



**SEWER AND DRAINAGE NOTES**

UNLESS OTHERWISE NOTED:

- DUCTILE IRON PIPE SHALL BE PER ANSI A21.51 CLASS 50 WITH PUSH-ON JOINTS. FITTINGS FOR DUCTILE IRON PIPE SHALL BE DUCTILE PER ANSI A21.10 OR ANSI A21.53 WITH PUSH-ON JOINTS.
- BEDDING SHALL BE CLASS B FOR ALL PIPE EXCEPT DUCTILE IRON PIPE (DIP). DIP SHALL USE CLASS D BEDDING.
- WHERE A NEW PIPE CLEARS AN EXISTING OR NEW UTILITY BY 6" OR LESS, POLYETHYLENE PLASTIC FOAM SHALL BE PLACED AS A CUSHION BETWEEN EACH UTILITY.
- SIDE SEWER CONNECTIONS SHALL BE PLACED AT A MINIMUM SLOPE OF 2% AND A MAXIMUM SLOPE OF 100% (45'). CATCH BASIN CONNECTIONS AND SERVICE DRAINS SHALL BE PLACED AT A MINIMUM SLOPE OF 2% AND A MAXIMUM SLOPE OF 50%. INLET CONNECTIONS SHALL BE PLACED AT A MINIMUM SLOPE OF 5% AND A MAXIMUM SLOPE OF 50%. FOR ALL TEES, THE CENTER POINT OF THE TEE SHALL BE INSTALLED NO LOWER THAN 30' AND NOT HIGHER THAN 45' ABOVE THE SPRING LINE OF THE MAINLINE.
- SERVICE DRAINS AND SIDE SEWERS SHALL BE CONNECTED/RECONNECTED AS APPROVED BY THE ENGINEER.
- RELAY EXISTING SERVICE DRAINS/SIDE SEWERS TO CLEAR OVER OR UNDER THE NEW UTILITY AND NEW IMPROVEMENTS AS APPROVED BY THE ENGINEER. SERVICE DRAINS AND SIDE SEWERS SHALL NOT BE BACKFILLED UNTIL THE PIPE HAS BEEN INSPECTED AND APPROVED AND THE LOCATION AND DEPTH IS RECORDED BY THE ENGINEER.
- TEES ON NEW PIPE SHALL BE PREFABRICATED.
- ALL EXCAVATION ADJACENT TO CITY LIGHT POLES OR OTHER INSTALLATIONS SHALL COMPLY WITH WASHINGTON ADMINISTRATIVE CODE (WAC), SAFETY STANDARD FOR CONSTRUCTION WORK, PART N. SITE SAFETY PROCEDURES AND EXCAVATION PROTECTIVE SYSTEM SHALL SPECIFICALLY COMPLY WITH WAC 296-155-650, EXCAVATION, TRENCHING AND SHORING.
- PVC PIPE AND FITTINGS SHALL BE PER ASTM D 1785, SCH 40 WITH EITHER RUBBER GASKET JOINTS OR SOLVENT WELDED JOINTS. PVC UD PIPES SHALL BE TESTED FOR EXCESSIVE DEFLECTION WITH A MANDREL PER SECTION 7-17.3(4) OF THE SPECIFICATIONS.
- STRUCTURE STATIONING ON PLAN VIEWS MEASURED FROM RIGHT-OF-WAY CENTERLINE TO CENTER OF STRUCTURE.

**DRAINAGE CB AND INLET NOTES**

UNLESS OTHERWISE NOTED:

- CATCH BASIN CONNECTIONS AND INLET CONNECTIONS SHALL BE 8" DIAMETER. PIPE SHALL BE CEMENT MORTAR LINED DUCTILE IRON CLASS 50 (MIN) PER SPECIFICATION 9-05.2. FITTINGS SHALL BE CEMENT MORTAR LINED DUCTILE IRON. JOINTS SHALL BE RUBBER GASKET, PUSH-ON OR MECHANICAL.
- BEDDING SHALL BE CLASS D WITH SELECT NATIVE MATERIAL.
- CATCH BASIN CONNECTIONS SHALL BE PLACED AT A MINIMUM SLOPE OF 2% AND A MAXIMUM SLOPE OF 100% PER STANDARD PLAN NO. 261 AND SPECIFICATION 7-08.3(4).
- INLET CONNECTIONS SHALL BE PLACED AT A MINIMUM SLOPE OF 5% AND A MAXIMUM SLOPE OF 50% PER SPECIFICATION 7-08.3(5).
- CATCH BASINS AND INLETS SHALL BE LOCATED PER STANDARD PLAN NO. 260A AND 260B.
- TELEVISION INSPECTION OF CATCH BASIN CONNECTIONS SHALL BE PER SPECIFICATION 7-17.3(4).
- CONTRACTORS ARE NOT ALLOWED TO CORE INTO MAINS OR STRUCTURES WITHOUT PRIOR APPROVAL FROM SPU. TO SCHEDULE CORE TAPS, CONTACT SPU AT 206-615-0511 A MINIMUM OF 48 HOURS IN ADVANCE. SPU SHALL BE ON SITE PRIOR TO THE START OF CONTRACTOR PERFORMED CORE TAP. CONTRACTORS PERFORMING CORE TAPS SHALL PROVIDE THE COUPON OF REMOVED MATERIAL TO SPU.

**BIORETENTION NOTES**

UNLESS OTHERWISE NOTED:

- BIORETENTION CELLS AND BIORETENTION SOILS SHALL BE PER SPECIFICATION 7-21 WITH GRADING AND BOTTOM AREA AS SHOWN ON THE APPROVED PLAN. IMPORTED BIORETENTION SOIL SHALL BE PER SPECIFICATION 9-14.1(3). BIORETENTION CELLS WITH LESS THAN 3" PONDING MAY AMEND SOILS PER STANDARD PLAN NO. 142 IN PLACE OF USING IMPORTED BIORETENTION SOIL.
- BIORETENTION LANDSCAPING SHALL BE AS SHOWN ON THE APPROVED PLAN. CHANGES TO THE APPROVED LANDSCAPING PLAN REQUIRE SUBMITTAL OF A REVISED LANDSCAPING PLAN.
- PRIOR TO PLANTING, BIORETENTION CELLS AND SOILS SHALL BE INSPECTED AND APPROVED BY A REPRESENTATIVE OF THE CITY OF SEATTLE. ALL SOIL MIX TICKETS SHALL BE SUBMITTED AT OR BEFORE THIS SCHEDULED INSPECTION.
- SUB-SURFACE DRAIN (SSD) PIPE AND FITTINGS, IF REQUIRED, SHALL BE PER STANDARD PLAN NO. 291.

**UNDERDRAIN (UD) NOTES**

UNLESS OTHERWISE NOTED:

- SLOTTED UNDERDRAIN PIPE SHALL BE PER STANDARD PLAN NO 291. PIPE SIZE SHALL BE 8" DIAMETER. EXCEPT WHERE SHOWN ON THE PLAN AS 6", THE SLOT LOCATION AND BEDDING DETAIL PER DETAIL DRAWING.
- SOLID WALL UNDERDRAIN SHALL BE THE SAME MATERIAL AND SIZE AS SLOTTED UD. THE BEDDING SHALL BE MINERAL AGGREGATE TYPE 26 WITH TRENCH SECTION PER COS STD PLAN 284

**LANDSCAPING NOTES**

UNLESS OTHERWISE NOTED:

- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO REQUEST FIELD MARKING OF PLANT MATERIALS (INCLUDING TREES) TO BE REMOVED (48 HOUR NOTICE). ALL PLANT MATERIALS NOT DESIGNATED TO BE REMOVED SHALL BE RETAINED AND PROTECTED. PLANT MATERIAL DESTROYED AND/OR IRREPARABLY DAMAGED DUE TO LACK OF DIRECTION AND/OR LACK OF PROPER CARE BY THE CONTRACTOR SHALL BE REPLACED IN KIND AND/OR EVALUATED TO ASSESS DAMAGE WITH VALUE DEDUCTED FROM THE CONTRACT.

**SURVEY NOTES**

UNLESS OTHERWISE NOTED:

- STATIONING AND OFFSETS ON DRAINAGE PLAN AND PROFILES ARE RELATIVE TO SURVEY MONUMENT ALIGNMENT.
- ALL PROPERTY CORNERS WITHIN THE PROJECT AREA SHALL BE REFERENCED OUT BY A PROJECT LAND SURVEYOR.
- DATUM: NAVD 88 AND NAD83 (1991)

**NON STANDARD ABBREVIATIONS**

BC	BOTTOM OF CURB
BE	BOTTOM ELEVATION
BW	BOTTOM OF WALL
CL	CENTERLINE
COS	CITY OF SEATTLE
CSEC	CONSTRUCTION STORMWATER AND EROSION CONTROL
ELEV	ELEVATION
EX	EXISTING
FF	FINISHED FLOOR
IE	INVERT ELEVATION
ME	MATCH EXISTING
PH	POT HOLE
ROW	RIGHT OF WAY
TC	TOP OF CURB
TW	TOP OF WALL
TYP	TYPICAL

# 90% Complete Street Improvement Plan

Not For Construction

14TH AVE NW BLVD PARK

	MAYFLY ENGINEERING+DESIGN, PLLC 5042 49TH AVE SW SEATTLE, WA 98136 PHONE 206.935.5356		REVIEWED BY SPU/WATER ENGINEERING ..... 20.....	NAME OR INITIALS AND DATE DESIGNED ..... CHECKED .....	INITIALS AND DATE REVIEWED: ..... PROJECT MANAGER .....		14TH AVE NW BLVD NOTES	SDOT PROJECT NUMBER 209076
			REVIEWED BY SPU/DRAINAGE ..... 20.....	DRAWN ..... CHECKED .....	DESIGN REVIEW ..... REVISED AS-BUILT.....			VAULT PLAN NO. XXX-XXX
APPROVED BY SDOT STREET IMPROVEMENT PERMITTING ..... 20.....			All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.			SCALE: H. 1"=10', V. 1"=10' INSPECTOR'S BOOK		VAULT SERIAL NO. XXX-XXX
								SHEET 2 OF 45

C:\Users\Robin\Dropbox\Documents\14th\CAD\SP DWGS\90 SIP SITE PLAN.dwg  
 Robin Jul-20-15 16:16pm  
 \* XXX-XXX-2 \*

MADE	CHK'D	REV'D
DATE	MARK	REVISIONS
VAULT SERIAL NO.	XXXXX	

VAULT SERIAL NO.	DATE	MARK	NATURE	MADE	CHK'D	REV'D



CALL 2 WORKING DAYS BEFORE YOU DIG  
1-800-424-5555

NAME OR INITIALS AND DATE  
NANCY LOCKE  
DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES  
SEATTLE, WASHINGTON. 20.

NAME OR INITIALS AND DATE  
DESIGNED: \_\_\_\_\_  
CHECKED: \_\_\_\_\_  
DRAWN: \_\_\_\_\_  
CHECKED: \_\_\_\_\_

INITIALS AND DATE  
REVIEWED: \_\_\_\_\_  
PE. CONST. PROJECT MANAGER  
RECEIVED: \_\_\_\_\_  
REVISED AS BUILT



14th Ave NW Park Development  
Street CL & BL Control  
14th Ave NW

PC TS  
R/W TS  
CO TS  
VAULT PLAN NO.  
SHEET 1 OF 4

SIP PROJECT #

SCALE: 1" = 40'

# LEGEND

- 5 Foot Contour
- 1 Foot Contour
- Drainline
- Water Line
- Chain Link Fence
- Property Line



# Datum:

Horizontal = WaNZ NAD 83/91

Vertical = NAVD 88

- 1.Owner: City of Seattle  
ID#: 4+67.88/R-0.04'  
Description: Mon in Case  
Location: 14th Ave NW & NW 57th St  
Northing: 248254.719  
Easting: 1260950.611
- 2.Owner: City of Seattle  
ID#: 7+33.93/R-0.07'  
Description: Mon in Case  
Location: 14th Ave NW & NW 58th St  
Northing: 248520.704  
Easting: 1260956.364
- 3.Owner: City of Seattle  
ID#: 10+00.00/R-0.00'  
Description: Mon in Case  
Location: 14th Ave NW & NW 59th St  
Northing: 248786.718  
Easting: 1260962.019
- 4.Owner: City of Seattle  
ID#: 12+66.05/R-0.04'  
Description: Mon loc from RP: SED  
FB#3659 page 1  
Location: 14th Ave NW & NW 60th St  
Northing: 249052.704  
Easting: 1260967.782
- 5.Owner: City of Seattle  
ID#: 15+31.97/R-0.03'  
Description: Mon in Case  
Location: 14th Ave NW & NW 61st St  
Northing: 249318.562  
Easting: 1260973.496
- 6.Owner: City of Seattle  
ID#: 17+97.86/R-0.00'  
Description: Mon in Case  
Location: NW 62nd St & 14th Ave SW  
Northing: 249584.395  
Easting: 1260979.186
- 7.Owner: City of Seattle  
ID#: 20+63.48/L-0.08'  
Description: Mon in Case  
Location: NW 63rd St & 14th Ave SW  
Northing: 249849.957  
Easting: 1260984.825
- 8.Owner: City of Seattle  
ID#: 23+29.99/L-0.06'  
Description: Mon in Case  
Location: NW 64th St & 14th Ave SW  
Northing: 250116.397  
Easting: 1260990.572

# REFERENCES

- 1.Parks F.B.#490 Series
- 2.SED Plan 777-152
- 3.PSE Gas Maps
- 4.SED Base Maps#201-7-98
- 5.Sewer Cards:2241,2242,2256,2257, 2270,2271,2284,2285,2299,2300
- 6.Inspectors' FBs:43AT\_44-43AT\_46, 43B\_108,43LL\_48,43P\_44,72BJ\_30, 91TT\_4,91X\_124
- 7.Plat of Gilman Park, (v.3, pp40-41)
8. Section Map NW 12-25-3

General Notes:  
1.Underground utilities shown here have been established from existing records from various sources and verified where possible by location of surface features. Parks Survey assumes no liability for the accuracy of those records. Final location in areas critical to design and/or construction should be field verified before proceeding.  
2.All survey monuments depicted on this drawing are subject to WAC 352-120-040 -Survey Monuments-Removal or Destruction.

VAULT SERIAL NO.	DATE	MARK	NATURE	REVISIONS	MADE BY	CHKD	REVD



CALL 2 WORKING DAYS BEFORE YOU DIG  
1-800-424-5555

NAME OR INITIALS AND DATE  
NANCY LOCKE  
DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES  
SEATTLE, WASHINGTON. 20.  
BY: PURCHASING & CONTRACTING SERVICES DIRECTOR

NAME OR INITIALS AND DATE  
DESIGNED \_\_\_\_\_  
CHECKED \_\_\_\_\_  
DRAWN KDM  
CHECKED TSP  
INITIALS AND DATE  
REVIEWED: PE. CONST. PROJECT MANAGER  
RECEIVED \_\_\_\_\_  
REVISED AS BUILT \_\_\_\_\_  
ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-02.3 OF THE PROJECT MANUAL.



SCALE: 1" = 20'

14th Ave NW Park Development  
Existing Conditions  
14th Ave NW

SIP PROJECT #

PC	TS
R/W	
CO	TS
VAULT PLAN NO.	
SHEET 2 OF 4	

# LEGEND

- 5 Foot Contour
- 1 Foot Contour
- Drainline
- Water Line
- Chain Link Fence
- Property Line



## Datum:

Horizontal = WaNZ NAD 83/91

Vertical = NAVD 88

1. Owner: City of Seattle  
ID#: 4+67.88/R-0.04'  
Description: Man in Case  
Location: 14th Ave NW & NW 57th St  
Northing: 248254.719  
Easting: 1260950.611
2. Owner: City of Seattle  
ID#: 7+33.93/R-0.07'  
Description: Man in Case  
Location: 14th Ave NW & NW 58th St  
Northing: 248520.704  
Easting: 1260956.364
3. Owner: City of Seattle  
ID#: 10+00.00/R-0.00'  
Description: Man in Case  
Location: 14th Ave NW & NW 59th St  
Northing: 248786.718  
Easting: 1260962.019
4. Owner: City of Seattle  
ID#: 12+66.05/R-0.04'  
Description: Man loc from RP: SED  
FB#3659 page 1  
Location: 14th Ave NW & NW 60th St  
Northing: 249052.704  
Easting: 1260967.782
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Location: NW 64th St & 14th Ave SW  
Northing: 250116.397  
Easting: 1260990.572

Source BM:  
ID#: SNV-7504  
Description: Domed Brass Disk  
Location: IN THE S.E. QUADRANT OF THE INTX.  
OF 15TH AVE NW & NW 61ST ST. 15 FEET S. OF  
INTX BK CW, 1 FOOT W OF BK CW  
Elevation 121.718

Site BM:  
Description: Tk/ld 5+00 R12.00  
Location: Intx of 14th Ave NW & NW 59th  
St 12.00' east of the MIC  
Elevation 92.15

- 1.Parks FB.#490 Series
- 2.SED Plan 777-152
- 3.PSE Gas Maps
- 4.SED Base Maps#201-7-98
- 5.Sewer Cards:2241,2242,2256,2257,  
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- 6.Inspectors' FBs:43AT\_44-43AT\_46,  
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- 8.¼ Section Map NW 12-25-3

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VAULT SERIAL NO.	DATE	MARK	NATURE	REVISIONS	MADE BY	REV'D



CALL 2 WORKING  
DAYS BEFORE  
YOU DIG  
1-800-424-5555

APPROVED FOR ADVERTISING  
NANCY LOCKE  
DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES  
SEATTLE, WASHINGTON 20

NAME OR INITIALS AND DATE	INITIALS AND DATE
DESIGNED _____	REVIEWED: _____
CHECKED _____	PE. CONST. _____
	PROJECT MANAGER
DRAWN _____	RECEIVED _____
CHECKED _____	REVISED AS BUILT _____



SCALE: 1" = 20'

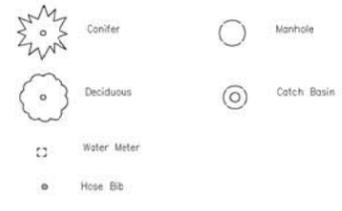
14th Ave NW Park Development  
Existing Conditions  
14th Ave NW

PC	TS
R/W	TS
CO	TS
VAULT PLAN NO.	
SHEET 3	OF 4

SIP PROJECT #

# LEGEND

- 5 Foot Contour
- 1 Foot Contour
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- Water Line
- Chain Link Fence
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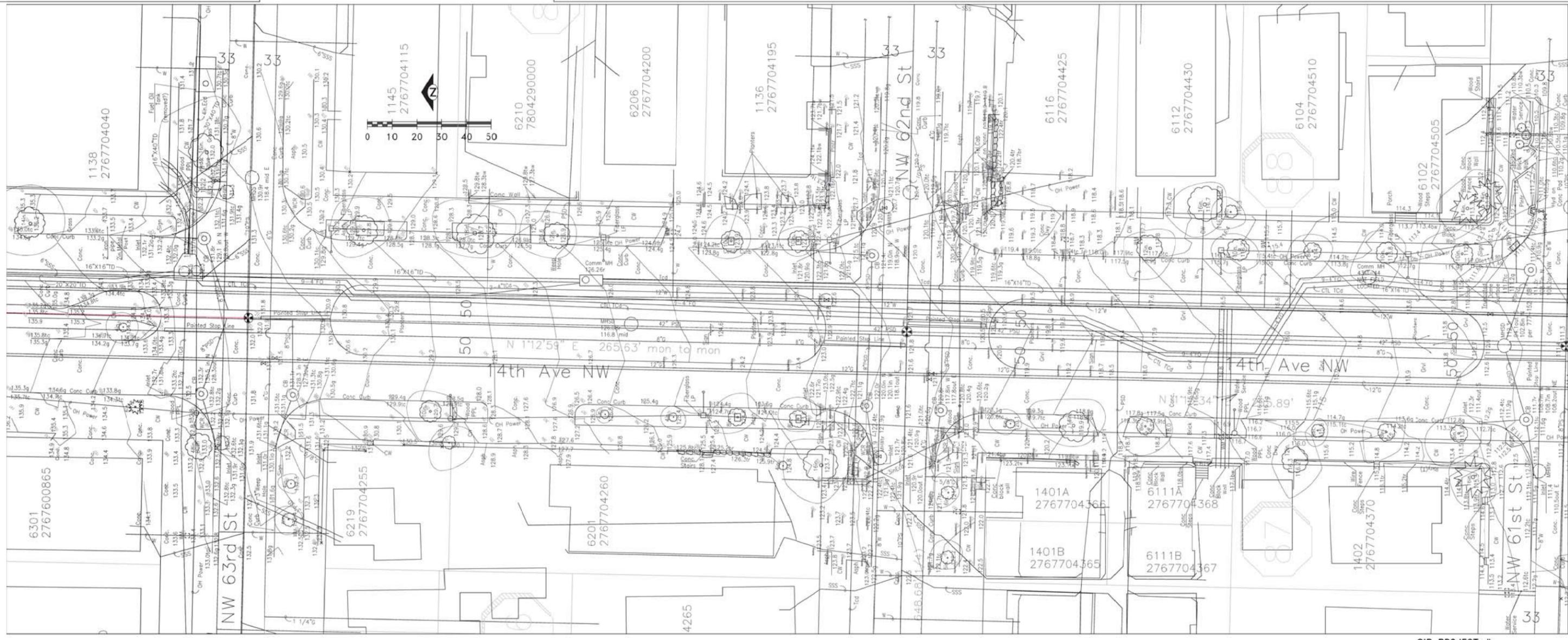
Source BM:  
ID#: SNV-7504  
Description: Domed Brass Disk  
Location: IN THE S.E. QUADRANT OF THE INTX.  
OF 15TH AVE NW & NW 61ST ST. 15 FEET S. OF  
INTX BK CW, 1 FOOT W OF BK CW  
Elevation 121.718

Site BM:  
Description: Tk/ld 5+00 R12.00  
Location: Intx of 14th Ave NW & NW 59th  
St 12.00' east of the MIC  
Elevation 92.15

- 1 Parks FB #490 Series
- 2 SED Plan 777-152
- 3 PSE Gas Maps
- 4 SED Base Maps 201-7-98
- 5 Sewer Cards 2241, 2242, 2256, 2257, 2270, 2271, 2284, 2285, 2299, 2300
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- 7 Plat of Gilman Park, (v.3, pp40-41)
- 8 1/4 Section Map NW 12-25-3

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APPROVED FOR ADVERTISING  
NANCY LOCKE  
DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES  
SEATTLE, WASHINGTON 20

NAME OR INITIALS AND DATE	INITIALS AND DATE
DESIGNED _____	REVIEWED: _____
CHECKED _____	PE. CONST. _____
	PROJECT MANAGER
DRAWN _____	RECEIVED _____
CHECKED _____	REVISED AS BUILT _____



SCALE: 1" = 20'

14th Ave NW Park Development  
Existing Conditions  
14th Ave NW

SIP PROJECT #

PC	TS
R/W	CO
CD	TS
VAULT PLAN NO.	
SHEET 4 OF 4	











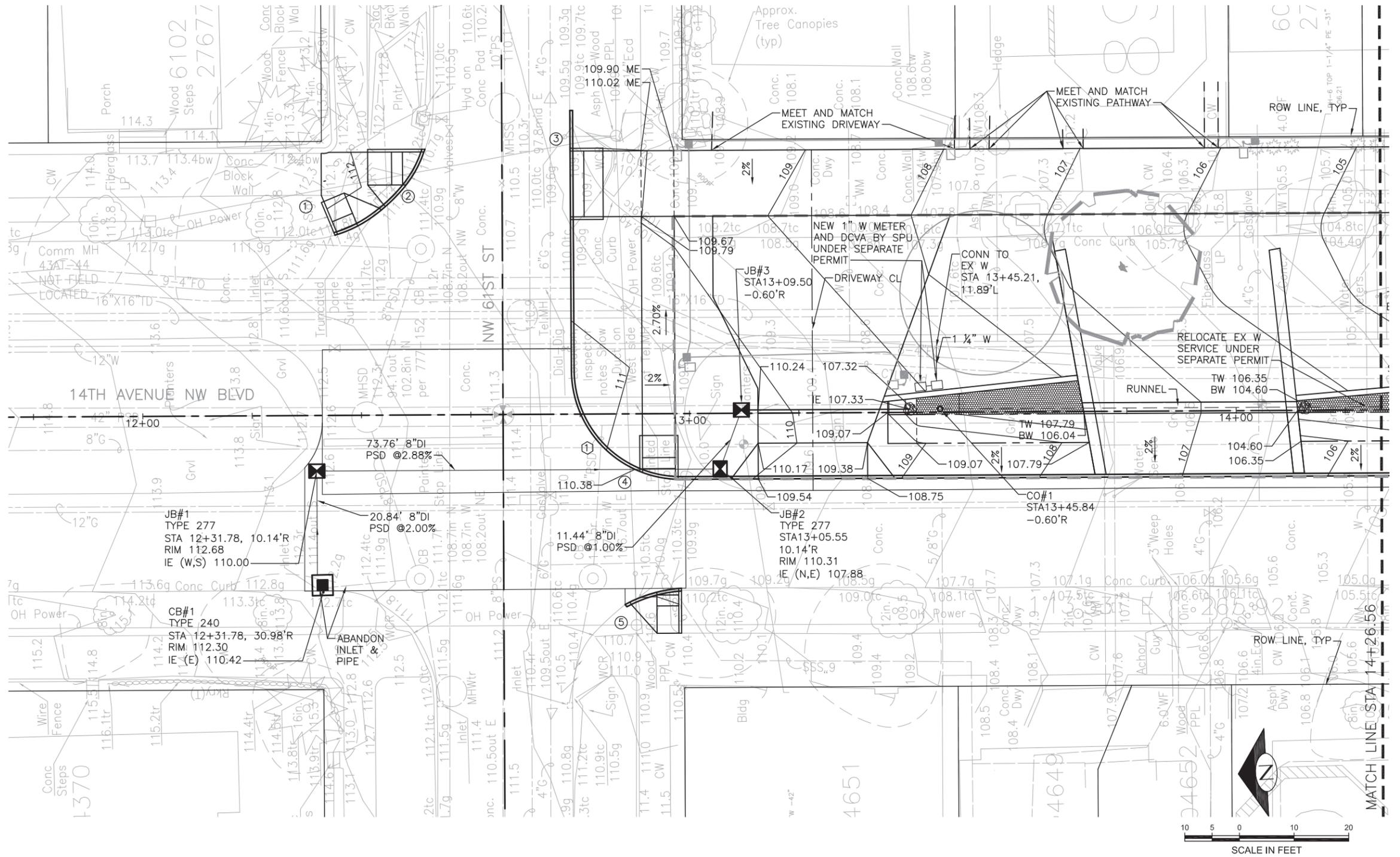




- NOTES:**
1. SEE SHEETS 1&2 FOR ADDITIONAL NOTES.
  2. SEE SHEET 17 FOR PROFILES.
  3. SEE SHEETS 11-13 FOR SITE AND PAVING PLANS.
  4. ALL EXISTING TREES AND UTILITIES AND THEIR RELATED APPURTENANCES TO REMAIN.

**LEGEND:**

-  PARK BOUNDARY
-  8" CLEANOUT
-  BIORETENTION BOTTOM OF CELL
- BE XXX.XX BOTTOM ELEVATION
-  PLAN UNDERDRAIN (UD)
-  TYPE 277 JUNCTION BOX  
A: SOLID COVER  
B: STD 264 FRAME AND COVER
-  RIP RAP
-  PEDESTRIAN RAMP, SEE PAVING DETAILS
-  CURB RETURN, SEE PAVING DETAILS
-  PEDESTRIAN LIGHT POLE (PP), SEE ELECTRICAL DRAWINGS FOR ADD INFO



# 90% Complete Street Improvement Plan

## Not For Construction

C:\Users\Robin\Dropbox\Documents\14th\CAD\SP DWGS\90 SIP SITE PLAN.dwg  
 Robin Jul-20-15 7:22pm  
 \*XXXXXXXX-14\*



**MAYFLY ENGINEERING+DESIGN, PLLC**  
 5042 49TH AVE SW  
 SEATTLE, WA 98136  
 PHONE 206.935.5356



REVIEWED BY SPU/WATER ENGINEERING	20.....
REVIEWED BY SPU/DRAINAGE	20.....
APPROVED BY SDOT STREET IMPROVEMENT PERMITTING	20.....

NAME OR INITIALS AND DATE	INITIALS AND DATE
DESIGNED	REVIEWED:
CHECKED	PROJECT MANAGER
DRAWN	REVISED AS-BUILT.....
CHECKED	
DESIGN REVIEW	

City of Seattle  
**Seattle Department of Transportation**

SCALE: H. 1"=10', V. 1"=10' INSPECTOR'S BOOK

14TH AVE NW BLVD PARK

## 14TH AVE NW BLVD GRADING & UTILITY PLAN NORTH

SDOT PROJECT NUMBER	209076
VAULT PLAN NO.	XXX-XXX
VAULT SERIAL NO.	XXX-XXX
SHEET	14 OF 45





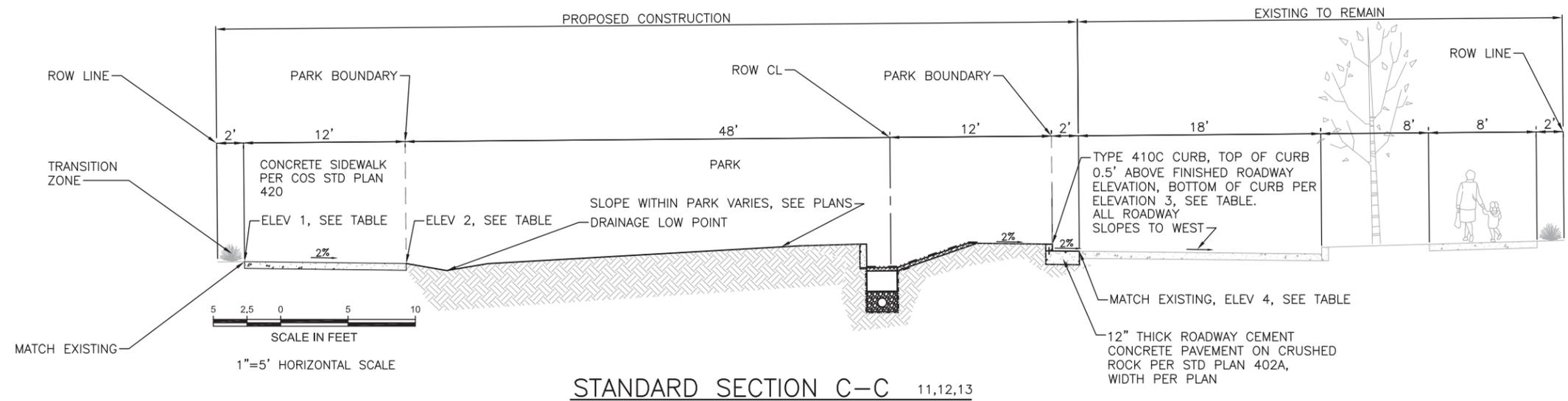




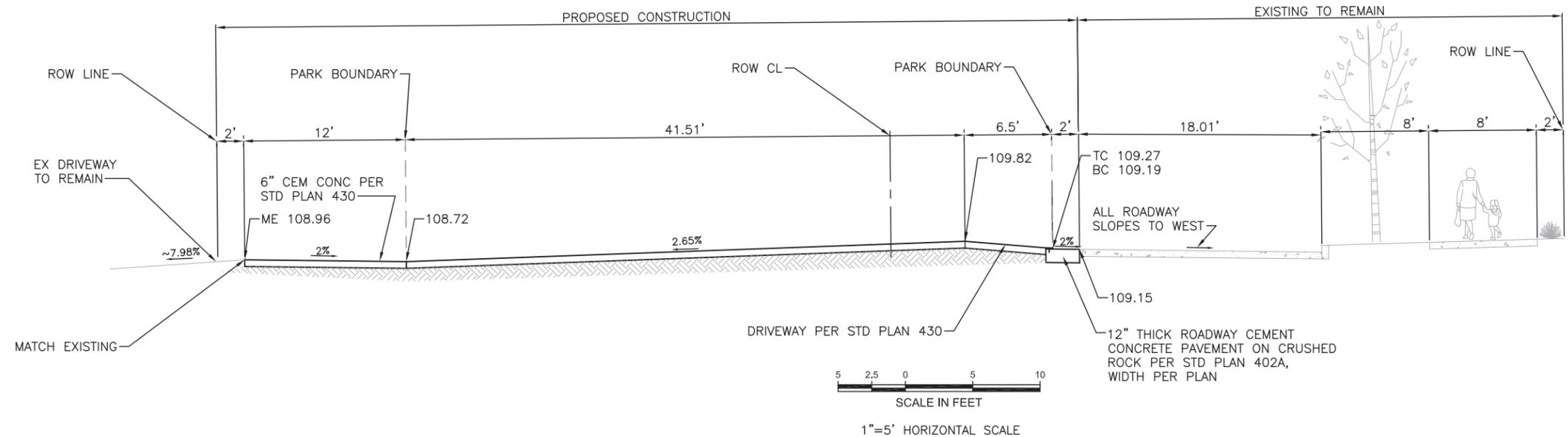




MADE	CHK'D	REV'D
NATURE	REVISIONS	
DATE	MARK	
VAULT SERIAL NO.	XXXX	



STANDARD SECTION C-C 11,12,13



DRIVEWAY CL SECTION D-D11

STATION	ELEVATION			
	1 ME	2	3	4 ME
START OF STD SECTION	12+98.42	109.92	109.68	110.04
13+00	109.92	109.68	109.98	109.94
13+25	108.86	108.62	109.09	109.05
13+50	107.89	107.65	108.11	108.07
13+75	106.88	106.64	107.06	107.02
14+00	105.95	105.71	106.16	106.12
14+25	104.83	104.59	105.16	105.12
14+50	103.98	103.74	104.16	104.12
14+75	102.95	102.71	103.18	103.14
END OF STD SECTION	14+78.25	102.81	102.57	103.06
START OF STD SECTION	15+73.15	99.54	99.30	99.85
15+75	99.47	99.23	99.81	99.77
16+00	98.57	98.33	98.99	98.94
16+25	97.81	97.57	98.12	98.08
16+50	97.02	96.78	97.29	97.25
16+75	96.08	95.84	96.43	96.39
17+00	95.34	95.10	95.57	95.53
17+25	94.38	94.14	94.75	94.71
17+50	93.38	93.14	93.85	93.81
END OF STD SECTION	17+64.25	92.85	92.61	93.24

- NOTES:
- ELEVATION 1 MATCHES EXISTING ELEVATION AT 48.00' L OF CL
  - ELEVATION 2 IS AT 36.00' L OF CL
  - ELEVATION 3 IS THE BOTTOM OF CURB AT 12.00' R OF CL, TOP OF CURB IS 0.5' HIGHER
  - ELEVATION 4 MATCHES EXISTING ELEVATION AT THE EDGE OF EXISTING CONCRETE, THE DISTANCE FROM CL VARIES FROM ~13.7' TO 14.25' R

# 90% Complete Street Improvement Plan

## Not For Construction

14TH AVE NW BLVD PARK



MAYFLY ENGINEERING+DESIGN, PLLC  
 5042 49TH AVE SW  
 SEATTLE, WA 98136  
 PHONE 206.935.5356



REVIEWED BY SPU/WATER ENGINEERING	20.....
REVIEWED BY SPU/DRAINAGE	20.....
APPROVED BY SDOT STREET IMPROVEMENT PERMITTING	20.....

NAME OR INITIALS AND DATE	INITIALS AND DATE
DESIGNED	REVIEWED:
CHECKED	PROJECT MANAGER
DRAWN	REVISED AS-BUILT
CHECKED	
DESIGN REVIEW	

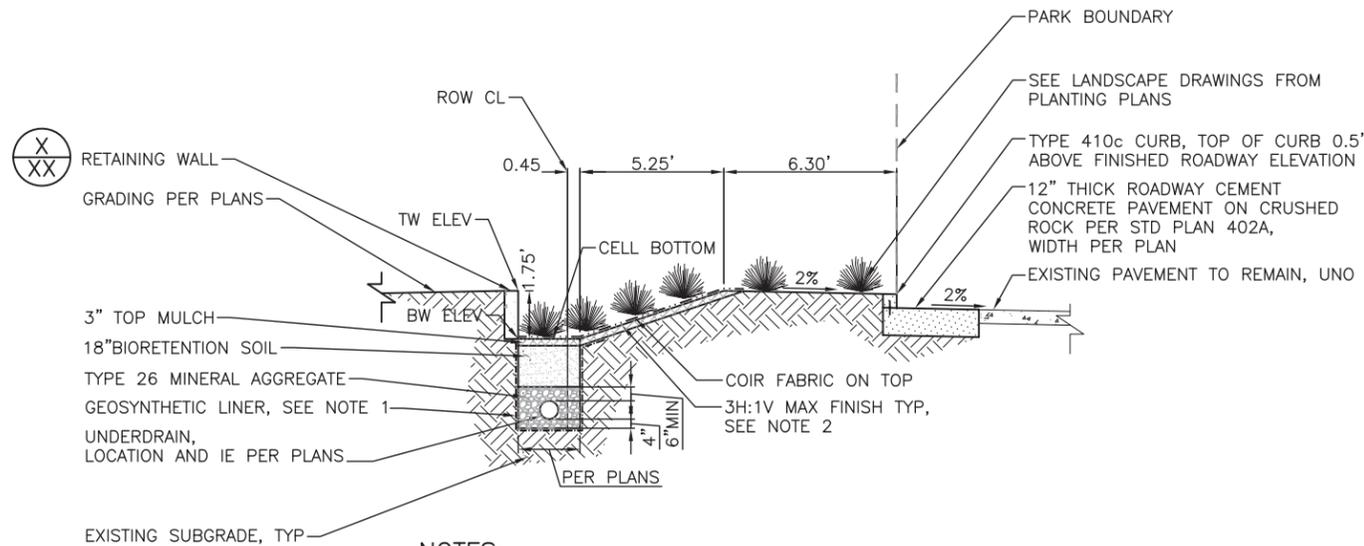


14TH AVE NW BLVD  
 PAVING DETAILS 4

SDOT PROJECT NUMBER	209076
VAULT PLAN NO.	XXX-XXX
VAULT SERIAL NO.	XXX-XXX
SHEET	21 OF 45

SCALE: H. 1"=10', V. 1"=5' INSPECTOR'S BOOK

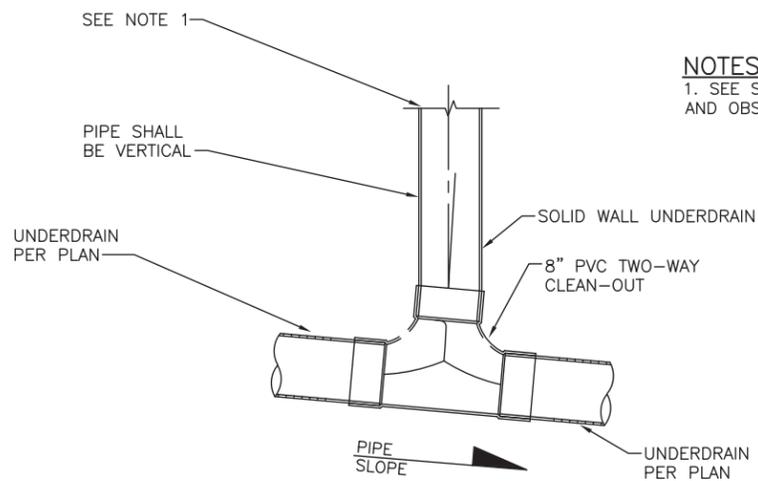
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 Robin Jul-20-15 7:27pm  
 \* XXX-XXX-21\*



**NOTES:**

1. GEOSYNTHETIC LINER: CONFORM TO PGI 1103 SPECIFICATION FOR 20MIL POLYVINYL CHLORIDE, RUFCD 2010B'S 20 MIL POLYETHYLENE LINER, PVC GEOMEMBRANE 20 MIL, OR AN EQUIVALENT PRODUCT APPROVED BY THE PROJECT REPRESENTATIVE.
2. SECTION SHOWS MINIMUM FINISHED DEPTHS AND WIDTHS. MAX EXCAVATION SLOPE IS 1:1.
3. SEE BIORETENTION SOIL AND MULCH NOTES FOR ADDITIONAL INFORMATION.
5. SEE BIORETENTION AND TOP MULCH NOTES LOCATED IN DETAIL FIVE, SHEET 12.

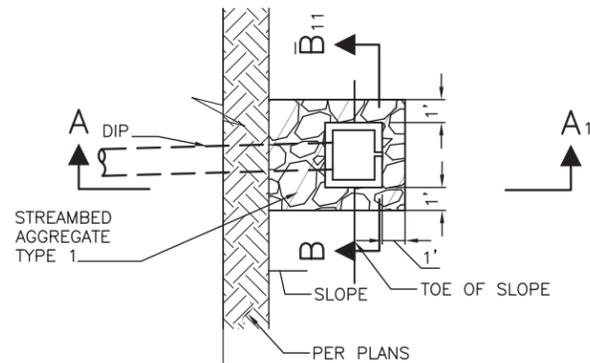
**BIORETENTION CELL SYSTEM SECTION A-A** 1  
NTS 11-13



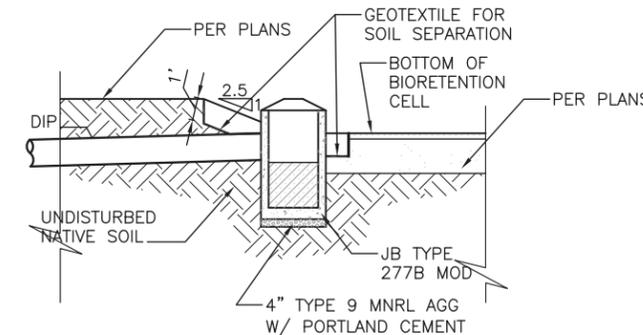
**NOTES:**

1. SEE STANDARD PLAN 281 BIORETENTION UNDERDRAIN CLEANOUT AND OBSERVATION PORT W/ PVC TOP FOR TOP OF STRUCTURE.

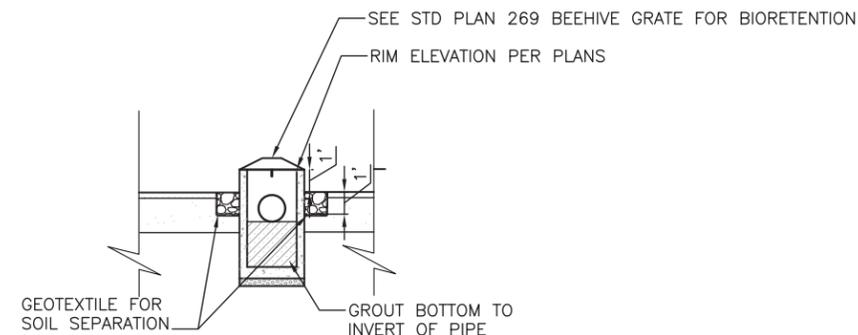
**UNDERDRAIN CLEANOUT** 2  
NTS 17



**PLAN VIEW**  
SCALE: NTS



**SECTION A-A** 11  
SCALE: NTS



**SECTION B-B** 11  
SCALE: NTS

**OVERFLOW STRUCTURE DETAIL** 3  
NTS 17

# 90% Complete Street Improvement Plan

## Not For Construction

14TH AVE NW BLVD PARK



**MAYFLY ENGINEERING+DESIGN, PLLC**  
5042 49TH AVE SW  
SEATTLE, WA 98136  
PHONE 206.935.5356



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REVIEWED BY SPU/DRAINAGE	20.....
APPROVED BY SDOT STREET IMPROVEMENT PERMITTING	20.....

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DESIGNED	REVIEWED:
CHECKED	PROJECT MANAGER
DRAWN	REVISED AS-BUILT.....
CHECKED	

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SCALE: H. 1"=10', V. 1"=5' INSPECTOR'S BOOK

**14TH AVE NW BLVD**  
**SITE PLAN DETAILS 1**

SDOT PROJECT NUMBER	209076
VAULT PLAN NO.	XXX-XXX
VAULT SERIAL NO.	XXX-XXX
SHEET	22 OF 45

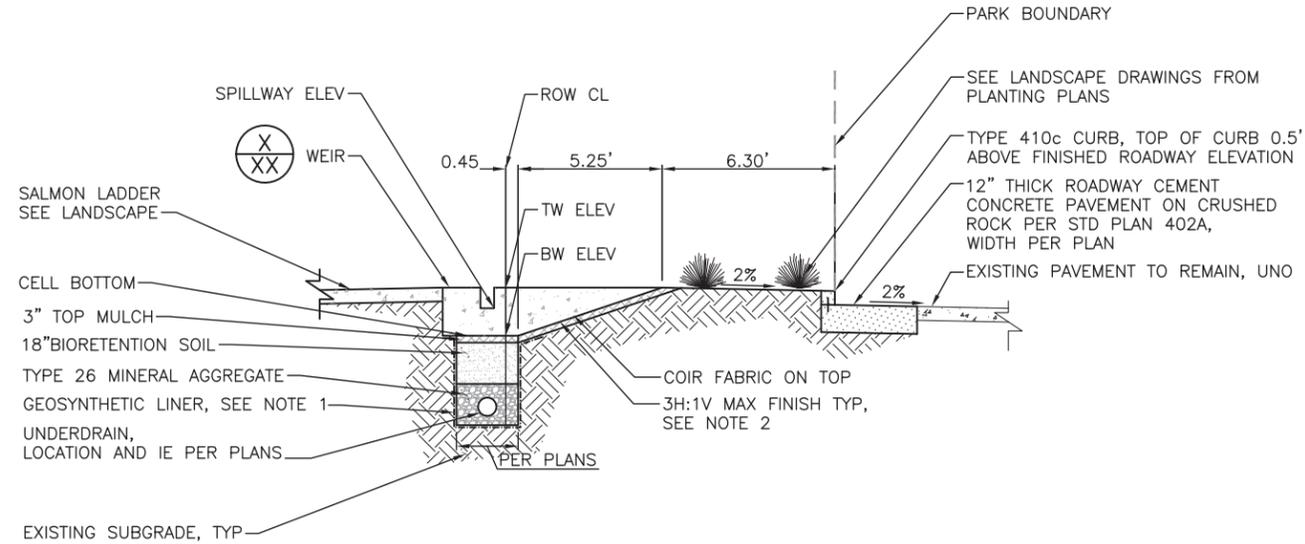
MADE	CHK'D	REV'D
NATURE	MARK	REVISIONS
DATE	DATE	DATE
VAULT SERIAL NO.	XXXXX	XXXXX

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MADE	CHK'D	REV'D
NATURE	MARK	REVISIONS
DATE	DATE	DATE
VAULT SERIAL NO.	XXXXX	XXXXX

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\* XXX-XXX-23\*



- NOTES:**
1. GEOSYNTHETIC LINER: CONFORM TO PGI 1103 SPECIFICATION FOR 20MIL POLYVINYL CHLORIDE, RUFECO 2010B'S 20 MIL POLYETHYLENE LINER, PVC GEOMEMBRANE 20 MIL, OR AN EQUIVALENT PRODUCT APPROVED BY THE PROJECT REPRESENTATIVE.
  2. SECTION SHOWS MINIMUM FINISHED DEPTHS AND WIDTHS. MAX EXCAVATION SLOPE IS 1:1.
  3. SECTION AT FACE OF WEIR.
  4. SEE SECTION A-A FOR MINIMUM AGGREGATE DIMENSIONS.

**TOP MULCH NOTES:**

1. PROCUREMENT. THE CONTRACTOR SHALL PROCURE BIORETENTION SOIL MATERIALS FROM ONLY APPROVED SOURCES AS SPECIFIED BY THE CITY OF SEATTLE CITY PURCHASING AND CONTRACTING SERVICES (HTTP://WWW.SEATTLE.GOV/CONTRACTING/CONSTRUCTION.HTM).
2. QUALITY. ARBORIST WOOD CHIP MULCH (AWCM) SHALL BE COARSE GROUND WOOD CHIPS (APPROXIMATELY 1/2" TO 6" ALONG THE LONGEST DIMENSION) DERIVED FROM THE MECHANICAL GRINDING OR SHREDDING OF THE ABOVE-GROUND PORTION OF TREES. IT MAY CONTAIN WOOD, WOOD FIBER, BARK, BRANCHES, AND LEAVES; BUT MAY NOT CONTAIN VISIBLE AMOUNTS OF SOIL. IT SHALL BE FREE OF WEEDS AND WEED SEEDS INCLUDING BUT NOT LIMITED TO PLANTS ON THE KING COUNTY NOXIOUS WEED LIST AVAILABLE AT: WWW.KINGCOUNT.GOV/WEEDS, AND SHALL BE FREE OF INVASIVE PLANT PORTIONS CAPABLE OF RESPROUTING, INCLUDING BUT NOT LIMITED TO HORSETAIL, IVY, CLEMATIS, KNOTWEED, ETC. IT MAY NOT CONTAIN MORE THAN 1/2% BY WEIGHT OF MANUFACTURED INERT MATERIAL (PLASTIC, CONCRETE, CERAMICS, METAL, ETC.).
3. GRADATION. ARBORIST WOOD CHIP MULCH, WHEN TESTED SHALL MEET THE FOLLOWING LOOSE VOLUME GRADATION: 2" SIEVE SIZE: 95% TO 100% PASSING. 1" SIEVE SIZE: 70% TO 100% PASSING. 5/8" SIEVE SIZE: 0% TO 50% PASSING. 1/4" SIEVE SIZE: 0% TO 40% PASSING.
4. SUBMITTALS. AT THE ENGINEERS REQUEST, PRIOR TO DELIVERY THE CONTRACTOR SHALL PROVIDE THE FOLLOWING:
  - A. THE SOURCE OF THE PRODUCT AND SPECIES OF TREES INCLUDED IN IT;
  - B. A SIEVE ANALYSIS VERIFYING THE PRODUCT MEETS THE ABOVE SIZE GRADATION

**BIORETENTION SOIL NOTES:**

1. PROCUREMENT. THE CONTRACTOR SHALL PROCURE BIORETENTION SOIL MATERIALS FROM ONLY APPROVED SOURCES AS SPECIFIED BY THE CITY OF SEATTLE CITY PURCHASING AND CONTRACTING SERVICES (HTTP://WWW.SEATTLE.GOV/CONTRACTING/CONSTRUCTION.HTM).
2. MIX COMPONENTS. BIORETENTION SOIL SHALL BE A WELL-BLENDED MIXTURE OF MINERAL AGGREGATE AND COMPOST (APPROXIMATELY 35 TO 40 PERCENT) BY VOLUME MEETING THE REQUIREMENTS OF SECTION 9-14.4(9) AND THREE PARTS MINERAL AGGREGATE (APPROXIMATELY 60 TO 65 PERCENT), BY VOLUME MEETING THE REQUIREMENTS OF SECTION 9-03.2(2). THE MIXTURE SHALL BE WELL BLENDED TO PRODUCE A HOMOGENEOUS MIX, AND HAVE AN ORGANIC MATTER CONTENT OF 4% TO 8% DETERMINED USING THE LOSS ON IGNITION METHOD.

BIORETENTION CELL SYSTEM SECTION B-B 5  
 NTS 11, 12, 13

# 90% Complete Street Improvement Plan

## Not For Construction

14TH AVE NW BLVD PARK



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 5042 49TH AVE SW  
 SEATTLE, WA 98136  
 PHONE 206.935.5356



REVIEWED BY SPU/WATER ENGINEERING	20.....
REVIEWED BY SPU/DRAINAGE	20.....
APPROVED BY SDOT STREET IMPROVEMENT PERMITTING	20.....

NAME OR INITIALS AND DATE	INITIALS AND DATE
DESIGNED	REVIEWED:
CHECKED	PROJECT MANAGER
DRAWN	REVISED AS-BUILT.....
CHECKED	
DESIGN REVIEW	

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SCALE: H. 1"=10', V. 1"=5' INSPECTOR'S BOOK

**14TH AVE NW BLVD**  
**SITE DETAILS 2**

SDOT PROJECT NUMBER	209076
VAULT PLAN NO.	XXX-XXX
VAULT SERIAL NO.	XXX-XXX
SHEET	23 OF 45

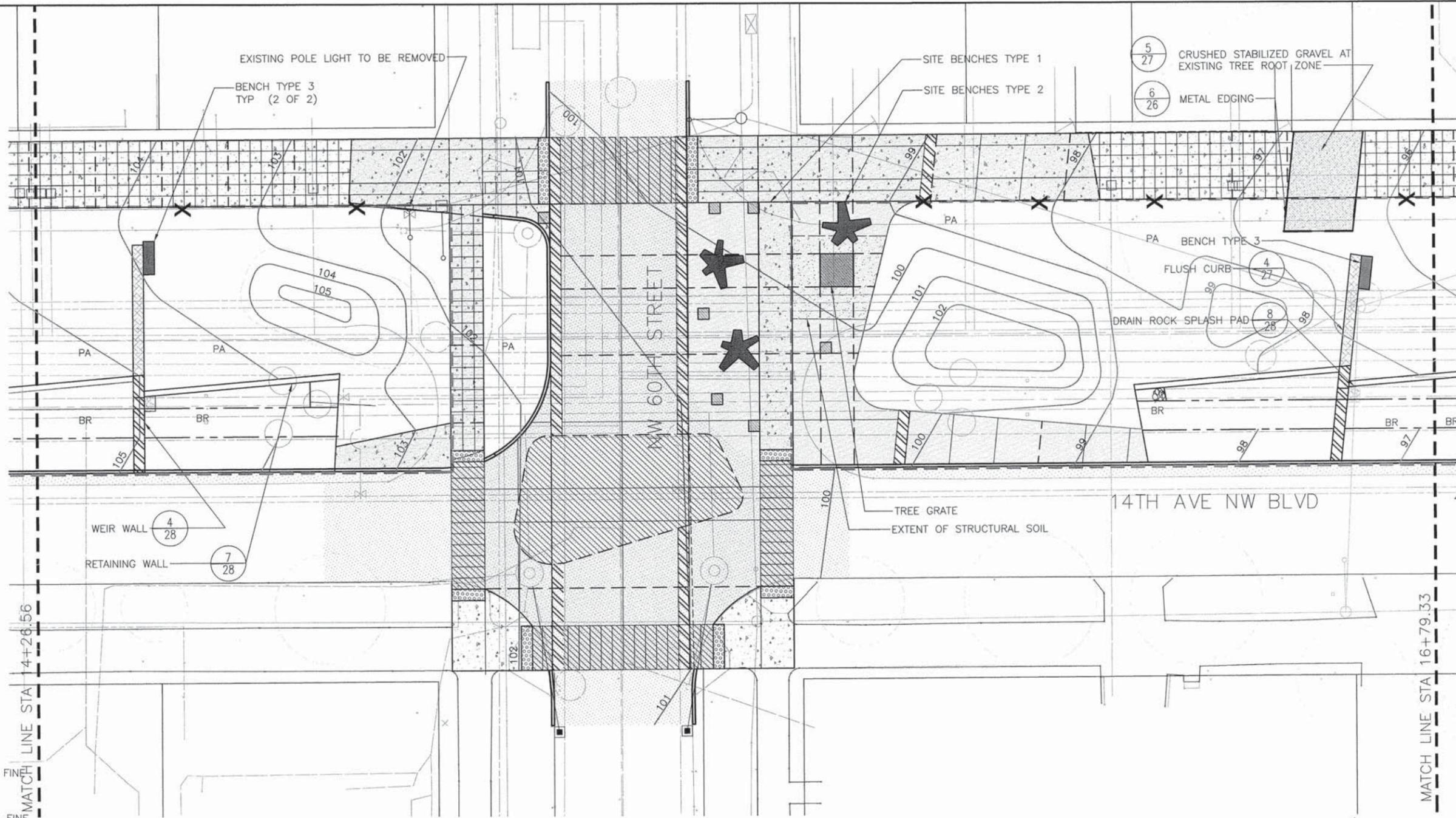


**NOTES:**

1. ALL PAVING AND HARDSCAPE TO CONFORM WITH COS RIGHT-OF-WAY-IMPROVEMENTS-MANUAL AND COS STANDARD 400 STREET PAVING AND APPURTENANCES.
2. LOCATE EXPANSION JOINTS IN PEDESTRIAN PAVING AT 16'-0" UON. LOCATE CONTROL JOINTS AS SHOWN.

**LEGEND:**

- PARK BOUNDARY
- BR BIORETENTION PLANTING AREA
- PA PLANTING AREA
- SAW-CUT CONTROL JOINT
- EXPANSION JOINT
- EXISTING TREE TO REMAIN AND PROTECT
- ✕ EXISTING TREE TO BE REMOVED
- BOLLARD
- PEDESTRIAN POLE LIGHT
- FLUSH CURB: PEDESTRIAN CONCRETE 4" T FINISH: HEAVY BROOM
- PEDESTRIAN CONCRETE 4" T FINISH: LIGHT BROOM
- PEDESTRIAN CONCRETE 4" T FINISH: HEAVY BROOM
- VEHICULAR CONCRETE PAVEMENT FINISH: LIGHT BROOM
- VEHICULAR CONCRETE PAVEMENT FINISH: HEAVY TROWEL COLOR: SILICA FINE BROADCAST W/ CONCRETE HARDENER
- VEHICULAR CONCRETE PAVEMENT FINISH: MEDIUM BROOM COLOR, SILICA FINE BROADCAST W/ CONCRETE HARDENER
- VEHICULAR CONCRETE PAVEMENT FINISH: DRY SHAKE HARDENER COLOR: BLUE SMOKE
- VEHICULAR CONCRETE PAVEMENT FINISH: HEAVY BROOM



# 90% Complete Street Improvement Plan

## Not For Construction

14TH AVE NW BLVD PARK DPD PROJECT # XXXXXXXX

**MITHUN**  
 Pier 56  
 1201 Alaskan Way  
 Suite 200  
 Seattle, WA 98101  
 TEL 206 623-3344  
 FAX 206 623-7005

REVIEWED BY SPU/WATER ENGINEERING	20.....	NAME OR INITIALS AND DATE	INITIALS AND DATE
REVIEWED BY SPU/DRAINAGE	20.....	DESIGNED	REVIEWED:
APPROVED BY SDOT STREET IMPROVEMENT PERMITTING	20.....	CHECKED	PROJECT MANAGER
		DRAWN	
		CHECKED	
		DESIGN REVIEW	REVISED AS-BUILT

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City of Seattle  
**Seattle Department of Transportation**

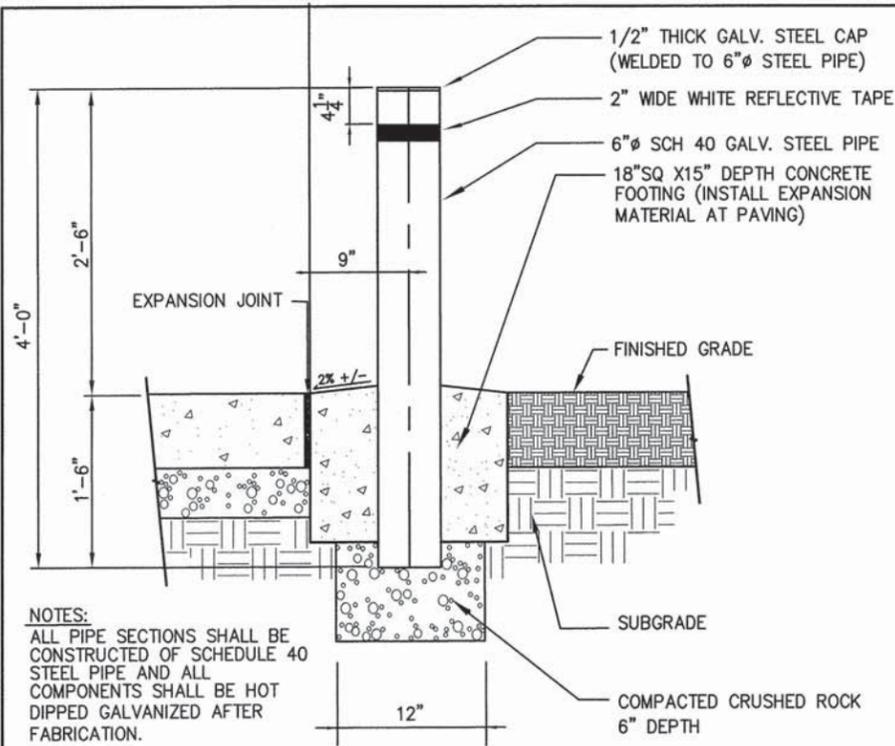
SCALE: H. 1"=10', V. 1"=10' INSPECTOR'S BOOK

**14TH AVE NW BLVD**  
**MATERIALS PLAN MIDDLE**

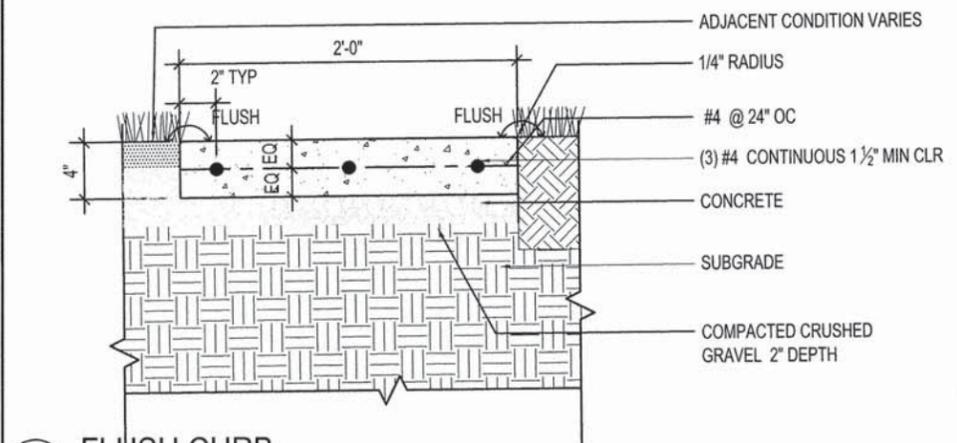
SDOT PROJECT NUMBER	209076
VAULT PLAN NO.	XXX-XXX
VAULT SERIAL NO.	XXX-XXX
SHEET	25 OF 45

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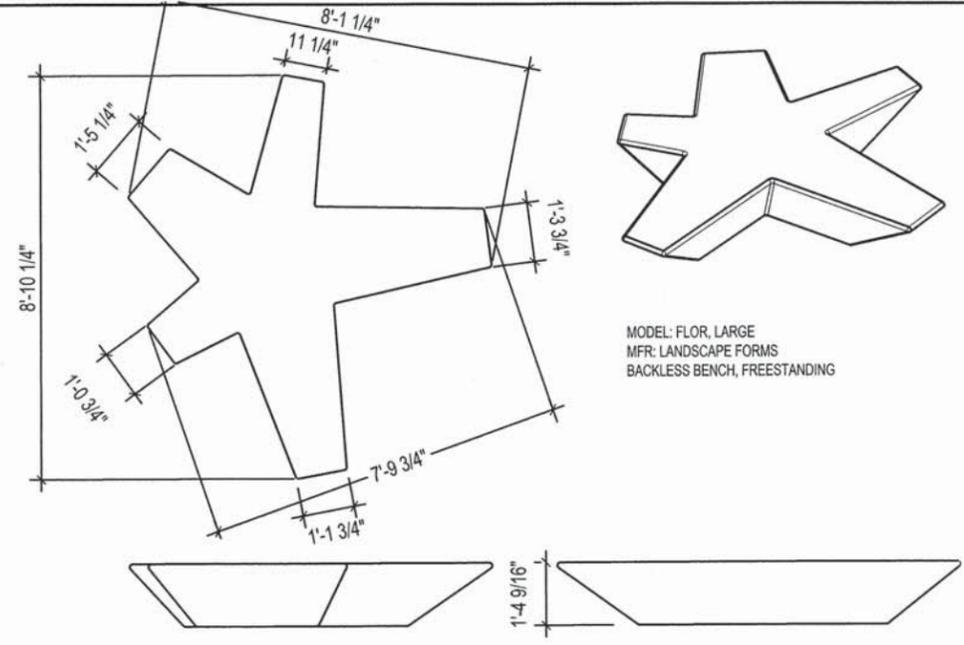




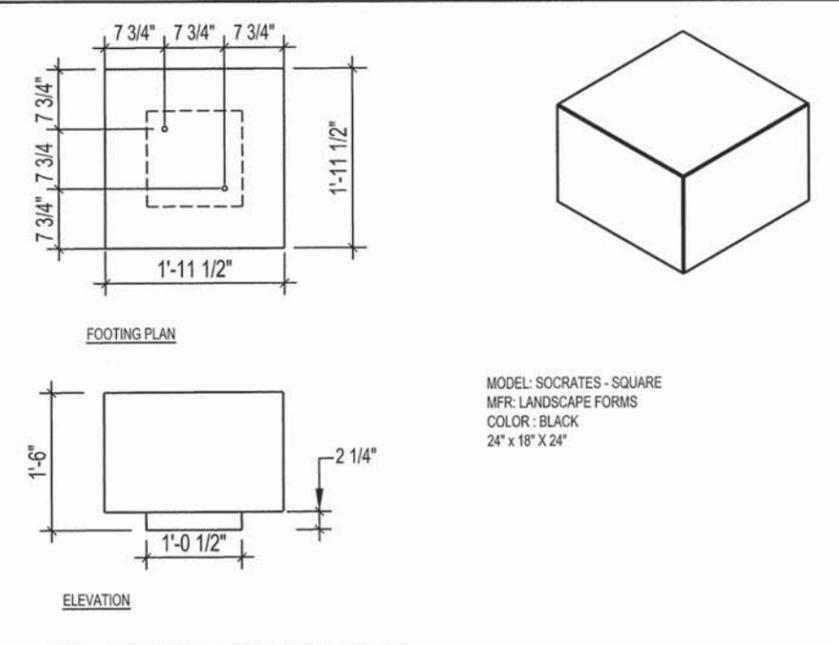
**1 FIXED STEEL BOLLARD, TYP**  
NTS



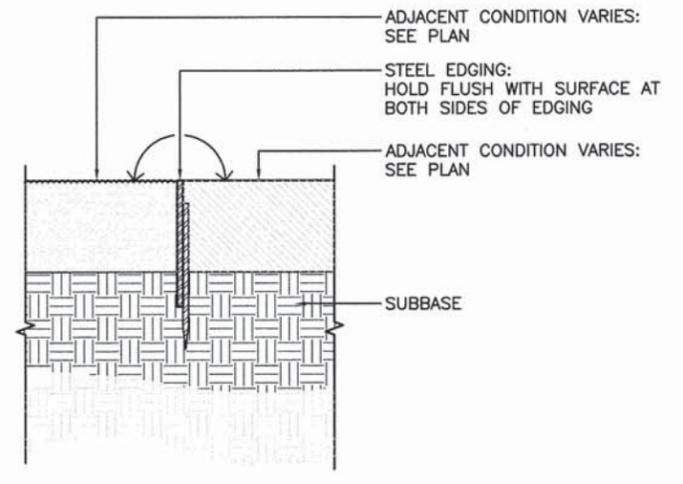
**4 FLUSH CURB**  
1 1/12\" = 1'



**2 BENCH TYPE 2, TYP**  
3/8\" = 1' - 0'



**3 BENCH TYPE 1, TYP**  
1\" = 1' - 0'



**5 STEEL EDGING AT STABILIZED GRAVEL**  
3\" = 1' - 0'

# 90% Complete Street Improvement Plan

Not For Construction

VAULT SERIAL NO.	DATE	MARK	NATURE	REVISIONS	MADE	CHKD	REV'D
XXXXX							

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\* \* \* \* \*  
\* \* \* \* \*

**MITHUN**  
Pier 56  
1201 Alaskan Way  
Suite 200  
Seattle, WA 98101  
TEL 206 623-3344  
FAX 206 623-7005

REVIEWED BY SPU/WATER ENGINEERING	NAME OR INITIALS AND DATE	INITIALS AND DATE
DESIGNED 20.....	DESIGNED .....	REVIEWED: .....
REVIEWED BY SPU/DRAINAGE	CHECKED .....	PROJECT MANAGER
20.....	DRAWN .....	
	CHECKED .....	
APPROVED BY SDOT STREET IMPROVEMENT PERMITTING	DESIGN REVIEW	REVISED AS-BUILT
20.....	DESIGNED .....	REVISED AS-BUILT .....

City of Seattle  
**Seattle Department of Transportation**

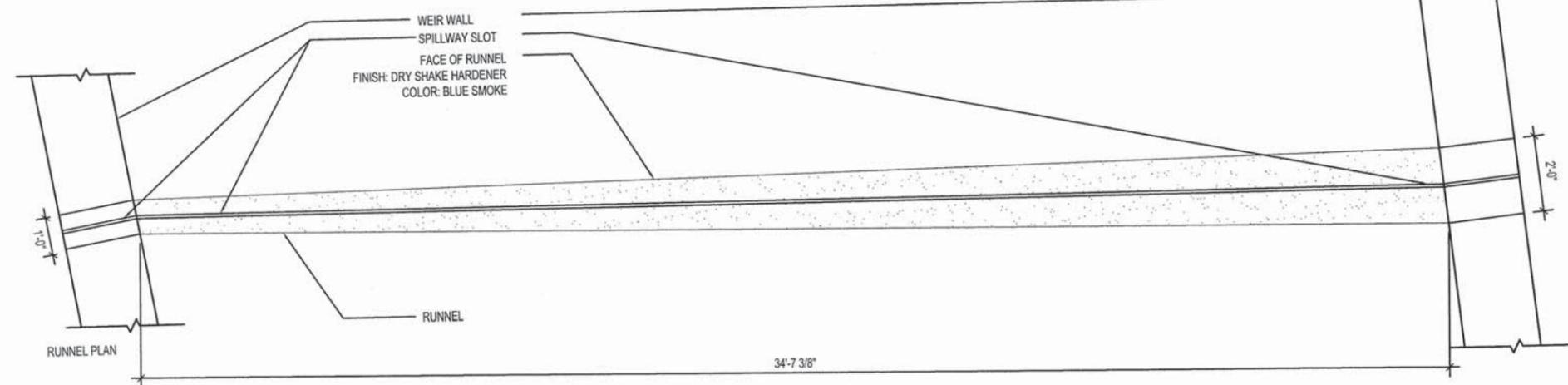
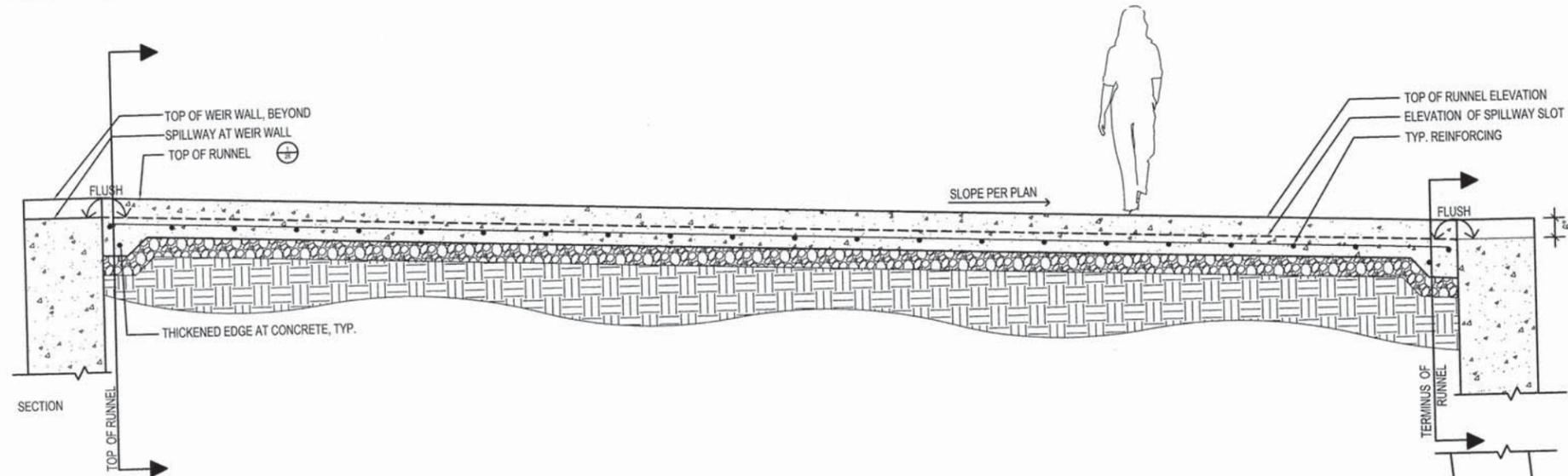
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14TH AVE NW BLVD PARK    DPD PROJECT # XXXXXXXX

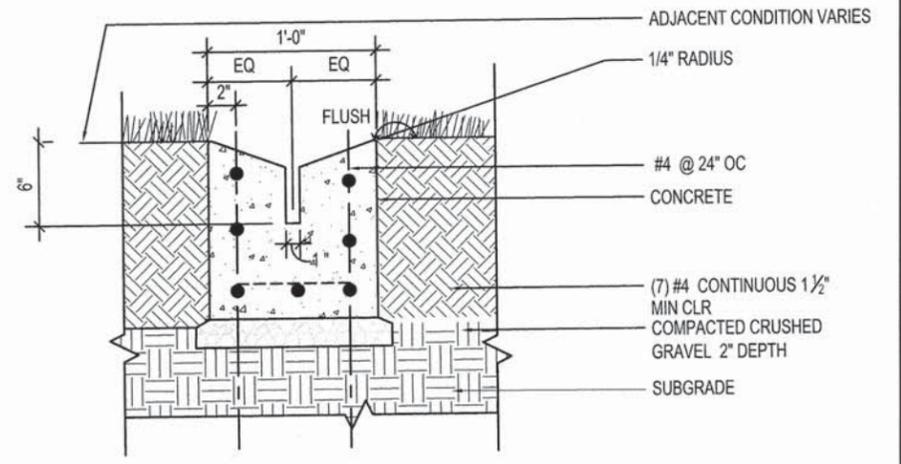
## 14TH AVE NW BLVD LANDSCAPE SITE DETAILS

SDOT PROJECT NUMBER	209076
VAULT PLAN NO.	XXX-XXX
VAULT SERIAL NO.	XXX-XXX
SHEET	27 OF 45

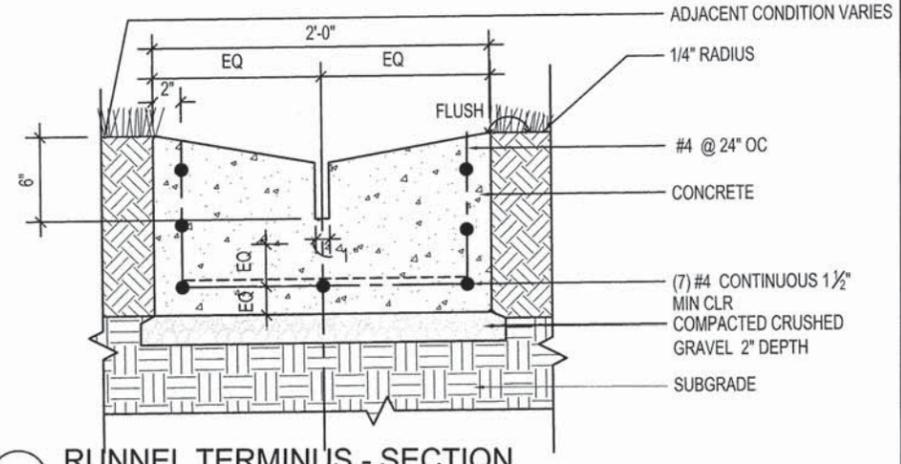




5 RUNNEL  
1/2" = 1'



4 TOP OF RUNNEL - SECTION  
1 1/12" = 1'



8 RUNNEL TERMINUS - SECTION  
1 1/12" = 1'

# 90% Complete Street Improvement Plan

Not For Construction

VAULT SERIAL NO.	DATE	MARK	NATURE	MADE CHKD. REV'D
XXXXX				

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Name: 12-22-15 2:30pm  
\*#-XXXX-XXXX\*

**MITHUN**  
Pier 56  
1201 Alaskan Way  
Suite 200  
Seattle, WA 98101  
TEL 206 623-3344  
FAX 206 623-7005

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DESIGNED	DESIGNED	REVIEWED:
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REVIEWED BY SPU/DRAINAGE	DRAWN	DESIGN REVIEW
CHECKED	CHECKED	REVISED AS-BUILT
APPROVED BY SDOT STREET IMPROVEMENT PERMITTING	All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.	
CHECKED		

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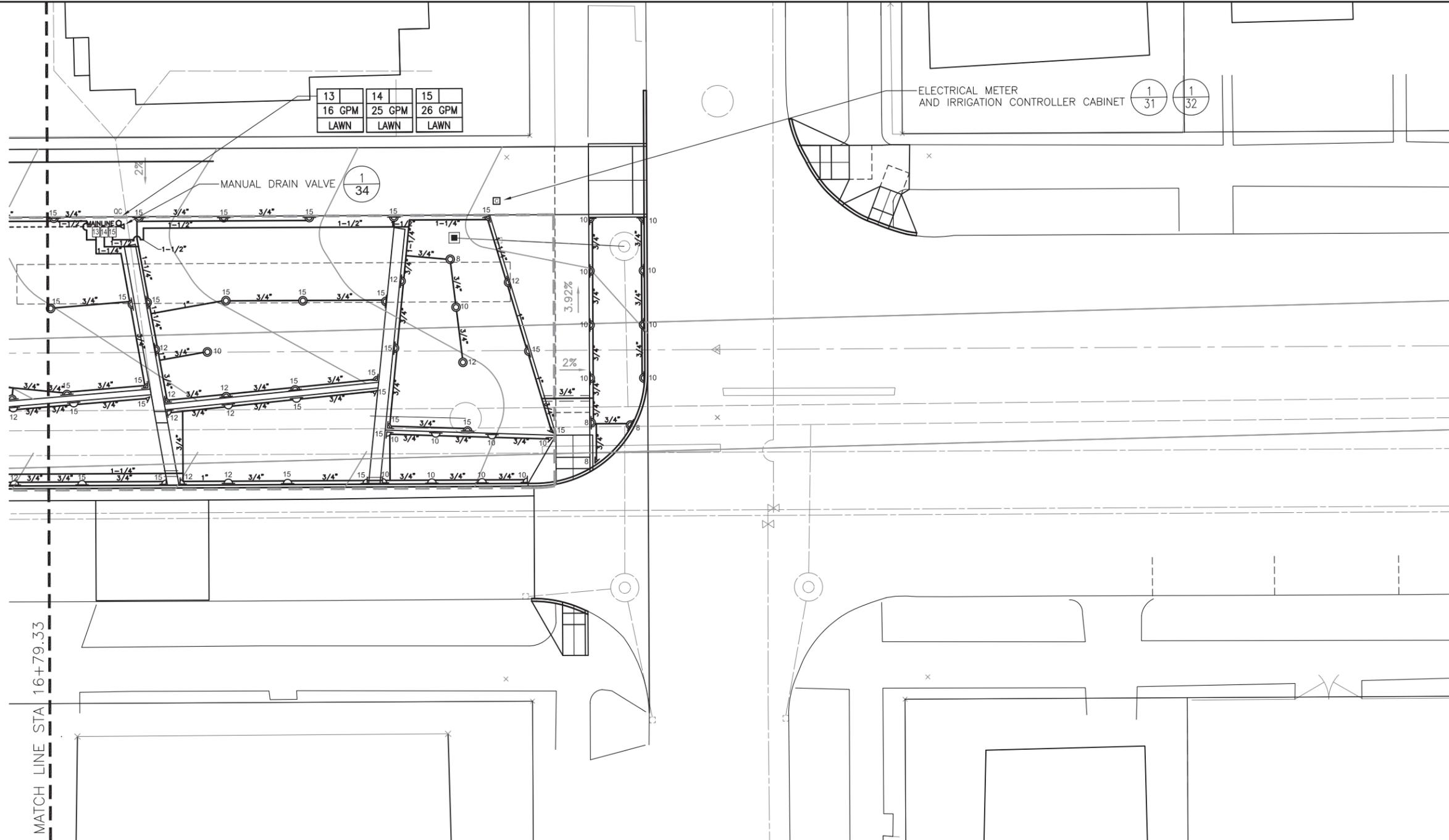
14TH AVE NW BLVD PARK DPD PROJECT # XXXXXXXX

## 14TH AVE NW BLVD LANDSCAPE SITE DETAILS

SDOT PROJECT NUMBER	209076
VAULT PLAN NO.	XXX-XXX
VAULT SERIAL NO.	XXX-XXX
SHEET	29 OF 45





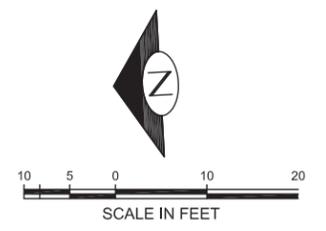


IRRIGATION LEGEND	
SYMBOL	DESCRIPTION
OC	POINT OF CONNECTION (REFER TO CIVIL DRAWINGS): 1" IRRIGATION METER 1" DOUBLE CHECK VALVE ASSEMBLY 1-1/4" MASTER VALVE
IC	IRRIGATION CONTROLLER (1) RAIN BIRD ESP-12LXME-ESPLXMSM, 16 STATION CONTROLLER (1) RAIN BIRD LMRKIT, REMOTE CONTROL KIT
AV	AUTOMATIC SPRINKLER VALVE ASSEMBLY (1) BUCKNER VB12 VALVE, 1-1/4" AUTOMATIC VALVE (1) 1-1/4" BRASS ISOLATION VALVE
OC	BUCKNER QB44RCC-10, QUICK COUPLER PROVIDE WITH 1" DURA 1-A4-1-11-18 SWING JOINT
RS	RAINBIRD 1812-SAM-PRS-MPR, 12" POP-UP SPRAY W/ MPR NOZZLES AS NOTED
RS	RAINBIRD 1804-SAM-PRS-MPR, 4" POP-UP SPRAY W/ MPR NOZZLES AS NOTED
RS	RAINBIRD 1802, 2" POP-UP SPRAY W/ MPR NOZZLES AS NOTED
---	SCHEDULE 40 PVC, 1-1/2" MAINLINE
---	SCHEDULE 40 PVC, LATERAL (3/4" UNLESS NOTED OTHERWISE)
---	SCHEDULE 40 PVC, TWICE SIZE OF INTERIOR PIPING, MIN. 4" SLEEVING

VAULT SERIAL NO.	DATE	MARK	NATURE	MADE CHKD	REV'D
XXXXX			REVISIONS		

# 90% Complete Street Improvement Plan

## Not For Construction



DEBRA GUENTHER  
LANDSCAPE ARCHITECT  
STATE OF WASHINGTON  
REGISTERED  
LANDSCAPE ARCHITECT

**MITHUN**  
Pier 56  
1201 Alaskan Way  
Suite 200  
Seattle, WA 98101  
TEL 206 623-3344  
FAX 206 623-7005

REVIEWED BY SPU/WATER ENGINEERING	DESIGNED	INITIALS AND DATE
20.....	CHECKED	REVIEWED:
REVIEWED BY SPU/DRAINAGE	DRAWN	PROJECT MANAGER
20.....	CHECKED	
APPROVED BY SDOT STREET IMPROVEMENT PERMITTING	DESIGN REVIEW	REVISED AS-BUILT
20.....	All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.	

City of Seattle  
**Seattle Department of Transportation**

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14TH AVE NW BLVD PARK  
DPD PROJECT # XXXXXXXX

**14TH AVE NW BLVD IRRIGATION PLAN**

SDOT PROJECT NUMBER	209076
VAULT PLAN NO.	XXX-XXX
VAULT SERIAL NO.	XXX-XXX
SHEET	32 OF 45

**IRRIGATION CONTROL PANEL**

- ① STRONGBOX SBMP-24-CR120V200UP DOUBLE SIDED STEEL ENCLOSURE (PAINTED DARK GREEN).
- ② BACK PANEL (BOLTED TO BACK WALL OF BOX).
- ③ RAIN BIRD ESP-LXME
- ④ TERMINAL BOX WITH TERMINAL STRIPS.
- ⑤ LEVITON 5280-W, GFI OUTLET.
- ⑥ RAINBIRD FLOW MONITOR.
- ⑦ 12" EXTENSION.
- ⑧ PREFABRICATED CB-323218, CONCRETE BASE.

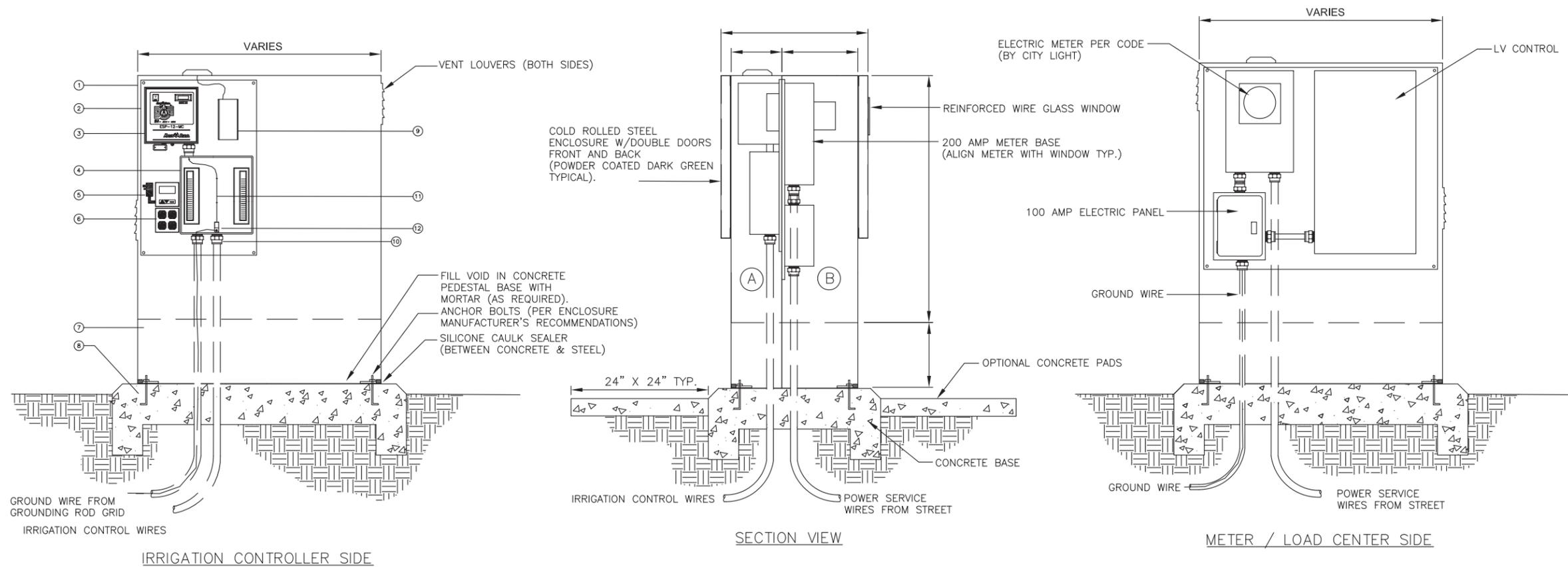
- ⑨ DATAREMOTE DIGITAL CELLULAR COMMUNICATION UNIT (#CDS-9022-1X-V) WITH DOMED TOP ANTENNA & CABLE.
- ⑩ 2" CONDUIT FOR STATION FIELD WIRES.
- ⑪ GROUND WIRE CONNECTS FROM GROUND LUG TO GROUNDING BUSS IN CONTROLLER (TYP.).
- ⑫ GROUND LUG. RUN WIRE FROM GROUND LUG TO GROUNDING ROD GRID (SEE DETAIL #02810.68).

**ENCLOSURE CABINET & PANEL NOTES**

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

**ASSEMBLY PANELS**

- A PANEL ASSEMBLY FOR IRRIGATION COMPONENTS
- B PANEL ASSEMBLY FOR METER / LOAD CENTER



① POWER DROP WITH METER & CONTROLLER ENCLOSURE DETAILS  
NTS

# 90% Complete Street Improvement Plan

Not For Construction

14TH AVE NW BLVD PARK      DPD PROJECT # XXXXXXXX



REVIEWED BY SPU/WATER ENGINEERING	20.....
REVIEWED BY SPU/DRAINAGE	20.....
APPROVED BY SDOT STREET IMPROVEMENT PERMITTING	20.....

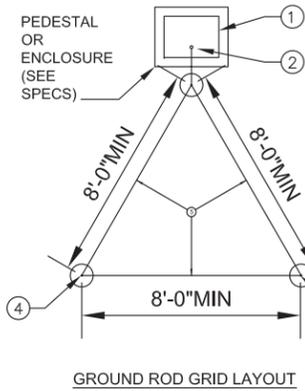
NAME OR INITIALS AND DATE	INITIALS AND DATE
DESIGNED	REVIEWED:
CHECKED	PROJECT MANAGER
DRAWN	DESIGN REVIEW
CHECKED	REVISED AS-BUILT



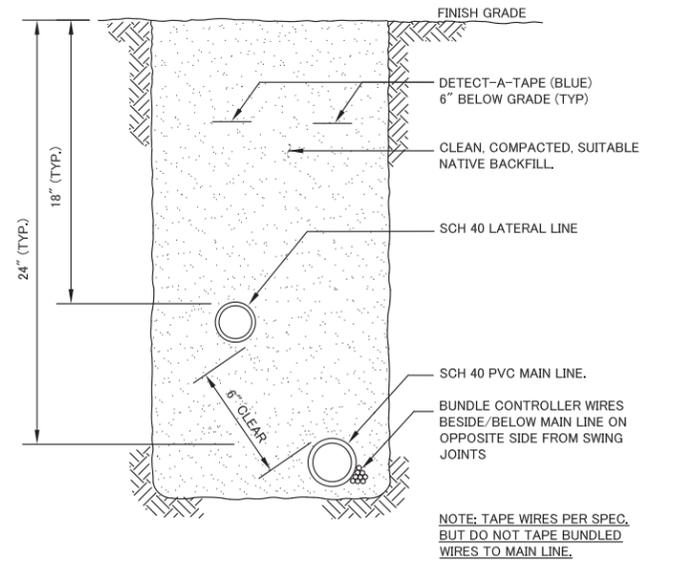
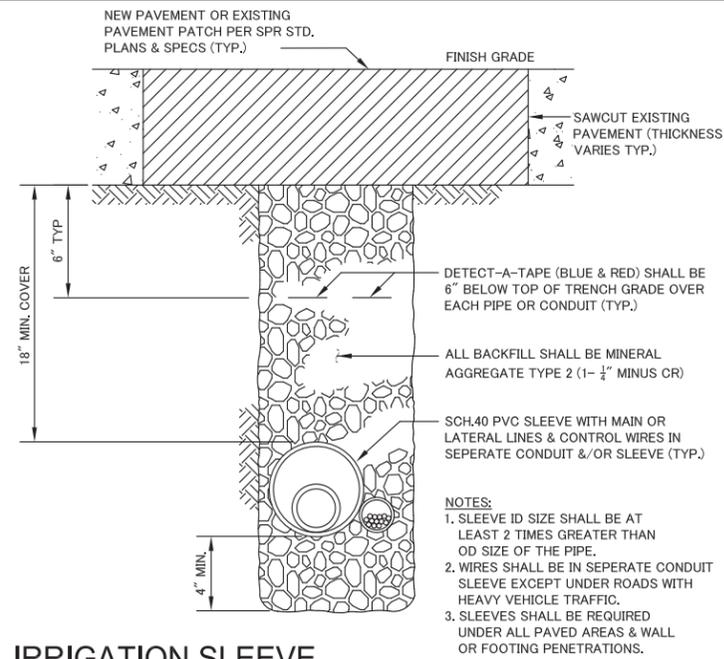
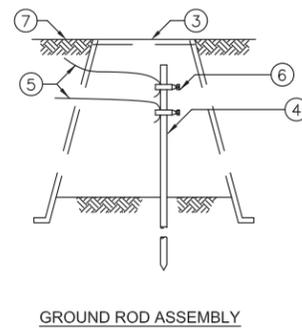
SCALE: H. 1"=10', V. 1"=10' INSPECTOR'S BOOK

**14TH AVE NW BLVD**  
**IRRIGATION DETAILS**

SDOT PROJECT NUMBER	209076
VAULT PLAN NO.	XXX-XXX
VAULT SERIAL NO.	XXX-XXX
SHEET	33 OF 45



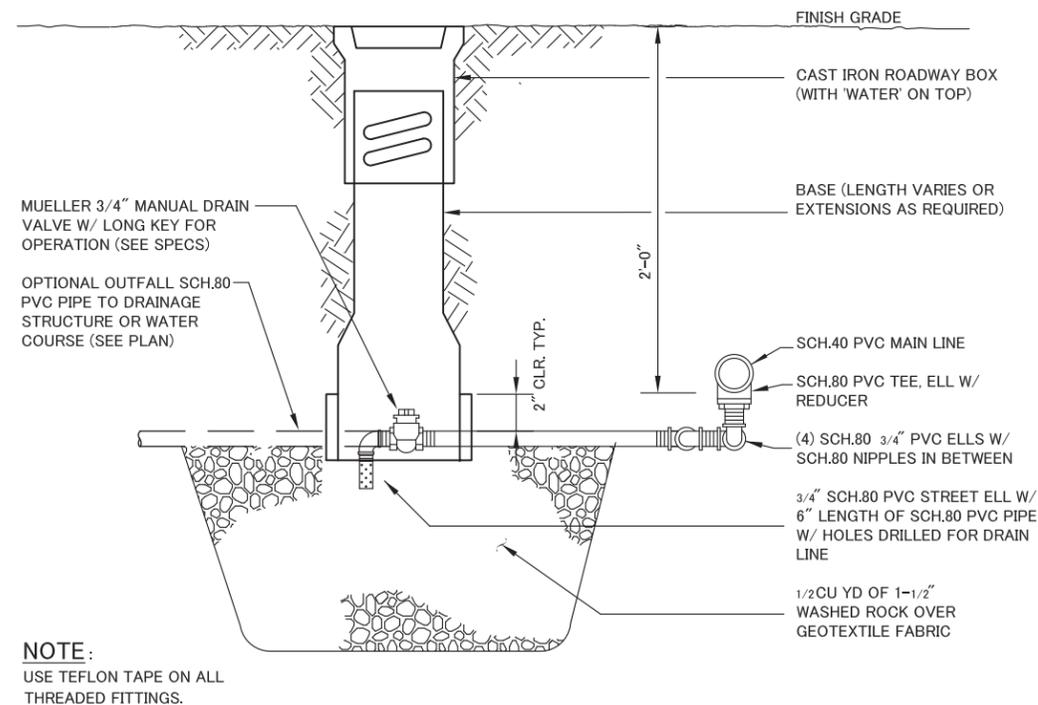
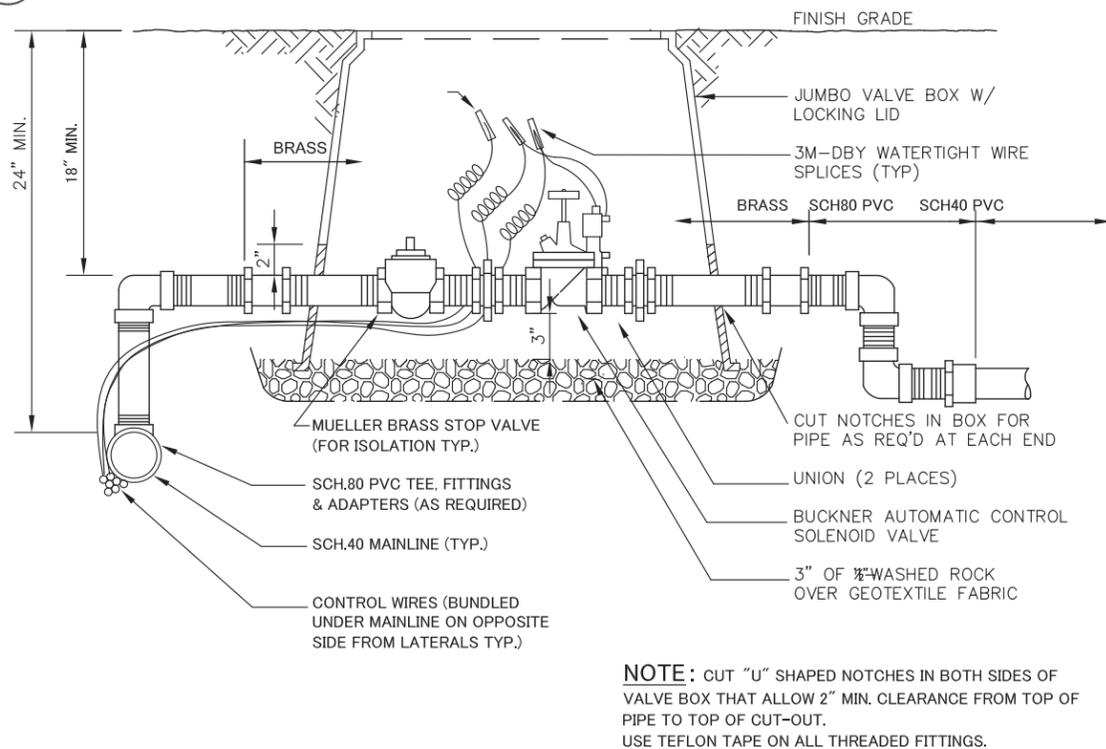
- LEGEND**
- ① CONTROLLER AND/OR CLUSTER CONTROL UNIT (CCU)
  - ② #10 AWG SOLID BARE COPPER WIRE FROM GROUNDING ROD TO GROUND LUG ON CONTROLLER (OR CCU). MAKE WIRE AS SHORT AS POSSIBLE.
  - ③ COVER GROUNDING ROD WITH 6" ROUND VALVE BOX
  - ④ 5/8"x8'-0" COPPER CLAD GROUNDING RODS. INSTALL RODS IN SOIL IN A TRIANGULAR PATTERN, SPACED 8'-0" MIN APART. GROUNDING GRID SHALL HAVE A RESISTANCE OF 10 OHMS OR LESS.
  - ⑤ #10 AWG BARE COPPER WIRE BETWEEN GROUNDING RODS (TYP.).
  - ⑥ BRASS WIRE CLAMP (USE SEPARATE CLAMP FOR EACH WIRE).
  - ⑦ FINISH GRADE.



**1 GROUNDING DETAILS**  
NTS

**2 IRRIGATION SLEEVE**  
NTS

**3 IRRIGATION TRENCHING**  
NTS



**5 AUTOMATIC VALVE**  
NTS

**6 MANUAL DRAIN VALVE**  
NTS

# 90% Complete Street Improvement Plan

## Not For Construction

14TH AVE NW BLVD PARK    DPD PROJECT # XXXXXXXX

DEBRA GUENTHER  
 LANDSCAPE ARCHITECT  
 STATE OF WASHINGTON  
 LICENSED  
 MITHUN  
 14th Ave NW  
 Seattle, WA 98107  
 206.461.1111  
 www.mithun.com

REVIEWED BY SPU/WATER ENGINEERING	DESIGNED	INITIALS AND DATE
20.....	CHECKED	REVIEWED:
REVIEWED BY SPU/DRAINAGE	DRAWN	PROJECT MANAGER
20.....	CHECKED	
APPROVED BY SDOT STREET IMPROVEMENT PERMITTING	DESIGN REVIEW	REVISED AS-BUILT
20.....	All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.	

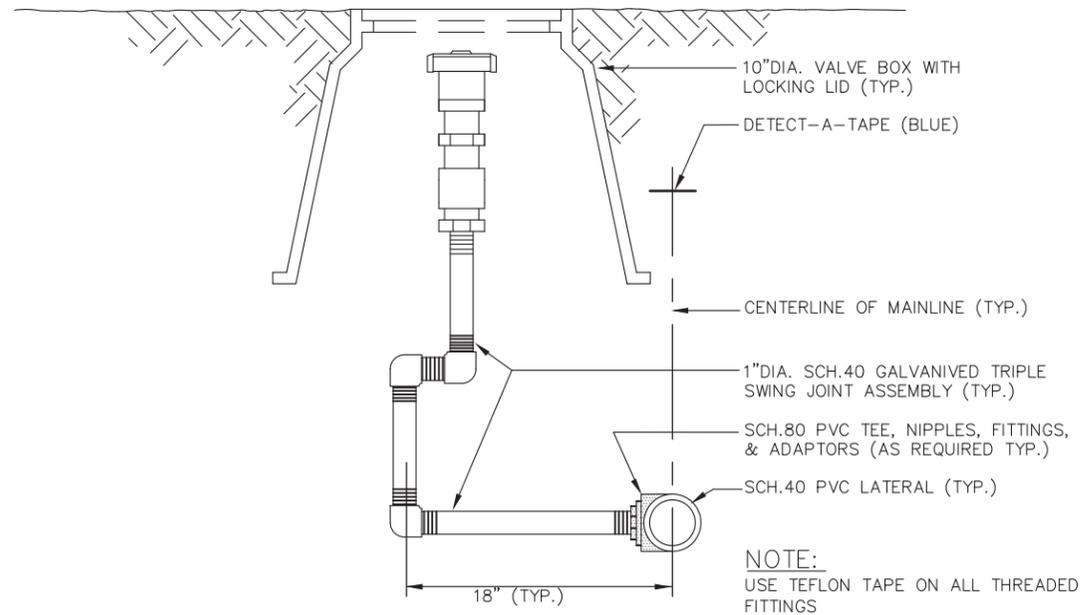
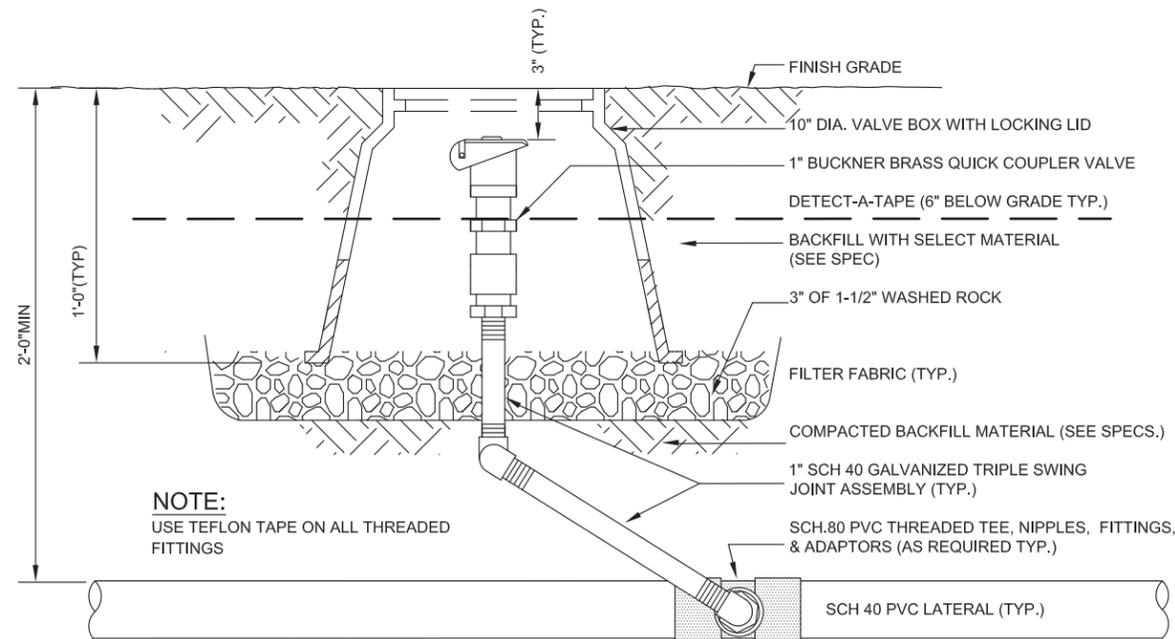
NAME OR INITIALS AND DATE	INITIALS AND DATE
DESIGNED	REVIEWED:
CHECKED	PROJECT MANAGER
DRAWN	
CHECKED	
DESIGN REVIEW	REVISED AS-BUILT

City of Seattle  
**Seattle Department of Transportation**

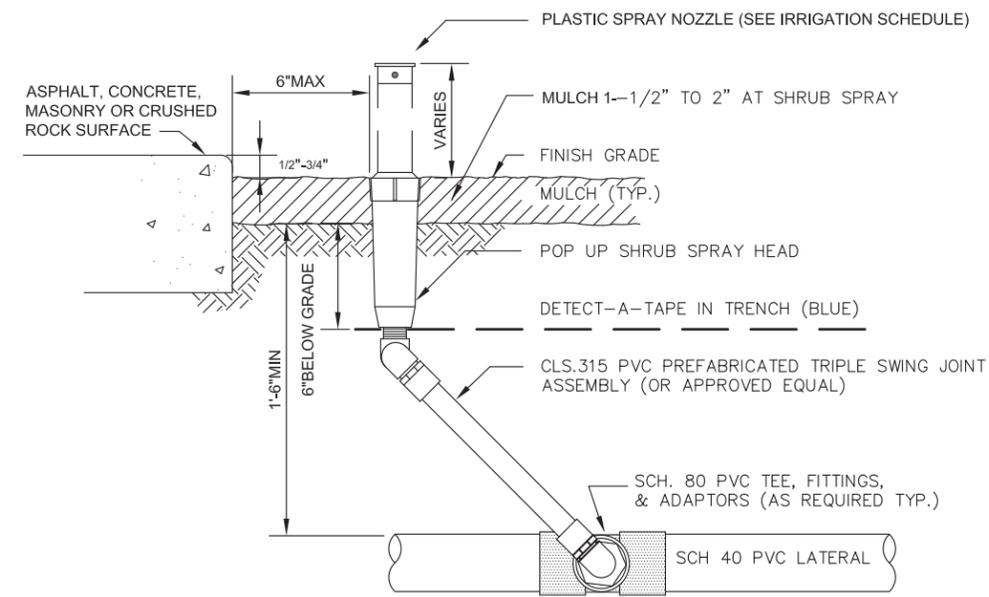
SCALE: H. 1"=10', V. 1"=10' INSPECTOR'S BOOK

**14TH AVE NW BLVD**  
**IRRIGATION DETAILS**

SDOT PROJECT NUMBER	209076
VAULT PLAN NO.	XXX-XXX
VAULT SERIAL NO.	XXX-XXX
SHEET	34 OF 45



**1 QUICK COUPLER**  
NTS



**2 POP-UP SPRAY**  
NTS

# 90% Complete Street Improvement Plan

Not For Construction

14TH AVE NW BLVD PARK    DPD PROJECT # XXXXXXXX



REVIEWED BY SPU/WATER ENGINEERING	20.....
REVIEWED BY SPU/DRAINAGE	20.....
APPROVED BY SDOT STREET IMPROVEMENT PERMITTING	20.....

NAME OR INITIALS AND DATE	INITIALS AND DATE
DESIGNED	REVIEWED:
CHECKED	PROJECT MANAGER
DRAWN	DESIGN REVIEW
CHECKED	REVISED AS-BUILT



SCALE: H. 1"=10', V. 1"=10' INSPECTOR'S BOOK

**14TH AVE NW BLVD**  
**IRRIGATION DETAILS**

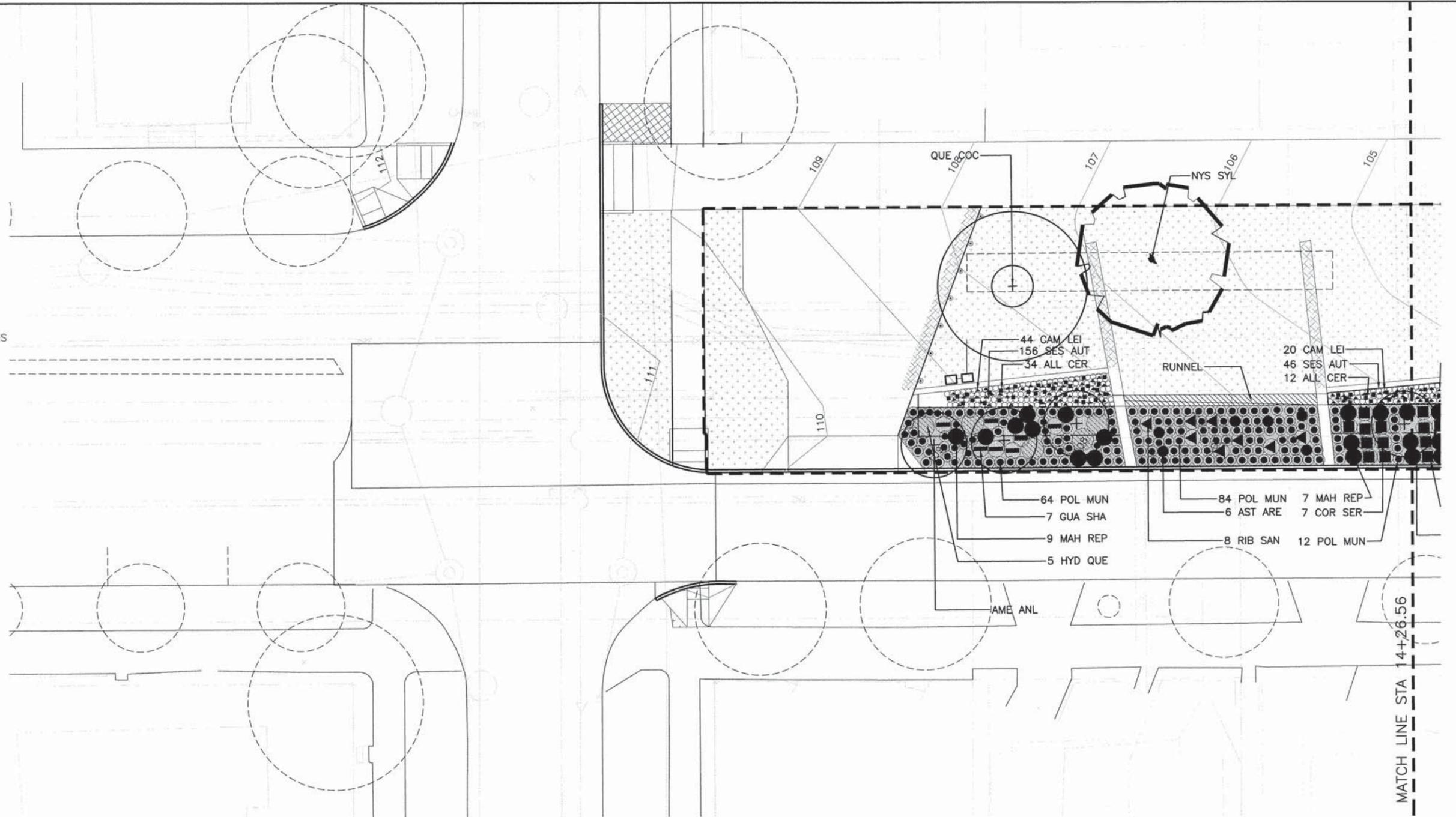
SDOT PROJECT NUMBER	209076
VAULT PLAN NO.	XXX-XXX
VAULT SERIAL NO.	XXX-XXX
SHEET	34 OF 45

**NOTES:**

1. ALL PLANTS IN ROW TO BE INSTALLED PER CITY OF SEATTLE STANDARDS PLANS.
2. FOR EXISTING TREES TO BE REMOVED SEE MATERIALS PLANS.
3. IN AREAS OF DISTURBANCE AT EXISTING VEGETATION TO REMAIN, REPAIR AND REPLACE PLANTING TO MATCH EXISTING. PREPARE PLANTING AREA TO INCLUDE FINE GRADING, COMPOST, SOIL AMENDMENTS AND MULCH

**LEGEND:**

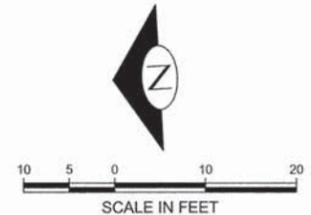
- - - - - PARK BOUNDARY
- EXISTING TREE TO REMAIN AND PROTECT
- ⊕ TREE, SYMBOL VARIES, SEE PLANS
- ▨ RESTORATION PLANTING APPROX. 440 SQ FEET TOTAL



MATCH LINE STA 14+26.56

# 90% Complete Street Improvement Plan

Not For Construction



14TH AVE NW BLVD PARK DPD PROJECT # XXXXXXXX

STATE OF WASHINGTON  
LANDSCAPE ARCHITECT  
DEBRA GUENTHER  
CERTIFICATE NO. 1022

**MITHUN**  
Pier 56  
1201 Alaskan Way  
Suite 200  
Seattle, WA 98101  
TEL 206 623-3344  
FAX 206 623-7005

REVIEWED BY SPU/WATER ENGINEERING	DESIGNED	INITIALS AND DATE
20.....	CHECKED	REVIEWED:
REVIEWED BY SPU/DRAINAGE	DRAWN	PROJECT MANAGER
20.....	CHECKED	REVISED AS-BUILT
APPROVED BY SDOT STREET IMPROVEMENT PERMITTING	DESIGN REVIEW	
20.....		

NAME OR INITIALS AND DATE  
INITIALS AND DATE  
PROJECT MANAGER  
REVISED AS-BUILT



SCALE: H. 1"=10', V. 1"=10' INSPECTOR'S BOOK

**14TH AVE NW BLVD  
PLANTING PLAN NORTH**

SDOT PROJECT NUMBER	209076
VAULT PLAN NO.	XXX-XXX
VAULT SERIAL NO.	XXX-XXX
SHEET	36 OF 45

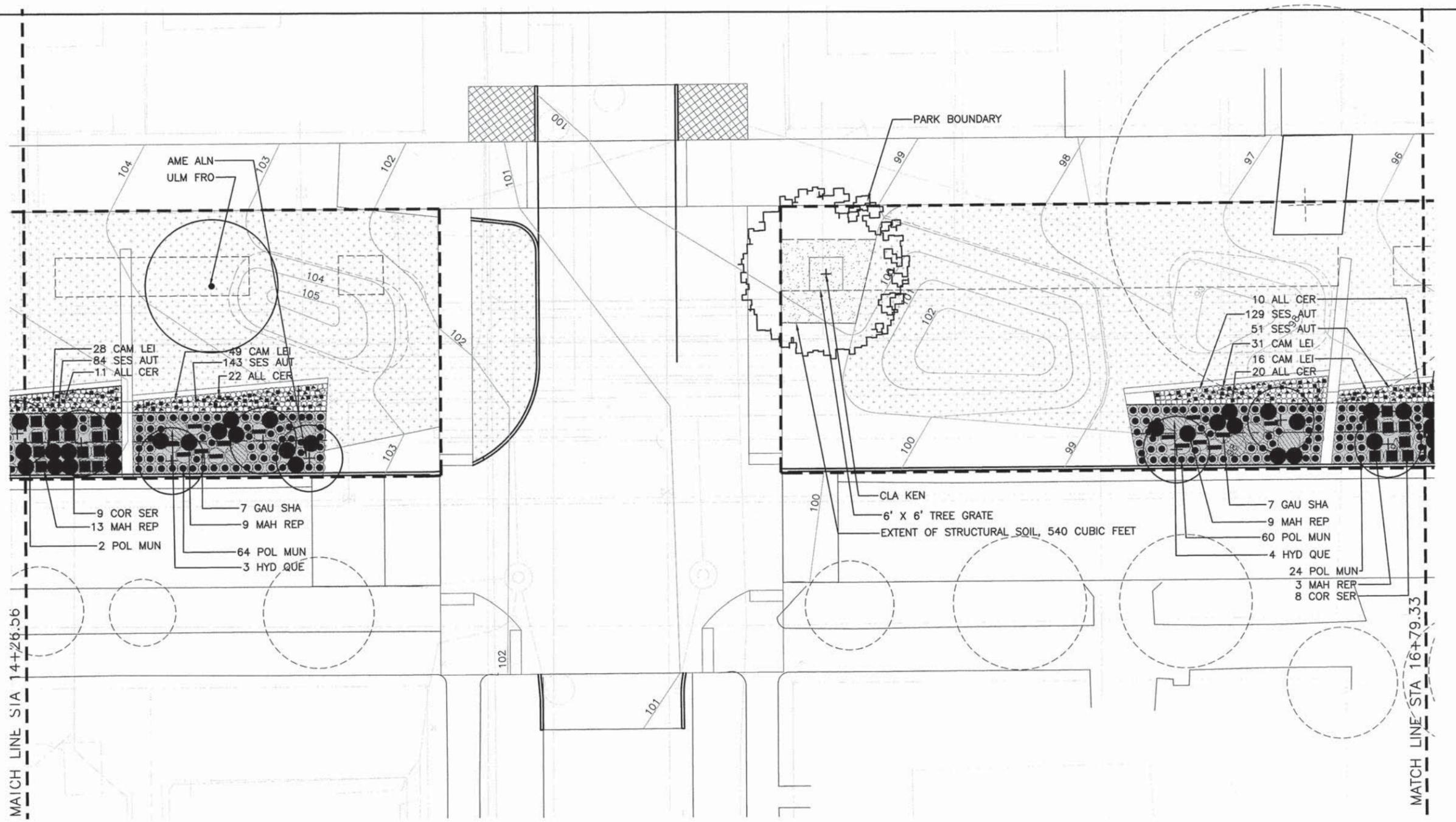
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**NOTES:**

1. ALL PLANTS IN ROW TO BE INSTALLED PER CITY OF SEATTLE STANDARDS PLANS.
2. FOR EXISTING TREES TO BE REMOVED SEE MATERIALS PLANS. IN AREAS OF DISTURBANCE AT EXISTING VEGETATION TO REMAIN, REPAIR AND REPLACE PLANTING TO MATCH EXISTING. PREPARE PLANTING AREA TO INCLUDE FINE GRADING, COMPOST, SOIL AMENDMENTS AND MULCH

**LEGEND:**

- PARK BOUNDARY
- EXISTING TREE TO REMAIN AND PROTECT
- TREE, SYMBOL VARIES, SEE PLANS
- RESTORATION PLANTING APPROX. 440 SQ FEET TOTAL



MAICH LINE SIA 14+26.56

MAICH LINE STA 16+79.33



# 90% Complete Street Improvement Plan

Not For Construction

14TH AVE NW BLVD PARK DPD PROJECT # XXXXXXXX



**MITHUN**

Pier 56  
1201 Alaskan Way  
Suite 200  
Seattle, WA 98101  
TEL 206 623-3344  
FAX 206 623-7005

REVIEWED BY SPU/WATER ENGINEERING	NAME OR INITIALS AND DATE	INITIALS AND DATE
DESIGNED	20.....	REVIEWED:
CHECKED		PROJECT MANAGER
DRAWN		
CHECKED		
APPROVED BY SDOT STREET IMPROVEMENT PERMITTING	DESIGN REVIEW	REVISED AS-BUILT
20.....		

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



SCALE: H. 1"=10', V. 1"=10' INSPECTOR'S BOOK

**14TH AVE NW BLVD**  
PLANTING PLAN MIDDLE

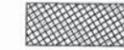
SDOT PROJECT NUMBER	209076
VAULT PLAN NO.	XXX-XXX
VAULT SERIAL NO.	XXX-XXX
SHEET	37 OF 45

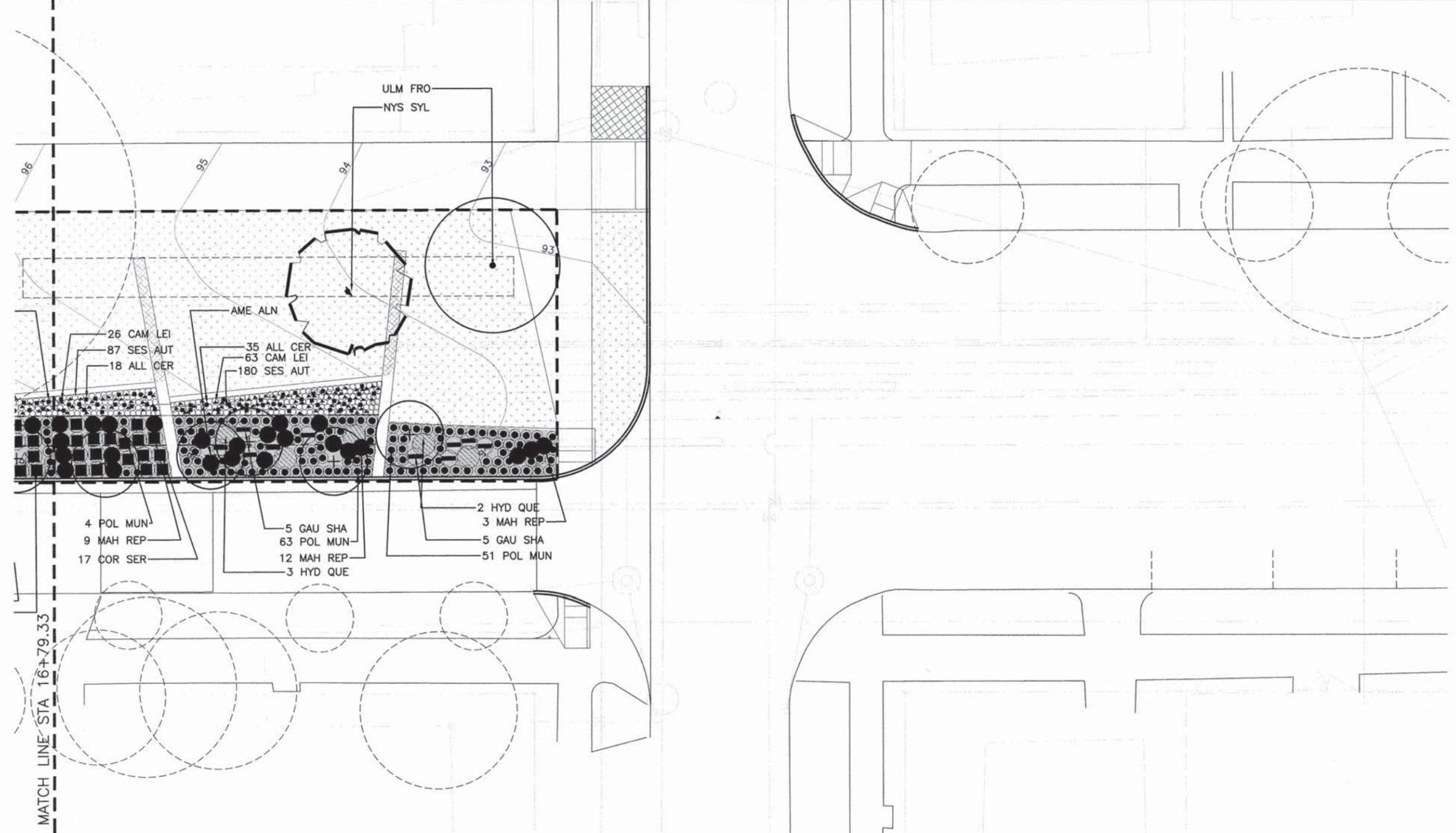
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**NOTES:**

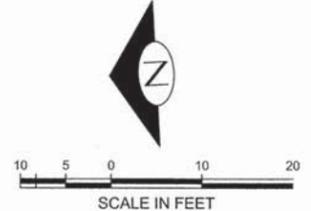
1. ALL PLANTS IN ROW TO BE INSTALLED PER CITY OF SEATTLE STANDARDS PLANS.
2. FOR EXISTING TREES TO BE REMOVED SEE MATERIALS PLANS.
3. IN AREAS OF DISTURBANCE AT EXISTING VEGETATION TO REMAIN, REPAIR AND REPLACE PLANTING TO MATCH EXISTING. PREPARE PLANTING AREA TO INCLUDE FINE GRADING, COMPOST, SOIL AMENDMENTS AND MULCH

**LEGEND:**

-  PARK BOUNDARY
-  EXISTING TREE TO REMAIN AND PROTECT
-  TREE, SYMBOL VARIES, SEE PLANS
-  RESTORATION PLANTING APPROX. 440 SQ FEET TOTAL



VAULT SERIAL NO.	DATE	MARK	NATURE	MADE CHK'D	REV'D
XXXXXX					



# 90% Complete Street Improvement Plan

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\* \* \* \* \* XXXX-XXX-# \* \* \* \* \*



**MITHUN**  
Pier 56  
1201 Alaskan Way  
Suite 200  
Seattle, WA 98101  
TEL 206 623-3344  
FAX 206 623-7005

REVIEWED BY SPU/WATER ENGINEERING ..... 20.....	NAME OR INITIALS AND DATE DESIGNED .....	INITIALS AND DATE REVIEWED: .....
REVIEWED BY SPU/DRAINAGE ..... 20.....	DRAWN .....	PROJECT MANAGER .....
APPROVED BY SDOT STREET IMPROVEMENT PERMITTING ..... 20.....	DESIGN REVIEW .....	REVISED AS-BUILT .....

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



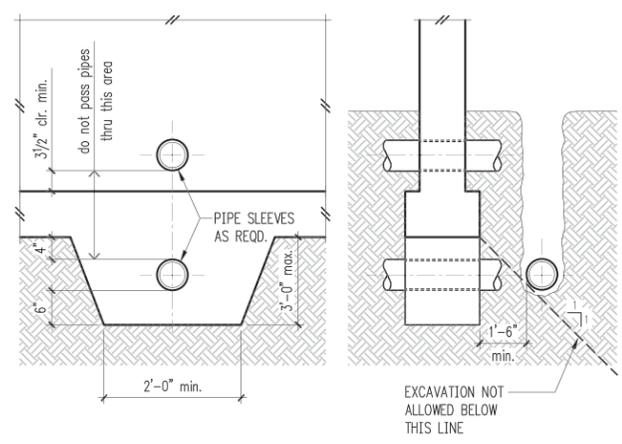
SCALE: H. 1"=10', V. 1"=10' INSPECTOR'S BOOK

14TH AVE NW BLVD PARK	DPD PROJECT # XXXXXXXX
<b>14TH AVE NW BLVD</b>	
<b>PLANTING PLAN SOUTH</b>	
SDOT PROJECT NUMBER 209076	VAULT PLAN NO. XXX-XXX
VAULT SERIAL NO. XXX-XXX	SHEET 38 OF 45

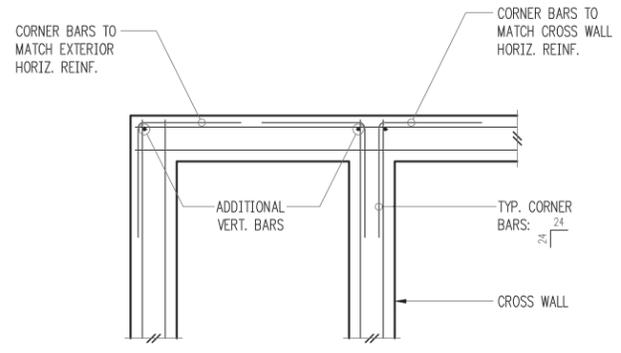




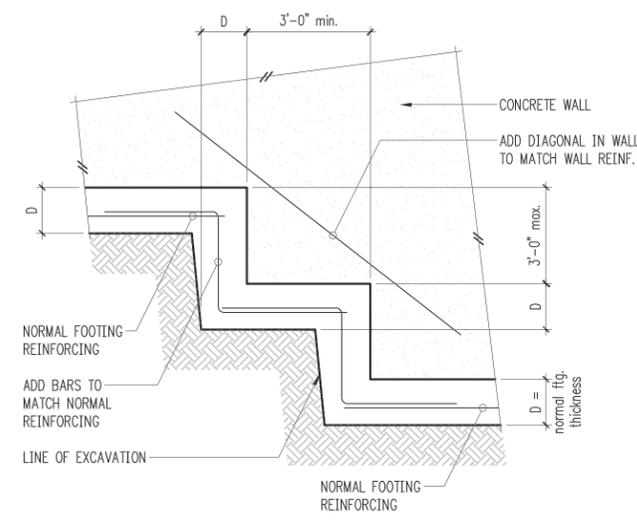
VAULT SERIAL NO.	DATE	MARK	NATURE	REVISIONS
XXXXXX				MADE CHKD REV'D



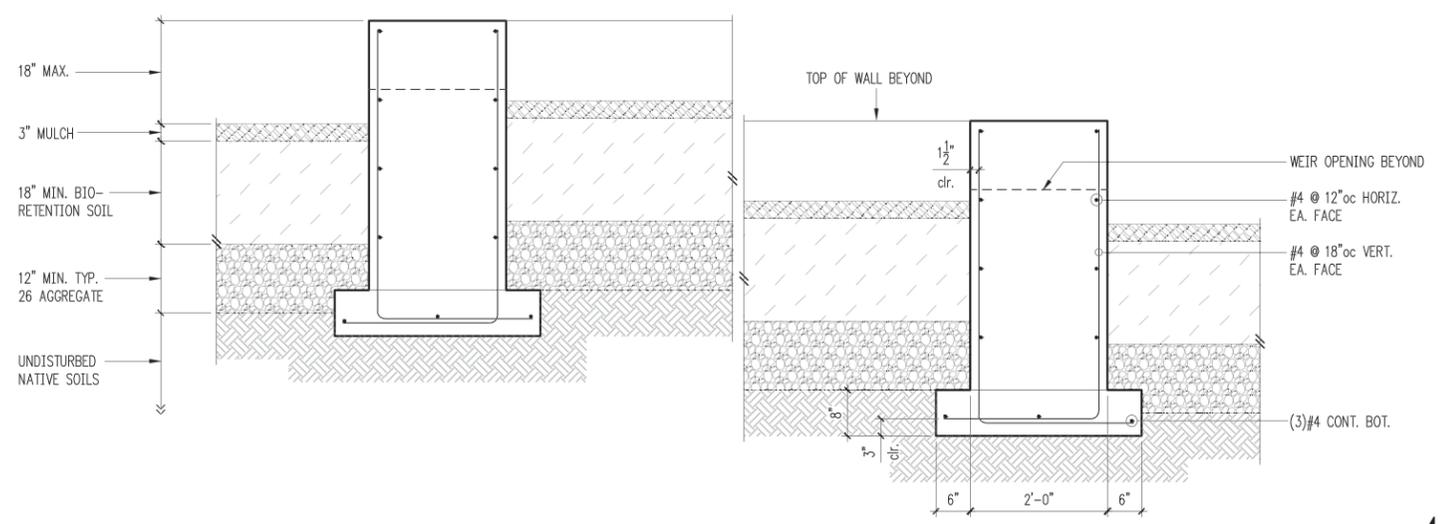
5 Pipe and Trench Locations



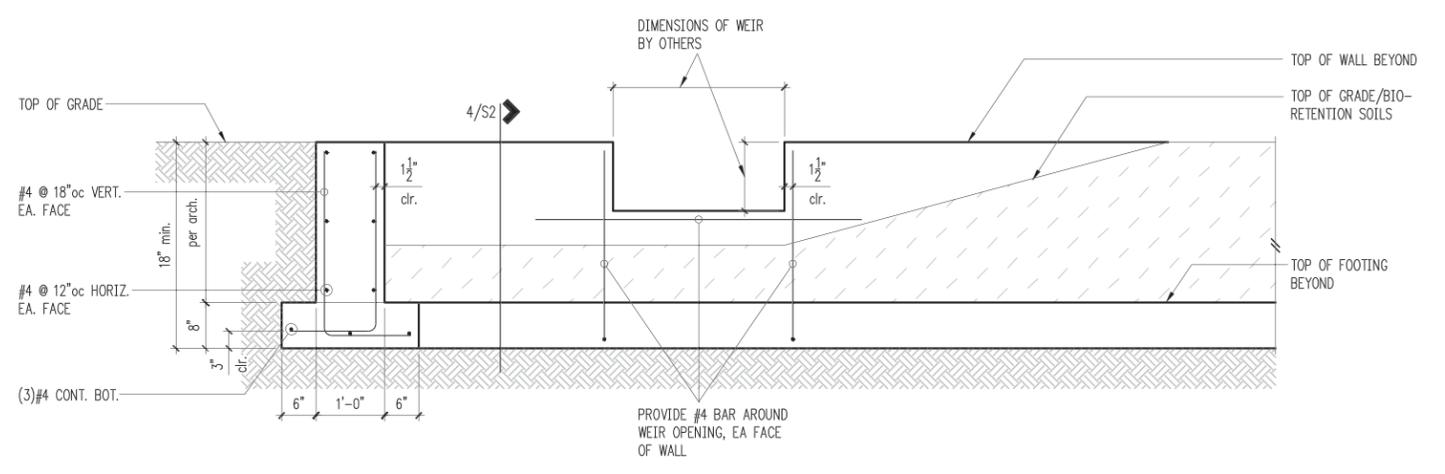
2 Double Curtain  
Typical Corner Bars at Concrete Walls and Footings



6 Typical Stepped Footing



4



8

# 90% Complete Street Improvement Plan

## Not For Construction



REVIEWED BY SPU/WATER ENGINEERING	NAME OR INITIALS AND DATE	INITIALS AND DATE
..... 20.....	DESIGNED	REVIEWED:
REVIEWED BY SPU/DRAINAGE	CHECKED	PROJECT MANAGER
..... 20.....	DRAWN	DESIGNED AS-BUILT.....
APPROVED BY SDOT STREET IMPROVEMENT PERMITTING	DESIGN REVIEW	
..... 20.....		

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



SCALE: H. 1"=10', V. 1"=10' INSPECTOR'S BOOK

14TH AVE NW BLVD PARK DPD PROJECT # XXXXXXXX

14TH AVE NW BLVD  
PLANTING PLAN AND SCHEDULE

SDOT PROJECT NUMBER	209076
VAULT PLAN NO.	XXX-XXX
VAULT SERIAL NO.	XXX-XXX
SHEET	41 OF 45

**ELECTRICAL SYMBOLS LEGEND**

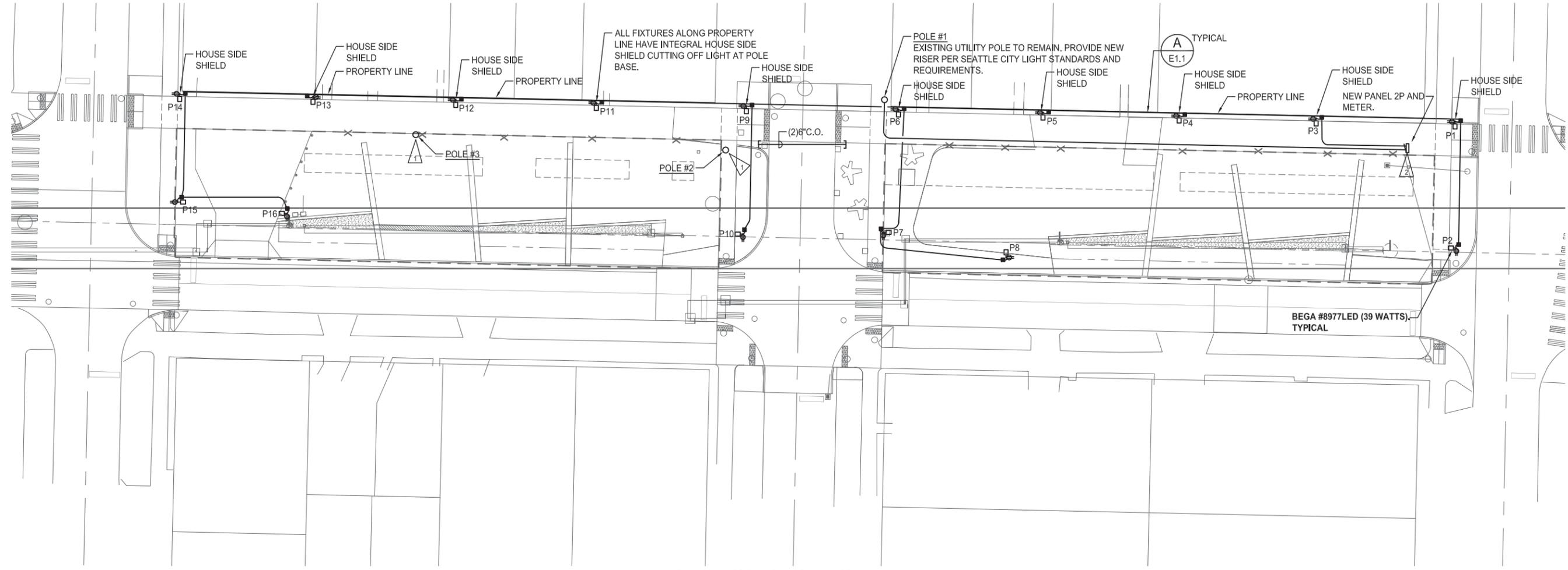
- DETAIL/SECTION IDENTIFICATION: A = DETAIL/SECTION LETTER, B = SHEET NUMBER WHERE DETAIL/SECTION IS DRAWN.
- CONDUIT CONCEALED. HASH MARKS INDICATE NUMBER OF #12 CONDUCTORS IN CODE SIZE CONDUIT. NO HASH MARKS INDICATES 2-#12 CONDUCTORS PLUS GROUND IN 3/4" CONDUIT, LONG HASH MARKS INDICATES NEUTRAL CONDUCTOR. INDICATES GROUND CONDUCTOR.
- A-1,3 ADJACENT TO ARROW INDICATES HOMERUN OF CONDUCTORS IN CONDUIT FOR CIRCUITS 1 AND 3 TO PANEL "A".
- JUNCTION BOX.
- P1 LIGHT POLE NUMBER (P1, P2, P3, ETC.)
- PC PHOTOCCELL, MOUNT TOP OF PANEL ENCLOSURE FACING NORTH.
- POWER PANEL
- DUPLEX RECEPTACLE 20A, 125 VOLT WALL MOUNTED AT 18 INCHES AFF. G = GROUND FAULT INTERRUPTING.
- GROUND PER NEC
- (E) EXISTING
- WP WEATHERPROOF
- HANDHOLE

**GENERAL NOTES:**

1. CONTRACTOR SHALL REVIEW SURVEY AND HAND DIG WHERE UTILITIES CROSS TO ALLOW INSTALLATION OF NEW ELECTRICAL CONDUITS.
2. SEE ARCHITECTURAL DRAWINGS FOR ELECTRICAL CABINET / CONTROLLER DETAILS TO BE INCLUDED IN ELECTRICAL BID.

**ELECTRICAL NOTES:**

1. CONTRACTOR SHALL REMOVE EXISTING STREET LIGHT POLE AND AERIAL POWER FEED BACK TO SOURCE (POLE#1). ALL REMOVED STREET LIGHT POLES AND FIXTURES TO BE TURNED OVER TO SEATTLE CITY LIGHT AT THE CONTRACTORS EXPENSE. CONTACT RAJINDER KUMAR AT 206.386.1765 TO ARRANGE RETURN / DELIVERY OF MOVED POLES.
2. NEW PANEL 2P, METER AND LIGHTING CONTROLS SHALL BE MOUNTED IN IRRIGATION CABINET. SEE IRRIGATION DRAWINGS FOR ADDITIONAL INFORMATION.



**ELECTRICAL SITE PLAN**  
SCALE: 1"=20'-0"

# 90% Complete Street Improvement Plan

## Not For Construction

VAULT SERIAL NO.	DATE	NATURE	MADE CHK'D REV'D
XXXXX			

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 BrickeA Jun-19-15 12:47pm  
 \*

 CROSS ENGINEERS, INC 6509 6th Avenue Tacoma, WA 98406 info@crossengineers.com	 <b>MITHUN</b> Pier 56 1201 Alaskan Way Suite 200 Seattle, WA 98101 TEL 206 623-3344 FAX 206 623-7005	 STEVEN L. HUBBS REGISTERED PROFESSIONAL ENGINEER 6/19/15	REVIEWED BY SPU/WATER ENGINEERING ..... 20..... REVIEWED BY SPU/DRAINAGE ..... 20..... APPROVED BY SDOT STREET IMPROVEMENT PERMITTING ..... 20.....	NAME OR INITIALS AND DATE DESIGNED ..... CHECKED ..... DRAWN ..... CHECKED ..... DESIGN REVIEW ..... <small>All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.</small>	INITIALS AND DATE REVIEWED: ..... PROJECT MANAGER ..... REVISED AS-BUILT.....	 City of Seattle <b>Seattle Department of Transportation</b>	14TH AVE NW BLVD PARK <h2 style="font-size: 2em;">14TH AVE NW BLVD</h2> ELECTRICAL SITE PLAN	SDOT PROJECT NUMBER 209076 VAULT PLAN NO. XXX-XXX VAULT SERIAL NO. XXX-XXX SHEET 42 OF 45
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SCALE: H. 1"=10', V. 1"=10' INSPECTOR'S BOOK

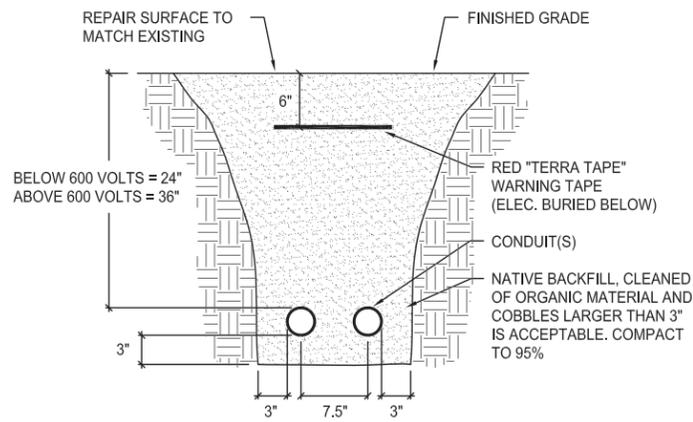
NEMA 3R  
SURFACE MOUNTING  
10,000 AIC

PANEL SCHEDULE		120/240 VOLTS 1PHASE 3WIRE 200 AMPS WITH 125 MAIN BREAKER	
NO.	LOAD DESCRIPTION	KVA	TRIP AMPS
1	SITE LIGHTS	.75	20
3	POLE RECEPTACLES	.90	
5	POLE RECEPTACLES	1.08	
7	POLE RECEPTACLES	.90	
9	SPARE		
11	SPARE		
13	SPACE		
15			
17			
19			
21			
23			
25			
27			
29	SPACE		
30	SPACE		

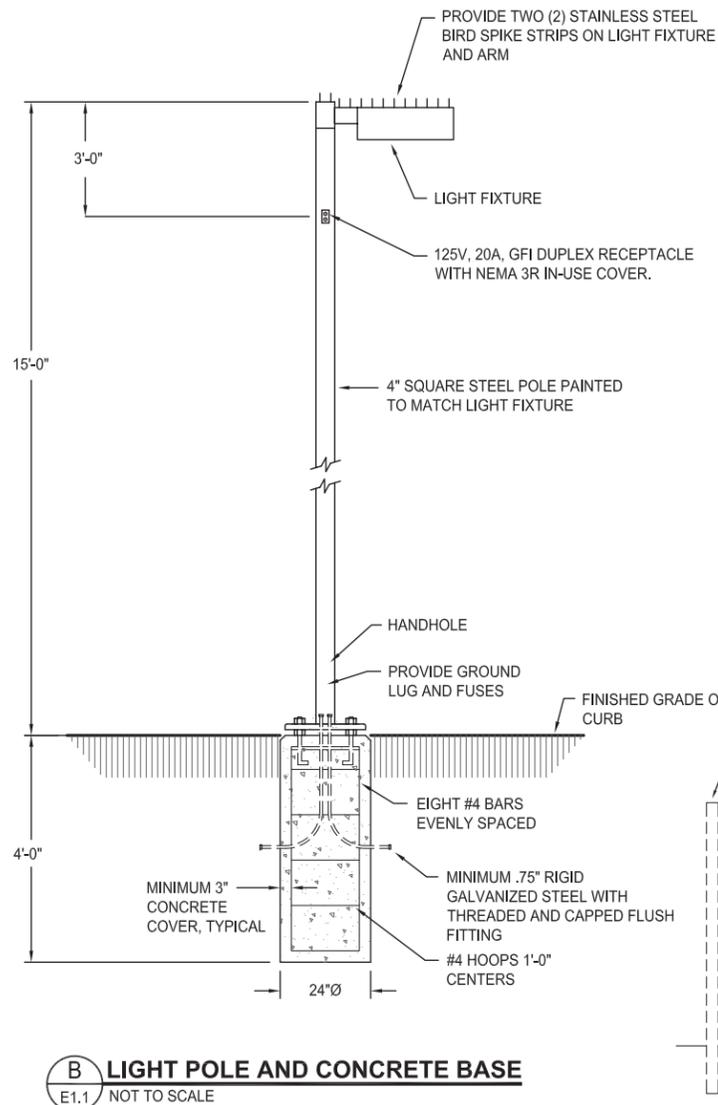
REMARKS: SERVICE ENTRANCE RATED  
CONNECTED LOAD: - KVA - AMPS  
DEMAND LOAD: - KVA - AMPS

PANEL 2P LOAD CALCULATIONS

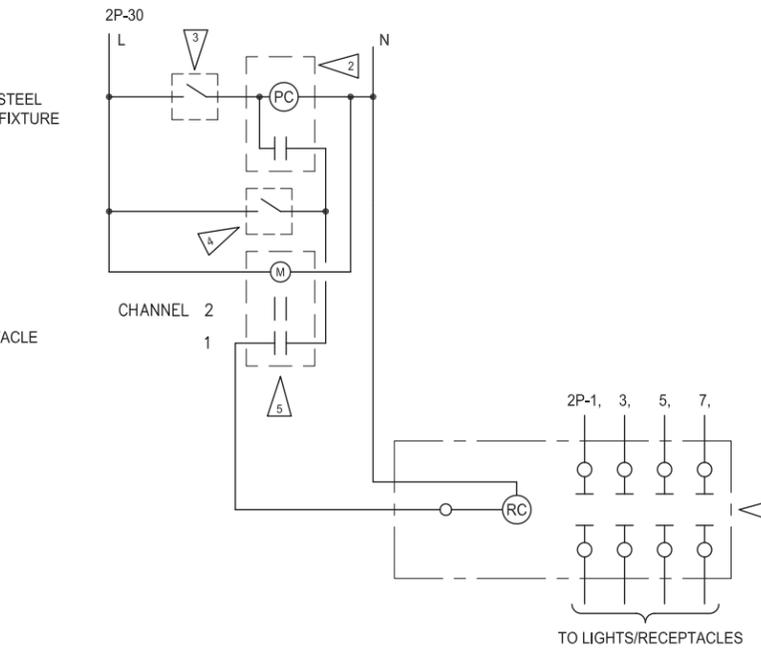
SERVICE	KVA LOAD	FACTOR	NEC REF.	DEMAND LOAD
LIGHTING	-	X 1.25	220-141	= -
RECEPTS TO 10KW	-	X 1.00	220-44	= -
RECEPTS OVER 10KW	-	X 0.50	220-44	= -
MOTORS (LARGEST)	-	X 1.25	430-24	= -
MOTORS	-	X 1.00	430-24	= -
KITCHEN EQUIP.	-	X 1.00	220-56	= -
WELDERS	-	X 1.00	630-11b (FPN)	= -
AIR CONDITIONING	-	X 1.00	220-50	= -
ELECTRIC HEAT	-	X 1.00	220-51	= -
MISCELLANEOUS	-	X 1.00		= -
TOTAL CONNECTED	- KVA (- AMPS)			TOTAL DEMAND - KVA (- AMPS)



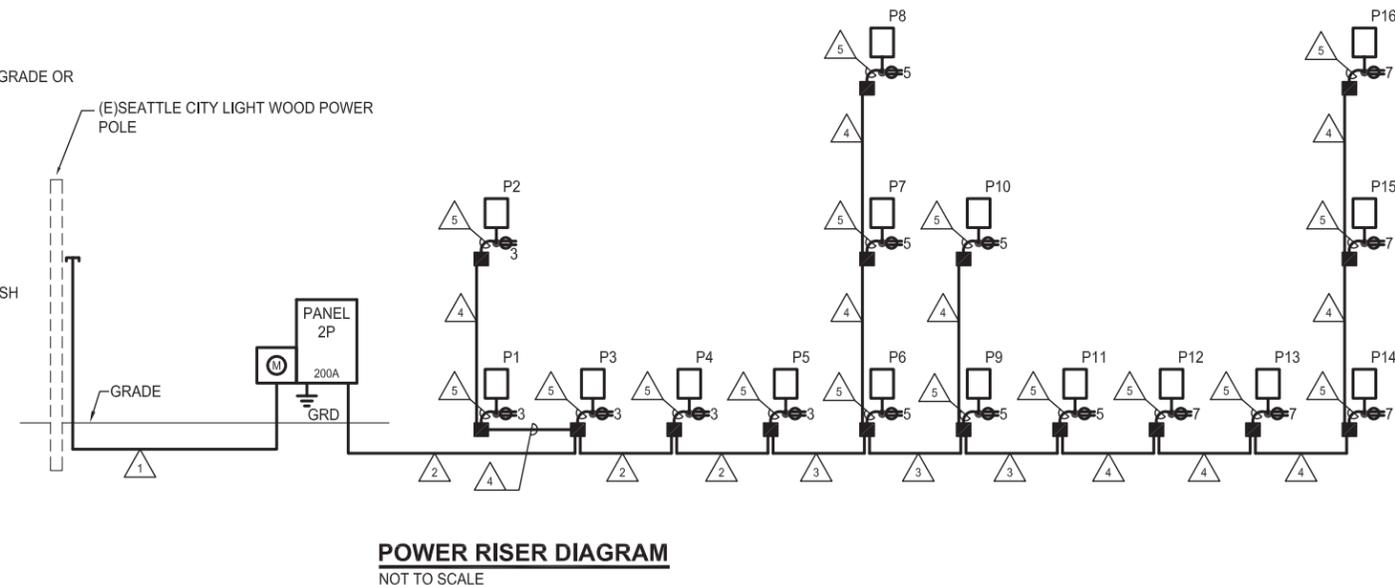
**A CONDUIT TRENCHING**  
E1.1 NOT TO SCALE



**B LIGHT POLE AND CONCRETE BASE**  
E1.1 NOT TO SCALE



**LIGHTING CONTROL DIAGRAM**  
NO SCALE



**POWER RISER DIAGRAM**  
NOT TO SCALE

**ELECTRICAL NOTES:**

- ELECTRICAL HELD LIGHTING CONTACTORS 120V, 60 Hz COIL, SQUARE D 8903 L0-20, L0-40 OR APPROVED. PROVIDE ALL CONTACTORS IN A SINGLE NEMA 1 ENCLOSURE MOUNTED ADJACENT TO PANEL.
- PHOTOCELL MOUNTED ON PANEL ENCLOSURE FACING NORTH. PRECISION CONTROLS T15 (120V) OR APPROVED.
- MOUNT TOGGLE SWITCH ABOVE PANEL. PROVIDE LABEL "PHOTOCELL DISCONNECT SWITCH, NORMALLY ON".
- MARK TIME #9000 SERIES, 0-6 HOUR TIME SWITCH, WITHOUT "HOLD" FEATURE, OR APPROVED. MOUNT SWITCH ABOVE PANEL. PROVIDE LABEL "MANUAL SWITCH TURN ON ALL EXTERIOR PARKING LIGHTS, NORMALLY OFF".
- TIME CLOCK. TORK DGLC, MOUNTED ADJACENT TO PANEL.

**CONDUIT AND CONDUCTOR SCHEDULE:**

- 3"C-(3)#3/0 CU
- 2"C-(2)#8 CU & (1)#10 CU GRD - LIGHTING  
-(6)#10 CU & (1)#10 CU GRD - RECEPTACLES
- 2"C-(2)#8 CU & (1)#10 CU GRD - LIGHTING  
-(4)#10 CU & (1)#10 CU GRD - RECEPTACLES
- 2"C-(2)#8 CU & (1)#10 CU GRD - LIGHTING  
-(2)#10 CU & (1)#10 CU GRD - RECEPTACLES
- 3/4"C-(2)#10 CU & (1)#10 CU GRD - LIGHTING  
-(2)#10 CU & (1)#10 CU GRD - RECEPTACLE

# 90% Complete Street Improvement Plan

## Not For Construction

14TH AVE NW BLVD PARK



REVIEWED BY SPU/WATER ENGINEERING	20.....
REVIEWED BY SPU/DRAINAGE	20.....
APPROVED BY SDOT STREET IMPROVEMENT PERMITTING	20.....

NAME OR INITIALS AND DATE	INITIALS AND DATE
DESIGNED	REVIEWED:
CHECKED	PROJECT MANAGER
DRAWN	REVISED AS-BUILT.....
CHECKED	
DESIGN REVIEW	

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



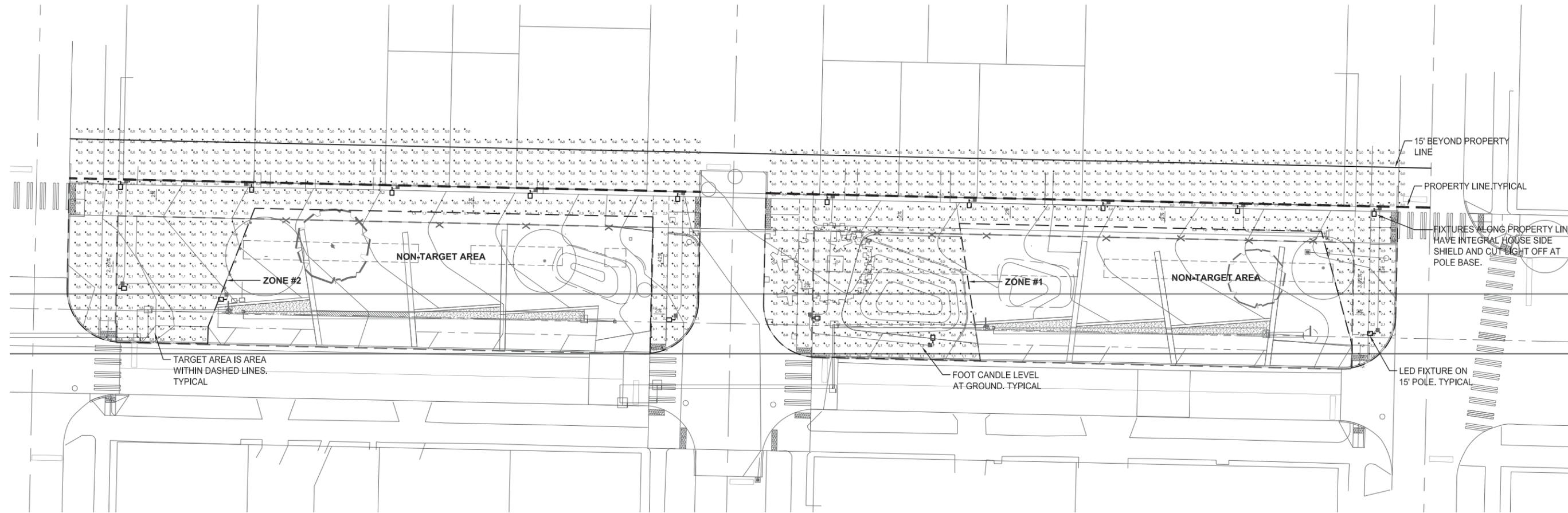
SCALE: H. 1"=10', V. 1"=10' INSPECTOR'S BOOK

14TH AVE NW BLVD  
POWER RISER/PANEL SCHED.

SDOT PROJECT NUMBER	209076
Vault Plan No.	XXX-XXX
Vault Serial No.	XXX-XXX
SHEET	43 OF 45

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 \*

AREA	AVERAGE FOOTCANDLE	MAXIMUM	MINIMUM	MAX/MIN
ZONE 1	1.3	2.6	0.5	5.2:1
ZONE 2	1.4	2.6	0.5	5.2:1



**ELECTRICAL SITE PLAN**   
SCALE: 1"=20'-0"

# 90% Complete Street Improvement Plan

## Not For Construction

14TH AVE NW BLVD PARK

14TH AVE NW BLVD  
PARK PHOTOMETRIC PLAN

SDOT PROJECT NUMBER  
209076  
VAULT PLAN NO.  
XXX-XXX  
VAULT SERIAL NO.  
XXX-XXX  
SHEET 44 OF 45



REVIEWED BY SPU/WATER ENGINEERING	20.....
REVIEWED BY SPU/DRAINAGE	20.....
APPROVED BY SDOT STREET IMPROVEMENT PERMITTING	20.....

NAME OR INITIALS AND DATE	INITIALS AND DATE
DESIGNED .....	REVIEWED: .....
CHECKED .....	PROJECT MANAGER .....
DRAWN .....	REVISED AS-BUILT.....
CHECKED .....	
DESIGN REVIEW .....	

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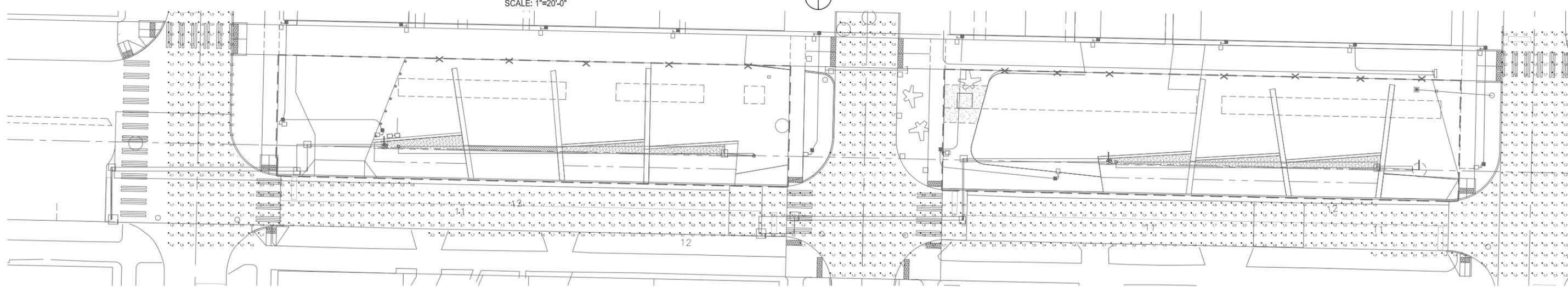
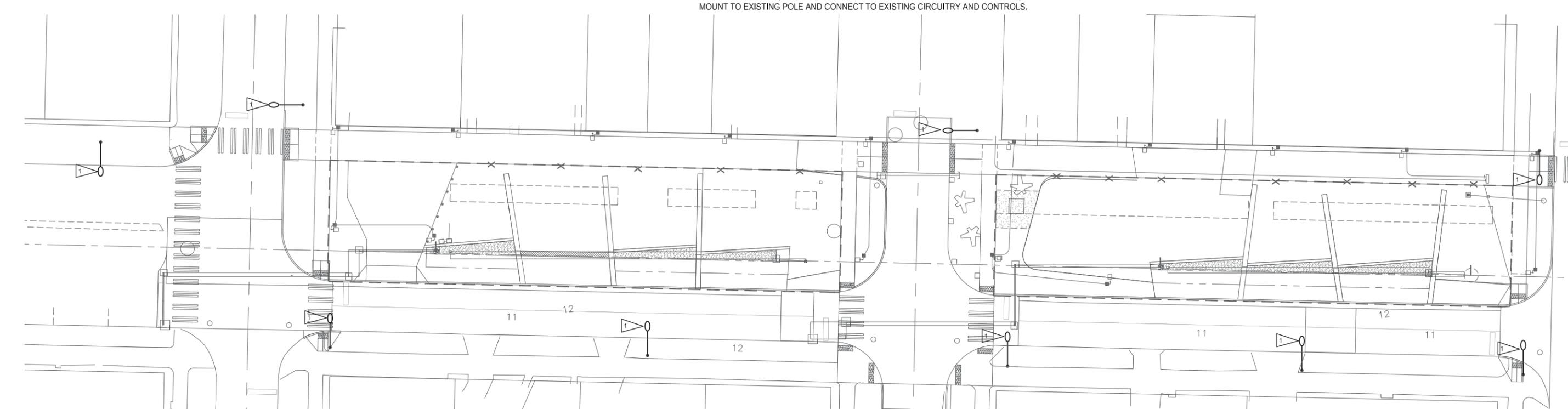
SCALE: H. 1"=10', V. 1"=10' INSPECTOR'S BOOK

N:\Jobs\2014\14-063\Draws\14-063-PH1.dwg  
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 \*

**ELECTRICAL NOTES:**

1 CONTRACTOR SHALL REMOVE EXISTING HPS STREET LIGHT FIXTURE FROM EXISTING POLE/ARM, PROVIDE NEW LEOTEK # GC1-60F-MV-NW-2-GY-700-PCR5-WL. MOUNT TO EXISTING POLE AND CONNECT TO EXISTING CIRCUITRY AND CONTROLS.

AREA	AVERAGE FOOTCANDLE	MAXIMUM	MINIMUM	MAX/MIN
ZONE 1	1.6	2.4	0.7	3.4:1



# 90% Complete Street Improvement Plan

## Not For Construction

VAULT SERIAL NO.	DATE	NATURE	MADE	CHK'D	REV'D
XXXXX					

N:\Jobs\2015\15-074\Drawings\15-074-PH2.dwg  
BricelA Jun-19-15 12:50pm

**CROSS ENGINEERS, INC.**  
6509 6th Avenue  
Tacoma, WA 98406  
Phone: (253) 759-0118  
info@crossengineers.com

**MITHUN**  
Pier 56  
1201 Alaskan Way  
Suite 200  
Seattle, WA 98101  
TEL 206 623-3344  
FAX 206 623-7005

**STEVEN L. HUBBS**  
REGISTERED PROFESSIONAL ENGINEER  
6/19/15

REVIEWED BY SPU/WATER ENGINEERING	20.....
REVIEWED BY SPU/DRAINAGE	20.....
APPROVED BY SDOT STREET IMPROVEMENT PERMITTING	20.....

NAME OR INITIALS AND DATE	INITIALS AND DATE
DESIGNED	REVIEWED:
CHECKED	PROJECT MANAGER
DRAWN	REVISED AS-BUILT.....
CHECKED	
DESIGN REVIEW	

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

City of Seattle  
**Seattle Department of Transportation**

SCALE: H. 1"=10', V. 1"=10' INSPECTOR'S BOOK

14TH AVE NW BLVD PARK

### 14TH AVE NW BLVD STREET LIGHTING PLAN

SDOT PROJECT NUMBER	209076
VAULT PLAN NO.	XXX-XXX
VAULT SERIAL NO.	XXX-XXX
SHEET	45 OF 45