYPE 1 LOADING DESIGN FOR THE MOST SEVERE OF THE FOLLOWING CRITERIA
- 1. TAYLOR 950 TOP LOADER 219 KIP AXLE LOAD; PLUS 30% IMPACT FOUR TIRES PER AXLE 120 PSI CONTACT PRESSURE 23" DUAL WHEEL SPACING
- 2. KALMAR CSC350 STRADDLE CARRIER 30.9 KIP WHEEL LOAD, PLUS 30% IMPACT 145 PSI CONTACT PRESSURE 83" WHEEL SPACING
- B. TYPE 2 LOADING

ALL STRUCTURES SHALL BE DESIGNED FOR TYPE 1 LOADING UNLESS

- GEOTECHNICAL DESIGN CRITERIA FOUNDATION DESIGN RECOMMENDATIONS ARE IN ACCORDANCE WITH GEOENGINEERS GEOTECHNICAL INC. LETTER REPORT, DATED MARCH 28,
- SHOP DRAWINGS FOR STRUCTURAL STEEL, ANCHOR BOLTS, CONCRETE AND REINFORCING STEEL SHALL BE SUBMITTED TO THE ENGINEER AND PORT OF TACOMA FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS. SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE CONTRACTOR PRIOR TO REVIEW BY THE ENGINEER. REFER TO PROJECT SPECIFICATIONS FOR COORDINATION OF SHOP DRAWINGS SUBMITTALS.
- CONCRETE 6. ALL CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH SECTION 1905 OF THE UBC AND THE AMERICAN CONCRETE INSTITUTE'S SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301)

CONCRETE STRENGTHS AT 28 DAYS (f'c) AND MIX CRITERIA SHALL BE

TYPE OF CONSTRUCTION	f'c	MINIMUM CEMENT CONTENT PER CUBIC YARD	MAXIMUM WATE
CONCRETE FOOTINGS AND DRILLED SHAFT FOUNDATIONS	4,000 PSI	6 1/2 SACK	0.42

THE MINIMUM AMOUNT OF CEMENT LISTED ABOVE MAY BE CHANGED IF A CONCRETE PERFORMANCE MIX IS SUBMITTED TO THE ENGINEER AND THE PORT OF TACOMA FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE. THE PERFORMANCE MIX SHALL INCLUDE THE AMOUNT OF CEMENT, FINE AND COURSE AGGREGATE, WATER ADMIXTURES, AS WELL AS THE WATER CEMENT RATIO, SLUMP, CONCRETE YIELD AND SUBSTANTIATING STRENGTH DATA IN ACCORDANCE WITH UBC SECTION 1905. FOR OTHER REQUIREMENTS COMPLY WITH SPEC. SECTION 03300 CAST-IN-PLACE CONCRETE.

ALL CONCRETE SHALL BE STONE-AGGREGATE CONCRETE HAVING A UNIT WEIGHT OF APPROXIMATELY 150 PCF.

ALL CONCRETE EXPOSED TO SEVERE WEATHER OR TO SEVERE FREEZING TEMPERATURES SHALL BE AIR—ENTRAINED WITH AN AIR—ENTRAINING AGENT CONFORMING TO UBC STANDARD 19—4. TOTAL AIR CONTENT SHALL BE IN ACCORDANCE WITH UBC TABLE 19-A-I.

NON-SHRINK GROUT
GROUT SHALL BE NON SHRINK NON METALLIC CEMENTITIOUS GROUT CONTAINING NATURAL AGGREGATES DELIVERED TO JOB SITE IN FACTORY PREPACKAGED CONTAINER REQUIRING ONLY THE ADDITION OF WATER. MINIMUM 28 DAY COMPRESSIVE STRENGTH TO BE 5000 PSI WHEN TESTED IN ACCORDANCE WITH ASTM C-109, APPROVED GROUTS ARE MASTER BUILDERS "MASTER FLOW 713", BURKE COMPANY'S " NON FERROUS NON SHRINK GROUT", OR APPROVED EQUAL, GROUT SHALL BE MIXED, APPLIED AND CURED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.

REINFORCING STEEL SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM A-615, AND SHALL BE GRADE 60 (fy = 60,000 PSI).

REINFORCING STEEL SHALL BE DETAILED INCLUDING HOOKS AND BENDS IN ACCORDANCE WITH ACI 315-92 AND 318-99. UNLESS OTHERWISE NOTED, REINFORCING SPLICE LENGTHS AND DEVELOPMENT LENGTHS SHALL BE PER SCHEDULE BELOW (SEE NOTE #9).

CONCRETE COVER ON REINFORCING UNLESS OTHERWISE NOTED, THE FOLLOWING CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

STRUCTURAL ELEMENT	COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH, (UNLESS NOTED OTHERWISE)	3"
CONCRETE EXPOSED TO EARTH OR WEATHER: #6 THROUGH #18 BARS #5 BAR OR SMALLER	2" 1 1/2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS: #14 AND #18 BARS #11 BARS AND SMALLER	1 1/2" 3/4"
BEAMS, COLUMNS:	1 1/2"

10. MINIMUM LAPS AND EMBEDMENT FOR REINFORCING IN CONCRETE

UNLESS OTHERWISE NOTED, REINFORCING SPLICE LENGTHS AND <DEVELOPMENT LENGTHS> SHALL BE AS TABULATED BELOW:

BAR SIZE (GRADE 60)	TOP BARS		OTHER BARS	
#4	_ 33	<25>	25	<19>
#5	42	<32>	32	<24>
#6	50	<38>	38	<29>
<b>#</b> 7	72	<55>	55	<42>
#8	82	<63>	63	<48>
#9	93	<71>	71	<54>

SCHEDULE NOTES: ALL LENGTHS ARE IN INCHES

DEVELOPMENT LENGTHS ARE SHOWN IN BRACKETS: <XX>. "TOP BARS" ARE HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12 INCHES OF CONCRETE IS CAST IN THE MEMBER BELOW THE

CONCRETE GENERAL NOTES
ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED AND
PROPERLY PREPARED IMMEDIATELY PRIOR TO POURING OF CONCRETE.
DOWEL STEEL SHALL BE THE SAME SIZE AND SPACING AS MAIN REINFORCING DETAILED BEYOND JOINT.

NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SO DETAILED.

ALL EXPOSED CONCRETE CORNERS SHALL HAVE A 1 INCH CHAMFER UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION SHALL BE IN 12. ACCORDANCE WITH THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", ALLOWABLE STRESS DESIGN 9TH EDITION.

STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B, Fy=46

WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A572, Fy = 50 KSI, UNLESS NOTED OTHERWISE ON PLANS. ALL OTHER PLATES, SHAPES, ANGLES AND RODS SHALL CONFORM TO ASTM A 36, Fy = 36 KSI.

STRUCTURAL STEEL FRAMING SHALL BE FABRICATED WITH NATURAL CAMBER UP. U.N.O.

ANCHOR BOLTS SHALL CONFORM TO ASTM A 307.

BOLTS CONNECTING STEEL MEMBERS SHALL CONFORM TO ASTM A 325-SC AND SHALL BE SELF-LOAD INDICATING, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. BOLTS SHALL BE 7/8" MINIMUM. U.N.O..

WELDING ALL WELDING SHALL CONFORM TO THE PROVISIONS OF THE AMERICAN WELDING SOCIETY CODE AWS D1.1-94, "WELDING IN BUILDING CONSTRUCTION". ELECTRODES SHALL MATCH BASE METALS AS SPECIFIED IN AISC TABLE J2.5 AND AWS TABLE 4.1.1. ALL WELDS SHALL BE 3/16" MINIMUM UNLESS NOTED OTHERWISE. ALL WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED IN ACCORDANCE WITH

GENERAL
LIGHT POLE FOUNDATION DRAWINGS SHALL BE USED IN CONJUNCTION
WITH ELECTRICAL AND CIVIL DRAWINGS FOR BIDDING AND
STATE OF THE PROPERTY ALL DIMENSIONS AND CONDITIONS FOR COMPATIBILITY BEFORE PROCEEDING. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING.

CONTRACTOR SHALL REFER TO CIVIL AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS AND DETAILS NOT SHOWN ON LIGHT POLE FOUNDATION DRAWINGS.

CONTRACTOR SHALL COORDINATE WITH POLE MANUFACTURER FOR ALL REQUIREMENTS OF BASE PLATE AND ANCHOR BOLTS FOR EACH POLE.

DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF A SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER.

CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTION STABILITY AND TEMPORARY SHORING AS NECESSARY UNTIL PERMANENT SUPPORT AND STIFFFNING ARE INSTALLED.

CONTRACTOR SHALL SUBMIT PROPOSED SHORING OR CASING SCHEMES FOR ENGINEERS APPROVAL.

CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION OF ANY PORTION OF THIS PROJECT, IF THE EXISTING CONDITIONS OF SAID PROJECT PORTION SHOWN ON THESE DRAWINGS DIFFER FROM THE ACTUAL CONDITIONS OF THE PROJECT.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE PORT OF TACOMA OR ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY.

CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING FINISHED SURFACES OR STRUCTURES WHICH WILL REMAIN AND RECEIVE NO NEW CONSTRUCTION.

ALL EXPOSED CONCRETE, EXCEPT POLE SURFACES, SHALL BE PAINTED

SPECIAL INSPECTION
THE PORT OF TACOMA SHALL EMPLOY A QUALIFIED SPECIAL INSPECTOR
FOR INSPECTION OF THE FOLLOWING TYPES OF WORK:

CONCRETE AND REINFORCING STEEL PLACEMENT

ANCHOR BOLTS

EXCAVATION WORK OF DRILLED SHAFT INCLUDING SHORING IN CONFORMANCE WITH APPROVED SHORING DRAWINGS.

ALL INSPECTION SHALL CONFORM TO THE REQUIREMENTS OF SECTION 1701 OF THE UBC.

<u>DRILLED SHAFT FOUNDATION</u>
ANCHOR BOLT SIZE, LOCATIONS, AND BASE PLATE SHALL BE DESIGNED AND SUPPLIED BY THE POLE MANUFACTURER.

CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTION STABILITY AND TEMPORARY SHORING AS NECESSARY FOR DRILLED PIERS.

REINFORCING CAGE SHALL BE FURNISHED AND PLACED BY THE

ANCHOR BOLT CAGE SHALL BE FURNISHED AND PLACED BY THE

CAGE RING TEMPLATE FOR ANCHOR BOLTS SHALL BE DESIGNED AND SUPPLIED BY THE POLE MANUFACTURER.

ALL SHEAR REINFORCEMENT SHALL BE ADEQUATELY SECURED TO VERTICAL REINFORCEMENT CAGE BEFORE CONCRETE IS PLACED.

CONTRACTOR SHALL PLACE CONCRETE BY TREMIE CONCRETE METHOD IF REQUIRED.

MOFFATT & NICHOL

SB 11/05/04

PROJECT 08/22/03 ?.- DATE

> PIERCE ( ITAINER YAI GENERAL COUNTY TERMINAL ARD AND INTERMODAL YARD L STRUCTURAL NOTES

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applying it for any purpose. Moffatt & Nichol

RECORD DRAWING

DATE 01/24/05

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