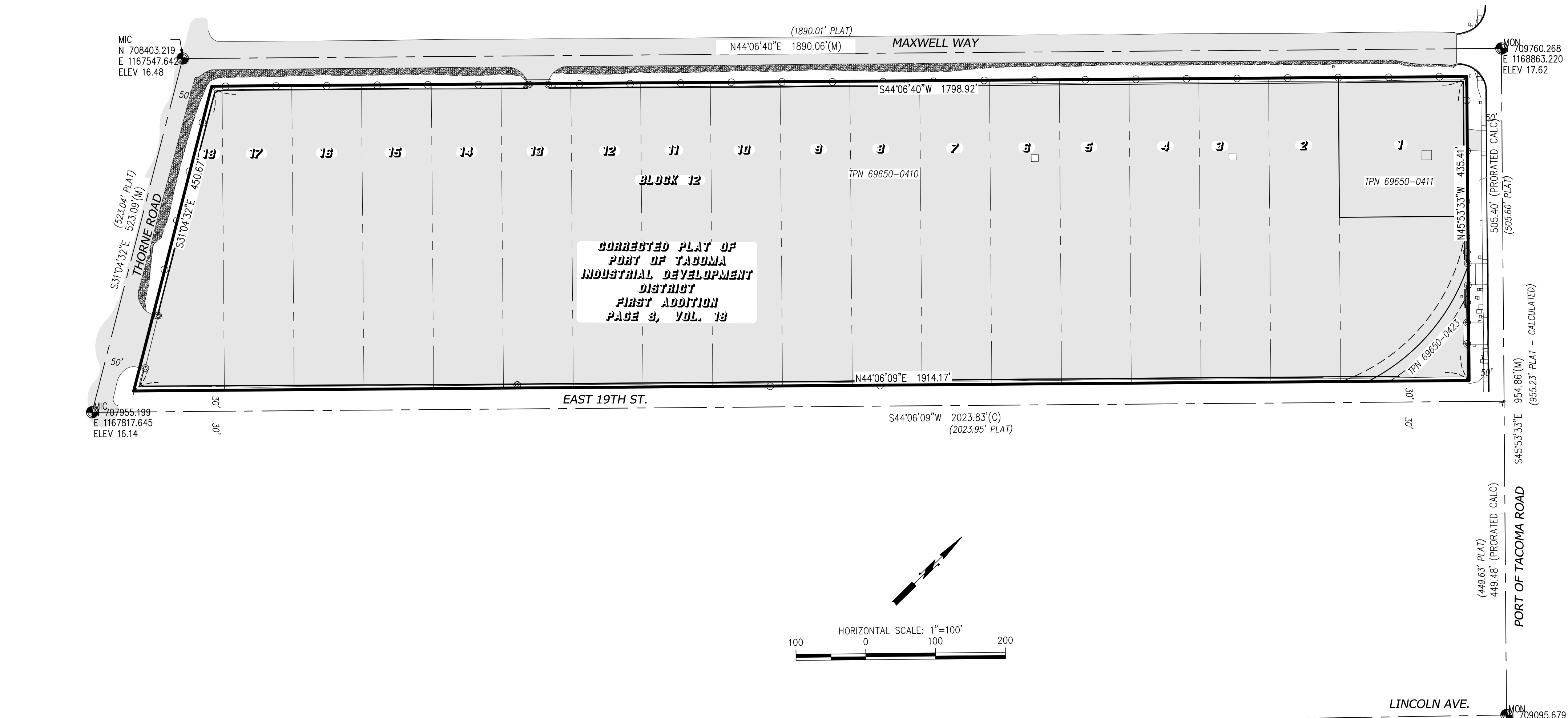




HORIZONTAL DATUM

WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83/2011
(PER PORT OF TACOMA SURVEY CONTROL MAP – 2016)

MEASURED NORTH 44°06'40" EAST BETWEEN MONUMENTS #104 AND "L" LOCATED ON MAXWELL WAY AT THE INTERSECTIONS OF PORT OF TACOMA ROAD AND THORNE ROAD

VERTICAL DATUM

MLLW (PER PORT OF TACOMA 2016 SURVEY CONTROL MAP)

TIDE 22 1933 BENCHMARK: LOCATED AT NE CORNER OF 11TH ST. BRIDGE AT THE INTERSECTION OF E. 11TH ST. AND MILWAUKEE WAY
ELEVATION = 19.18
(BASED ON 1983–2001 TIDAL EPOCH)

SITE DATA

TAX PARCEL NOS. 6965000410, 6965000411, 6965000423
AREA: 18.6± ACRES

NOTES

- EQUIPMENT USED: TOPCON QS ROBOTIC TOTAL STATION
- THIS SURVEY WAS PERFORMED BY FIELD TRAVERSE WITH THE FINAL RESULTS MEETING OR EXCEEDING THE CURRENT TRAVERSE STANDARDS CONTAINED IN W.A.C. 332–130–090. ALL MEASUREMENTS WERE MADE WITH A TOPCON QS ROBOTIC TOTAL STATION IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
- IN ACCORDANCE WITH THE REVISED CODE OF WASHINGTON (R.C.W.) 58.09 AND THE WASHINGTON ADMINISTRATIVE CODE (W.A.C.) 332–130, THIS SURVEY MAY DEPICT OCCUPATIONAL INDICATORS THAT DIFFER FROM THE DEEDED LOT LINES. THESE INDICATORS, IF AT ALL PRESENT, MAY REPRESENT A POTENTIAL FOR CLAIMS OF UNWRITTEN TITLE. THIS SURVEY DOES NOT PURPORT TO RESOLVE SUCH ITEMS.
- FIELD WORK PERFORMED IN MARCH THROUGH MARCH AND SEPTEMBER 2017, UNDER SITTS & HILL PROJECT NUMBER 17537.
- UTILITIES AS SHOWN HEREON ARE BASED ON FIELD SURVEY OBSERVATION OF UTILITY LOCATE SERVICES PERFORMED BY MOUNTAIN VIEW LOCATING SERVICES LLC. IN SEPTEMBER 2017 FOR THIS SURVEY. THIS HAS BEEN SUPPLEMENTED BY PUBLIC RECORDS. RECORD UTILITY LINES SHOWN HEREON ARE DEPICTED WITH THE STANDARD LINETYPE WITH A "– R" AS SHOWN IN THE LEGEND. UTILITIES OTHER THAN SHOWN MAY EXIST ON THE SITE. THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR DOES CERTIFY THAT THEY ARE SHOWN AS ACCURATELY AS POSSIBLE FROM FIELD SURVEY AND PAINTED UTILITY LOCATE LINES. COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA IS CONSISTENT WITH QUALITY LEVEL (B) OF THE ASCE STANDARD GUIDELINES 38–02.
- SITTS & HILL ENGINEERS, INC. HAS RELIED UPON TITLE INFORMATION NOTED IN COMMITMENT FOR TITLE INSURANCE PREPARED BY FIRST AMERICAN TITLE INSURANCE COMPANY OF WASHINGTON, COMMITMENT NUMBER 2940659, DATED SEPTEMBER 12TH 2017. IN PREPARATION OF THIS SURVEY, SITTS AND HILL ENGINEERS, INC. HAS CONDUCTED NO INDEPENDENT TITLE SEARCH NOR IS SITTS AND HILL ENGINEERS, INC. AWARE OF ANY TITLE ISSUES AFFECTING THE SURVEYED PROPERTY OTHER THAN THOSE SHOWN ON THE MAP AND/OR DISCLOSED BY SAID TITLE COMPANY'S ORDER. SITTS & HILL ENGINEERS, INC. HAS RELIED WHOLLY ON SAID TITLE COMPANY'S REPORT AND THEREFORE QUALIFIES THE MAP'S ACCURACY AND COMPLETENESS TO THAT EXTENT.
- THIS SURVEY COMPLIES WITH W.A.C. 332–130–145. THE CONTOURS DEPICTED HEREON ARE BASED ON DATA FROM DIRECT FIELD MEASUREMENTS. SPOT ELEVATIONS ARE BASED ON DIRECT FIELD MEASUREMENTS AND ARE DEPICTED FOR REFERENCE. THE PURPOSE OF THIS TOPOGRAPHIC MAP IS TO SERVE AS A BASE MAP FOR CONTEMPLATED SITE IMPROVEMENTS AND DESIGN.

SCHEDULE B EXCEPTIONS

PER FIRST AMERICAN TITLE INSURANCE COMPANY OF WASHINGTON, COMMITMENT NUMBER 2940659, DATED SEPTEMBER 12TH 2017

EXCEPTION NUMBER	AFN	DESCRIPTION
1.	**8012010130	FACILITY CHARGES, IF ANY, INCLUDING BUT NOT LIMITED TO HOOK-UP, OR CONNECTION CHARGES AND LATECOMER CHARGES FOR SEWER, WATER AND PUBLIC FACILITIES OF THE CITY OF TACOMA AS DISCLOSED BY INSTRUMENT RECORDED UNDER RECORDING NO. 2884651 AND AS AMENDED BY INSTRUMENTS RECORDED UNDER RECORDING NUMBERS 2881434 AND 8012010130.
2.	**---	PROVISIONS AND CONDITIONS OF TITLE 53 RCW RELATING TO THE USE OF LANDS WITHIN PORT DISTRICTS, CHAPTER 73, SESSION LAWS 1955, AS AMENDED, OR IF APPLICABLE, CHAPTER 45, SESSION LAWS 1939, AS AMENDED.
3.	2526942	COVENANT FOR CONSTRUCTION OF SANITARY SEWERS IN THE PORT INDUSTRIAL AREA, CITY OF TACOMA; MULTIPLE LOCATIONS INCLUDED IN DOCUMENT; LIES WITHIN THE RIGHTS OF WAY OF THORNE ROAD AND PORT OF TACOMA ROAD.
4.	2781220	DEED FOR PIPELINE GRANTED TO US OIL; 60' WIDE STRIP OF LAND OVER BLOCK 13 OF PORT OF TACOMA INDUSTRIAL DEVELOPMENT DISTRICT FIRST ADDITION; LOCATED WITHIN THE SOUTH RIGHT OF WAY OF THE UNNAMED ROAD ON SAID PLAT BETWEEN BLOCKS 12 AND 14; EXTENTS OF DEEDED AREA LIES SOUTHEAST OF THE SUBJECT SITE.
5.	*9408020435	DECLARATION OF RESTRICTIVE COVENANT FOR REMEDIAL ACTION OF INDUSTRIAL SOIL CLEAN UP; AFFECTS THE ENTIRE SITE AND NOTES A CAP SYSTEM WITH MONITORING
*		BLANKET IN NATURE OF AFFECTS ENTIRE PROPERTY
**		INDICATES TITLE EXCEPTION WHICH CANNOT BE SHOWN HEREON DUE TO INSUFFICIENT LEGAL DESCRIPTION OR LACK OF OBSERVABLE PHYSICAL EVIDENCE.

REFERENCES

- PORT OF TACOMA SURVEY CONTROL MAP; DATED 2016
- CITY OF TACOMA HISTORIC QUARTER SECTION MAP
- PIERCE COUNTY QUARTER SECTION MAP
- CORRECTED PLAT OF PORT OF TACOMA INDUSTRIAL DEVELOPMENT DISTRICT FIRST ADDITION; VOL. 18, PG. 8 BOOK OF RECORDS

LEGAL DESCRIPTIONS

PER FIRST AMERICAN TITLE INSURANCE COMPANY COMMITMENT 2940659; DATED 09/12/2017

PARCEL A (696500–0410):

LOT 1, BLOCK 12, CORRECTED PLAT OF PORT OF TACOMA INDUSTRIAL DEVELOPMENT DISTRICT FIRST ADDITION, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 18 OF PLATS, PAGES 8 AND 8A, RECORDS OF THE PIERCE COUNTY AUDITOR;

TOGETHER WITH THAT PORTION OF THE VACATED RIGHT OF WAY ABUTTING THEREON AND ATTACHED THERETO BY OPERATION OF LAW, AS VACATED BY CITY OF TACOMA ORDINANCE NO. 21116 AND RECORDED UNDER RECORDING NUMBER 2772670;

EXCEPT THAT PORTION LYING WITHIN THE NORTHWESTERLY 200 FEET OF SAID LOT 1;

TOGETHER WITH ALL OF LOTS 2 THROUGH 18, INCLUSIVE, OF SAID BLOCK 12;

SITUATE IN THE CITY OF TACOMA, COUNTY OF PIERCE, STATE OF WASHINGTON.

PARCEL B (696500–0411):

THE NORTHWESTERLY 200 FEET OF LOT 1, BLOCK 12, CORRECTED PLAT OF PORT OF TACOMA INDUSTRIAL DEVELOPMENT DISTRICT FIRST ADDITION, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 18 OF PLATS, PAGES 8 AND 8A, RECORDS OF THE PIERCE COUNTY AUDITOR, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE NORTHERLY CORNER OF SAID LOT 1 AND THE SOUTHWESTERLY RIGHT OF WAY LINE OF PORT OF TACOMA ROAD, BEING THE TRUE POINT OF BEGINNING OF THIS DESCRIPTION;
THENCE SOUTHWESTERLY ALONG THE NORTHWESTERLY LINE OF SAID LOT TO THE WESTERLY CORNER THEREOF;
THENCE SOUTHEASTERLY ALONG THE SOUTHWESTERLY LINE OF SAID LOT A DISTANCE OF 200 FEET;
THENCE ON AN ANGLE TO THE LEFT OF 90° AND PARALLEL TO THE NORTHWESTERLY LINE OF SAID LOT TO INTERSECT THE NORTHEASTERLY SIDE OF SAID LOT;
THENCE ALONG THE NORTHEASTERLY LINE OF SAID LOT TO THE TRUE POINT OF BEGINNING;

SITUATE IN THE CITY OF TACOMA, COUNTY OF PIERCE, STATE OF WASHINGTON.

PARCEL C: (696500–0423)

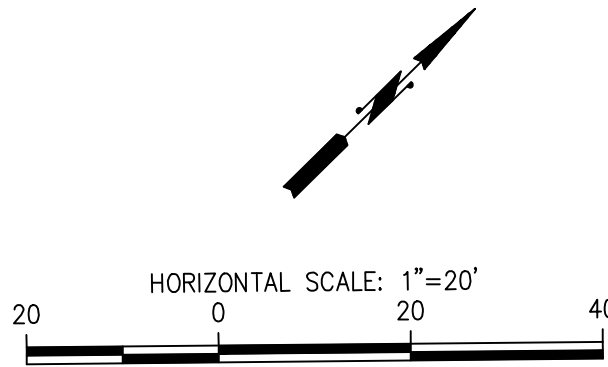
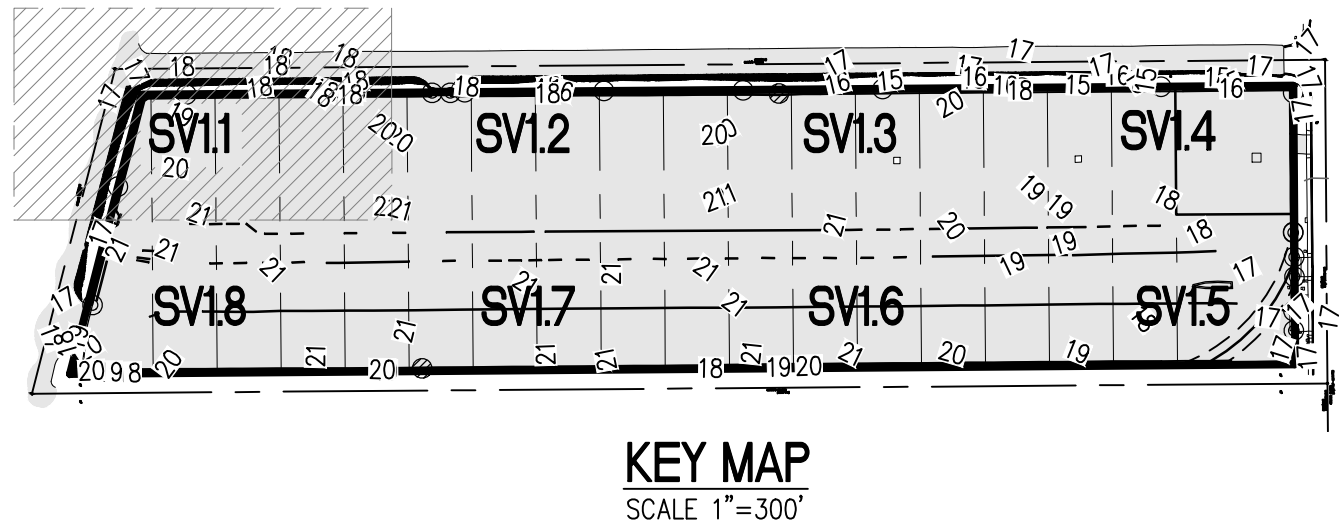
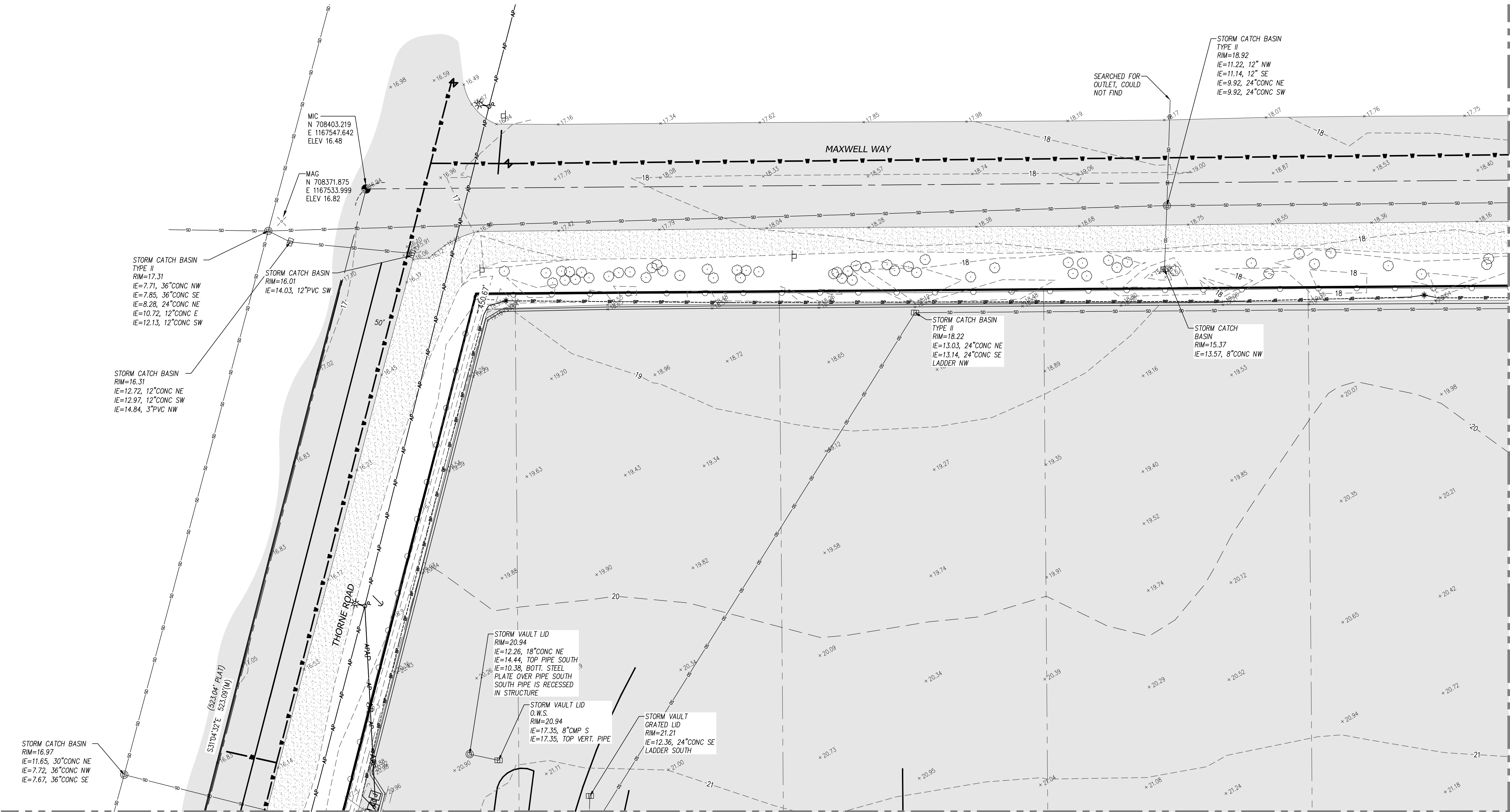
THAT PORTION OF BLOCK 13, CORRECTED PLAT OF PORT OF TACOMA INDUSTRIAL DEVELOPMENT DISTRICT FIRST ADDITION, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 18 OF PLATS, PAGES 8 AND 8A, RECORDS OF THE PIERCE COUNTY AUDITOR, LYING NORTHERLY OF THE PROLONGATION OF THE NORTHWESTERLY BOUNDARY LINE OF LOTS 2 THROUGH 19, BLOCK 14 OF SAID PLAT;

TOGETHER WITH THAT PORTION OF THE VACATED RIGHT OF WAY ABUTTING THEREON AND ATTACHED THERETO BY OPERATION OF LAW, AS VACATED BY CITY OF TACOMA ORDINANCE NO. 21116 AND RECORDED UNDER RECORDING NUMBER 2772670;

EXCEPT THAT PORTION THEREOF CONVEYED TO THE CITY OF TACOMA BY WARRANTY DEED RECORDED NOVEMBER 28, 1977 UNDER RECORDING NUMBER 2781220;

SITUATE IN THE CITY OF TACOMA, COUNTY OF PIERCE, STATE OF WASHINGTON.

 SITTS & HILL ENGINEERS, INC. CIVIL • STRUCTURAL • SURVEYING 4715 CENTER STREET TACOMA, WA 98409 PHONE 253.764.949 FAX 253.764.915 WWW.SITTSANDHILLENGINEERS.COM			
APPROVED:		M.A.M. 00/00/00	
CHECKED BY:		DATE:	
DIRECTOR ENG. DATE:		PROJ. ENGR DATE:	
PRINTED BY: scilling Nov 19, 2019		TACOMA, WA 98401–1837	
PORT ADDRESS: ONE SITCUM PLAZA		TACOMA, WA 98401–1837	
TOWNSHIP: 21 NORTH		RANGE: 3 EAST	
SECTION: 34		TIDE 22 1933	
DAT–HRZ: WAB3/2011–SF		VERT: MLLW 19.18' @ Tide	
PARCEL: N/A		DRAWING SCALE: AS NOTED	
CONTR/CONS: SH 1 OF 9		M. ID:	
PHASE:		MARK:	
REVISION:		BY:	
DATE:		APPR:	



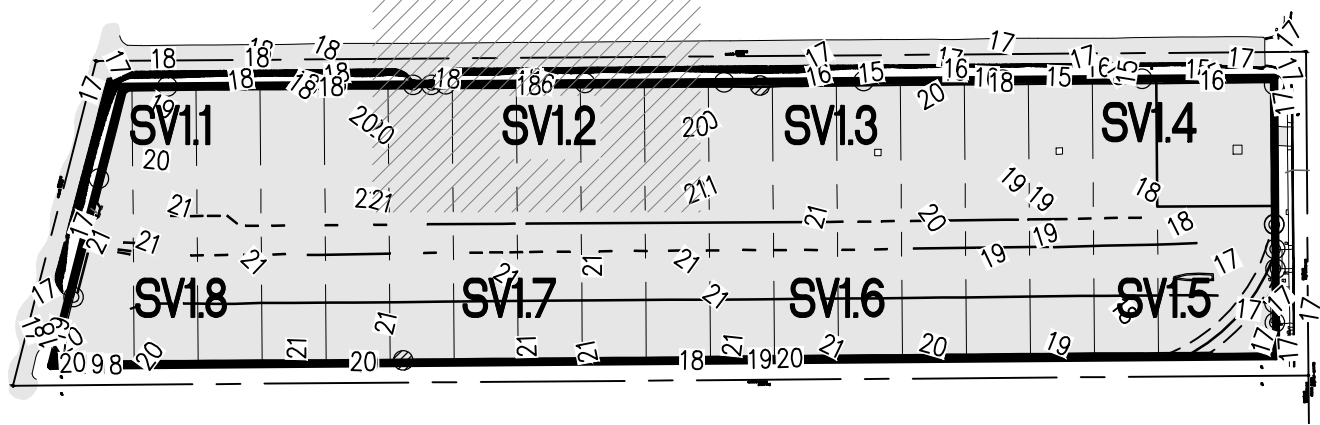
LEGEND

- | | | | |
|--|----------------------------|-----------------------------|--------------------------------------|
| ⊕ FOUND MONUMENT, 2" BRASS DISK W/"X" STAMPED "TPW 38486" UNLESS OTHERWISE NOTED | ⊠ IRRIGATION CONTROL VALVE | ○ UTILITY POLE | — SO — STORM DRAIN LINE |
| ⊕ SET REBAR W/ CONTROL CAP | ⊠ GAS VALVE | ⊠ SIGN | — SD-R — SD-R — RECORD STORM LINE |
| ⊕ SURVEY CONTROL POINT | ⊠ GAS METER | ⊠ MAILBOX | — SS — SS — SANITARY SEWER LINE |
| ⊕ SANITARY SEWER MANHOLE | ⊠ POWER METER | ⊠ MONITORING WELL | — SS-R — SS-R — RECORD SANITARY LINE |
| ⊕ UTILITY CLEAN OUT | ⊠ POWER CABINET | ⊠ TPN TAX PARCEL NUMBER | — W-R — W-R — RECORD WATER LINE |
| ⊕ STORM MANHOLE | ⊠ UTILITY POLE | ⊠ TELECOM VAULT | — NGAS — NGAS — BURIED GAS LINE |
| ⊠ STORM CATCH BASIN | ⊠ GUY ANCHOR | ⊠ TELECOM MANHOLE | — NGAS-R — NGAS-R — RECORD GAS LINE |
| ⊠ STORM CULVERT | ⊠ JUNCTION BOX | ⊠ TELECOM CABINET | — BP — BP — BURIED POWER LINE |
| ⊠ ROOF DRAIN | ⊠ POWER VAULT | ⊠ SCHED. B EXCEPTION NUMBER | — BP-R — BP-R — RECORD BURIED POWER |
| ⊠ WATER MANHOLE | ⊠ POWER TRANSFORMER | ⊠ ASPHALT SURFACE | — BT — BT — BURIED TELECOM LINE |
| ⊠ WATER VALVE | ⊠ POWER MANHOLE | ⊠ CONCRETE SURFACE | — BT-R — BT-R — RECORD TELECOM LINE |
| ⊠ WATER METER | ⊠ LIGHT POLE | ⊠ RIP-RAP SURFACE | — AP — AP — OVERHEAD POWER LINE |
| ⊠ FIRE HYDRANT | ⊠ TRAFFIC LOOP | | — CHAIN LINK FENCE |
| ⊠ WATER VAULT | ⊠ UTILITY VAULT | | — WOOD OR SPLIT RAIL FENCE |
| ⊠ FIRE DEPARTMENT CONNECTION | ⊠ UTILITY MANHOLE | | ⊠ RAILROAD TRACKS |
| ⊠ WATER BLOW OFF | ⊠ COLUMN | | |
| ⊠ POST INDICATOR VALVE | ⊠ BOLLARD | | |

SEE SHEET SV1.0 FOR SURVEY CONTROL, NOTES AND BOUNDARY INFORMATION

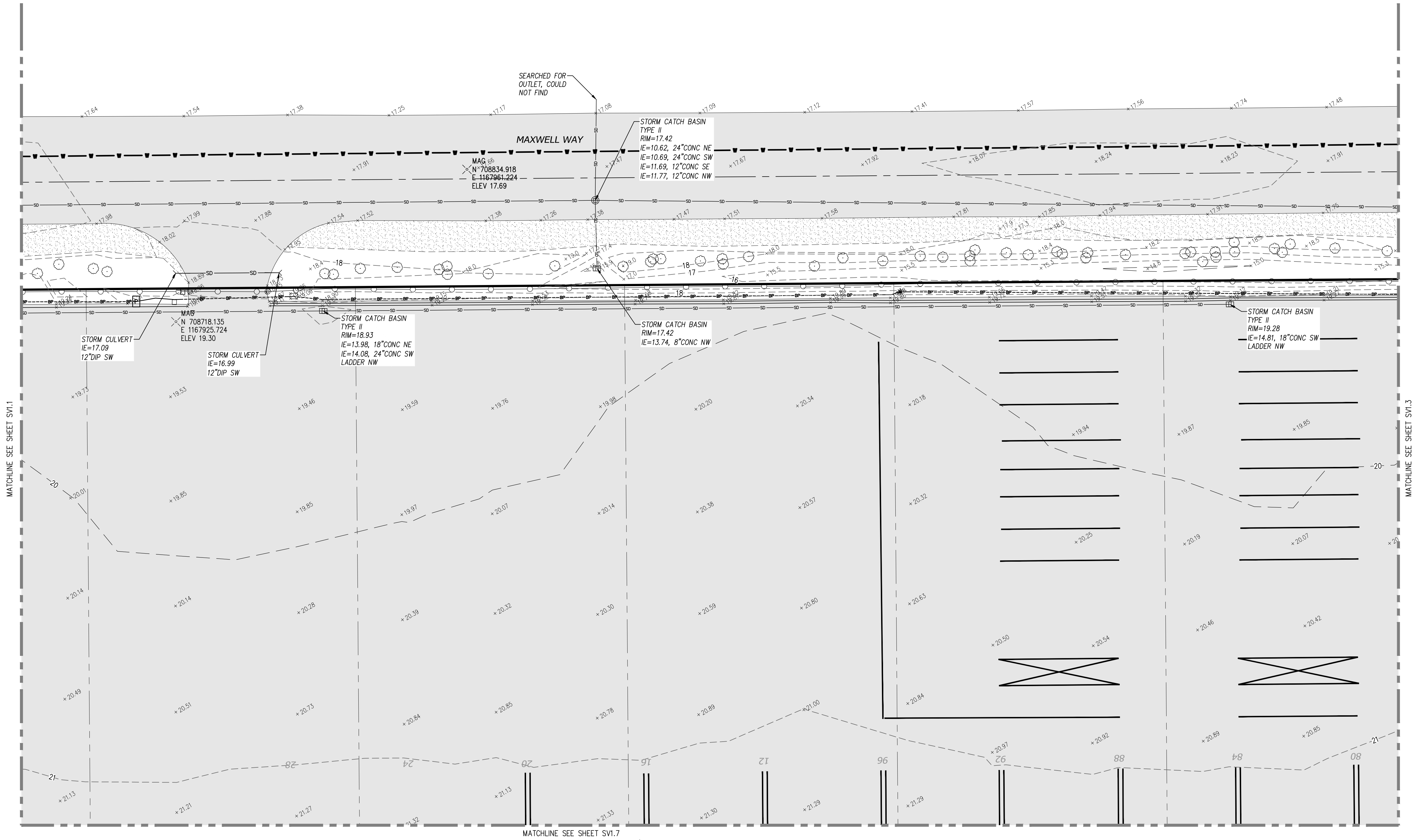
SV1.1 SH 2 OF 9	PARCEL F TOPOGRAPHIC SURVEY		APPROVED:	M.A.M. 00/00/00	DATE
	TOWNSHIP: 21 NORTH RANGE: 3 EAST SECTION: 34		CHECKED BY	DATE	
CONTR/CONS:	TOWN: 21 NORTH RANGE: 3 EAST SECTION: 34		DIRECTOR	DATE	
M. ID:	DAT-HRZ: WAB3/2011-SF VERT: MLLW 19'18" @ Tide 22 1933		PRINTED BY:	PROJ. ENGR	DATE
PHASE:	PARCEL: N/A		PORT ADDRESS:	ONE SITCUM PLAZA	
			TACOMA, WA 98401-1837		
			REVISION:	BY:	DATE:
			MARK:	APPR:	
			SITTS & HILL ENGINEERS, INC. CIVIL • STRUCTURAL • SURVEYING 4715 CENTER STREET TACOMA, WA 98409 PHONE 253-742-4449 FAX 253-744-9183 WWW.SITTSANDHILL.COM		
			Port of Tacoma P.O. BOX 1837 TACOMA, WA 98401 (253)835-5441		

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KEY MAP
SCALE 1"=300'

SEE SHEET SV1.0 FOR SURVEY CONTROL, NOTES AND BOUNDARY INFORMATION



LEGEND

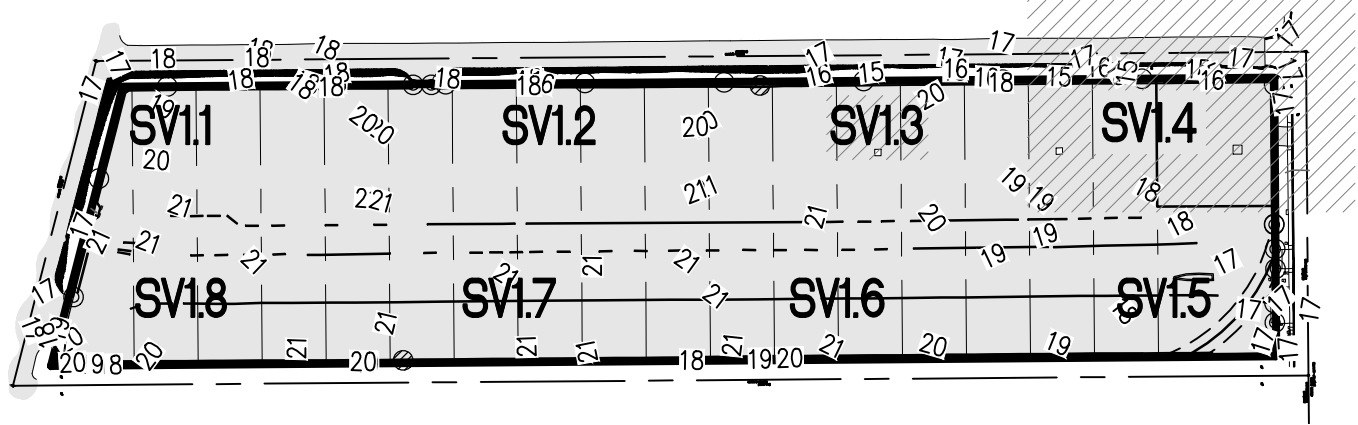
- | | | | |
|--|--------------------------|---------------------------|--------------------------|
| FOUND MONUMENT, 2" BRASS DISK W/"X" STAMPED "TPW 38486" UNLESS OTHERWISE NOTED | IRRIGATION CONTROL VALVE | UTILITY POLE | STORM DRAIN LINE |
| SET REBAR W/ CONTROL CAP | GAS VALVE | SIGN | RECORD STORM LINE |
| SURVEY CONTROL POINT | GAS METER | MAILBOX | SANITARY SEWER LINE |
| SANITARY SEWER MANHOLE | POWER METER | MONITORING WELL | RECORD SANITARY LINE |
| UTILITY CLEAN OUT | POWER CABINET | TAX PARCEL NUMBER | BURIED WATER LINE |
| STORM MANHOLE | UTILITY POLE | TELECOM VAULT | RECORD WATER LINE |
| STORM CULVERT | GUY ANCHOR | TELECOM MANHOLE | BURIED GAS LINE |
| ROOF DRAIN | JUNCTION BOX | TELECOM CABINET | RECORD GAS LINE |
| WATER MANHOLE | POWER VAULT | SCHED. B EXCEPTION NUMBER | BURIED POWER LINE |
| WATER VALVE | POWER MANHOLE | ASPHALT SURFACE | RECORD BURIED POWER |
| WATER METER | LIGHT POLE | CONCRETE SURFACE | BURIED TELECOM LINE |
| FIRE HYDRANT | TRAFFIC LOOP | RIP-RAP SURFACE | RECORD TELECOM LINE |
| WATER VAULT | UTILITY VAULT | | OVERHEAD POWER LINE |
| FIRE DEPARTMENT CONNECTION | UTILITY MANHOLE | | CHAIN LINK FENCE |
| WATER BLOW OFF | COLUMN | | WOOD OR SPLIT RAIL FENCE |
| POST INDICATOR VALVE | BOLLARD | | RAILROAD TRACKS |

 SITTS & HILL ENGINEERS, INC. CIVIL • STRUCTURAL • SURVEYING 4715 CENTER STREET TACOMA, WA 98409 PHONE (253) 742-4449 FAX (253) 744-9193 WWW.SITTSANDHILLENGINEERS.COM	APPROVED: M.A.M. 00/00/00 CHECKED BY: DATE		PARCEL F TOPOGRAPHIC SURVEY		SV1.2 SH 3 OF 9
	DIRECTOR: ENG. DATE PRINTED BY: schillingd Nov 25, 2019 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837		TOWNSHIP: 21 NORTH RANGE: 3 EAST SECTION: 34 DAT-HRZ: W83/2011-SF VERT: MLLW 19'18" @ Tide 22 1933 PARCEL: N/A DRAWING SCALE: AS NOTED		
	MARK:	REVISION:	BY:	DATE:	

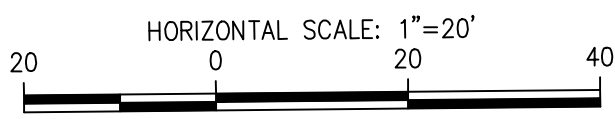
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- | | | | |
|--|--|---|--|
|  FOUND MONUMENT, 2" BRASS DISK W/ "X"
STAMPED "IPW 38486" UNLESS OTHERWISE NOTED |  IRRIGATION CONTROL VALVE |  UTILITY POLE |  STORM DRAIN LINE |
|  SET REBAR W/ CONTROL CAP |  GAS VALVE |  SIGN |  RECORD STORM LINE |
|  SURVEY CONTROL POINT |  GAS METER |  MAILBOX |  SANITARY SEWER LINE |
|  SANITARY SEWER MANHOLE |  POWER METER |  MONITORING WELL |  RECORD SANITARY LINE |
|  UTILITY CLEAN OUT |  POWER CABINET |  TAX PARCEL NUMBER |  BURIED WATER LINE |
|  STORM MANHOLE |  UTILITY POLE |  TELECOM VAULT |  RECORD WATER LINE |
|  STORM CATCH BASIN |  GUY ANCHOR |  TELECOM MANHOLE |  BURIED GAS LINE |
|  STORM CULVERT |  JUNCTION BOX |  TELECOM CABINET |  RECORD GAS LINE |
|  ROOF DRAIN |  POWER VAULT |  SCHED. B EXCEPTION NUMBER |  BURIED POWER LINE |
|  WATER MANHOLE |  POWER TRANSFORMER | |  RECORD BURIED POWER |
|  WATER VALVE |  POWER MANHOLE |  ASPHALT SURFACE |  BURIED TELECOM LINE |
|  WATER METER |  LIGHT POLE |  CONCRETE SURFACE |  RECORD TELECOM LINE |
|  FIRE HYDRANT |  TRAFFIC LOOP |  RIP-RAP SURFACE |  OVERHEAD POWER LINE |
|  WATER VAULT |  UTILITY VAULT | |  CHAIN LINK FENCE |
|  FIRE DEPARTMENT CONNECTION |  UTILITY MANHOLE | |  WOOD OR SPLIT RAIL FENCE |
|  WATER BLOW OFF |  COLUMN | |  RAILROAD TRACKS |
|  POST INDICATOR VALVE |  BOLLARD | | |



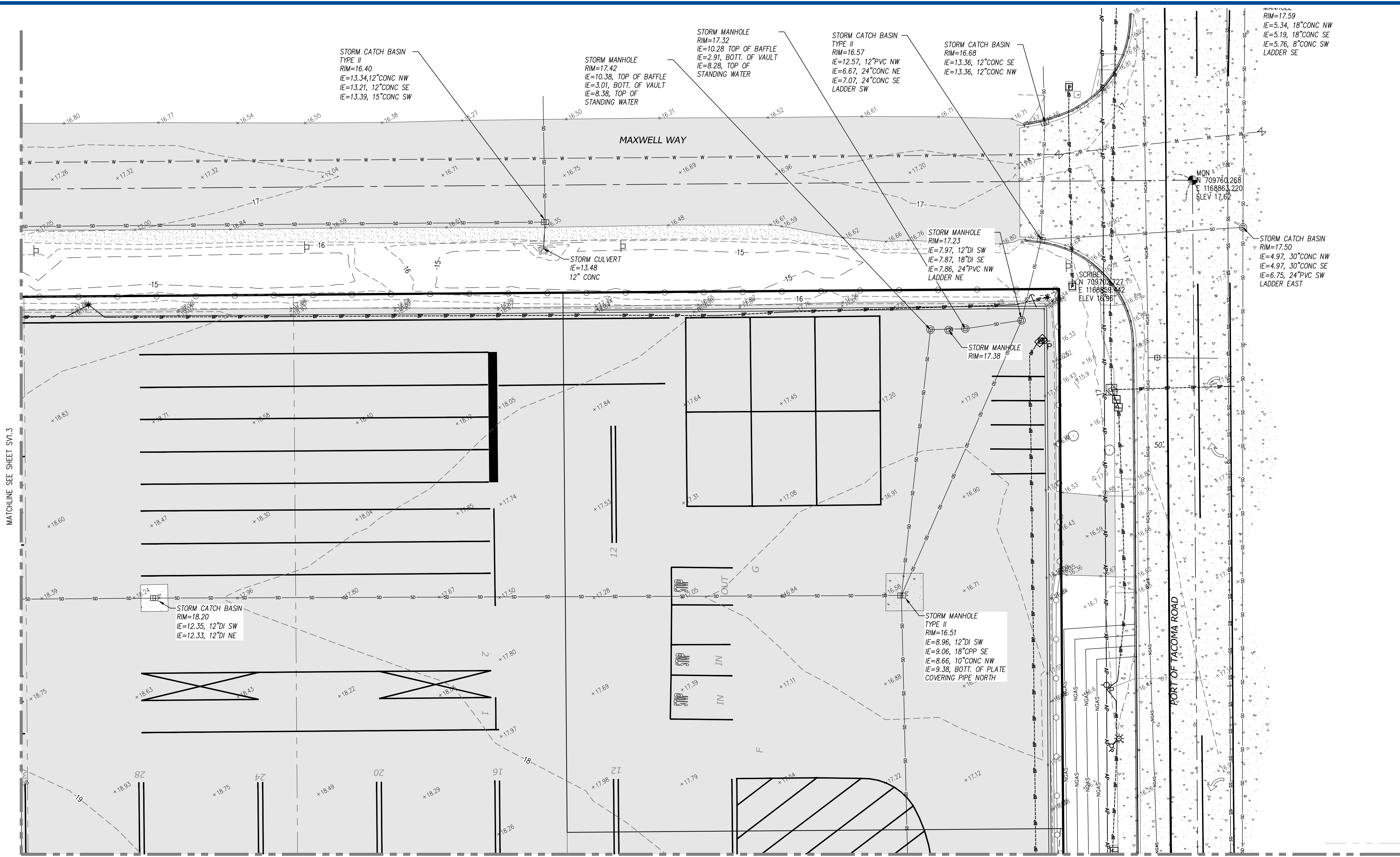
KEY MAP
SCALE 1"=300'



HORIZONTAL SCALE: 1"=20'

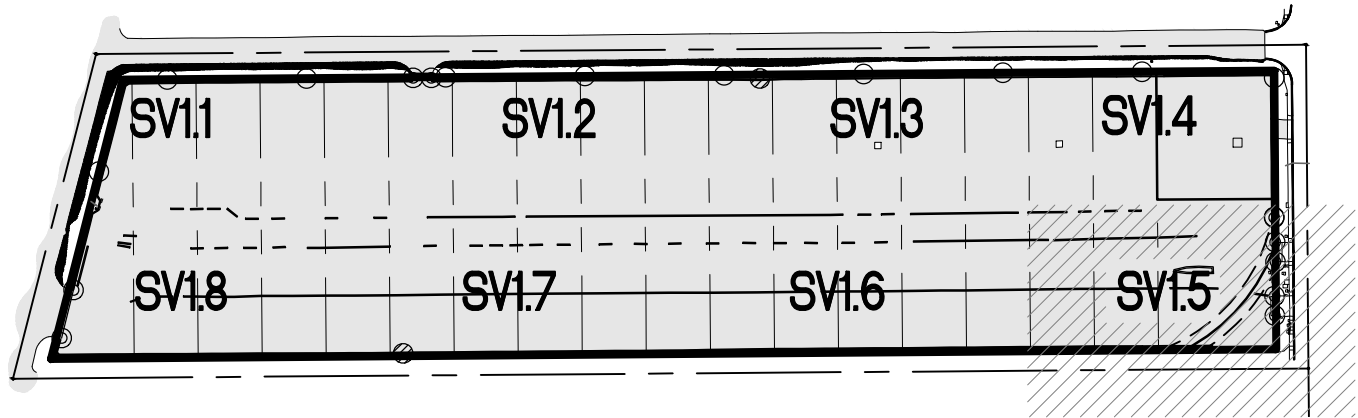
LEGEND

- | | | | |
|--|----------------------------|-----------------------------|----------------------------------|
| ⊙ FOUND MONUMENT, 2" BRASS DISK W/"X" STAMPED "TPW 38486" UNLESS OTHERWISE NOTED | ⊗ IRRIGATION CONTROL VALVE | ○ UTILITY POLE | —SD— STORM DRAIN LINE |
| ⊙ SET REBAR W/ CONTROL CAP | ⊠ GAS VALVE | ⊠ SIGN | —SD-R— SD-R RECORD STORM LINE |
| ⊗ SURVEY CONTROL POINT | ⊠ GAS METER | ⊠ MAILBOX | —SS— SS RECORD SANITARY LINE |
| ⊙ SANITARY SEWER MANHOLE | ⊠ POWER METER | ⊠ MONITORING WELL | —SS-R— SS-R RECORD SANITARY LINE |
| ○ UTILITY CLEAN OUT | ⊠ POWER CABINET | TPN TAX PARCEL NUMBER | —W— W BURIED WATER LINE |
| ⊠ STORM MANHOLE | ⊠ UTILITY POLE | ⊠ TELECOM VAULT | —W-R— W-R RECORD WATER LINE |
| ⊠ STORM CATCH BASIN | ⊠ GUY ANCHOR | ⊠ TELECOM MANHOLE | —NGAS— NGAS BURIED GAS LINE |
| < STORM CULVERT | ⊠ JUNCTION BOX | ⊠ TELECOM CABINET | —NGAS-R— NGAS-R RECORD GAS LINE |
| ⊠ ROOF DRAIN | ⊠ POWER VAULT | ⊠ SCHED. B EXCEPTION NUMBER | —BP— BP BURIED POWER LINE |
| ⊠ WATER MANHOLE | ⊠ POWER TRANSFORMER | | —BP-R— BP-R RECORD BURIED POWER |
| ⊠ WATER VALVE | ⊠ POWER MANHOLE | | —BT— BT BURIED TELECOM LINE |
| ⊠ WATER METER | ⊠ LIGHT POLE | | —BT-R— BT-R RECORD TELECOM LINE |
| ⊠ FIRE HYDRANT | ⊠ TRAFFIC LOOP | | —AP— AP OVERHEAD POWER LINE |
| ⊠ WATER VAULT | ⊠ UTILITY VAULT | | ○ CHAIN LINK FENCE |
| ⊠ FIRE DEPARTMENT CONNECTION | ⊠ UTILITY MANHOLE | | ⊠ WOOD OR SPLIT RAIL FENCE |
| ⊠ WATER BLOW OFF | ● COLUMN | | ⊠ RAILROAD TRACKS |
| ⊠ POST INDICATOR VALVE | ⊙ BOLLARD | | |



SV1.4 SH 5 OF 9	PARCEL F		TOPOGRAPHIC SURVEY		APPROVED:	M.A.M. 00/00/00	Part of Tacoma SITTS & HILL ENGINEERS, INC. CIVIL • STRUCTURAL • SURVEYING 4815 CENTER STREET • TACOMA, WA 98409 PHONE (253) 744-4449 • FAX (253) 744-4193 WWW.SITTSANDHILLENGINEERS.COM	
	CONTRACT/CONS:	TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 34	DIRECTOR ENG. DATE	PROJ. ENGR DATE	MARK:	REVISION:
M. ID:	DAT-HRZ: W83/2011-SF	VERT: MLLW 19'18" @ Tide 22 1933	PRINTED BY: schillingd	Nov 25, 2019	BY:	DATE:	APPR:	
PHASE:	PARCEL: N/A	DRAWING SCALE: AS NOTED	PORT ADDRESS: ONE SITCUM PLAZA	TACOMA, WA 98401-1837				

SEE SHEET SV1.0 FOR SURVEY CONTROL, NOTES AND BOUNDARY INFORMATION



KEY MAP
SCALE 1"=300'

HORIZONTAL SCALE: 1"=20'
0 20 40

LEGEND

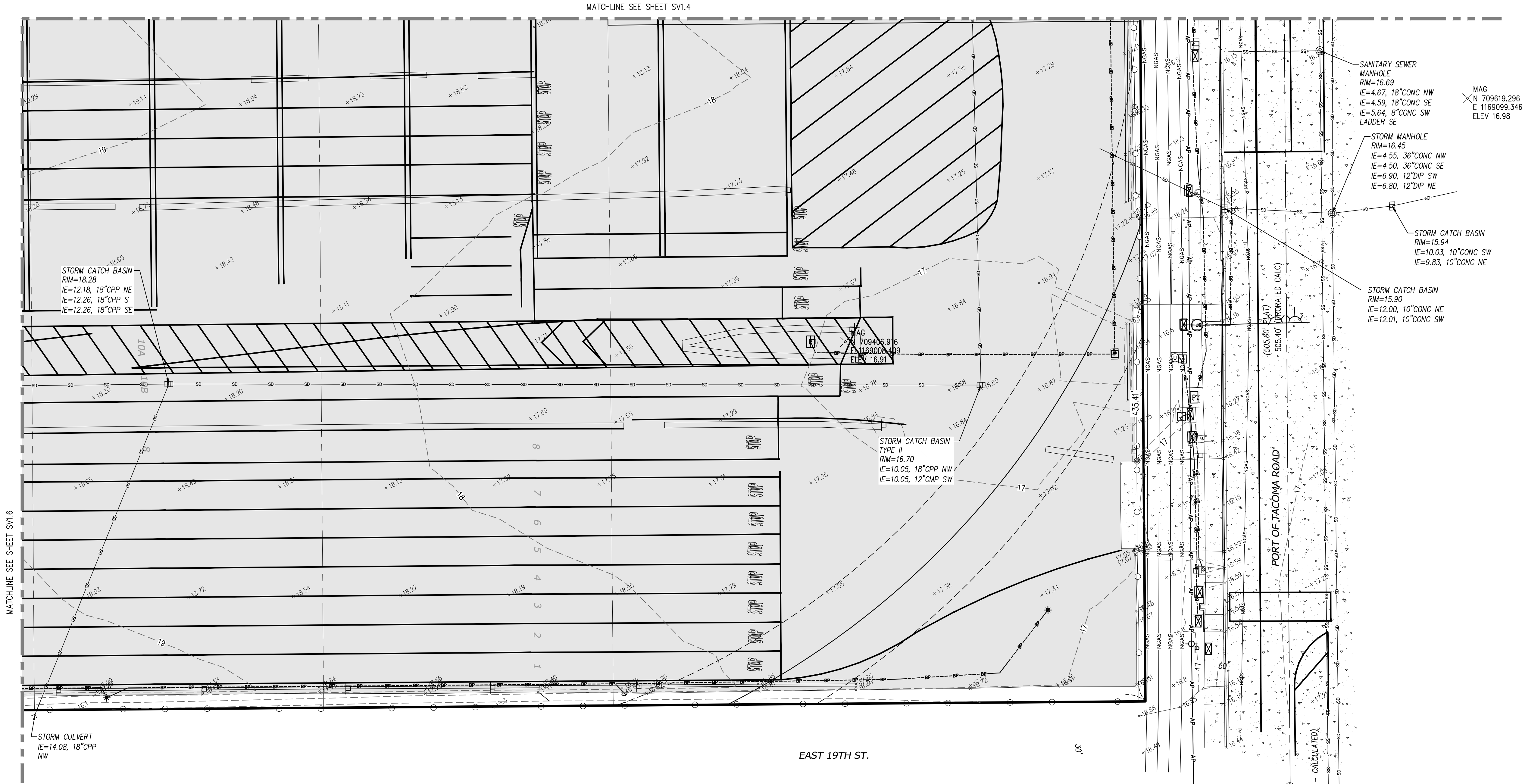
- FOUND MONUMENT, 2" BRASS DISK W/ "X" STAMPED "TPW 38486" UNLESS OTHERWISE NOTED
- SET REBAR W/ CONTROL CAP
- SURVEY CONTROL POINT
- SANITARY SEWER MANHOLE
- UTILITY CLEAN OUT
- STORM MANHOLE
- STORM CATCH BASIN
- STORM CULVERT
- ROOF DRAIN
- WATER MANHOLE
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- WATER VAULT
- FIRE DEPARTMENT CONNECTION
- WATER BLOW OFF
- POST INDICATOR VALVE

- IRRIGATION CONTROL VALVE
- GAS VALVE
- GAS METER
- POWER METER
- POWER CABINET
- UTILITY POLE
- GUY ANCHOR
- JUNCTION BOX
- POWER VAULT
- POWER TRANSFORMER
- POWER MANHOLE
- LIGHT POLE
- TRAFFIC LOOP
- UTILITY VAULT
- UTILITY MANHOLE
- COLUMN
- BOLLARD

- UTILITY POLE
- SIGN
- MAILBOX
- MONITORING WELL
- TAX PARCEL NUMBER
- TELECOM VAULT
- TELECOM MANHOLE
- TELECOM CABINET
- SCHED. B EXCEPTION NUMBER

- ASPHALT SURFACE
- CONCRETE SURFACE
- RIP-RAP SURFACE

- SD - STORM DRAIN LINE
- SD-R - RECORD STORM LINE
- SS - SANITARY SEWER LINE
- SS-R - RECORD SANITARY LINE
- W-R - RECORD WATER LINE
- NGAS - BURIED GAS LINE
- NGAS-R - RECORD GAS LINE
- BP - BURIED POWER LINE
- BP-R - RECORD BURIED POWER
- BT - BURIED TELECOM LINE
- BT-R - RECORD TELECOM LINE
- AP - OVERHEAD POWER LINE
- CHAIN LINK FENCE
- WOOD OR SPLIT RAIL FENCE
- RAILROAD TRACKS



MAG
N 709619.296
E 1169099.346
ELEV 16.98

SANITARY SEWER
MANHOLE
RIM=16.69
IE=4.67, 18" CONC NW
IE=4.59, 18" CONC SE
IE=5.64, 8" CONC SW
LADDER SE

STORM MANHOLE
RIM=16.45
IE=4.55, 36" CONC NW
IE=4.50, 36" CONC SE
IE=6.90, 12" DIP SW
IE=6.80, 12" DIP NE

STORM CATCH BASIN
RIM=15.94
IE=10.03, 10" CONC SW
IE=9.83, 10" CONC NE

STORM CATCH BASIN
RIM=15.90
IE=12.00, 10" CONC NE
IE=12.01, 10" CONC SW

STORM CATCH BASIN
TYPE II
RIM=16.70
IE=10.05, 18" CPP NW
IE=10.05, 12" CPP SW

SANITARY SEWER
MANHOLE
RIM=16.80
IE=3.96, 18" CONC NW
IE=3.91, 18" CONC SE
LADDER SE

SITTS & HILL
ENGINEERS, INC.
CIVIL • STRUCTURAL • SURVEYING
4715 CENTER STREET | TACOMA, WA 98403
PHONE (253) 742-4449 | FAX (253) 744-8183
WWW.SITTSANDHILLENGINEERS.COM

APPROVED: M.A.M. 00/00/00
CHECKED BY: DATE:
DIRECTOR: ENG. DATE:
PRINTED BY: schillingd Nov 25, 2019
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

SV1.5
SH 6 OF 9

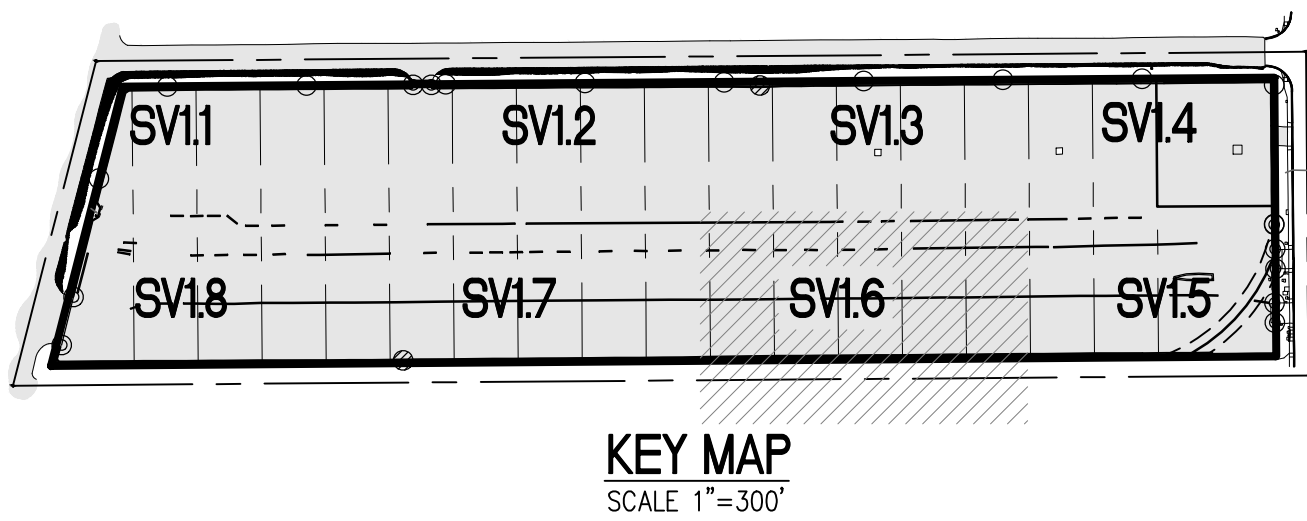
CONTR/CONS: TOWNSHIP: 21 NORTH RANGE: 3 EAST SECTION: 34
M. ID: DAT-HRZ: WAB3/2011-SF VERT: MLLW 19'18" @ Tide 22 1933
PHASE: PARCEL: N/A DRAWING SCALE: AS NOTED

PARCEL F
TOPOGRAPHIC SURVEY

SV1.5
SH 6 OF 9

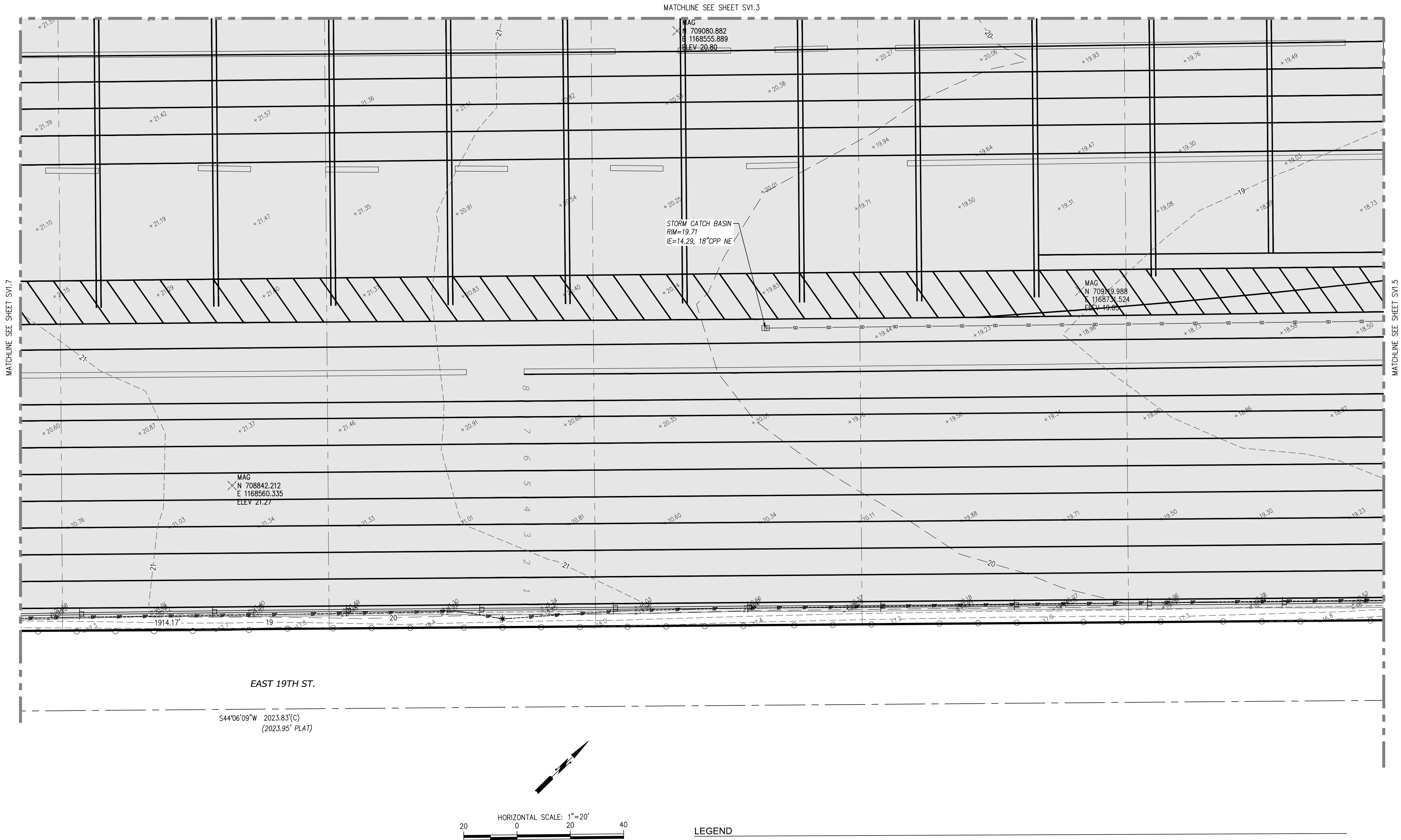
CONTR/CONS: TOWNSHIP: 21 NORTH RANGE: 3 EAST SECTION: 34
M. ID: DAT-HRZ: WAB3/2011-SF VERT: MLLW 19'18" @ Tide 22 1933
PHASE: PARCEL: N/A DRAWING SCALE: AS NOTED

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KEY MAP
SCALE 1"=300'

SEE SHEET SV1.0 FOR SURVEY CONTROL, NOTES AND BOUNDARY INFORMATION

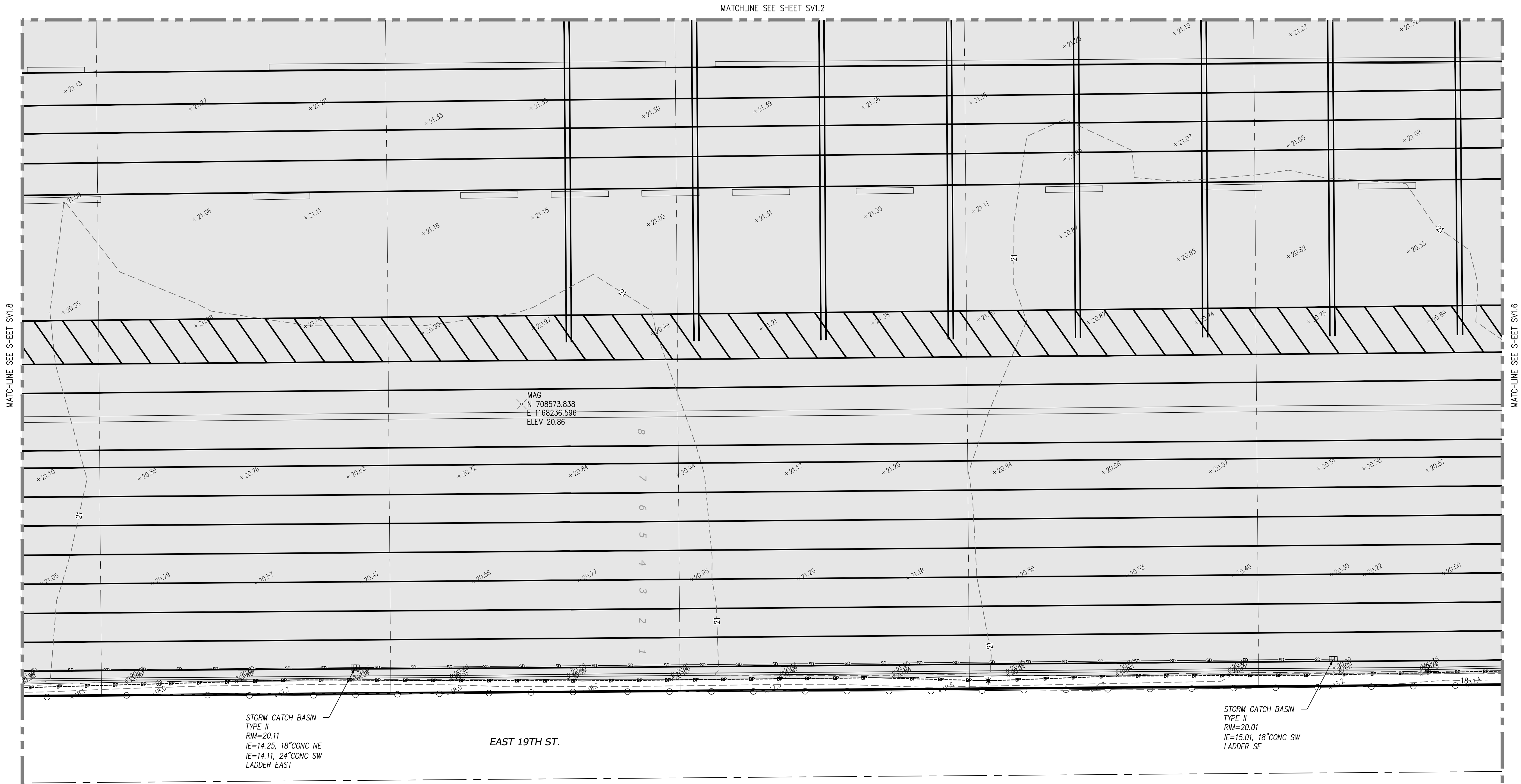
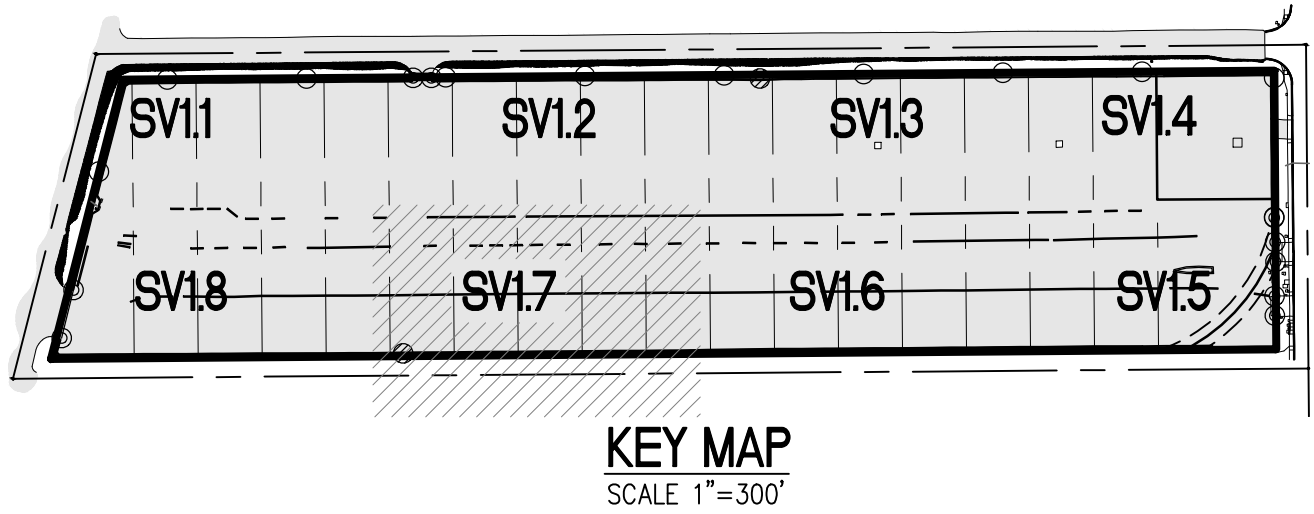


LEGEND

- | | | | |
|---|----------------------------|-----------------------------|-----------------------------------|
| ⊗ FOUND MONUMENT 2" BRASS DISK W/"X" STAMPED "TPW 38486" UNLESS OTHERWISE NOTED | ⊗ IRRIGATION CONTROL VALVE | ○ UTILITY POLE | —SD— STORM DRAIN LINE |
| ⊗ SET REBAR W/ CONTROL CAP | ⊗ GAS VALVE | □ SIGN | —SD-R— SD-R— RECORD STORM LINE |
| ⊗ SURVEY CONTROL POINT | ⊗ GAS METER | ○ MAILBOX | —SS— SS— SANITARY SEWER LINE |
| ⊗ SANITARY SEWER MANHOLE | ⊗ POWER METER | ⊗ MONITORING WELL | —SS-R— SS-R— RECORD SANITARY LINE |
| ○ UTILITY CLEAN OUT | ⊗ POWER CABINET | TPN TAX PARCEL NUMBER | —W— W— BURIED WATER LINE |
| ⊗ STORM MANHOLE | ⊗ UTILITY POLE | ⊗ TELECOM VAULT | —W-R— W-R— RECORD WATER LINE |
| ⊗ STORM CATCH BASIN | ⊗ GUY ANCHOR | ⊗ TELECOM MANHOLE | —NGAS— BURIED GAS LINE |
| < STORM CULVERT | ⊗ JUNCTION BOX | ⊗ TELECOM CABINET | —NGAS-R— NGAS-R— RECORD GAS LINE |
| ⊗ ROOF DRAIN | ⊗ POWER VAULT | ⊗ SCHED. B EXCEPTION NUMBER | —BP— BP— BURIED POWER LINE |
| ⊗ WATER MANHOLE | ⊗ POWER TRANSFORMER | | —BP-R— BP-R— RECORD BURIED POWER |
| ⊗ WATER VALVE | ⊗ POWER MANHOLE | ASPHALT SURFACE | —BT— BT— BURIED TELECOM LINE |
| ⊗ WATER METER | ⊗ LIGHT POLE | CONCRETE SURFACE | —BT-R— BT-R— RECORD TELECOM LINE |
| ⊗ FIRE HYDRANT | ⊗ TRAFFIC LOOP | RIP-RAP SURFACE | —AP— AP— OVERHEAD POWER LINE |
| ⊗ WATER VAULT | ⊗ UTILITY VAULT | | ○ CHAIN LINK FENCE |
| ⊗ FIRE DEPARTMENT CONNECTION | ⊗ UTILITY MANHOLE | | □ WOOD OR SPLIT RAIL FENCE |
| ⊗ WATER BLOW OFF | ● COLUMN | | ++++ RAILROAD TRACKS |
| ⊗ POST INDICATOR VALVE | ● BOLLARD | | |

SV1.6 SH 7 OF 9	PARCEL F		TOPOGRAPHIC SURVEY		APPROVED: M.A.M. 00/00/00 CHECKED BY: DATE								
	CONTR/CONS: TOWNSHIP: 21 NORTH RANGE: 3 EAST SECTION: 34	DATE: 11/25/2019		DRAWING SCALE: AS NOTED		DIRECTOR ENG. DATE: schilling Nov 25, 2019		REVISION: BY: DATE:		APPR: DATE:		MARK: REVISION: BY: DATE:	
M. ID: DAT-HRZ: WAB3/2011-SF VERT: MLLW 19'18" @ Tide 22 1933		PARCEL: N/A		TACOMA, WA 98401-1837		PORT ADDRESS: ONE SITCUM PLAZA							
PHASE:													

SEE SHEET SV1.0 FOR SURVEY CONTROL, NOTES AND BOUNDARY INFORMATION



LEGEND

- | | | | |
|---|--------------------------|---------------------------|--------------------------|
| FOUND MONUMENT - 2" BRASS DISK W/"X" STAMPED "TPW 38486" UNLESS OTHERWISE NOTED | IRRIGATION CONTROL VALVE | UTILITY POLE | STORM DRAIN LINE |
| SET REBAR W/ CONTROL CAP | GAS VALVE | SIGN | RECORD STORM LINE |
| SURVEY CONTROL POINT | GAS METER | MAILBOX | SANITARY SEWER LINE |
| SANITARY SEWER MANHOLE | POWER METER | MONITORING WELL | RECORD SANITARY LINE |
| UTILITY CLEAN OUT | POWER CABINET | TPN | BURIED WATER LINE |
| STORM MANHOLE | UTILITY POLE | TELECOM VAULT | RECORD WATER LINE |
| STORM CATCH BASIN | GUY ANCHOR | TELECOM MANHOLE | BURIED GAS LINE |
| STORM CULVERT | JUNCTION BOX | TELECOM CABINET | RECORD GAS LINE |
| ROOF DRAIN | POWER VAULT | SCHED. B EXCEPTION NUMBER | BURIED POWER LINE |
| WATER MANHOLE | POWER TRANSFORMER | | RECORD BURIED POWER |
| WATER VALVE | POWER MANHOLE | ASPHALT SURFACE | BURIED TELECOM LINE |
| WATER METER | LIGHT POLE | CONCRETE SURFACE | RECORD TELECOM LINE |
| FIRE HYDRANT | TRAFFIC LOOP | RIP-RAP SURFACE | OVERHEAD POWER LINE |
| WATER VAULT | UTILITY VAULT | | CHAIN LINK FENCE |
| FIRE DEPARTMENT CONNECTION | UTILITY MANHOLE | | WOOD OR SPLIT RAIL FENCE |
| WATER BLOW OFF | COLUMN | | RAILROAD TRACKS |
| POST INDICATOR VALVE | BOLLARD | | |

PARCEL F
TOPOGRAPHIC SURVEY

SV1.7
SH 8 OF 9

CONTR/CONS: TOWNSHIP: 21 NORTH RANGE: 3 EAST SECTION: 34
M. ID: DAT-HRZ: W83/2011-SF VERT: MLLW 19'18" @ Tide 22 1933
PHASE: PARCEL: N/A DRAWING SCALE: AS NOTED

APPROVED:

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PRINTED BY: schilling Nov 25, 2019
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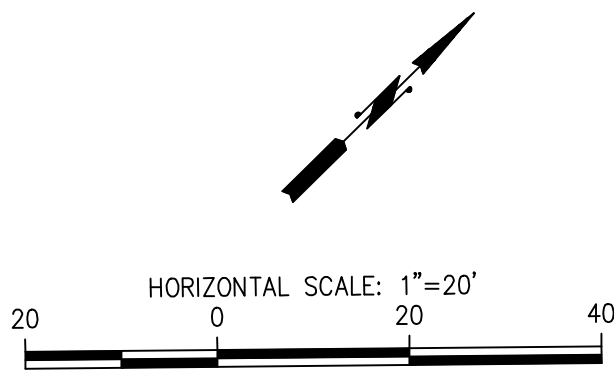
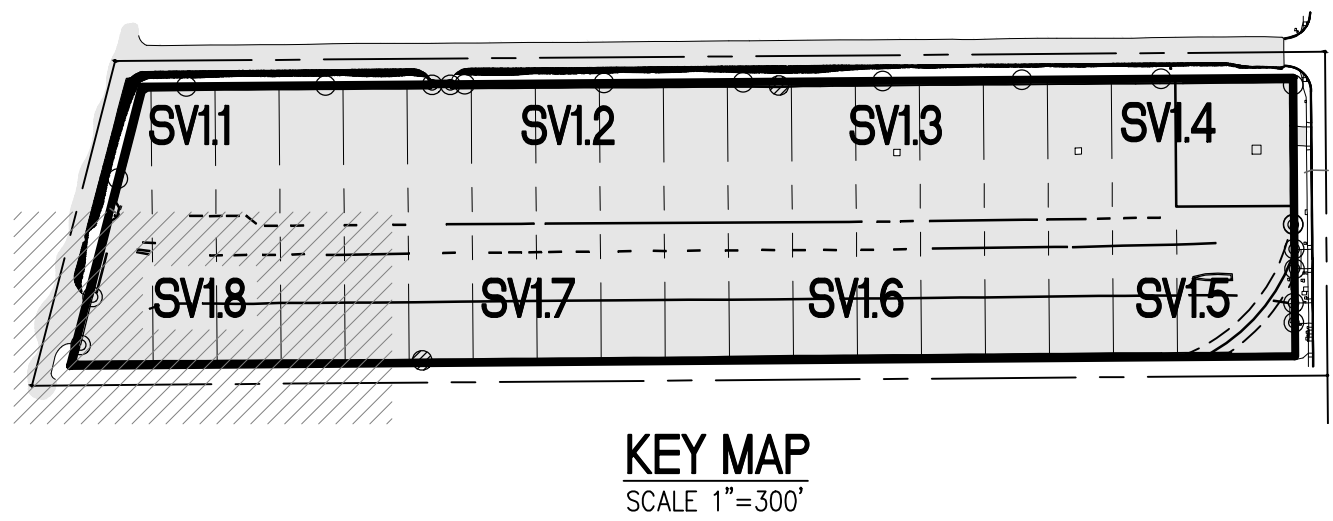
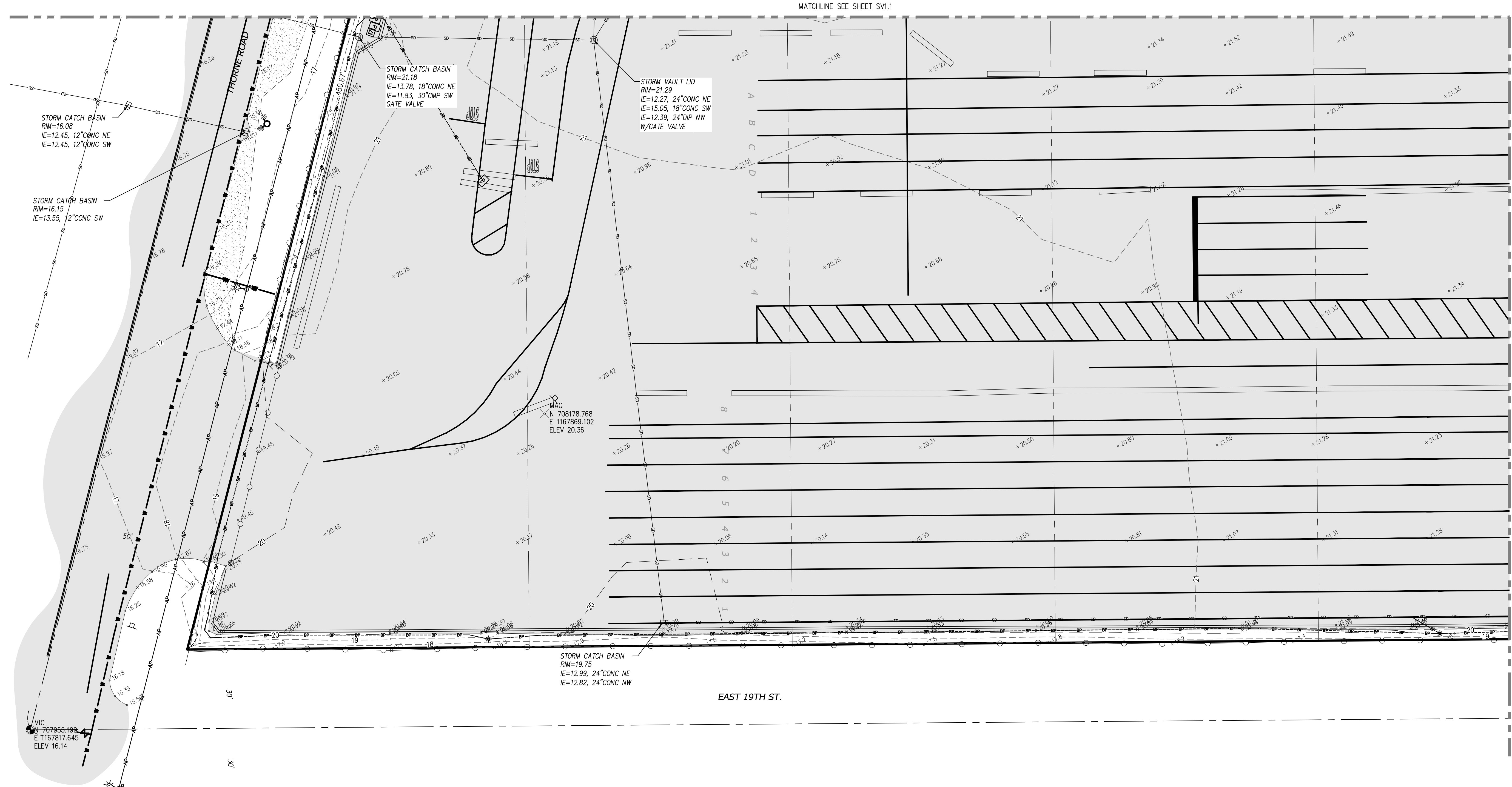


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LEGEND

- | | | | |
|---|--------------------------|---------------------------|--------------------------|
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| SET REBAR W/ CONTROL CAP | GAS VALVE | SIGN | RECORD STORM LINE |
| SURVEY CONTROL POINT | GAS METER | MAILBOX | SANITARY SEWER LINE |
| SANITARY SEWER MANHOLE | POWER METER | MONITORING WELL | RECORD SANITARY LINE |
| UTILITY CLEAN OUT | POWER CABINET | TPN | BURIED WATER LINE |
| STORM MANHOLE | UTILITY POLE | TELECOM VAULT | RECORD WATER LINE |
| STORM CATCH BASIN | GUY ANCHOR | TELECOM MANHOLE | BURIED GAS LINE |
| STORM CULVERT | JUNCTION BOX | TELECOM CABINET | RECORD GAS LINE |
| ROOF DRAIN | POWER VAULT | SCHED. B EXCEPTION NUMBER | BURIED POWER LINE |
| WATER MANHOLE | POWER TRANSFORMER | | RECORD BURIED POWER |
| WATER VALVE | POWER MANHOLE | ASPHALT SURFACE | BURIED TELECOM LINE |
| WATER METER | LIGHT POLE | CONCRETE SURFACE | RECORD TELECOM LINE |
| FIRE HYDRANT | TRAFFIC LOOP | RIP-RAP SURFACE | OVERHEAD POWER LINE |
| WATER VAULT | UTILITY VAULT | | CHAIN LINK FENCE |
| FIRE DEPARTMENT CONNECTION | UTILITY MANHOLE | | WOOD OR SPLIT RAIL FENCE |
| WATER BLOW OFF | COLUMN | | RAILROAD TRACKS |
| POST INDICATOR VALVE | BOLLARD | | |

SEE SHEET SV1.0 FOR SURVEY CONTROL, NOTES AND BOUNDARY INFORMATION

SV1.8 SH 9 OF 9	PARCEL F TOPOGRAPHIC SURVEY		APPROVED:	M.A.M. 00/00/00	DATE
	TOWNSHIP: 21 NORTH RANGE: 3 EAST SECTION: 34 DAT-HRZ: WAB3/2011-SF VERT: MLLW 19'18" @ Tide 22 1933 PARCEL: N/A DRAWING SCALE: AS NOTED		DIRECTOR ENG. DATE	PROJ. ENGR	DATE
CONTR/CONS:			PRINTED BY:	schillingd Nov 25, 2019	
M. ID:			PORT ADDRESS:	ONE SITCUM PLAZA	
PHASE:			TACOMA, WA	98401-1837	
SITTS & HILL ENGINEERS, INC. CIVIL • STRUCTURAL • SURVEYING 4715 CENTER STREET TACOMA, WA 98409 PHONE 253-764-9449 FAX 253-764-9193 WWW.SITTSANDHILLENGINEERS.COM			MARK:	REVISION:	
			BY:	APPR:	DATE:
			P.O. BOX 1837 TACOMA, WA 98401 (253)838-5441		

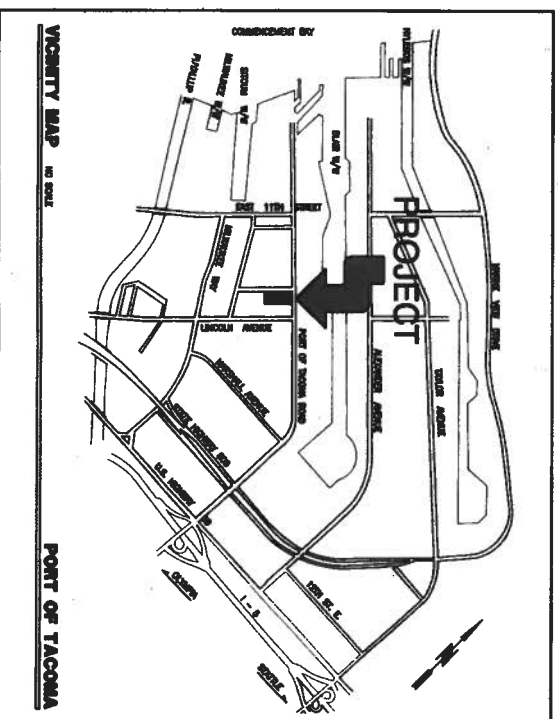
**MARSHALL AVE AUTO FACILITY
MAXWELL WAY REMOTE SITE
CONTRACT NO. 998147**

**JACK A. FABULICH
RICHARD P. MARZANO
CLARE PETRICH
CONSTANCE T. BACON
R. TED BOTTIGER**

ANDREA RINKER
Executive Director

MICHAEL R. ADAMS
Chief Engineer
Director of Engineering

TREVOR K. THORNSLEY
Project Manager

[illegible]

HORIZONTAL DATUM:

WASHINGTON COORDINATE SYSTEM - SOUTH ZONE
NAD 83-91, BASED UPON 2001 VALUES FOR WATERSK (SEALAND) PIER MONITORING POINTS PREVIOUSLY ESTABLISHED BY INCA ENGINEERS AND TRACEABLE TO THE WASHINGTON HPN,
SLP1, 2001, N 711730.217 E 11644157.613
SLP2, 2001, N 710532.782 E 1165180.478

BASIS OF BEARING:

WASHINGTON COORDINATE SYSTEM - SOUTH ZONE

VERTICAL DATUM:

MEAN LOWER LOW WATER, BASED UPON USCGS BM TIDE 22 1933.
A DISK SET IN 3'x3' CONCRETE SLAB OF THE NW SIDEWALK AT THE NE END OF EAST 11TH STREET BRIDGE OVER PUYALLUP RIVER, 1 FT. ABOVE STREET LEVEL.
TIME PERIOD: AUG 1997 - FEB 1999
TIDAL EPOCH: 1960 - 1978
PUBLISHED 9/11/2000
TIDAL 22 ELEVATION ABOVE MLLW = 19.39 FEET.

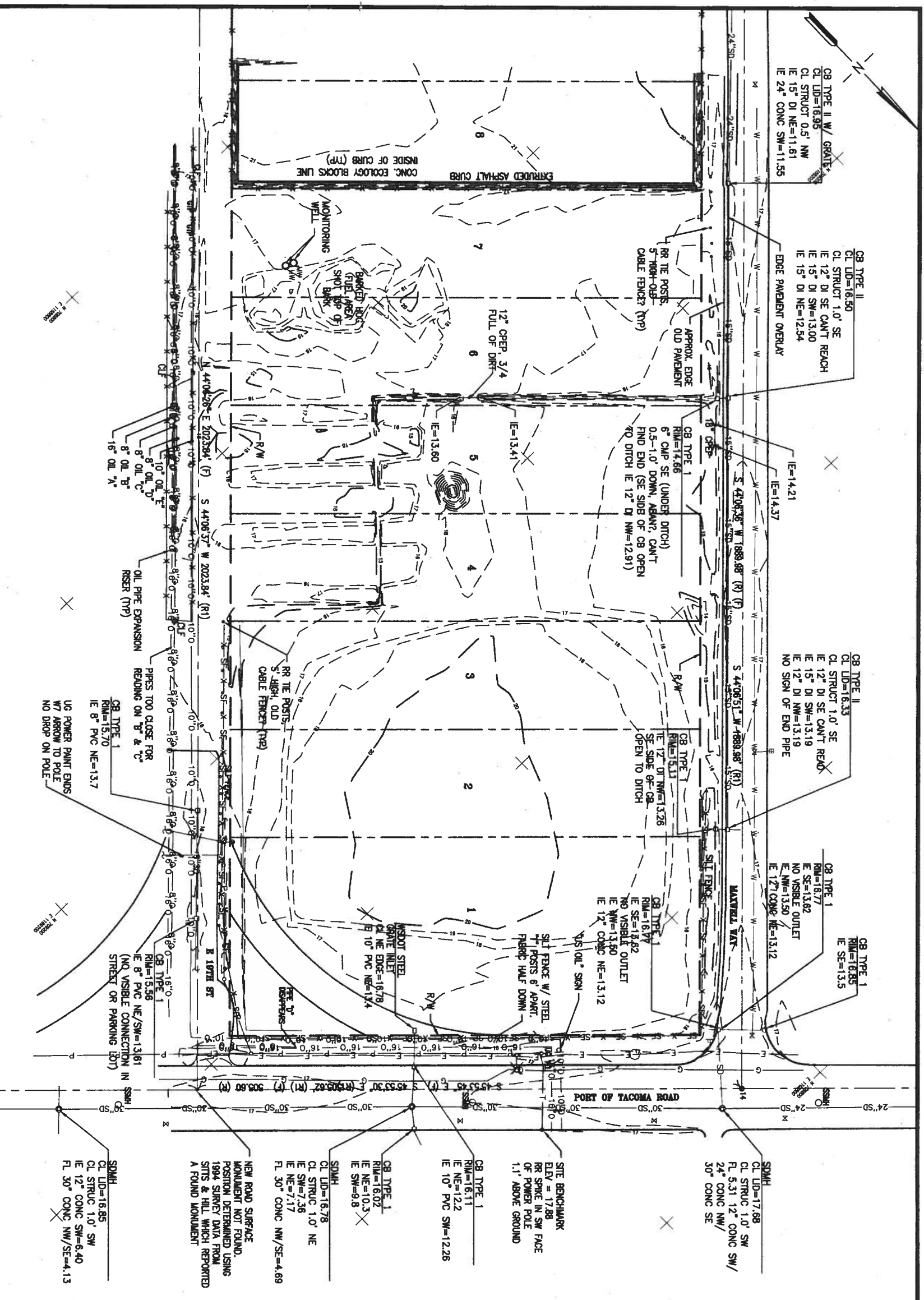
ALL INFORMATION SHOWN ON THIS SHEET TAKEN FROM A SURVEY COMPLETED BY INCA ENGINEERS, SEPT 2002.

PORT OF TACOMA P.O. BOX 1837
TACOMA, WA 98401 253-383-5841
MORFITT & NICHOL
710 2nd Ave SE
TACOMA, WA 98104
PH 206-822-0222 FAX 206-822-4794
REVISED: 04/07/03
DATE: 04/07/03



APPROVED	CHIEF ENGINEER - DATE	10/10/03
PROJECT ENGR. - DATE	04/07/03	
CHECKED BY - DATE	04/07/03	
JNR	04/07/03	
SLG	04/07/03	

MARSHALL AVE. AUTO FACILITY
EXISTING CONDITIONS
CONTRACT NUMBER: 988147
SHEET 3 OF 17
C1



EXISTING CONDITIONS
SCALE: 1"=50'



PORT OF TACOMA
ENGINEERS
TACOMA, WA 98401 253-383-5841
P.O. BOX 1837
TACOMA, WA 98404

710 2nd Ave. Ste 720 - Seattle, WA 98104
PH 206-622-0222, FAX 206-622-4784

DATE: 04/07/03

REVISION

MARK

APPROVED	CHIEF ENGINEER - DATE M. J. Moffatt 04/07/03
JUN	CHECKED BY - DATE 04/07/03
SIG	PROJECT ENGR. - DATE 04/07/03
TOWNSHIP: 21N RANGE: 3E SECTION: 34-35 DATE: 04/07/03 DRAWING SCALE: AS SHOWN	
PHASE: FINAL CONTRACT NUMBER: 998147 SHEET 4 OF 17	

MARSHALL AVE. AUTO FACILITY
CLEARING AND DEMOLITION PLAN

EP-5574-20
C2

CLEARING NOTES:

- WITHIN CLEARING AND DEMOLITION LIMITS, SITE SHALL BE CLEARED OF SURFACE AND SUBSURFACE DELETERIOUS MATTER INCLUDING ANY DEBRIS, ROCKS, TREES, BRUSH, HOG FUEL, AND ASSOCIATED STUMPS AND ROOTS.
- SHADED AREA DENOTES APPROXIMATE LIMITS OF STRIPPING TO A MINIMUM DEPTH OF 4". ALL ORGANIC AND STRIPPED SOIL SHALL BE REMOVED OFF SITE.

DEMOLITION NOTES:

- ECOLOGICAL BLOCKS ALONG WEST BOUNDARY TO BE REMOVED BY PORT MAINTENANCE. COORDINATE TIMING WITH OWNER.
- DEMOLISH ASPHALT CURB, SAWCUT AND REMOVE ASPHALT PAVEMENT SECTION ALONG WEST BOUNDARY.
- REMOVE FENCE, CONCRETE FOUNDATIONS AND POSTS ALONG WEST BOUNDARY.
- SAWCUT AND REMOVE PAVEMENT WITHIN LIMITS.
- REMOVE SILT FENCE WITHIN PROPERTY LIMITS SHOWN.
- REMOVE CATCH BASINS. PLUG AND ABANDON STORM DRAIN PIPES.
- PLUG 8" STORM DRAIN WITH CDF AND ABANDON.
- REMOVE CATCH BASIN AND 12" STORM DRAIN. INSTALL NEW PIPE AND STRUCTURES PER UTILITY PLAN SHEET C4. SAWCUT AND REMOVE 6" AC OVER 8" BASE COURSE PAVEMENT AS NECESSARY.

CLEARING AND DEMOLITION PLAN

SCALE: 1"=50'

SECTION

SCALE 1/2"=1'-0"

PORT OF TACOMA
ENGINEERS

710 2nd Ave. STE 720 - Seattle, WA 98104
PH 206-622-0222, FAX 206-622-4764

REVISION

DATE

APPROVED

DATE

PORT OF TACOMA P.O. BOX 1837
TACOMA, WA 98401 253-383-5841

REVISION

DATE

APPROVED

DATE

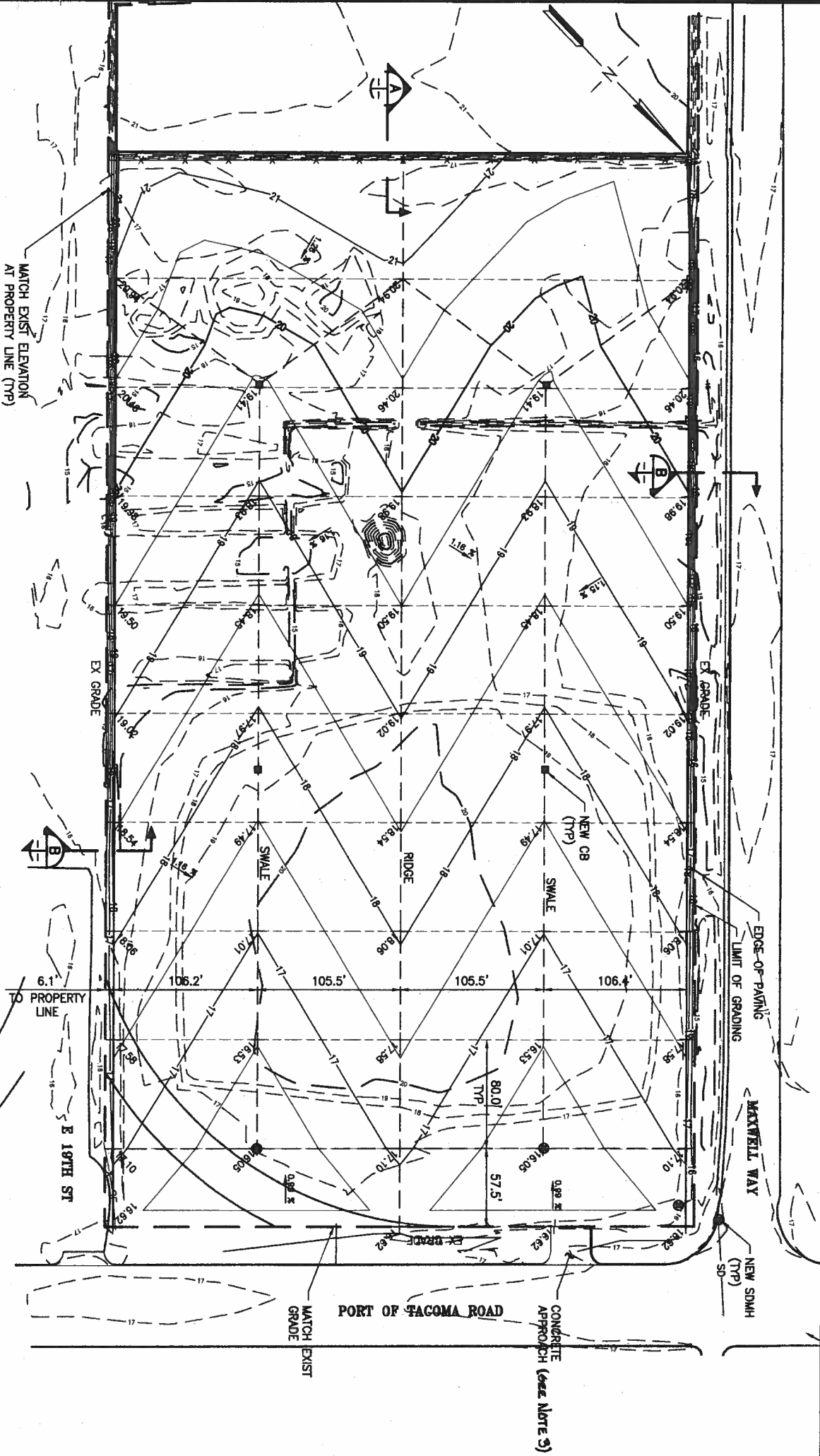


PROJECT	PORT OF TACOMA
DATE	04/07/03
PROJECT ENGR. - DATE	04/07/03
CHECKED BY - DATE	04/07/03
CHIEF ENGINEER - DATE	04/07/03
DRAWING DATE	04/07/03
PORT ADDRESS	1800 Port of Tacoma Road
PORT PARCEL	30

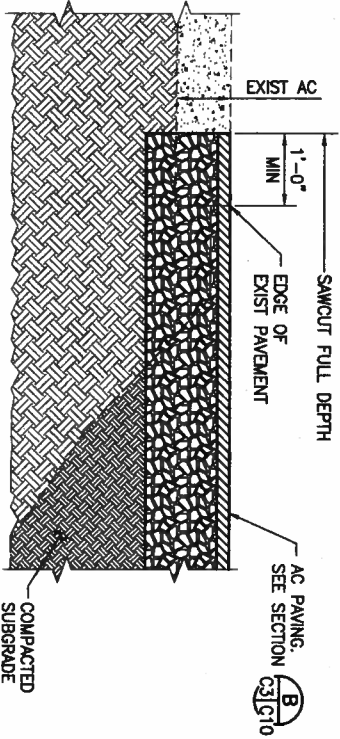
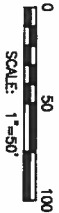
TOWNSHIP	21N RANGER, SE
DATUM	HORIZ. NAD 83/91 VERT. MLLW
CONTRACT NUMBER	998147
PHASE	FINAL
SHEET	5 OF 17

MARSHALL AVE. AUTO FACILITY
MAXWELL WAY SITE
GRADING AND PAVING PLAN

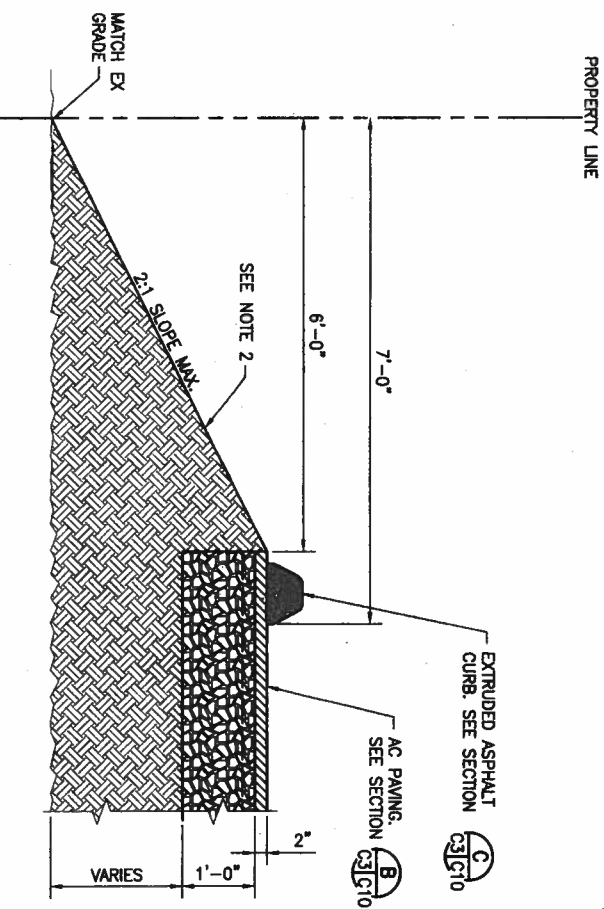
- NOTES:**
- MATCH EXISTING GRADE AT R/W LINE.
 - PLACE 2" (MIN) TOPSOIL ON SLOPE AND HYDROSEED TO ESTABLISH VEGETATION.
 - CONCRETE APPROACH SHALL BE PER CITY OF TACOMA STD. PLAN NO. 15 TYPE 'F', W=50', R=10'.



GRADING & PAVING PLAN
SCALE: 1"=50'

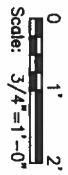


SECTION
SCALE: 3/4"=1'-0"



NOTE:
FENCE NOT SHOWN

TYPICAL SECTION
SCALE: 3/4"=1'-0"



EP-5574-20
C3

CB TYPE II
CL UD=16.50
CL STRUCT 1.0' SE
IE 12" DI SE CAN'T REACH
IE 15" DI SW=13.00
IE 15" DI NE=12.54
IE 24" CONC SW=11.55

CB TYPE II
CL UD=16.33
CL STRUCT 1.0' SE
IE 12" DI SE CAN'T REAO
IE 15" DI SW=13.19
IE 12" DI NW=13.19
NO SIGN OF END PIPE

CB TYPE I
CL UD=16.85
IE SE=13.5

CB TYPE I
CL UD=17.68
CL STRUCT 1.0' SW
FL 5.31 12" CONC SW/
24" CONC NW/
30" CONC SE
CONNECT SD AT IE 5.31,
GROUT IN PLACE

31.7 LF 24" PE SD
● 1.48% SLOPE

108.7 LF 18" PE SD
● 0.98% SLOPE

STORM DRAINAGE NOTES:

- CATCH BASINS SHALL BE TYPE 1 CONFORMING TO WSDOT STANDARD PLAN NO. B1, UNLESS OTHERWISE NOTED.
- FRAMES AND GRATES SHALL BE THE VAND TYPE CONFORMING TO WSDOT STANDARD PLAN NO. B-2b.
- MANHOLES SHALL BE TYPE 2, 48" DIA. CONFORMING TO WSDOT STANDARD PLAN B-1e.
- CATCH BASINS AND MANHOLES SHALL BE DESIGNED TO SUPPORT THE FOLLOWING LOADING:
 - AXLE LOAD OF 215,000 LBS PLUS 30% IMPACT
 - FOUR TIRES PER AXLE
 - 10" X 25" TIRES AT 100 PSI
 - 192" FROM OUTSIDE TO OUTSIDE OF TIRES
- PATCH AND REPAIR PORT OF TACOMA ROAD PAVEMENT AFTER UTILITY INSTALLATION. MATCH EXISTING ROADWAY PAVEMENT SECTION.

MAXWELL WAY
● 0.74% SLOPE
17.50 LF 12" PE SD
● 0.74% SLOPE
93.50 LF 12" PE SD
● 0.91% SLOPE

CB TYPE I
CL UD=15.11
IE 12" DI NW=13.26
SE SIDE OF CB
OPEN TO DITCH

CB TYPE I
CL UD=14.66
6" CAMP SE (UNDER DITCH)
0.5-1.0' DOWN, ABAW? CAN'T
FIND END (SE SIDE OF CB OPEN
TO DITCH IE 12" DI NW=12.91)

PIPE BEDDING MATERIAL -
PLACE IN 6" LIFTS & COMPACT
EACH LIFT TO 90% MAX DRY
DENSITY - BEDDING MATERIAL
TO BE PER WSDOT 8-03.12 (3)

MAX TRENCH WIDTH AT TOP OF
PIPE = 40" FOR PIPE 15" DIA.
OR SMALLER, 1 1/2 x PIPE I.D. +
18" FOR PIPE 18" DIA. OR LARGER

CB2
283.0 LF 12" PE SD ● 0.80% SLOPE

CB1
278.5 LF 12" PE SD ● 1.2% SLOPE

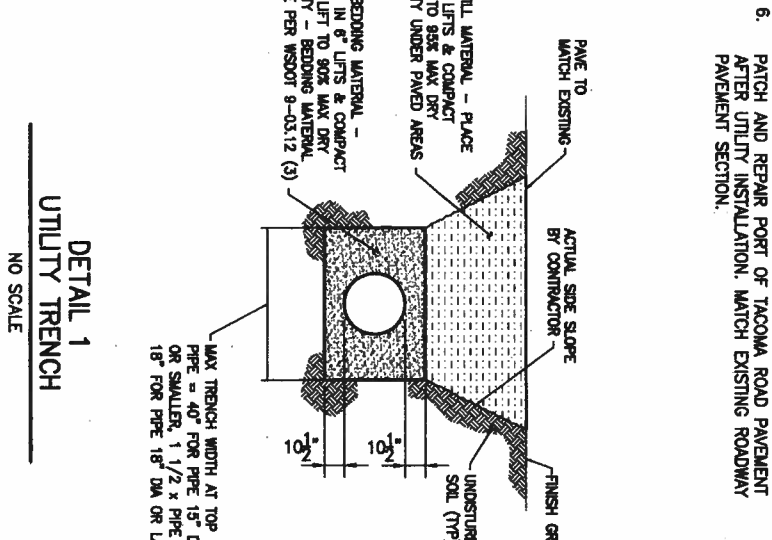
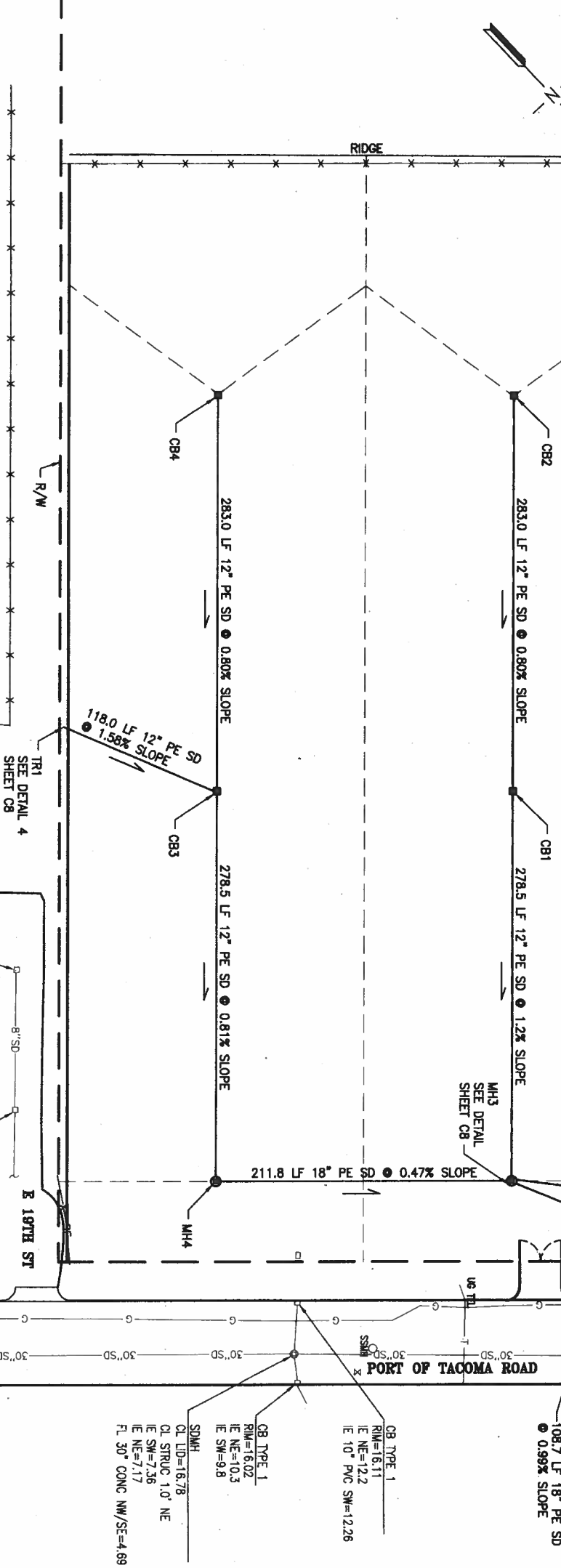
CB3
278.5 LF 12" PE SD ● 0.81% SLOPE

CB4
283.0 LF 12" PE SD ● 0.80% SLOPE

118.0 LF 12" PE SD
● 1.58% SLOPE

211.8 LF 18" PE SD ● 0.47% SLOPE

DETAIL 1
UTILITY TRENCH
NO SCALE



DRAINAGE PLAN

PARCEL F
SCALE: 1"=50'

STORM DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO	NORTHING	EASTING	RIM ELEV	INVERT IN		INVERT OUT		REMARKS
				ELEV	DIR	ELEV	DIR	
MH1	709705.3	1168840.2	16.77	7.70	S	7.80	NE	
MH2	709676.80	1168854.3	16.59	13.50	NW	12"	18"	
MH3	709577.0	1168897.2	16.05	8.27	S	8.17	N	
MH4	709429.6	11689049.3	16.05	9.45	SW	9.35	N	
CB1	709376.8	1168703.1	17.73	10.55	SW	10.45	NW	TYPE 3 MH
CB2	709173.3	1168505.9	19.41	12.90	SW	12.80	NE	
CB3	709229.4	1168855.2	17.73	12.90	SW	12.80	NE	
CB4	709025.9	1168858.0	19.41	12.90	SE	12"	12"	
TRI	709117.4	1168902.6	19.41	15.16	NE	14.76	NW	
O/W SEP	709657.0	1168838.8	16.80	8.50	SE	8.40	NE	OPEN CULVERT W/ TRASH RACK

PORT OF TACOMA P.O. BOX 1837
TACOMA, WA 98401 253-383-6841

ENGINEERS
MORFATT & NICHOL
710 2nd Ave., STE 720 - Seattle, WA 98104
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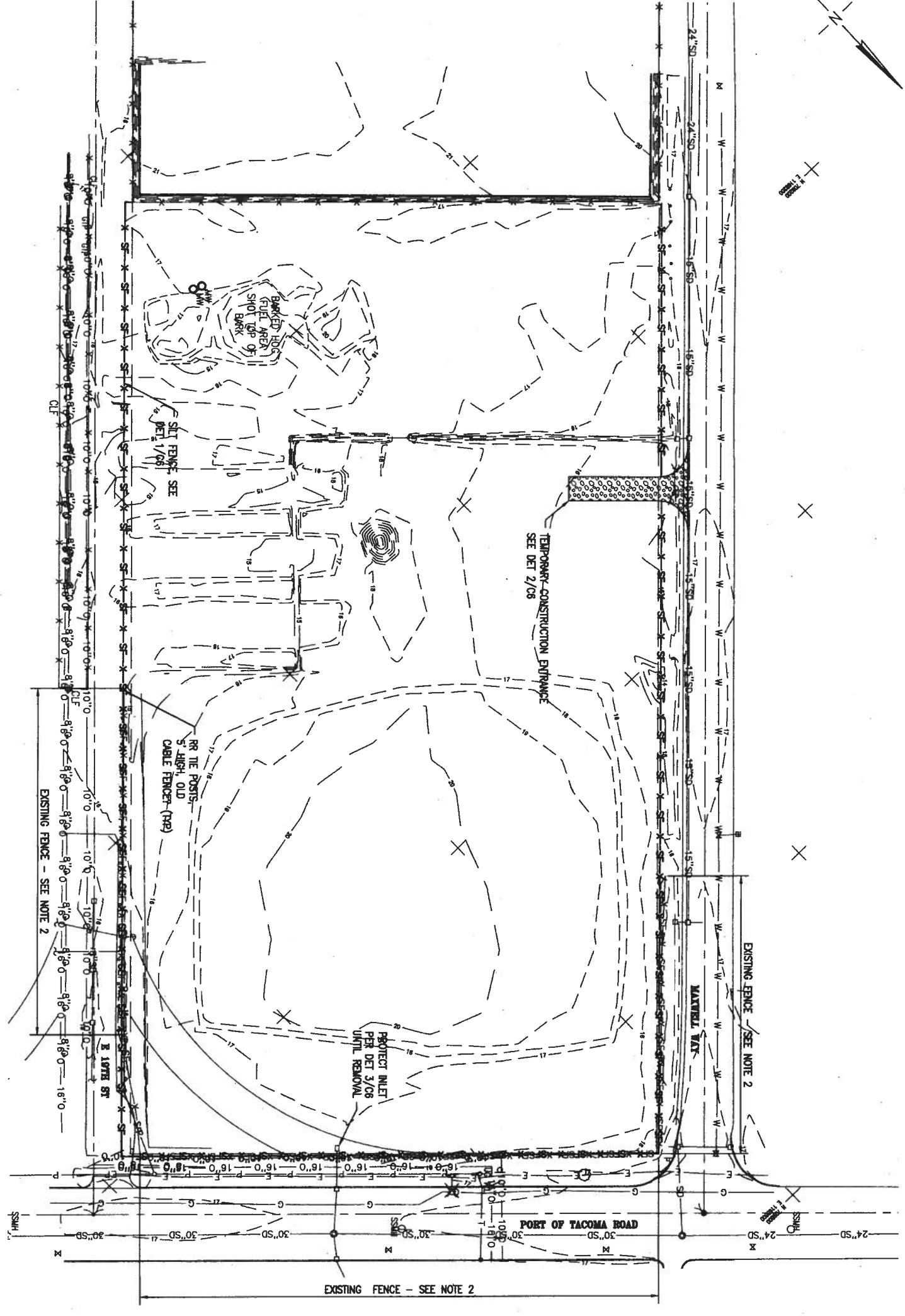
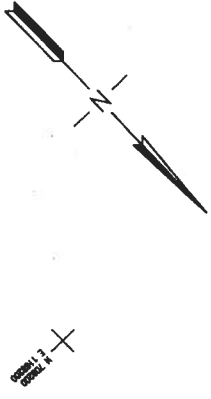
REVISION
DATE: 04/07/03
BY: JLN

APPROVED
CHIEF ENGINEER - DATE 04/07/03
PROJECT ENGR. - DATE 04/07/03

CHECKED BY - DATE 04/07/03
SIGNED - DATE 04/07/03

MARSHALL AVE. AUTO FACILITY
MAXWELL WAY SITE
STORM DRAINAGE PLAN

SHEET 6 OF 17
C4
EP-5574-20



TEMPORARY EROSION AND SEDIMENT CONTROL

SCALE 1"=50'

NOTES:

1. REFER TO DRAWING C6 FOR STANDARD EROSION CONTROL NOTES AND DETAILS.
2. EXISTING FENCE POSTS AND MESH MAY BE REUSED IF SUITABLE. PROVIDE NEW FILTER FABRIC AT ALL LOCATIONS.
3. ALL NEW STORM DRAINAGE STRUCTURES ARE TO BE PROTECTED PER DETAIL 3/08 UNTIL SITE IS PAVED.

PORT OF TACOMA P.O. BOX 1837
TACOMA, WA 98401 253-383-5841

MOFFATT & NICHOL
ENGINEERS
710 2nd Ave, STE 720 - Seattle, WA 98104
PH 206-622-0222, FAX 206-622-4764

REVISION
DATE: 04/07/03
BY: [Signature]



APPROVED
[Signature]
CHIEF ENGINEER - DATE 04/07/03
PROJECT ENGR. - DATE 04/07/03
CHECKED BY - DATE 04/07/03
JNR

PORT ADDRESS: 1800 Port of Tacoma Road
PORT PARCEL: 30
DRAWING DATE: 04/07/03
DRAWING SCALE: 1"=50'

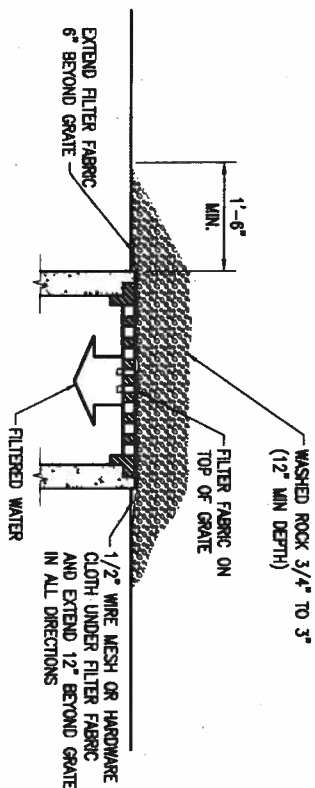
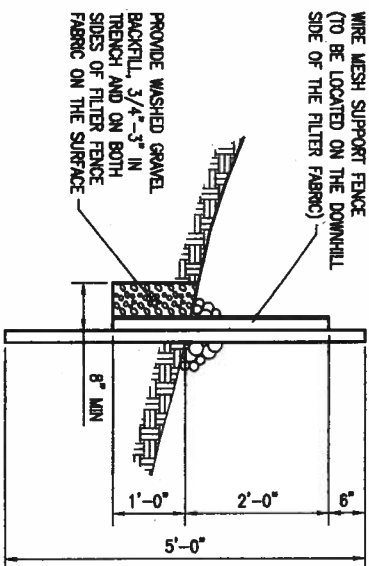
MARSHALL AVE. AUTO FACILITY
MAXWELL WAY SITE
TEMPORARY EROSION AND
SEDIMENT CONTROL PLAN

SHEET 7 OF 17
C5
EP-5574-20

CONTRACT NUMBER: 99B147
PHASE: FINAL

FILE

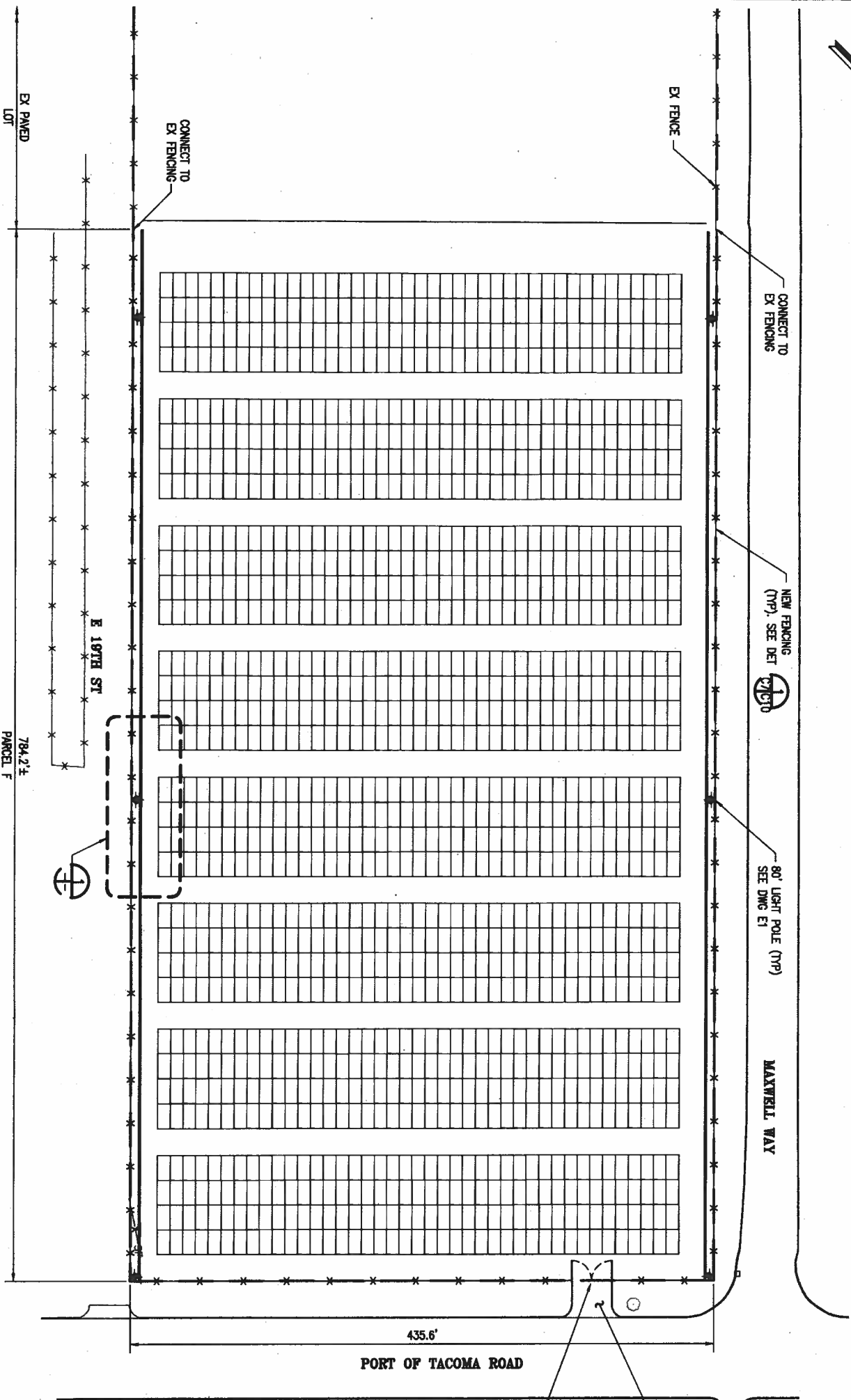
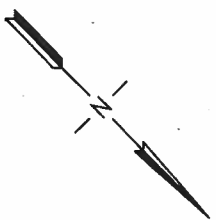
1. WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING IS USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED, IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ABOVE NOTES APPLYING.
2. FILTER FABRIC FENCES SHALL NOT BE REMOVED BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
3. FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
4. **MESH PROTECTION**
5. PLACE WIRE MESH OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. USE HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENINGS. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, OVERLAP THE STRIPS. PLACE FILTER FABRIC OVER WIRE MESH.
6. PLACE 3/4" INCH GRAVEL OVER THE WIRE MESH. THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. EXTEND THE STONE BEYOND THE INLET OPENING AT LEAST 16 INCHES ON ALL SIDES.
7. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT, THE STONES MUST BE PULLED AWAY FROM THE INLET AND CLEANED OR REPLACED.
8. **CONSTRUCTION ENTRANCES**
9. MATERIAL SHALL BE 4 INCH TO 8 INCH QUARRY SPALLS (4 TO 6 INCH FOR RESIDENTIAL SINGLE FAMILY LOTS) AND MAY BE TOP-DRESSED WITH 1 INCH TO 3 INCH ROCK. (STATE STANDARD SPECIFICATIONS, SECTION 8-15).
10. THE ROCK PAD SHALL BE AT LEAST 12 INCHES THICK AND 50 FEET LONG (20 FEET FOR SITES WITH LESS THAN 1 ACRE OF DISTURBED SOIL). WIDTH SHALL BE THE FULL WIDTH OF THE VEHICLE. INGRESS AND EGRESS AREA, SMALLER PADS MAY BE APPROVED FOR SINGLE-FAMILY RESIDENTIAL AND SMALL COMMERCIAL SITES.
11. ADDITIONAL ROCK SHALL BE ADDED PERIODICALLY TO MAINTAIN PROPER FUNCTION OF THE PAD.
12. IF THE PAD DOES NOT ADEQUATELY REMOVE THE MUD FROM THE VEHICLE WHEELS, THE WHEELS SHALL BE HOSED OFF BEFORE THE VEHICLE ENTERS A PAVED STREET. THE WASHING SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK AND WASH WATER SHALL DRAIN TO A SEDIMENT RETENTION FACILITY OR THROUGH A SILT FENCE.
13. 
14. THE ENTRANCE SHALL BE MAINTAINED TRACKING OR FLOW OF MUD ONTO P. PERIODIC TOP DRESSING WITH 2" STONE AND/OR CLEANOUT OF ANY STRUCTURAL MATERIALS SPILLED, DROPPED, WASHED
15. TEMPORARY CONSTRUCT
ENTRANCE DETAIL
16. SCALE: 1" = 1'-0"


$$\frac{2}{C5|C6}$$

3

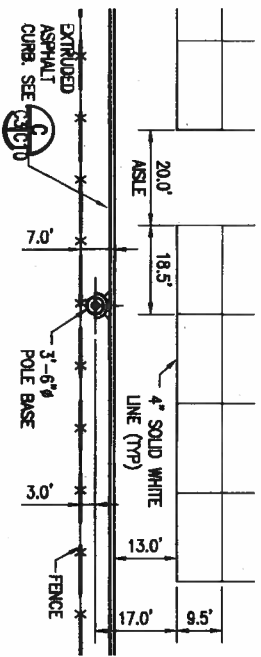
EP-5574-2
C6
EET 8 OF
ACT NUMBER: 98
SER: 2157
FINAL

DRAWING DATE: 04/07/03		PORT ADDRESS: 1800 Port of Tacoma Road	
10 Mar 03		PORT ADDRESS: 1800 Port of Tacoma Road	
CHIEF ENGINEER - DATE		PROJECT ENGR. - DATE	
M. J. Jones		SLG	
04/07/03		04/07/03	
CHECKED BY - DATE		JNR	
04/07/03		04/07/03	



STRIPING AND FENCING
PLAN

SCALE: 1"=50'



STRIPING LAYOUT DETAIL

SCALE: 1"=20'



PORT OF TACOMA P.O. BOX 1837
TACOMA, WA 98401 253-383-5841

MOFFATT & NICHOL
ENGINEERS
710 2nd Ave., STE. 720 - Seattle, WA 98104
PH 206-822-0222, FAX 206-822-4764

DATE: 04/07/03

REVISION

MARK



APPROVED

CHIEF ENGINEER - DATE 04/07/03

PROJECT ENGR. - DATE 04/07/03

CHECKED BY - DATE 04/07/03

JNR

PORT ADDRESS: 1800 Port of Tacoma Road

PORT PARCEL: 30

DRAWING DATE: 04/07/03

10/10/03

10/10/03

10/10/03

MARSHALL AVE. AUTO FACILITY
MAXWELL WAY SITE
STRIPING AND FENCING PLAN

PORT OF TACOMA
USA

710 2nd Ave, SITE 720 - Seattle, WA 98104
PH 206-622-0222, FAX 206-622-4764

REASON
DATE

REVISION
DATE

MOFFATT & NICHOL
TACOMA, WA 98401 253-983-6541
P.O. BOX 1837

ENGINEERS

APPROVED	CHIEF ENGINEER - DATE 10/10/03
PROJECT ENGR. - DATE 04/07/03	CHECKED BY - DATE 04/07/03
JNR	SLG
PROJECT ENGR. - DATE 04/07/03	CHECKED BY - DATE 04/07/03

DRIVING DATE: 04/07/03
PORT ADDRESS: 1800 Port of Tacoma Road
PORT PARCEL: 30

TOWNSHIP: 21N RANGE: 3E SECTION: 34-35
DATE: HORZ: NAD 83/91 VERT: MLTW
DRAWING SCALE: AS SHOWN

PHASE: FINAL
CONTRACT NUMBER: 996147
SHEET 10 OF 17

MARSHALL AVE. AUTO FACILITY
STORM DRAIN DETAILS

EP-5574-20
C8

PLAN

ISOMETRIC

SIDE VIEW

NOTE:

1. THIS DEBRIS BARRIER IS FOR USE OUTSIDE ROADWAYS ON PIPES 36" AND SMALLER.
2. ALL STEEL PARTS MUST BE GALVANIZED AND ASPHALT COATED. (TREATMENT 1 OR BETTER).
3. OPEN-SMOOTH INTERIOR PIPE REQUIRES BOLTS TO SECURE DEBRIS BARRIER TO PIPE.
4. 1" SHALL BE TWICE THE DIAMETER OF THE PIPE.

DETAIL 4
TRASH RACK

NO SCALE

DETAIL 2
SEPARATOR SHIELD/OVERFLOW

NO SCALE

SECTION
SEPARATOR/RESTRICTOR

NO SCALE

DETAIL 1
ANCHOR BOLT

NO SCALE

MANHOLE #3 PLAN

NO SCALE

SECTION
STRUCTURE MH3

NO SCALE

SECTION OIL/WATER
SEPARATOR BYPASS

NO SCALE

FLOW CONTROL STRUCTURE NOTES:

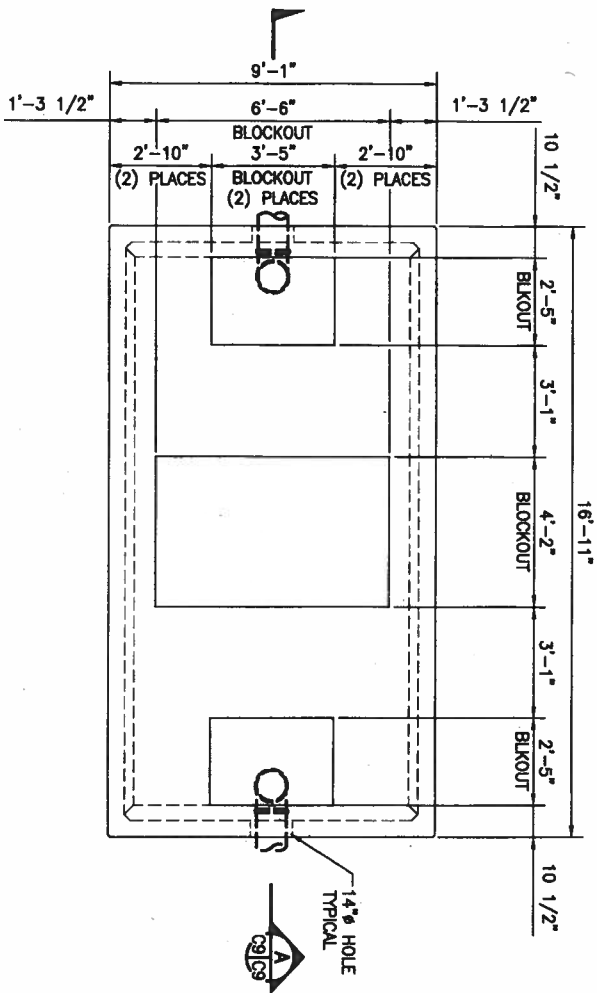
1. EXCEPT AS SHOWN OR NOTED, UNITS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS FOR WSDOT CATCH BASIN TYPE 2, 72" DIAMETER.
2. PIPE SUPPORTS AND RESTRICTOR/SEPARATOR SHALL BE OF THE SAME MATERIAL, AND BE ANCHORED AT 3' MAXIMUM SPACING BY 5/8" DIA. STAINLESS STEEL EXPANSION BOLTS OR EMBEDDED 2" IN WALL.
3. THE RESTRICTOR/SEPARATOR SHALL BE FABRICATED FROM .060" ALUMINUM, OR .064" ALUMINIZED STEEL, OR .064" GALVANIZED STEEL PIPE, IN ACCORDANCE WITH ASHTO M 38, M 198, AND M 274. GALVANIZED STEEL SHALL HAVE TREATMENT 1.
4. FRAME AND LADDER OR STEPS ARE TO BE OFFSET SO THAT:
A. CLEANOUT GATE IS VISIBLE FROM TOP.
B. CLIMB-DOWN SPACE IS CLEAR OF RISER AND GATE.
C. FRAME IS CLEAR OF CURB (IF ANY EXISTS).
5. RESTRICTOR PLATES WITH ORFICE AS SPECIFIED.
SPECIFIED OPENING TO BE CUT ROUND AND SMOOTH.
6. CLEANOUT/SHEAR GATE:
-ALUMINUM ALLOY PER ASTM B-26-26-32A OR CAST IRON ASTM A48 CLASS 30B AS REQUIRED.
-LIFT HANDLE EITHER SOLID OR TUBING WITH ADJUSTABLE HOOK AS REQUIRED.
-NEOPRENE RUBBER GASKET REQUIRED BETWEEN RISER MOUNTING FLANGE AND GATE FLANGE.
-MATING SURFACES OF LD AND BODY TO BE MACHINED FOR PROPER FIT.
-FLANGE MOUNTING BOLTS SHALL BE 3/8" DIAMETER STAINLESS STEEL.
7. GASKETS SHALL BE INSTALLED BETWEEN PLATES AND WALL OF MANHOLE MOUNTING. GASKETS SHALL BE 1/8" THICK AND CONFORM TO ASTM C884.

NOTES:

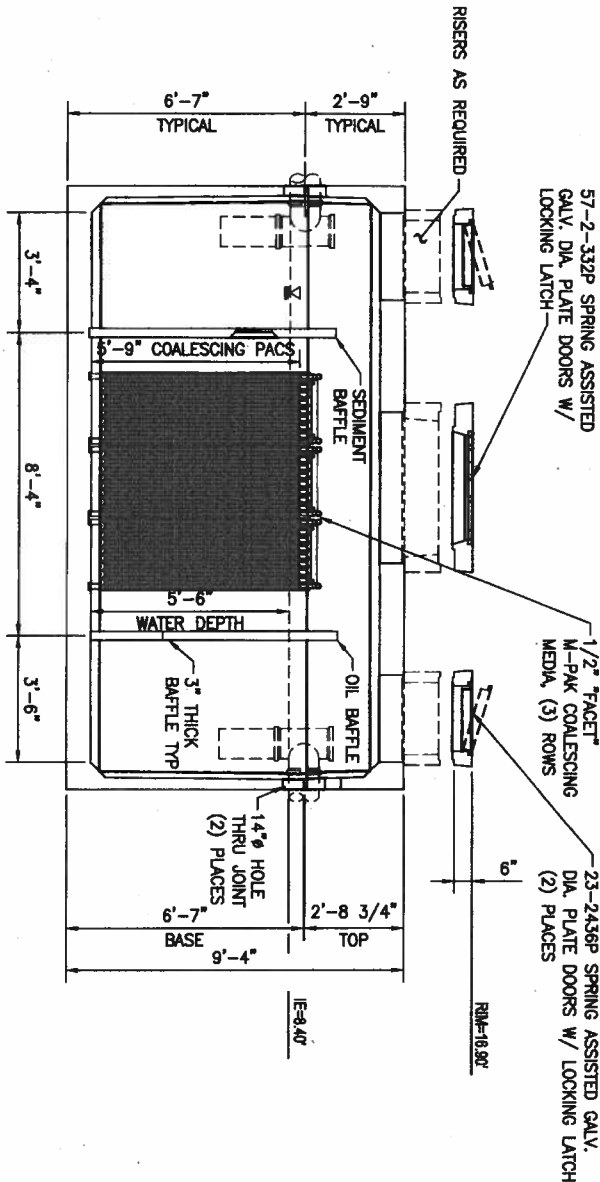
1. PLACE ALL GASKETS IN 3/8" x 3" RECESSES IN KEYWAYS. PLACE 1" WIDE GASKET VERTICALLY BETWEEN WALLS. PLACE 1 1/2" WIDE GASKET AT TOP & BOTTOM OF WALLS.

OIL/WATER SEPARATOR NOTES:

1. OIL/WATER SEPARATOR SHOWN IS BY UTILITY VAULT COMPANY (800)892-1538. CONTRACTOR MAY SUBMIT ALTERNATE MEETING OR EXCEEDING DIMENSIONS SHOWN AND THE FOLLOWING STRUCTURAL REQUIREMENTS:
 - A. CONCRETE: 28 DAY COMPRESSIVE STRENGTH f'_c = 8000 psi
 - B. REBAR: ASTM A-615 GRADE 60
 - C. MESH: ASTM A-185 GRADE 65
 - D. DESIGN: ACI-318-89 BUILDING CODE
 - E. LOADS:
 - ASTM C-880 MINIMUM STRUCTURAL DESIGN LOADING FOR MONOLITHIC OR SECTIONAL PRECAST CONCRETE WATER AND WASTEWATER STRUCTURES* 30K IMPACT FOR LESS THAN 3 FT. SOIL COVER
 - SOIL DENSITY 120 pcf
 - 40 pcf E.F.P. LATERAL SOIL PRESSURE ABOVE WATER TABLE
 - 80 pcf E.F.P. LATERAL SOIL PRESSURE BELOW WATER TABLE
 - 80 pcf LIVE LOAD SURCHARGE
 - NO LIVE LOAD SURCHARGE FOR SOIL COVER > 8'-0"
 - TOP OF VAULT 2'-6 1/2" BELOW FINISHED GRADE
 - WATER TABLE 8'-0" BELOW FINISHED GRADE



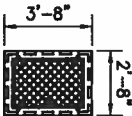
OIL WATER SEPARATOR PLAN
NO SCALE



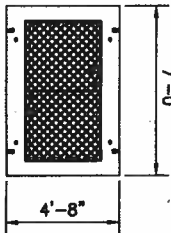
SECTION
NO SCALE



- PANEL DETAILS
- (1) TOP: = 40,300 lbs
 - (2) END WALLS: (1) 'E1' (1) 'E2' = 15,300 lbs
 - (2) SIDE WALLS: (1) 'S1' (1) 'S2' = 26,000 lbs (eo)
 - (2) BASE: = 43,500 lbs



PLAN VIEW
23-2436P



PLAN VIEW
57-2-332P-A1

PORT OF TACOMA
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710 2nd Ave., STE 720 - Seattle, WA 98104
ENGINEERS
MOFFATT & NICHOL



APPROVED
CHIEF ENGINEER - DATE
PROJECT ENGR. - DATE
CHECKED BY - DATE
JNR 04/07/03
SLG 04/07/03

MARSHALL AVE. AUTO FACILITY
MAXWELL WAY SITE
STORM DRAIN DETAILS

EP-5574-20
C9
SHEET 11 OF 17
CONTRACT NUMBER: 988147
PHASE: FINAL

PORT OF TACOMA
U.S.A.

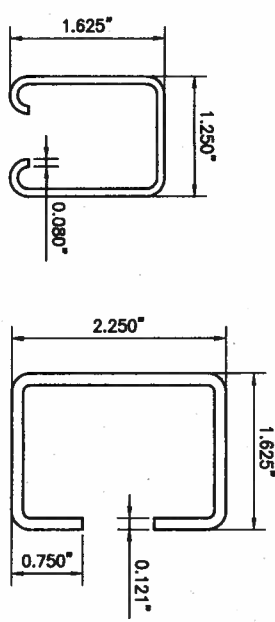
PORT OF TACOMA P.O. BOX 1837
TACOMA, WA 98401 253-383-5841

MORFITT & NICHOL
ENGINEERS
710 2nd Ave., Ste. 720 - Seattle, WA 98104
PH 206-622-0222, FAX 206-622-4764

REVISION
BY:
DATE:
DRAWING DATE: 04/07/03
PORT ADDRESS: 1800 Port of Tacoma Road
PORT PARCEL: 30

APPROVED
4/10/03
H. J. JONES
CHIEF ENGINEER - DATE
10 Mar 03
DRAIVING DATE: 04/07/03
JNR 04/07/03
CHECKED BY - DATE
SLG 04/07/03
PROJECT ENGR - DATE

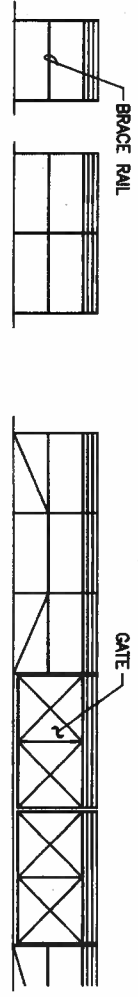
MARSHALL AVE. AUTO FACILITY
MISCELLANEOUS SITE
DETAILS AND SECTIONS
EP-5574-20
C10
SHEET 12 OF 17
CONTRACT NUMBER: 99B147
E NUMBER: 2157
PHASE: FINAL



TYPE II
TOP & BRACE RAIL
HEAVY 'C'
LINE POST

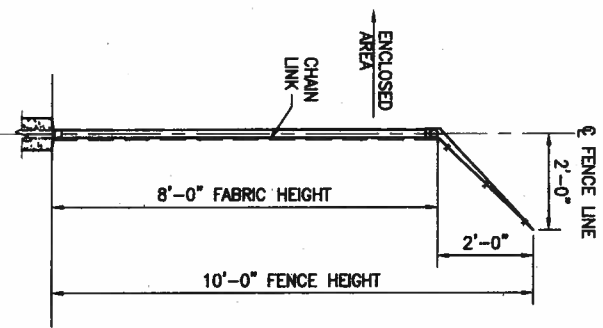
"C" SECTION SPECIFICATIONS				
ITEM	WEIGHT PER FT GALVANIZED	SECTION MODULUS (IN3 ON CRT. AXIS)	MIN YIELD STRENGTH (PSI)	BENDING STRENGTH (LB IN)
HEAVY "C" LINE POST	2.78	0.508	45,000	19,600
TYPE II TOP & BRACE RAIL	1.35	0.165	45,000	7,100

ALT. BRACE AND POST DETAILS



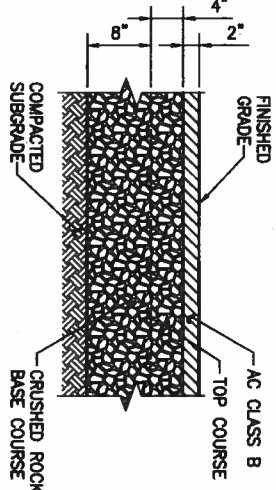
BRACING DETAILS

C10C10



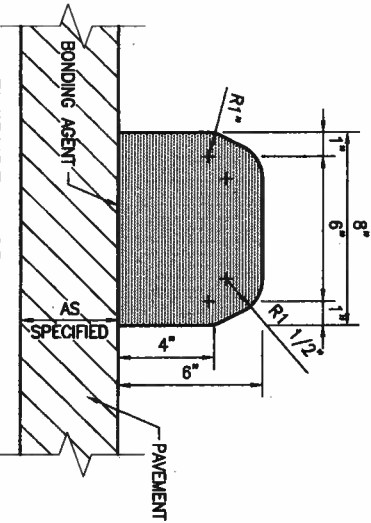
TYPICAL FENCE SECTION

C7C10



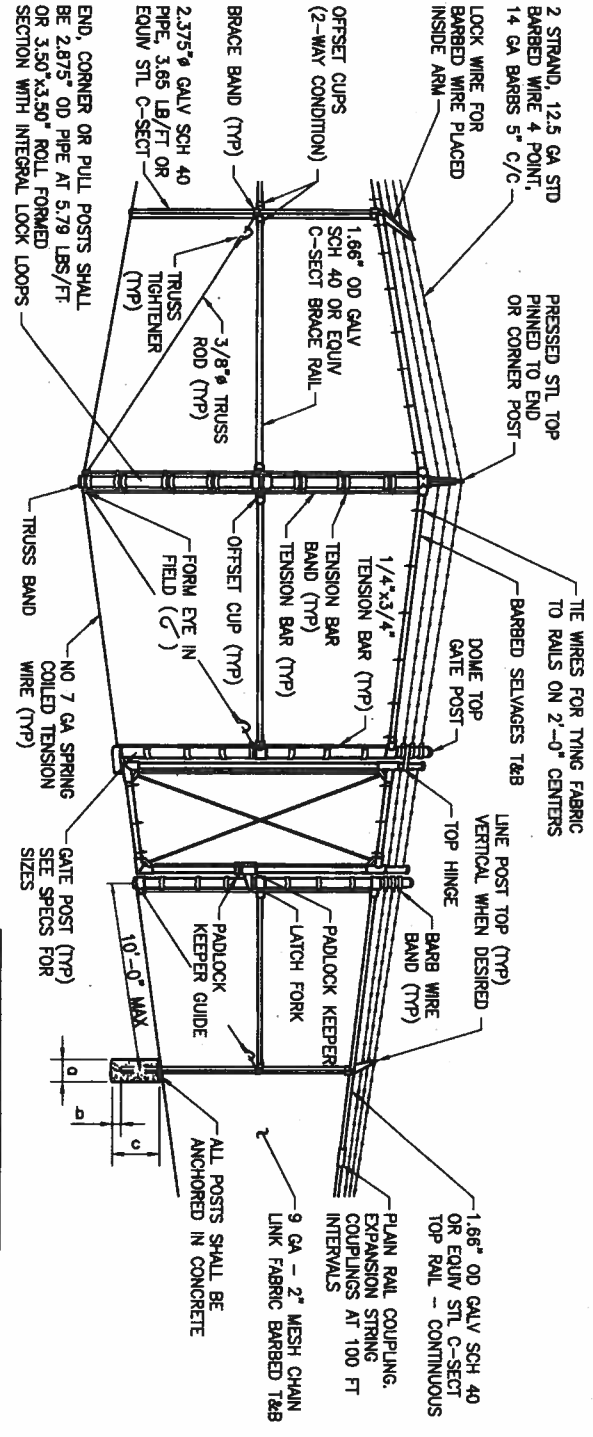
TYPICAL PAVING SECTION

C3C10



EXTRUDED ASPHALT CURB SECTION

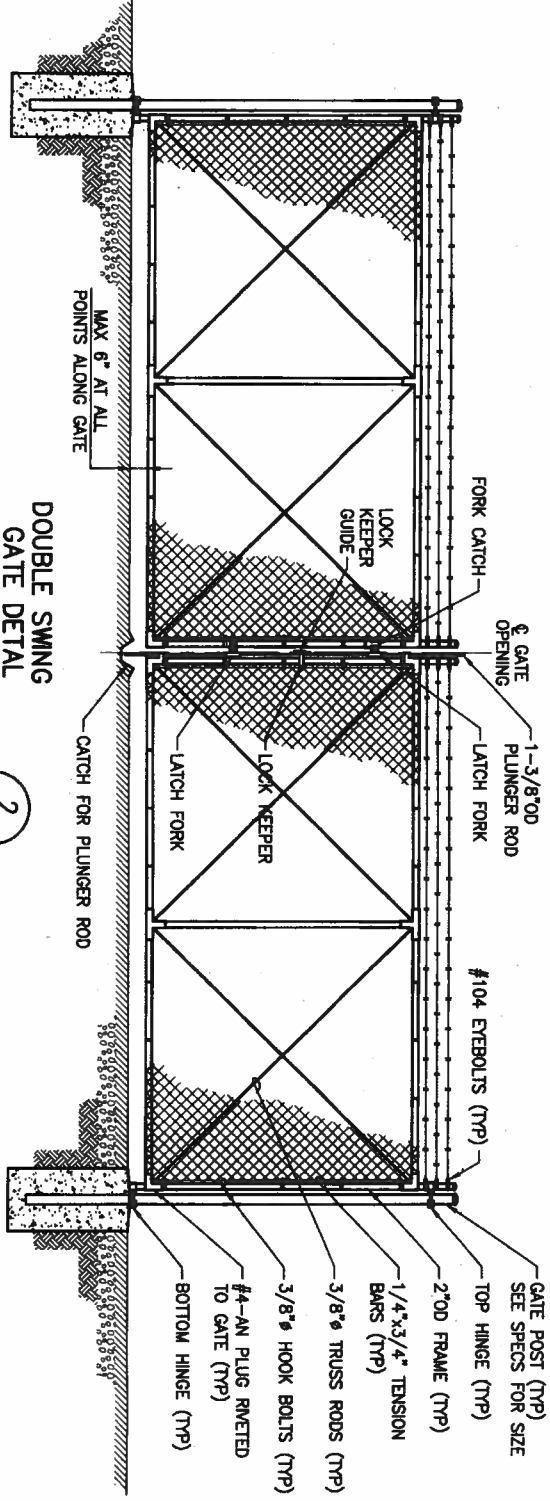
C3C10



TYPICAL FENCE PERSPECTIVE

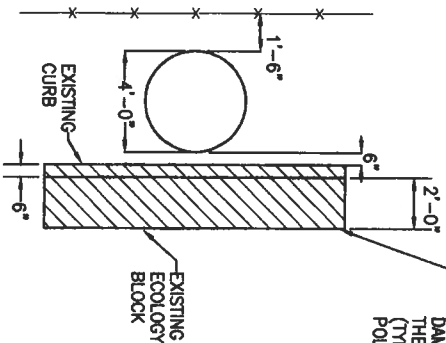
C7C10

CONCRETE FOUNDATION DIMENSIONS			
LOCATION	a	b	c
CORNER	12"	6"	4'-6"
END	12"	6"	4'-6"
GATE	18"	6"	4'-6"
OTHER	10"	6"	3'-8"



DOUBLE SWING GATE DETAIL

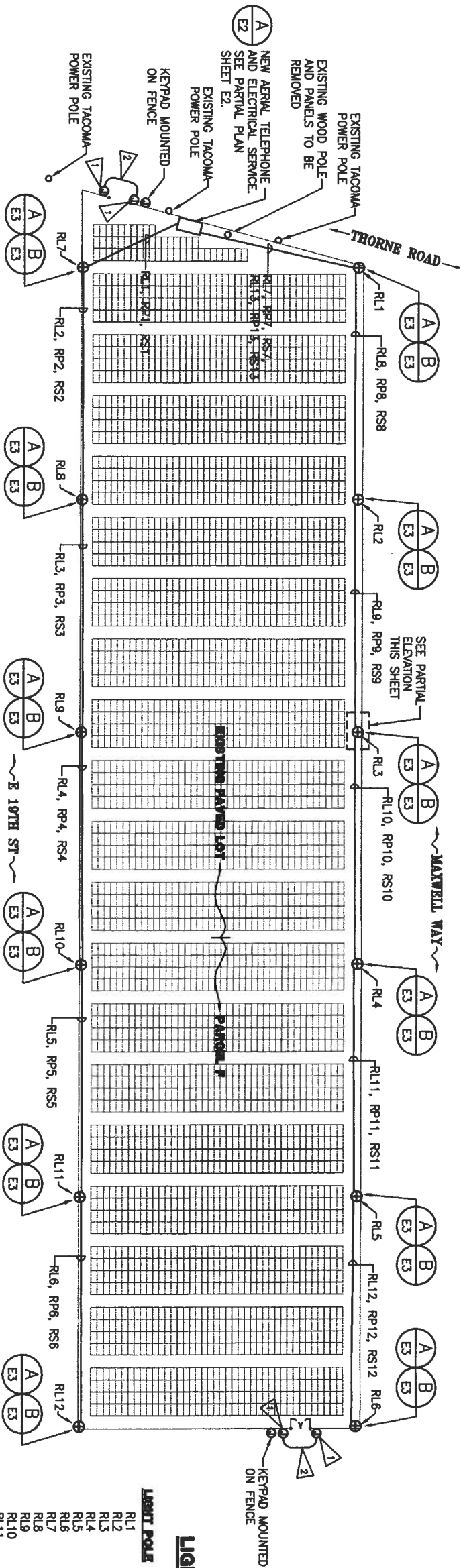
C7C10



REMOVAL AND REPLACEMENT OF EXISTING CURB AND ECOLOGY BLOCK WILL BE REQUIRED FOR INSTALLATION OF POLE BASE. CONTRACTOR SHALL REPLACE ANY DAMAGED PAVEMENT OR FENCING AS A RESULT OF THE CONSTRUCTION ACTIVITY TO MATCH EXISTING. (TYPICAL OF RL1, RL2, RL3, RL7, RL8, AND RL9 POLE LOCATIONS)

PARTIAL ELEVATION PLAN

SCALE: NOT TO SCALE



LIGHT POLE LOCATIONS

LIGHT POLE	NORTHING	EASTING
RL1	708404.3	1167808.9
RL2	708681.9	1167858.6
RL3	708920.6	1168108.7
RL4	709178.0	1168358.2
RL5	709436.4	1168608.7
RL6	709691.2	1168857.2
RL7	708105.8	1167917.5
RL8	708363.1	1168166.9
RL9	708621.0	1168417.5
RL10	708879.6	1168667.5
RL11	709137.2	1168917.3
RL12	709392.8	1169164.7

GENERAL NOTES

1. REFER TO ELECTRICAL DRAWINGS FOR EXACT LOCATION OF ALL LIGHT POLES AND EQUIPMENT. DO NOT SCALE ELECTRICAL DRAWINGS.
2. THERE IS ADDITIONAL DEMOLITION AND NEW ELECTRICAL WORK SHOWN ON THE CIVIL DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS. CONTRACTOR SHALL REVIEW ALL DRAWINGS, SPECIFICATION SECTIONS AND INCLUDE ALL WORK IN BID.
3. SEE SHEET E2 FOR CONDUIT AND CONDUCTOR SCHEDULE. COUPLINGS AND JOINTS OF CONDUITS EMBEDDED IN CONCRETE SHALL BE TAPED OR OTHERWISE MADE WATERTIGHT TO PREVENT INTRUSION OF MORTAR OR OTHER OBSTRUCTIONS. TEST CONDUIT FOR ABSENCE OF ANY BLOCKAGE WITHIN 24 HOURS OF COMPLETING THE CONCRETE POUR.
4. CONTRACTOR SHALL INCLUDE IN THE BID, COST FOR LIGHTING CONTROL COMMISSIONING. CONTRACTOR SHALL PROVIDE THE OWNER A COMPLETE REPORT OF TEST PROCEDURES AND RESULTS INDICATING ALL LIGHTING CONTROLS HAVE BEEN TESTED, ADJUSTED AND OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS PER THE TACOMA ENERGY CODE, SECTION 15317.7.
5. CONTRACTOR SHALL CONTACT TACOMA POWER, QWEST AND CLACK TO PROVIDE THEIR SERVICES TO THE SITE. INCLUDE COSTS FOR THESE SERVICES IN THE BID.

ELECTRICAL NOTES

1. PROVIDE 8" x 8" x 4" CAST PULL BOX WITH SCREW COVER SECURELY MOUNTED TO THE FENCE. PROVIDE WITH TAMPER-PROOF STAINLESS STEEL SCREWS. COORDINATE EXACT LOCATION WITH SECURITY CONTRACTOR.
2. PROVIDE 1" SCHEDULE 80 PVC CONDUIT BETWEEN PULL BOXES LOCATED ON EITHER SIDE OF ENTRY GATE. COORDINATE EXACT LOCATION WITH SECURITY CONTRACTOR.

PORT OF TACOMA TACOMA, WA 98401 P.O. BOX 1837 253-383-6841		HULTZ & BHU CONSULTING ENGINEERS, INC. 2407 North 31st Street Tacoma, WA 98407 - (253) 789-0118	REVISION DATE:
---	--	---	-------------------



APPROVED CHIEF ENGINEER - DATE PROJECT ENGR - DATE	CHECKED BY - DATE
--	-------------------

MARSHALL AVE. AUTO FACILITY ELECTRICAL SITE PLAN		TOWNSHIP: 14N RANGE: 3E SECTION: 34-35 DATUM: HORIZ: NAD 83/91 VERT: MLLW DRAWING SCALE:
SHEET 13 OF 17 E1 EP-5674-20		CONTRACT NUMBER: 998147 E NUMBER: 2157 PHASE: FINAL

PORT OF TACOMA
U.S.A.

PORT OF TACOMA P.O. BOX 1837
TACOMA, WA 98401 253-383-6841

HULTZ & BHU + CROSS

consulting engineers, inc.
2407 North 31st Street
Tacoma, WA 98407 - (253) 788-0118

MARK

REVISION

DATE

BY

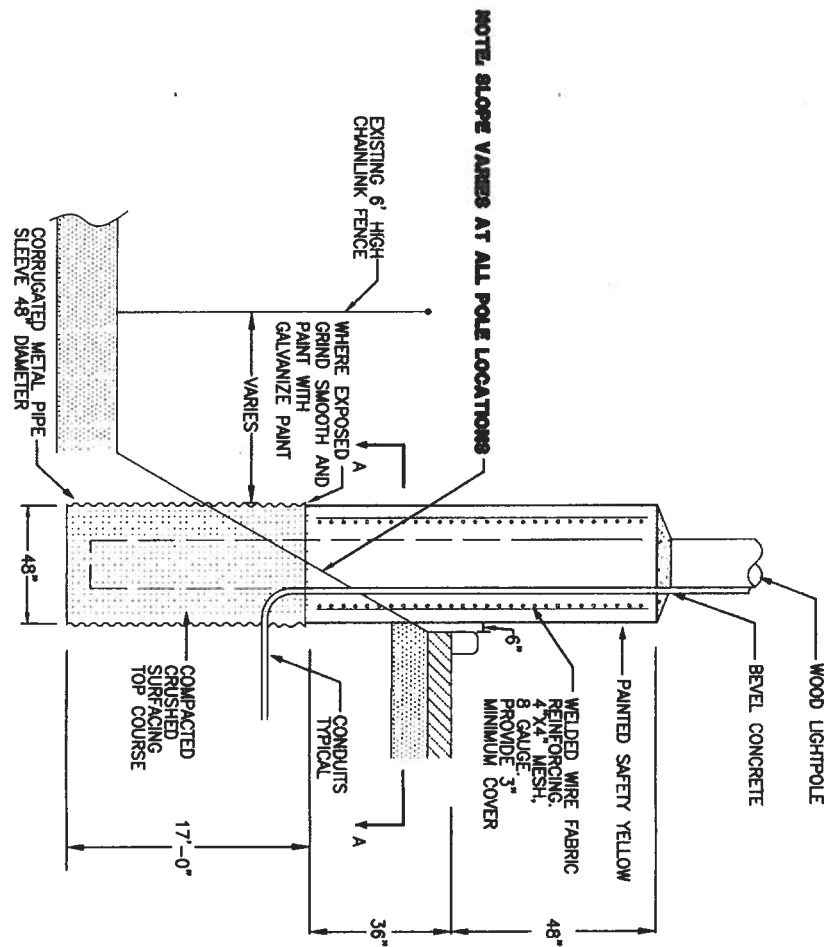
APPROVED



APPROVED	CHIEF ENGINEER - DATE <i>H. H. Hays</i>
CHECKED BY - DATE	PROJECT ENGR. - DATE

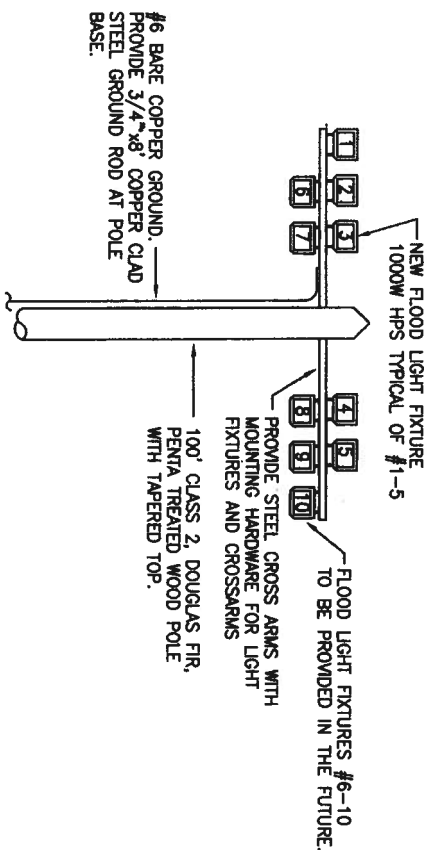
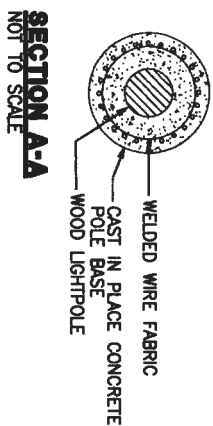
TOWNSHIP: LIN. RANGE: 3E. SECTION: 34-35
DATUM: HORIZ: NAD 83/91 VERT: MLLW
DRAWING SCALE: 1" = 10'-0"

MARSHALL AVE. AUTO FACILITY
LIGHT POLE ELEVATIONS
MAXWELL WAY SITE



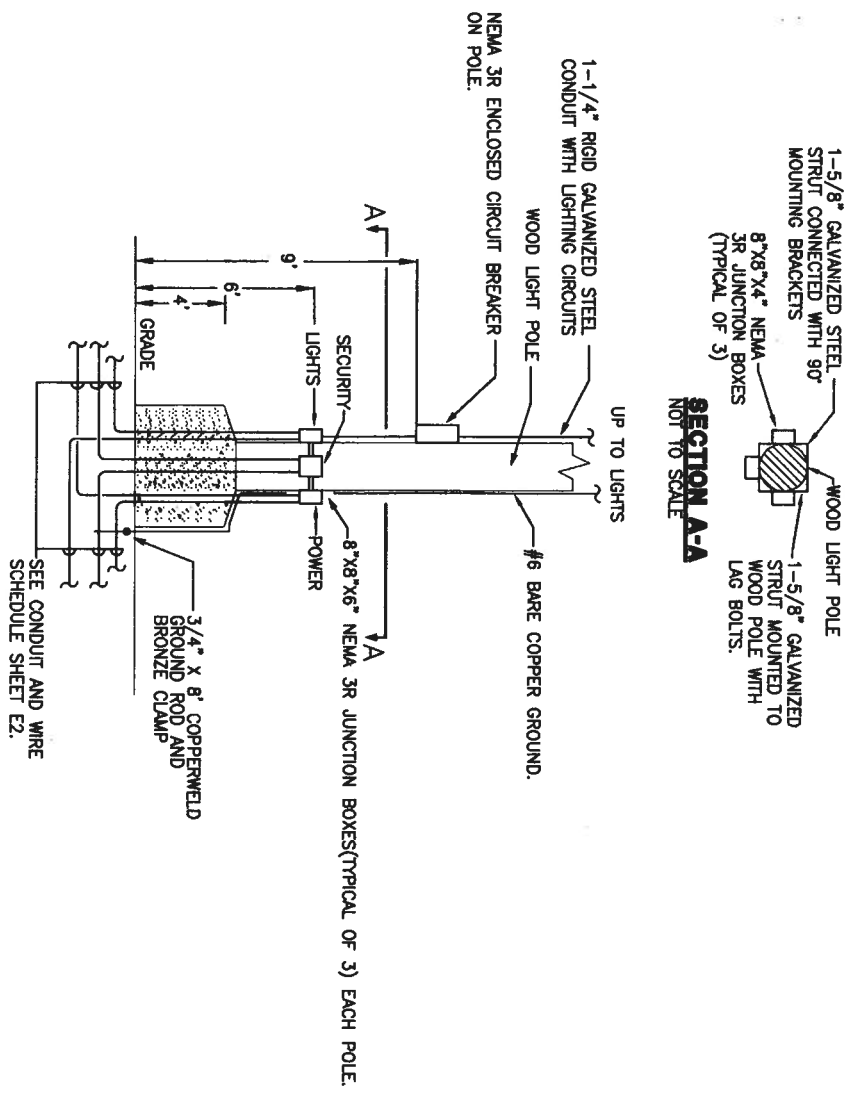
NOTE: SLOPE VARIES AT ALL POLE LOCATIONS

B WOOD LIGHT POLE BASE
E3 NO SCALE

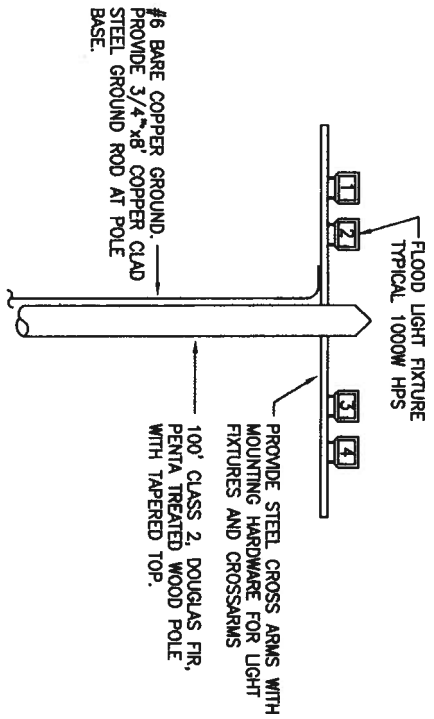


**LIGHTING POLE #2,3,4,5
ELEVATION-REMOTE SITE**
NO SCALE

RL2, RL3, RL4, RL5



A WOOD LIGHT POLE BASE ELEVATION
E3 NO SCALE



**LIGHTING POLE #1,6,7,8,9,10,11,12
ELEVATION-REMOTE SITE**
NO SCALE

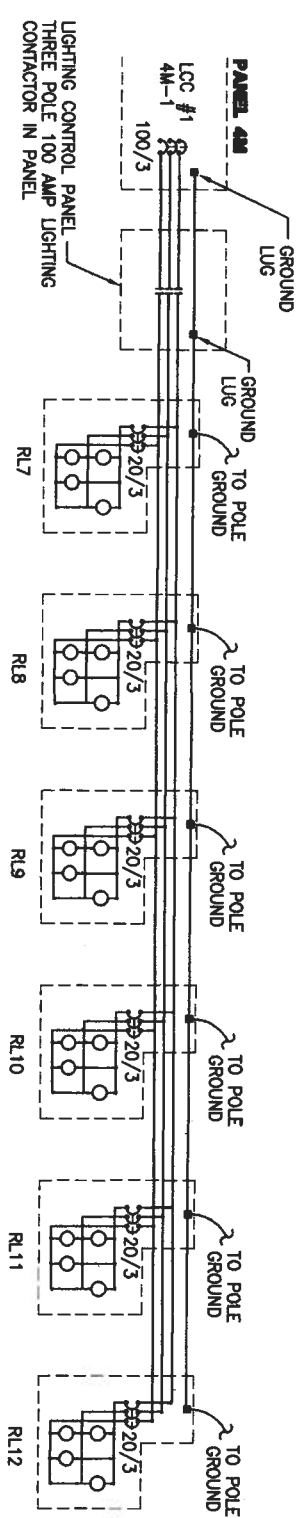
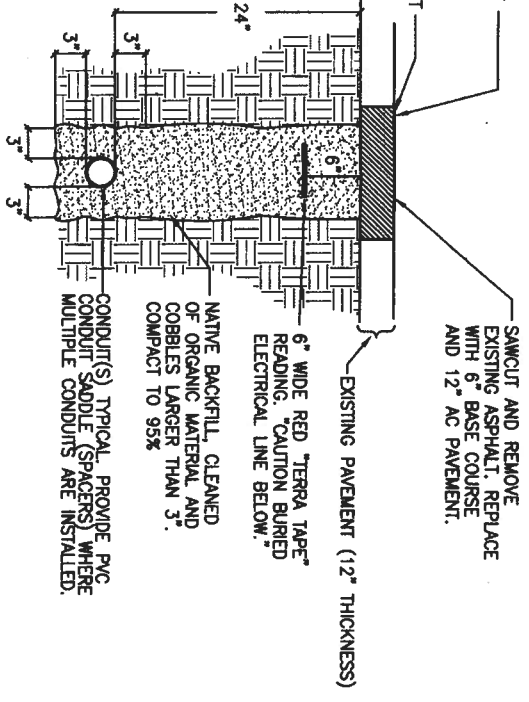
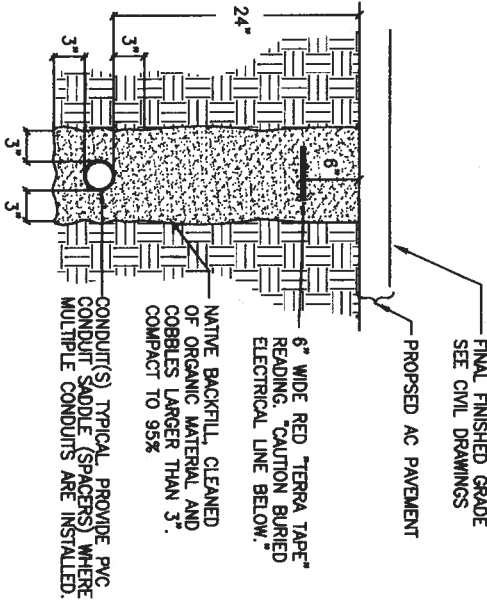
RL1, RL6, RL7, RL8, RL9, RL10, RL11, RL12



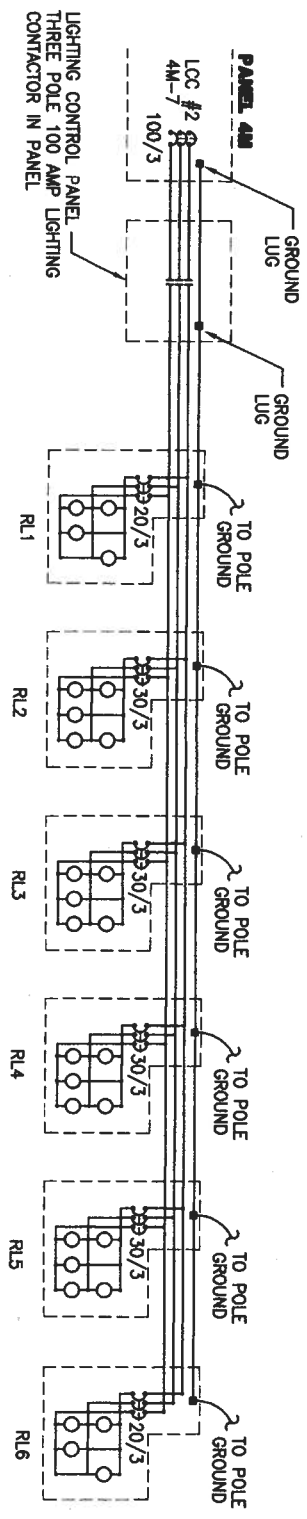
APPROVED: *H. J. Adams*
CHIEF ENGINEER - DATE: 10/1/03
PROJECT ENGR. - DATE: 10/1/03
CHECKED BY - DATE: 10/1/03
PORT ADDRESS: 1800 PORT OF TACOMA ROAD
PORT PARCEL: 30
DRAWING DATE: 4/7/03
TOWNSHIP: UN. RANGE: 3E SECTION: 34-35
DATE: 10/1/03
DRAUGHTSMAN: J. L. WILSON
DRAWING SCALE: 1/8" = 1'-0"

MAXWELL WAY SITE
LIGHTING CONTROL DIAGRAMS

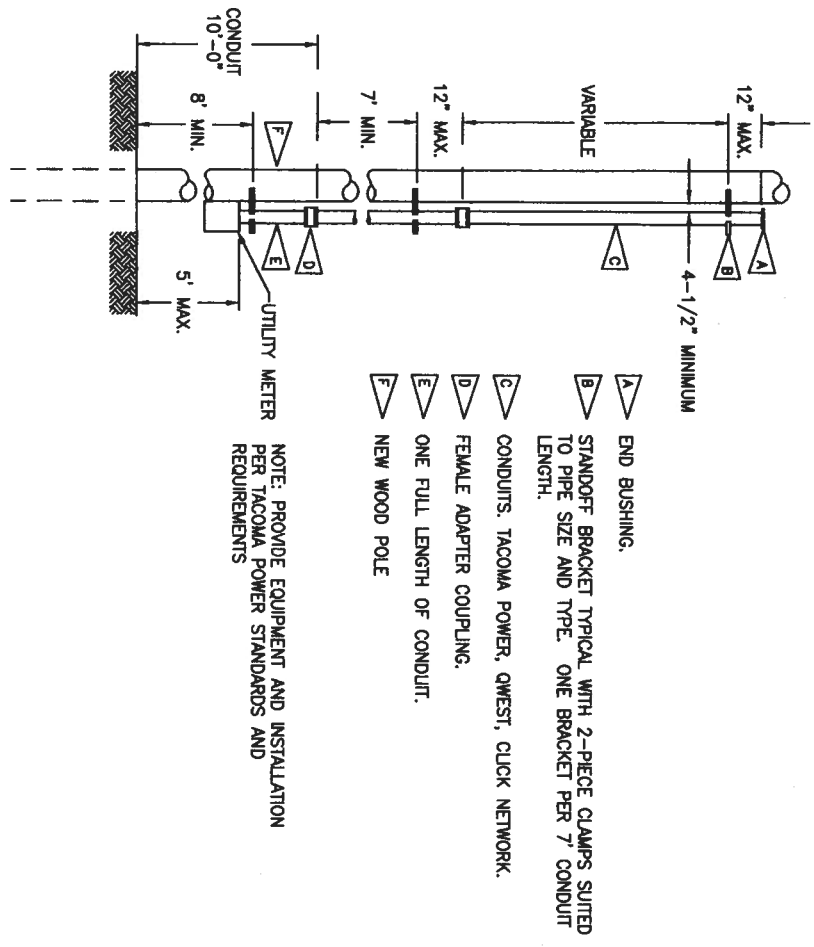
CONTRACT NUMBER: 99B147
SHEET 16 OF 17
PHASE: FINAL



LIGHTING CONTROL CIRCUIT #1 - REMOTE SITE
NO SCALE



LIGHTING CONTROL CIRCUIT #2 - REMOTE SITE
NO SCALE



NEW POLE RISER ASSEMBLY
NOT TO SCALE

EXISTING ASPHALT TYPICAL TRENCH
NOT TO SCALE

TYPICAL NEW AREA 600V OR COMMUNICATIONS
CONDUIT TRENCHING
NOT TO SCALE

PORT OF TACOMA
TACOMA, WA 98401 P.O. BOX 1837
2407 North 31st Street
Tacoma, WA 98407 - (253) 758-0118

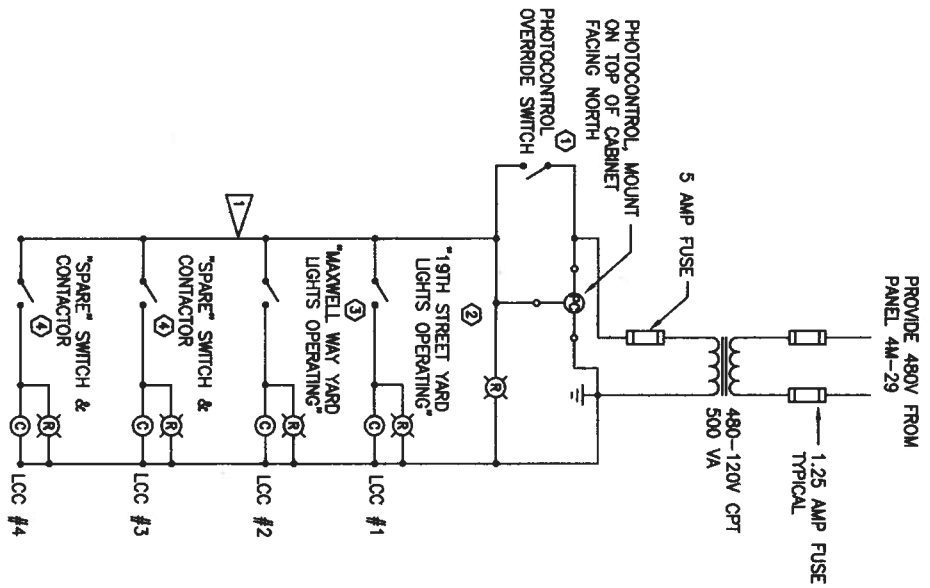
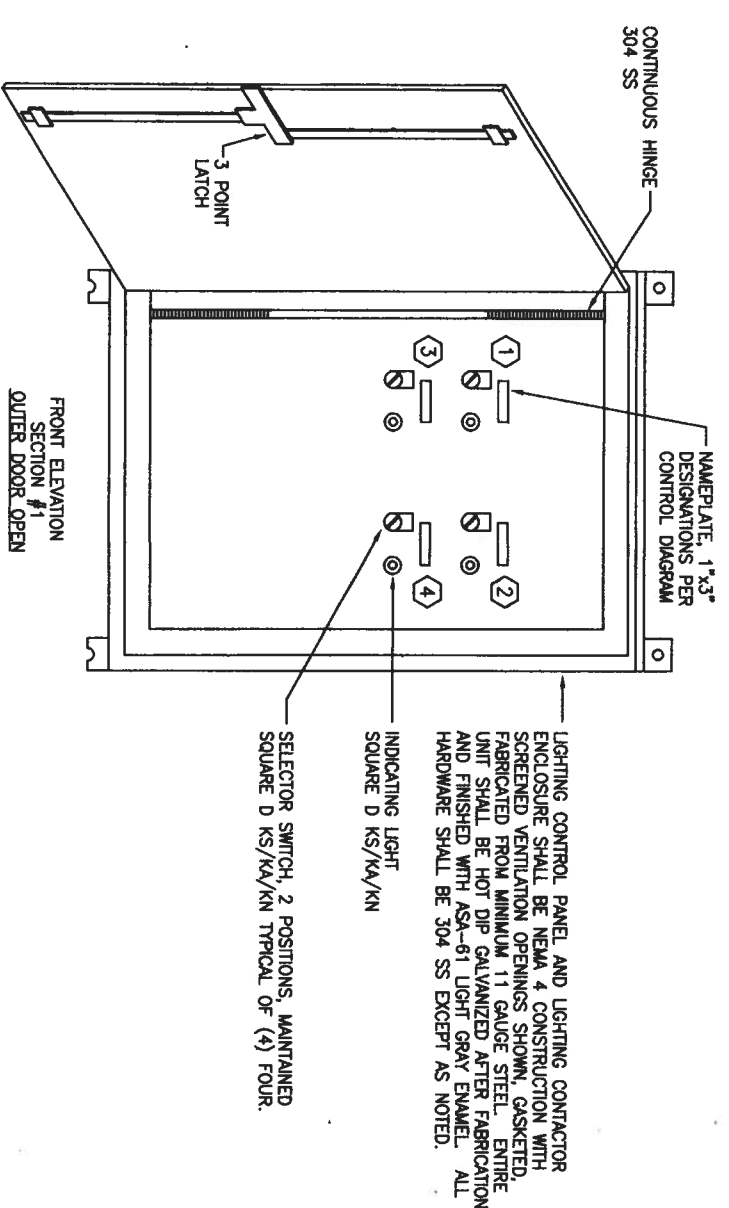
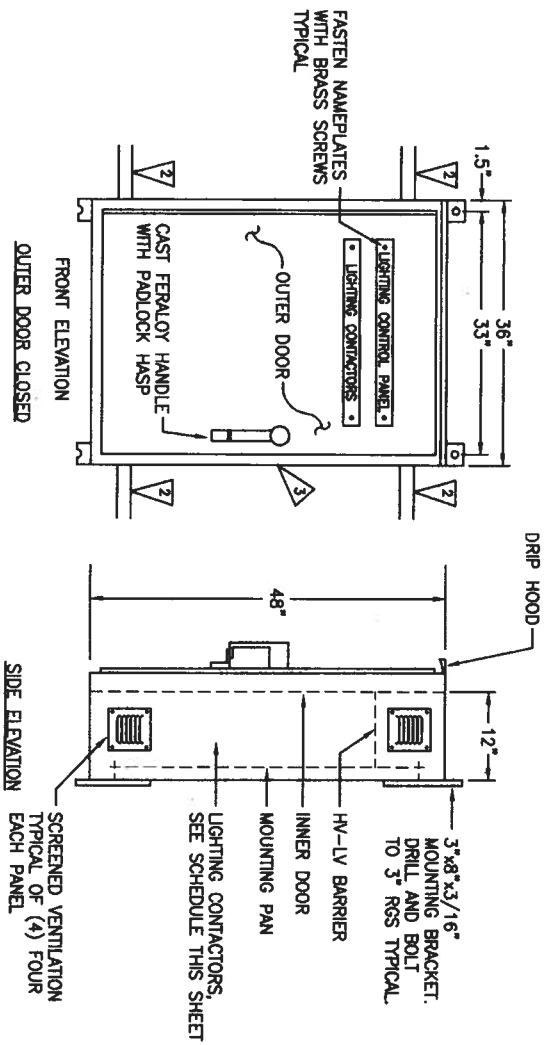
HULTZ + CROSS
consulting engineers, inc.

REVISION	DATE	APPROVED	BY

- ### ELECTRICAL NOTES.

 - PROVIDE PLASTIC WIRE CHANNEL IN CABINET FOR SEPARATION OF POWER AND CONTROL WIRING.
 - MINIMUM 1-1/4" GALVANIZED STEEL STRUT.
 - PROVIDE 250 WATT, 120V HEATER INTEGRAL TO PANEL.
- ### LIGHTING CONTACTOR SCHEDULE (480V)

(1)	100/3P	YARD LIGHTS ALONG 19TH STREET
(1)	100/3P	YARD LIGHTS ALONG MAXWELL WAY
(2)	100/3P	SPARE



LIGHTING CONTROL DIAGRAM
SCALE: NOT TO SCALE

LIGHTING CONTROL PANEL
SCALE: NOT TO SCALE

APPROVED

CHIEF ENGINEER - DATE

PROJECT ENGR - DATE

CHECKED BY - DATE

PORT ADDRESS: 1800 PORT OF TACOMA ROAD

DRAWING DATE: 4/17/03

10/10/03

10/10/03

PORT PARCEL: 30

TOWNSHIP: 14N RANGE: 3E SECTION: 34-35

DRAWING SCALE:

DATE: 4/17/03

CONTRACT NUMBER: 998147

PHASE: FINAL

MARSHALL AVE. AUTO FACILITY

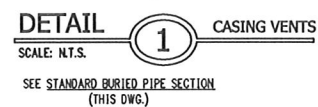
MAXWELL WAY SITE

LIGHTING CONTROL PANEL DETAIL

SHEET 17 OF 17

E5

EP-6674-20



FOR CASING PIPE 3" THRU 10" USE CS ASTM A-53 GR B SMLS (OR EQUIVALENT), SCH PER TABLE
FOR CASING PIPE 12" THRU 30" USE CS ASTM A-53 GR B ERW (OR EQUIVALENT), SCH PER TABLE
RECOMMENDED VENDOR FOR MECHANICAL SEALS, FLEXIBLE END SEALS AND PLASTIC CASING
SPACERS IS PIPELINE SEAL AND INSULATOR, INC. (PSI) / LINK-SEAL.

					0	APPROVED FOR CONSTRUCTION	EW	JLB	6/5/07	
					B	ISSUED FOR PERMIT	JLB	KAM	4/24/07	
					A	ISSUED FOR PERMIT	JLB	KAM	3/27/07	
NO.	REVISION		BY	APPR	DATE	NO.	REVISION	BY	APPR	DATE

 U.S. OIL & REFINING CO.  3001 MARSHALL AVE. TACOMA, WA						DRWN: TRJ
						CHK'D: KAM
SCALE:	DATE:	PROJ.	FILE NUM	DWG. NUM	REV.	APPR'D:
NTS	02/12/07	060403-3	MM08161	MD08161-2	0	APPR'D:

KEYPLAN

DOCK 2

DOCK 1

US OIL

TRUE

PORT

PORT OF TACOMA RD

MAXWELL AVE

LINCOLN AVE

JONES BASIN

STEVEDORING

5TH LINC. AVE

4TH WIRE ROPE

3RD LINC. AVE

5th

LEGEND:

	FENCE
	TELEPHONE AND/OR POWER LINE
	FIRE HYDRANT
	UTILITY POLE

