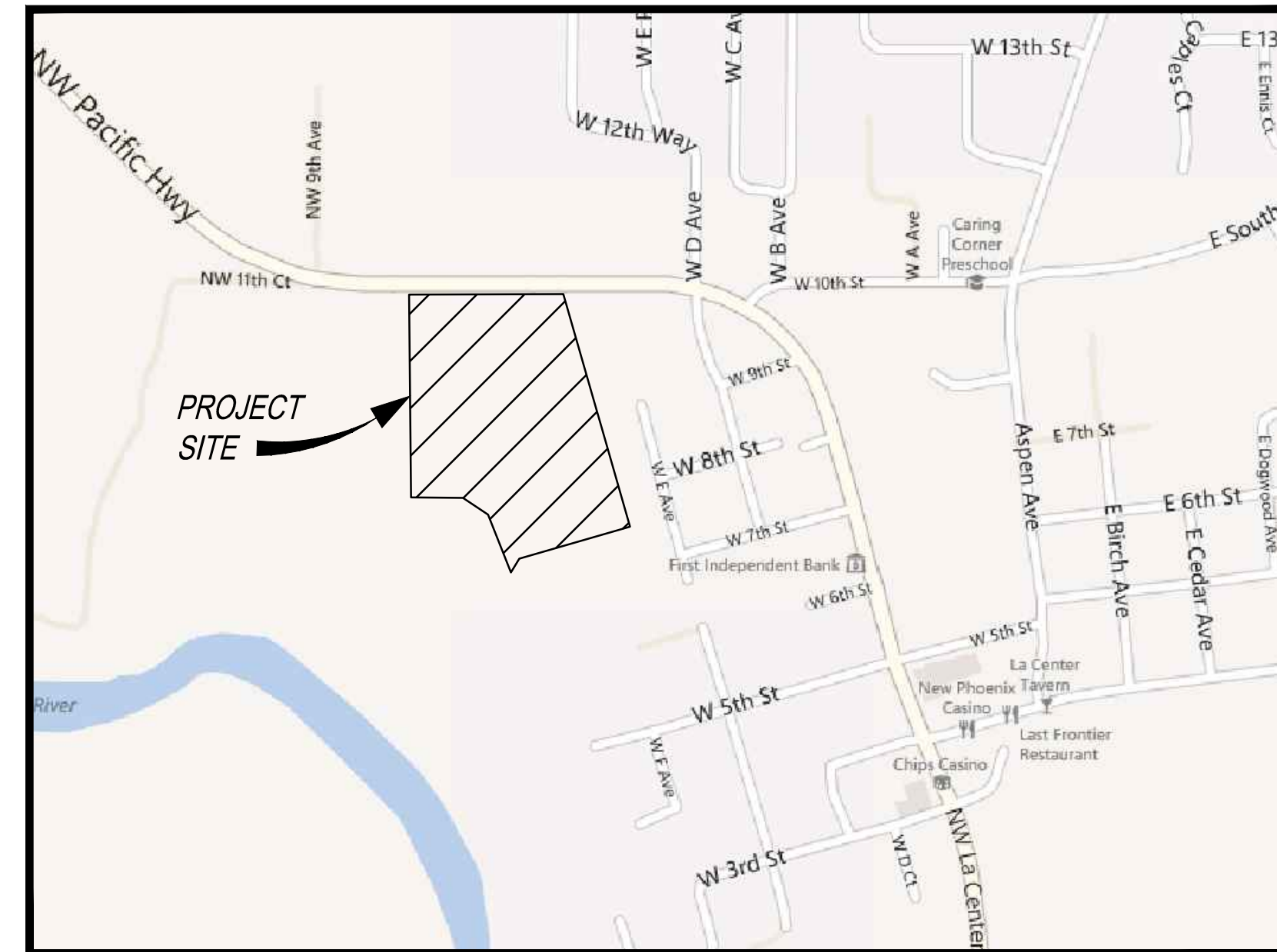
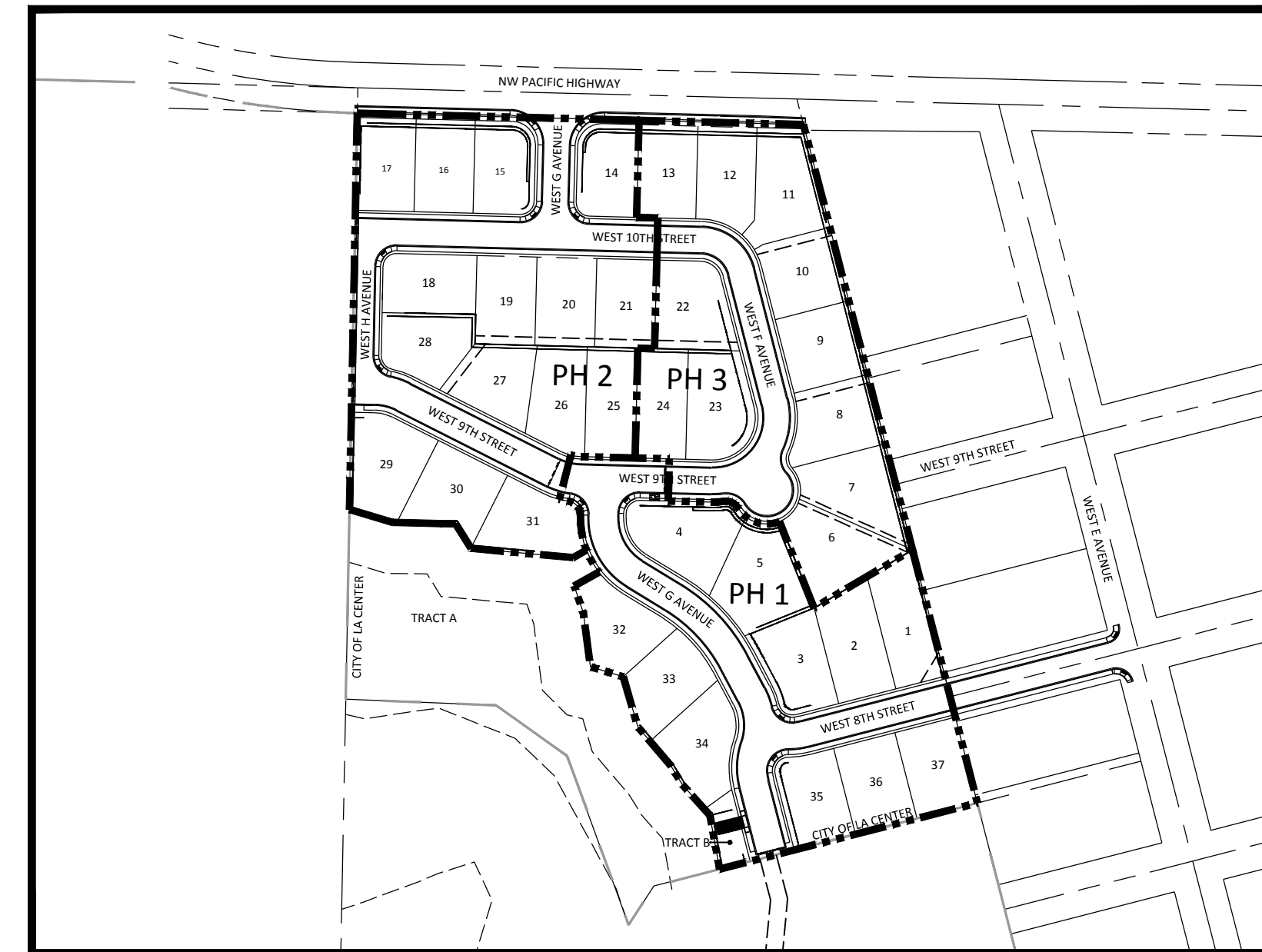


KAY'S SUBDIVISION

LA CENTER, WASHINGTON



VICINITY MAP
NO SCALE



SITE MAP
NO SCALE

SHEET INDEX

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LEGAL DESCRIPTION

A PORTION OF THAT TRACT OF LAND DESCRIBED IN QUIT CLAIM DEED TO WILLIAM D. KAYS AND PHILLIS E. KAYS, TRUSTEES, PER A.F. #9359504, TOGETHER WITH A PORTION OF THAT TRACT OF LAND DESCRIBED IN QUIT CLAIM DEED TO WILLIAM C. BARNHART, PER A.F. #9409080208 RECORDS OF CLARK COUNTY LOCATED IN THE NW 1/4 OF SECTION 3, T.4.N., R.1.E., W.M., CLARK COUNTY, WASHINGTON BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE NORTH LINE OF SAID SECTION 3, WHICH BEARS EAST 672.00 FEET FROM THE NORTHWEST CORNER THEREOF; THENCE CONTINUING ALONG SAID LINE, S88°31'43"E, 520.57 FEET TO THE INTERSECTION OF SAID LINE WITH THE NORTHERLY PROJECTION OF THE WESTERLY LINE OF "RASMUSSEN'S ADDITION TO LA CENTER", A PLAT OF RECORD; THENCE ALONG SAID PLAT LINE, AND NORTHERLY PROJECTION THEREOF, S14°23'04"E 861.17 FEET; THENCE LEAVING SAID LINE, S75°37'22"W, 395.61 FEET; THENCE S33°19'13"W, 55.00 FEET; THENCE N20°00'13"W, 212.66 FEET; THENCE N54°24'15"W, 103.17 FEET; THENCE N87°36'57"W, 178.63 FEET TO THE EAST LINE OF THAT TRACT OF LAND DESCRIBED IN QUIT CLAIM DEED TO DONALD E. BARNHART PER A.F. #9409080206 SAID DEED RECORDS; THENCE PARALLEL WITH AND 672.00 FEET DISTANT FROM THE WEST LINE OF THE NW 1/4 OF SAID SECTION 3, N01°07'54"E, 724.58 FEET TO THE POINT OF BEGINNING.

EXCEPT THE NORTH 30.00 FEET LYING WITHIN THE RIGHT-OF-WAY LINE OF COUNTY ROAD NO. 1 (PACIFIC HWY)

CONTAINING 11.8 ACRES

GRADING NOTES

- ALL EARTHWORK SHALL BE DONE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT BY COLUMBIA WEST ENGINEERING DATED MAY 19, 2008. THE GEOTECHNICAL ENGINEER SHALL REVIEW THE GRADING AND EARTHWORK CONSTRUCTION PLANS PRIOR TO FINAL PLAN APPROVAL AND OBSERVE, INSPECT, AND DOCUMENT EARTHWORK ACTIVITIES WITH COPIES PROVIDED TO THE CITY.

OWNER / DEVELOPER

WARAC, LLC
JERRY NUTTER
7211-A NE 43RD AVENUE
VANCOUVER, WA 98661
(360) 253-1100
jnutter@nuttercorp.com

UTILITIES

AT&T COMMUNICATIONS	(800) 252-1310
COMCAST CABLE	(253) 833-2343
CLARK PUBLIC UTIL. ELECTRIC	(253) 833-2343
CLARK P.U.D. WATER	(253) 833-2343
CITY OF LA CENTER	(360) 263-7665
NW NATURAL	(503) 220-2415
TDS TELECOM	(877) 407-6235

PROJECT ENGINEER

MacKay Sposito

1325 SE TECH CENTER DRIVE, SUITE 140
VANCOUVER, WA 98683
PHONE (360) 695-3411
www.mackaysposito.com

HORIZONTAL DATUM

THE WASHINGTON SOUTH STATE PLANE COORDINATE SYSTEM, (ZONE 4602) NAD83(91) BASED ON THE FOUND CLARK COUNTY MONUMENT 900_NW339ST MARKING THE SE CORNER OF SECTIONS 33.

VERTICAL DATUM

THE ELEVATIONS SHOWN ON THIS MAP ARE NGVD29(47) DATUM. BASED ON FOUND CLARK COUNTY MONUMENT 900_NW339ST. PUBLISHED ELEVATION OF 146.97' WAS HELD.

FIRE DISTRICT PRIOR TO CPU

FIRE DISTRICT NO.	
SIGNED BY	DATE

CLARK PUBLIC UTILITIES - WATER

SIGNED BY	DATE
RIO #	

CITY PUBLIC WORKS DIRECTOR DATE

CITY ENGINEER DATE

KAY'S SUBDIVISION
LA CENTER, WASHINGTON

COVER SHEET

REVISIONS:

JOB NO.: 15472/15695
DATE: 4/22/2015
SCALE: NO SCALE
DESIGNED BY: BT
DRAWN BY: AJS
CHECKED BY:

100% PLAN SET

C0.0

"CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF LA CENTER ENGINEERING STANDARDS FOR CONSTRUCTION"



REVISIONS:

JOB NO.: 15472/15695
DATE: 4/22/2015
SCALE: NO SCALE
DESIGNED BY: BT
DRAWN BY: AJS
CHECKED BY:

100% PLAN SET

C0.1

FILE: W:\15472\CIVIL\DWG\SHEETS\15472_C0.1_COVER_C3D2012.DWG

LINETYPES			SYMBOLS											
EXISTING	PROPOSED	DESCRIPTION	EXIST.	PROP.	DESCRIPTION	EXIST.	PROP.	DESCRIPTION	EXIST.	PROP.	DESCRIPTION	EXIST.	PROP.	DESCRIPTION
REFERENCE LINETYPES			WATER			POWER			SURFACE / LANDSCAPING			SHADING / HATCHING		
---	---	BOUNDARY			FIRE HYDRANT			POWER POLE			BOLLARD			AC PAVEMENT
---	---	PROPERTY LINES			DOMESTIC WATER METER			GUY WIRE ANCHOR			FLAG			CONCRETE SIDEWALK
---	---	EASEMENT			COMMERCIAL WATER METER			ELECTRIC BOX			GATE POST			GRAVEL
---	---	RIGHT OF WAY			DOUBLE CHECK VALVE			ELECTRIC BOX (HOUSE)			MAILBOX			RIPRAP
---	---	CENTER LINE			BLOW-OFF			YARD LIGHT			MONITORING WELL			AC / SIDEWALK REMOVAL
1+00	2+00	CENTER LINE STATION TEXT			AIR RELEASE VALVE			TRANSFORMER			TEST PIT			CUT AREA
FEATURE LINETYPES					WATER VALVE			TELEPHONE BOOTH			SIGN			FILL AREA
---	---	CURB			THRUST BLOCK			TELEPHONE PEDESTAL			BARRICADE			LANDSCAPING
---	---	CURB & GUTTER			CROSS			TELEPHONE CABINET			FLOW ARROW			WETLANDS
---	---	SIDEWALK			TEE			GAS FINK			SLOPE ARROW			
---	---	PAVED ROAD			REDUCER			GAS VALVE			TURN DIRECTIONS			
---	---	GRAVEL ROAD			WATER STUB			GAS METER			ADA SYMBOL			
---	---	DRIVE/PARKING			WELL			GAS LOCATE RISER			TREE (CONIFEROUS)			
---	---	BARBWIRE FENCE			FIRE DEPT. CONNECTION			GAS VENT			TREE (DECIDUOUS)			
---	---	WOOD FENCE			HOSE BIB			GAS MARKER			TREE (ORNAMENTAL)			
---	---	CYCLONE FENCE	STORM SEWER			COMMUNICATION			CONTOURS			NOTE BUBBLES		
---	---	MISC FENCE			STORM MANHOLE			COMMUNICATION MANHOLE			EXISTING GRADE CONTOURS (MINOR)			WATER NOTE
---	---	TREELINE			STORM DRYWELL			TRAFFIC CONTROL ARM			EXISTING GRADE CONTOURS (MAJOR)			SANITARY NOTE
---	---	RAILROAD			STORM CLEANOUT			TRAFFIC SIGNAL CONTROL BOX			FINISHED GRADE CONTOURS (MINOR)			STORM, GRADING, EROSION NOTE
---	---	BUILDINGS			CATCH BASIN / CURB INLET			TRAFFIC SIGNAL J-BOX (UG)			FINISHED GRADE CONTOURS (MAJOR)			DRY UTILITY, SITE, DEMOLITION NOTE
---	---	RETAINING WALL			COMBINATION CURB INLET			TRAFFIC PEDESTRIAN SIGNAL						AS-BUILT NOTE
---	---	CLEARING AND GRUBBING			AREA DRAIN	TRAFFIC								REVISION NOTE
---	---	SAWCUT LINE			STORM CULVERT (OUTLET)			TRAFFIC CONTROL ARM						
---	---	FLOWLINE			ROOF DRAIN			TRAFFIC SIGNAL CONTROL BOX						
---	---	SETBACK LINE			STORM STUB			TRAFFIC SIGNAL J-BOX (UG)						
---	---	EDGE OF WETLAND / WETLAND BUFFER			INFILTRATION TRENCH			TRAFFIC PEDESTRIAN SIGNAL						
UTILITIES			SANITARY SEWER			TELEVISION			EROSION CONTROL					
---	---	WATER LINE			SANITARY MANHOLE			TV J-BOX			GRAVEL CONSTRUCTION ENTRANCE			
---	---	WATER LINE (SIZE VERIFIED)			SANITARY CLEANOUT			TV SERVICE BOX			TEMPORARY STORM INLET PROTECTION			
---	---	WATER SERVICE LINE			SANITARY STUB						SILT FENCE			
---	---	SANITARY SEWER MAIN			SANITARY LATERAL						BIOFILTER BAGS			
---	---	SANITARY SEWER MAIN (SIZE VERIFIED)	IRRIGATION											
---	---	SANITARY SEWER LATERAL			IRRIGATION CONTROL VALVE									
---	---	PRESSURE SEWER			SPRINKLER HEAD									
---	---	STORM SEWER MAIN			SPRINKLER VALVE									
---	---	STORM SEWER MAIN (SIZE VERIFIED)			SPRINKLER CONTROL VALVE									
---	---	STORM SEWER LATERAL			SPRINKLER MANIFOLD									
---	---	IRRIGATION LINE			FOUNTAIN									
			ABBREVIATIONS											
&	AND	CB	CATCH BASIN	E	EAST	GA	GAUGE	MISC	MISCELLANEOUS	RT	RIGHT	VC	VERTICAL CURVE	
@	AT	CCF	CUBIC FEET	EA	EACH	GALV	GALVANIZED	N	NORTH	S	SOUTH SLOPE	VERT	VERTICAL	
CL	CENTERLINE	CCI	COMBINATION CURB INLET	EJ	EXPANSION JOINT	GV	GATE VALVE	NO.	NUMBER	SAN	SANITARY SEWER	W	WEST	
PL	PROPERTY LINE	CI	CURB INLET	EL, ELEV	ELEVATION	HB	HOSE BIB	NTS	NOT TO SCALE	SF	SQUARE FEET	W	WITH	
%	PERCENT	CMP	CORRUGATED METAL PIPE	EP	EDGE OF PAVEMENT	HORIZ	HORIZONTAL	OC	ON CENTER	SHT	SHEET			
#	NUMBER	CMU	CONCRETE MASONRY PIPE	EQ	EQUAL	HP	HIGH POINT	OD	OUTSIDE DIAMETER	SHT	SPECIFICATIONS			
AC	ASPHALTIC CONCRETE	CO	CLEANOUT	ER	END OF RETURN	ID	INSIDE DIAMETER	PC	POINT OF CURVATURE	STA	STATION			
AD	AREA DRAIN	CONC	CONCRETE	ESMT	EASEMENT	IE	INVERT ELEVATION	PERF	PERFORATED	STD	STANDARD			
ALT	ALTERNATE	CONST	CONSTRUCTION	EVC	END VERTICAL CURVE	IN	INCHES	P/P	POINT OF INTERSECTION	STM	STORM SEWER			
APPROX	APPROXIMATELY	CONT	CONTINUOUS	EX, EXIST	EXISTING	JT	JOINT	PI	POINT OF TANGENCY	TC	TOP OF CURB			
ARVA	AIR RELEASE VALVE	CONC	CONCRETE	FDC	FIRE DEPARTMENT CONNECTION	LAT	LATERAL	P/P	POINT OF REVERSE CURVE	TEL	TELEPHONE			
ASSY	ASSEMBLY	CY	CUBIC YARDS	FF	FINISH FLOOR	LF	LINEAR FEET	PT	POINT OF TANGENCY	TOG	TOP OF GRADE			
BAC	BACK OF CURB	DCVA	DOUBLE CHECK VALVE	FG	FINISHED GRADE	LP	LOW POINT	PUE	PUBLIC UTILITY EASEMENT	TS	TRAFFIC SIGNAL CONDUIT			
BLDG	BUILDING	DET	DETAIL	FH	FIRE HYDRANT	LT	LEFT	PUD	POLYURETHANE	TSFO	TRAFFIC SIGNAL CONDUIT			
BO	BLOW OFF	DI	DITCH INLET	FL	FLOW LINE	MAX	MAXIMUM	PVC	POLYVINYL CHLORIDE PIPE	TV	CABLE TELEVISION			
BOT	BOTTOM	DIA	DIAMETER	FLG	FLANGE	MH	MANHOLE	R, RAD	RADIUS	TW	TOP OF WALL			
BVC	BEGIN VERTICAL CURVE	DM	DIMENSION	FO	FIBEROPTIC	MJ	MECHANICAL JOINT	RWD	REQUIRED	TYP	TYPICAL			
BW	BOTTOM OF WALL	DIP	DUCTILE IRON PIPE	FOC	FACE OF CURB	MIN	MINIMUM	ROW, RW	RIGHT OF WAY					
		DW	DRY WELL	FM	FORCE MAIN									
		DWG	DRAWING	FT	FOOT OR FEET									





KAY'S SUBDIVISION
LA CENTER, WASHINGTON

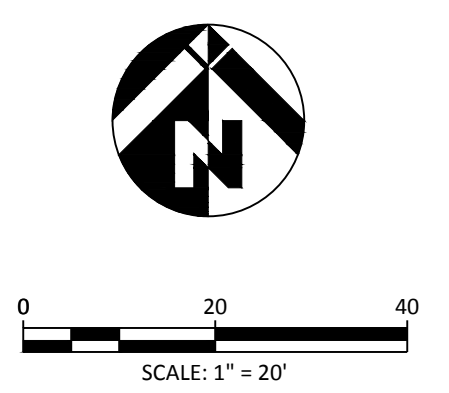
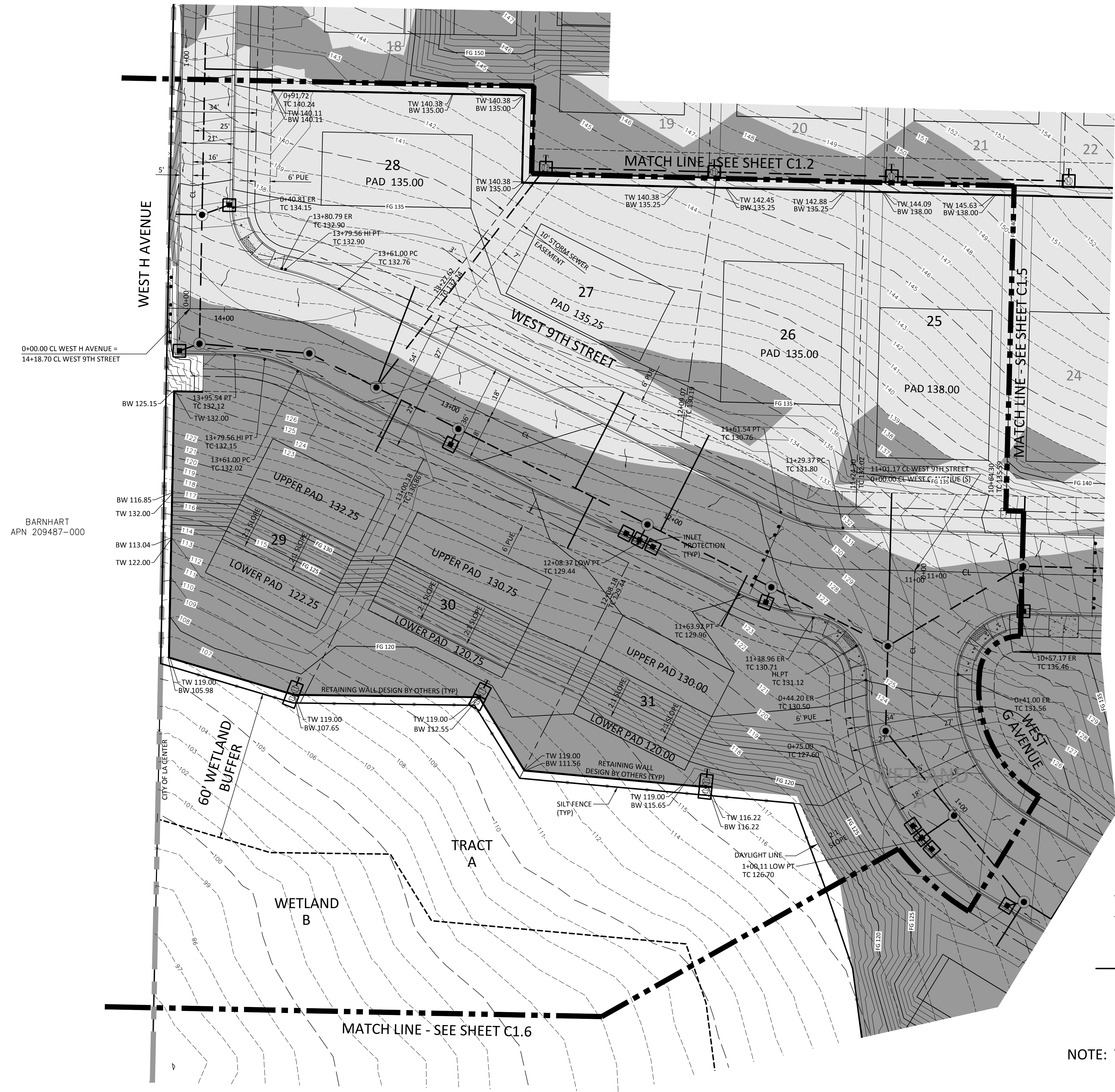
EXISTING CONDITIONS

REVISIONS:

JOB NO.: 15472/15695
 DATE: 4/22/2015
 SCALE: 1" = 60'
 DESIGNED BY: BT
 DRAWN BY: AJS
 CHECKED BY:

100% PLAN SET





- SHEET LEGEND**
- CUT AREA
 - FILL AREA
 - EXISTING CONTOUR
 - PROPOSED CONTOUR
 - INLET PROTECTION
 - FILTER FABRIC FENCE
 - SURFACE FLOW DIRECTION
 - CONSTRUCTION ENTRANCE

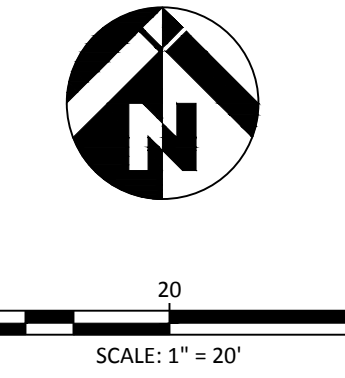
NOTE: THE STORM SEWER SYSTEM HAS BEEN SHOWN FOR INFORMATIONAL PURPOSES.



KAY'S SUBDIVISION
 LA CENTER, WASHINGTON
GRADING AND EROSION CONTROL PLAN

REVISIONS:

JOB NO.: 15472/15695
 DATE: 4/22/2015
 SCALE: 1" = 20'
 DESIGNED BY: BT
 DRAWN BY: AIS
 CHECKED BY:



SHEET LEGEND

- CUT AREA
- FILL AREA
- 100--- EXISTING CONTOUR
- FG 100— PROPOSED CONTOUR
- INLET PROTECTION
- FILTER FABRIC FENCE
- SURFACE FLOW DIRECTION
- CONSTRUCTION ENTRANCE

NOTE: THE STORM SEWER SYSTEM HAS BEEN SHOWN FOR INFORMATIONAL PURPOSES.



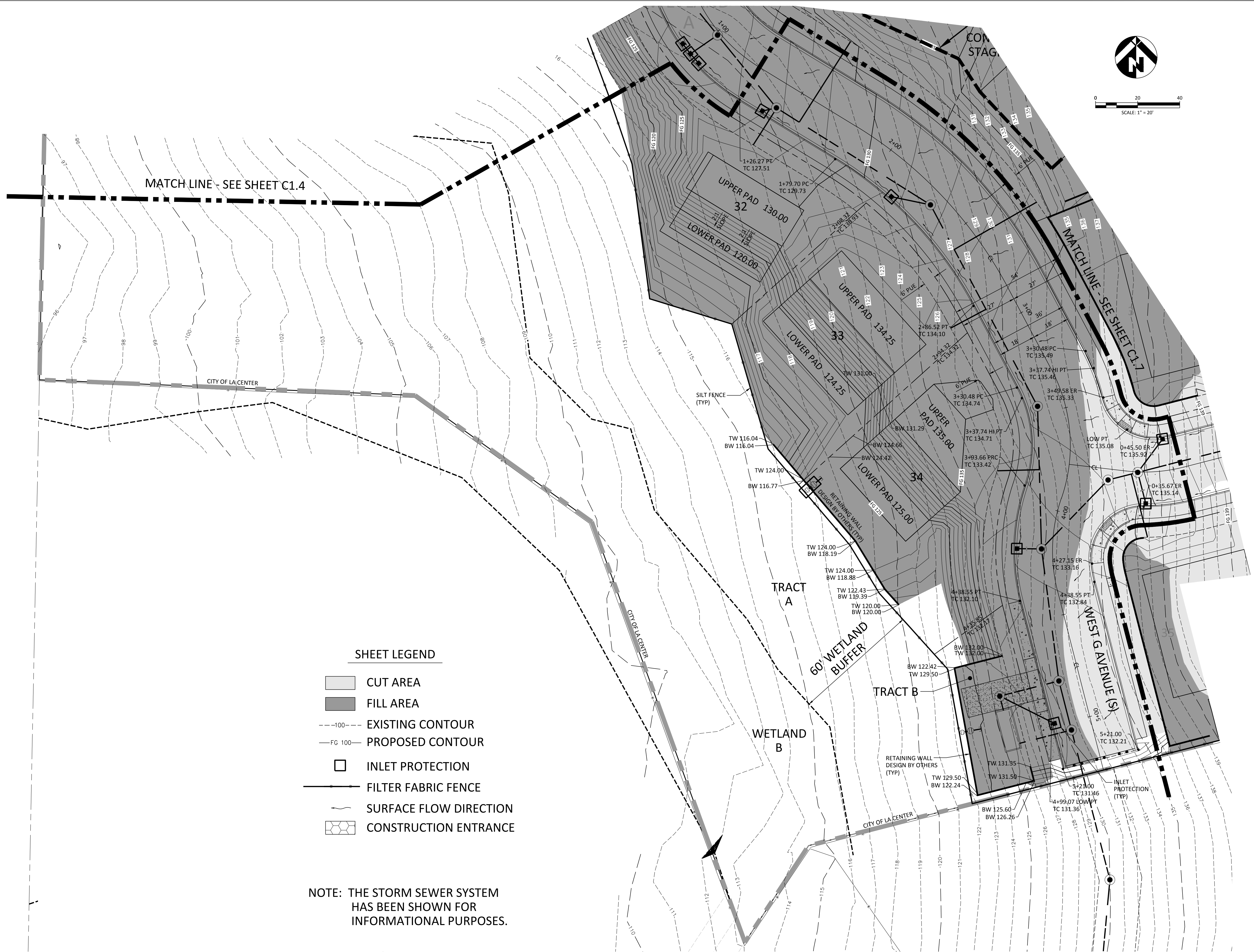
KAY'S SUBDIVISION
LA CENTER, WASHINGTON
GRADING AND EROSION CONTROL PLAN

REVISIONS:

JOB NO.: 15472/15695
DATE: 4/22/2015
SCALE: 1" = 20'
DESIGNED BY: BT
DRAWN BY: AJS
CHECKED BY:

100% PLAN SET

C1.5



MATCH LINE - SEE SHEET C1.4

MATCH LINE - SEE SHEET C1.7

- SHEET LEGEND**
- CUT AREA
 - FILL AREA
 - EXISTING CONTOUR
 - PROPOSED CONTOUR
 - INLET PROTECTION
 - FILTER FABRIC FENCE
 - SURFACE FLOW DIRECTION
 - CONSTRUCTION ENTRANCE

NOTE: THE STORM SEWER SYSTEM HAS BEEN SHOWN FOR INFORMATIONAL PURPOSES.



KAY'S SUBDIVISION
 LA CENTER, WASHINGTON

GRADING AND EROSION CONTROL PLAN

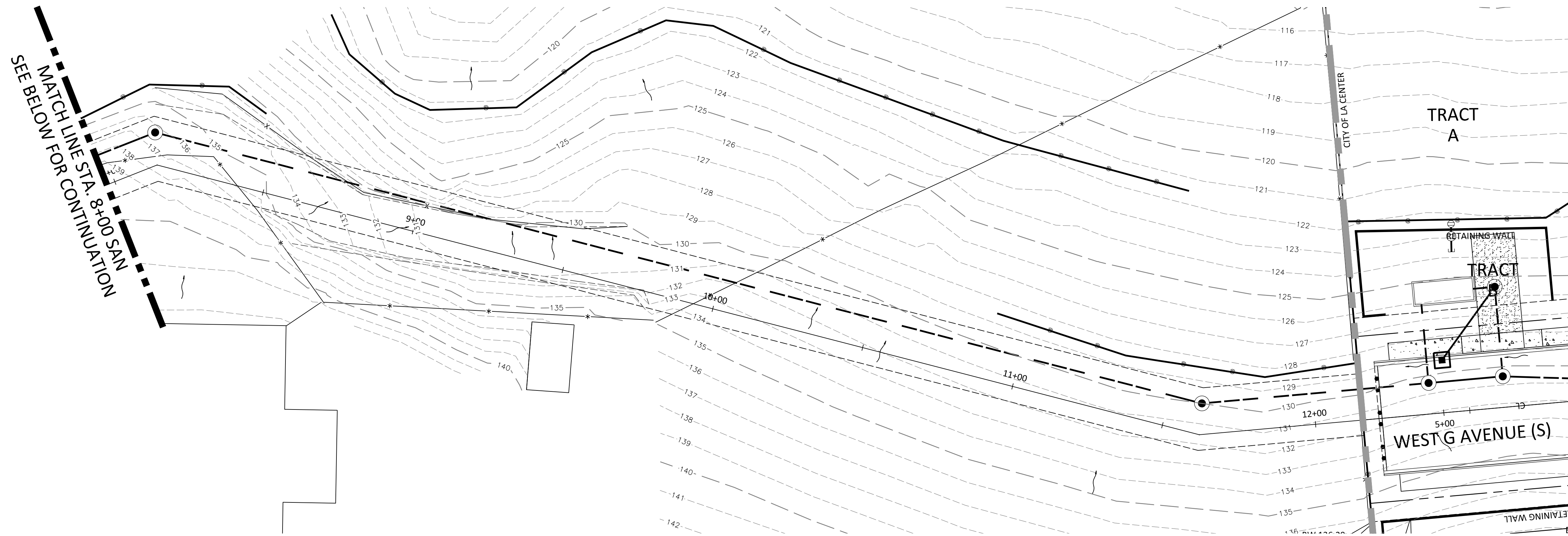
REVISIONS:

JOB NO.: 15472/15695
 DATE: 4/22/2015
 SCALE: 1" = 20'
 DESIGNED BY: BT
 DRAWN BY: AIS
 CHECKED BY:

100% PLAN SET

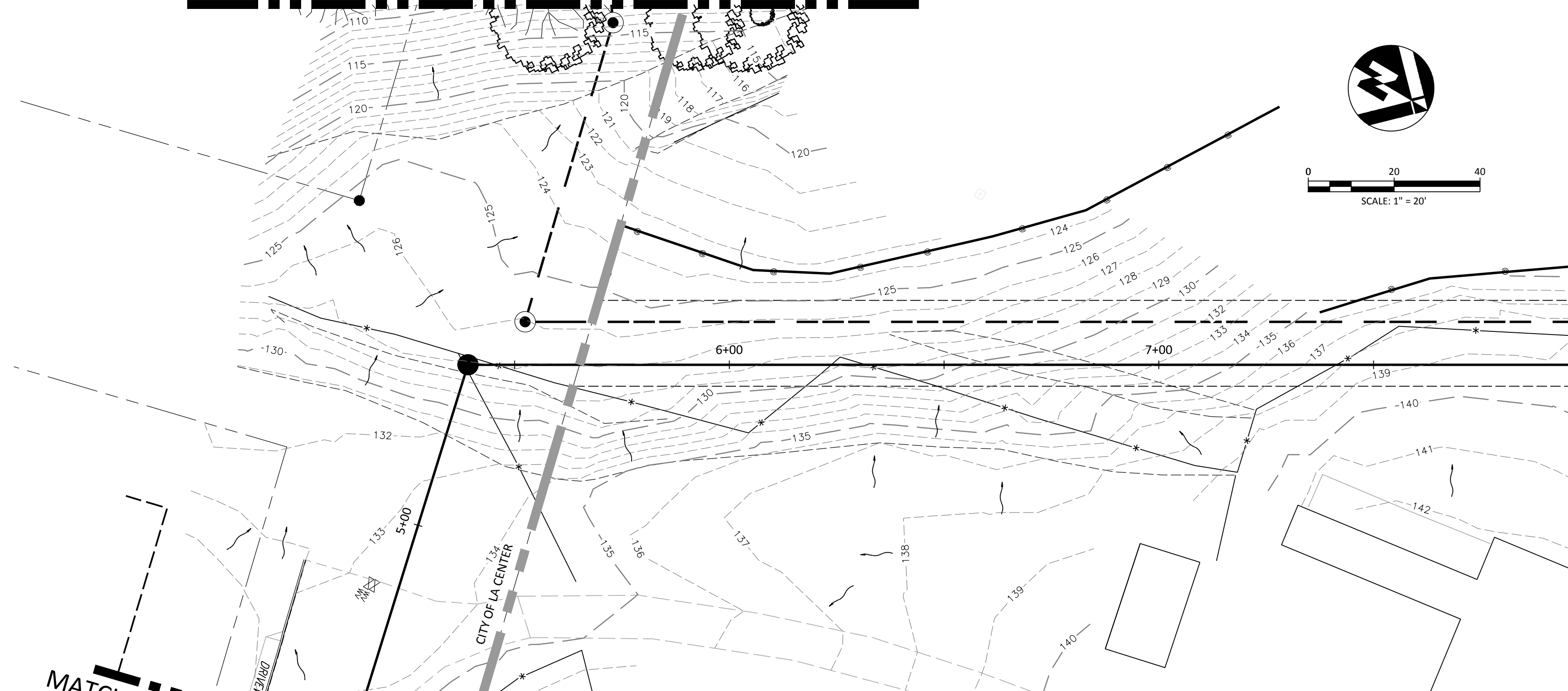
C1.6

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MATCH LINE STA 8+00 SAN
SEE BELOW FOR CONTINUATION

MATCH LINE STA 5+00 STM - SEE SHEET C1.8 FOR CONTINUATION



MATCH LINE STA 4+40 SAN SEE SHEET C1.8 FOR CONTINUATION

SHEET LEGEND

- 100-- EXISTING CONTOUR
- INLET PROTECTION
- SILT FENCE
- SURFACE FLOW DIRECTION
- ▨ CONSTRUCTION ENTRANCE

NOTE: THE STORM SEWER SYSTEM
HAS BEEN SHOWN FOR
INFORMATIONAL PURPOSES.

KAY'S SUBDIVISION
LA CENTER, WASHINGTON

OFFSITE EROSION CONTROL PLAN

REVISIONS:

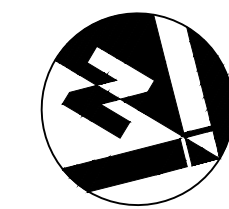
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DATE:	4/22/2015
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DRAWN BY:	AJS
CHECKED BY:	

100% PLAN
SET

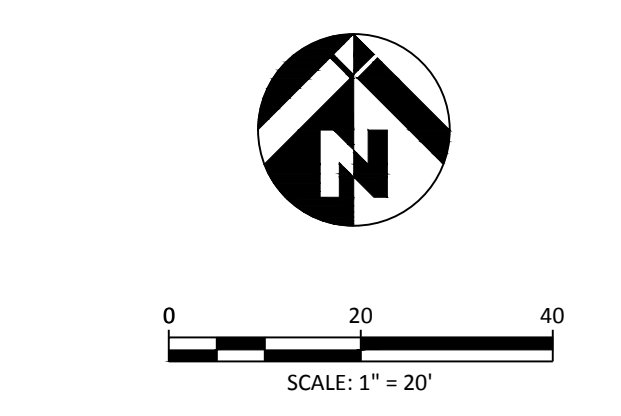
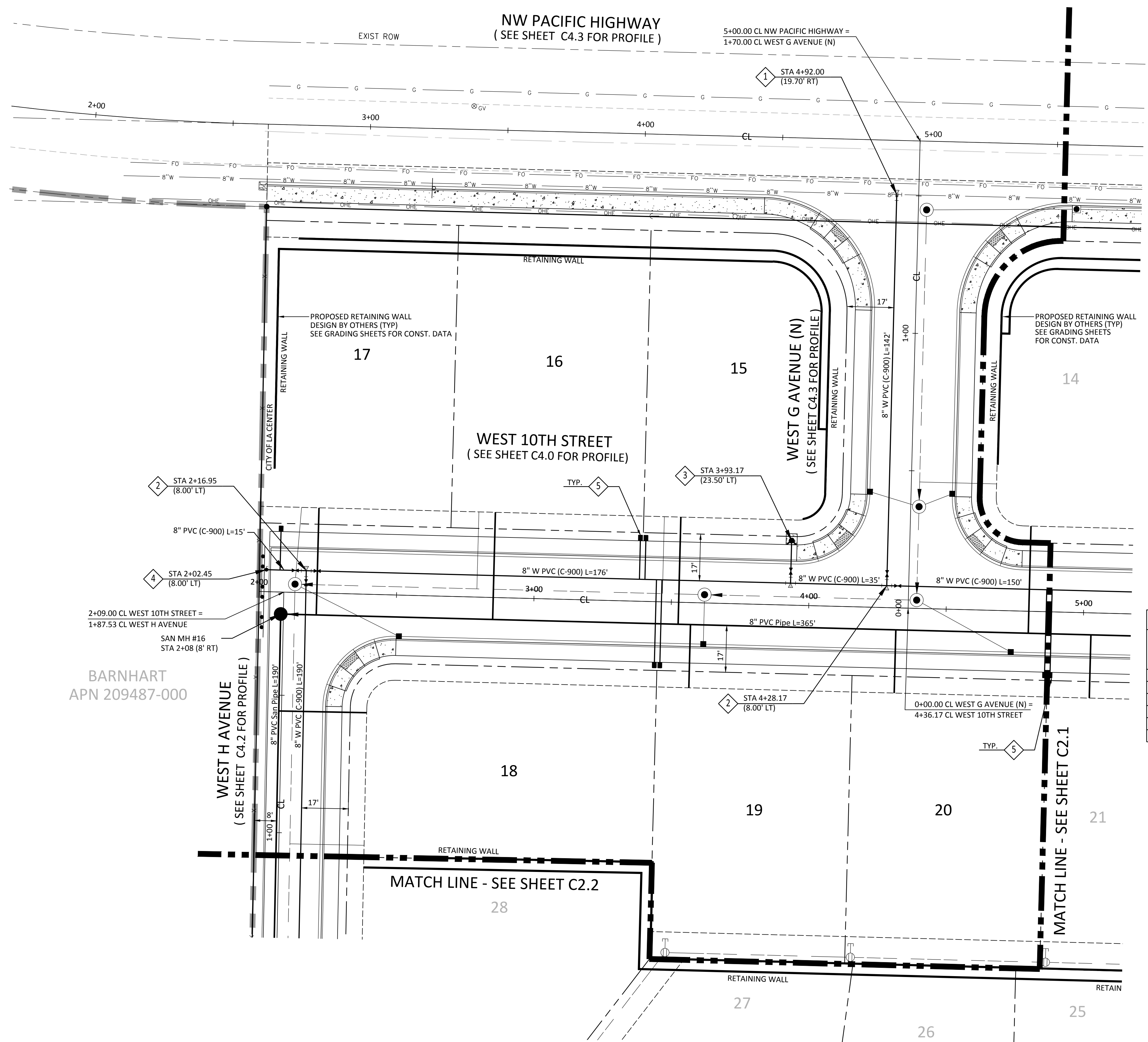
C1.9



SCALE: 1" = 20'



SCALE: 1" = 20'



WATER CONSTRUCTION NOTES

- 1 HOT TAP EXISTING 8" WATER MAIN W/ 8" SS TAPPING SADDLE & TB
1- 8" FLG x MJ TAPPING GATE VALVE W/ MEGALUG
SEE DETAIL ON SHEET C6.1
- 2 INSTALL:
1- 8" x 8" FLG TEE W/ TB
2- 8" MJ x FLG VALVES W/ MEGALUG RESTRAINT
1- 8" MJ x FLG ADAPTOR
SEE DETAILS ON SHEET C6.1.3
- 3 INSTALL:
1- 8" MJ x 6" FLG TEE W/ MEGALUG & TB
1- 6" MJ x FLG VALVE W/ MEGALUG
1- STD FIRE HYDRANT ASSEMBLY W/ TB
SEE DETAIL ON SHEET C6.1
- 4 INSTALL:
1- STANDARD BLOW-OFF ASSEMBLY.
SEE DETAIL ON SHEET C6.1
- 5 INSTALL:
1" WATER SERVICE. SEE DETAIL ON SHEET C6.1.2

- NOTES:
- 1. ALL SANITARY SEWER LATERALS SHALL BE MINIMUM 4" DIAMETER.
 - 2. ALL SPLIT LEVEL LOTS, EXCEPT FOR LOT 18, REQUIRE GRINDER PUMPS. GRINDER PUMPS ARE REQUIRED FOR THE LOWER LEVEL ONLY.

SANITARY SEWER LATERAL CHART					
LOT NO.	STREET STATION	STATION FROM DOWNSIDE MANHOLE	LENGTH	FLOWLINE	DEPTH (AT 6' PUE LINE)
15	3+52.67	1+45	39'	147.5	6.5'
16	2+85.17	0+77	39'	145.0	6.5'
17	2+20.99	0+13	39'	142.7	6.5'
18	1+44.29	1+54	32'	140.4	6.0'
19	3+57.17	1+49	23'	147.1	6.5'
20	4+31.89	2+24	23'	149.8	6.5'

NOTE: THE STORM SEWER SYSTEM HAS BEEN SHOWN FOR INFORMATIONAL PURPOSES.



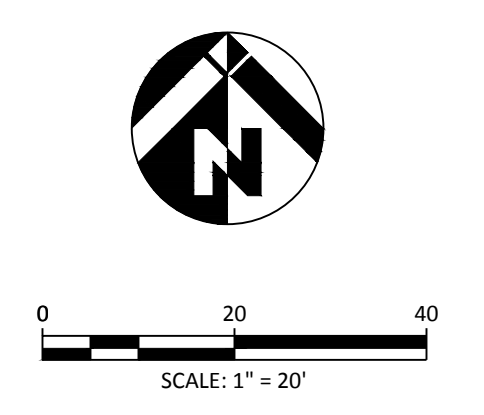
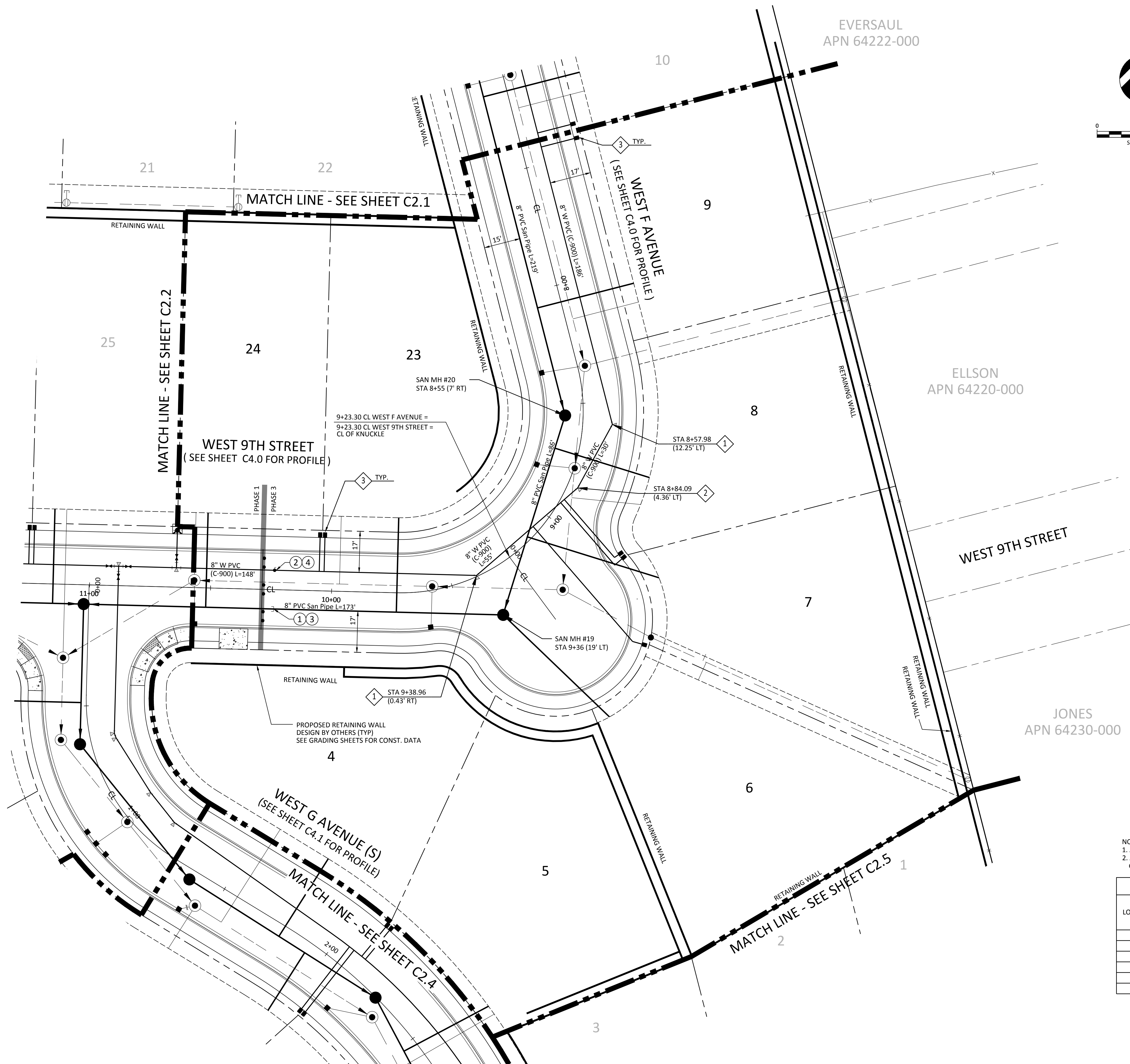
KAY'S SUBDIVISION
LA CENTER, WASHINGTON
SANITARY AND WATER PLAN

REVISIONS:

JOB NO.: 15472/15695
DATE: 4/22/2015
SCALE: 1" = 20'
DESIGNED BY: BT
DRAWN BY: AJS
CHECKED BY:

100% PLAN SET
C2.0
NO. 15 OF 52

FILE: W:\15472\CIVIL\DWG\SHEETS\15472_C2.0_C2.5_SAN-WAT_C3D2012.DWG



WATER CONSTRUCTION NOTES

- ① INSTALL:
1 - 8" MJ 45° BEND W/ MEGALUG RESTRAINT & TB
SEE DETAIL ON SHEET C6.1.3
- ② INSTALL:
1 - 8" MJ 22.5° BEND W/ MEGALUG RESTRAINT & TB
SEE DETAIL ON SHEET C6.1.3
- ③ INSTALL:
1" WATER SERVICE. SEE DETAIL ON SHEET C6.1.2

PHASE 1 CONSTRUCTION NOTES

- ① INSTALL SANITARY STUB AT STA 10+23.74, PLUG END
L=83', S=0.0717, IE @ 8" SAN STUB = 128.54
- ② INSTALL:
1 - STANDARD BLOW-OFF ASSEMBLY
STA 10+23.74
SEE DETAIL ON SHEET C6.1

PHASE 2 CONSTRUCTION NOTES

- ③ CONNECT TO SANITARY STUB AT STA 10+23.74
L=90', S=0.0717, IE @ 8" SAN STUB = 128.54
- ④ REMOVE BLOW-OFF ASSEMBLY AND CONNECT TO
8" WATER AT STA 10+23.74

NOTES:
1. ALL SANITARY SEWER LATERALS SHALL BE MINIMUM 4" DIAMETER.
2. ALL SPLIT LEVEL LOTS, EXCEPT FOR LOT 18, REQUIRE GRINDER PUMPS
GRINDER PUMPS ARE REQUIRED FOR THE LOWER LEVEL ONLY.

SANITARY SEWER LATERAL CHART					
LOT NO.	STREET STATION	STATION (FROM DOWNSTREAM MANHOLE)	LENGTH	FLOWLINE	DEPTH (AT 6" PUE LINE)
6	9+26.31	0+00	61'	140.7	6.5'
7	8+96.36	0+34	57'	142.6	6.5'
8	8+72.91	0+72	41'	145.6	6.5'
9	8+07.09	0+46	41'	150.4	6.5'
23	9+73.04	1+29	39'	137.1	6.5'
24	10+51.80	0+50	39'	130.2	6.5'

NOTE: THE STORM SEWER SYSTEM HAS BEEN SHOWN FOR INFORMATIONAL PURPOSES.



KAY'S SUBDIVISION
LA CENTER, WASHINGTON
SANITARY AND WATER PLAN

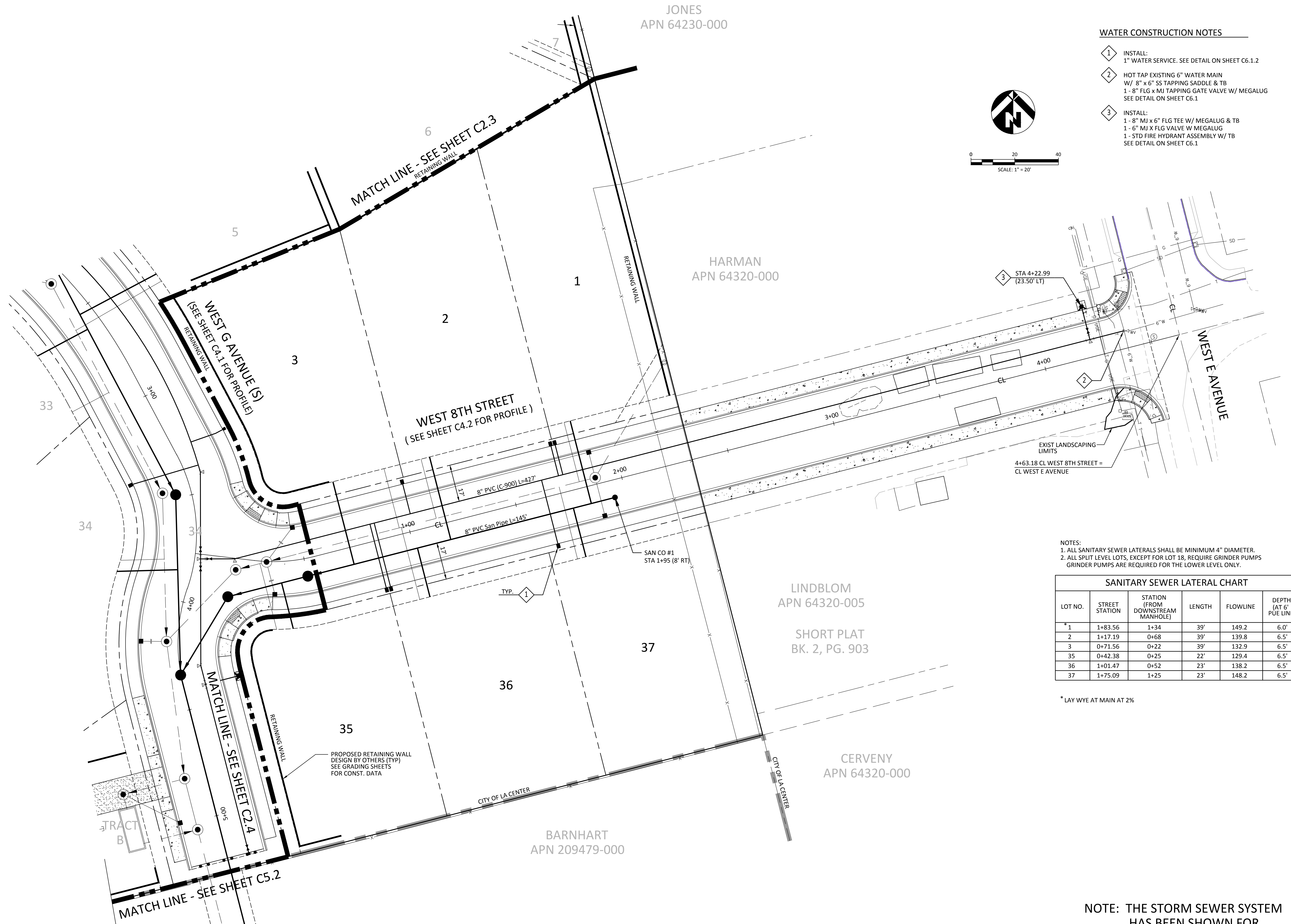
REVISIONS:

JOB NO.:	15472/15695
DATE:	4/22/2015
SCALE:	1" = 20'
DESIGNED BY:	BT
DRAWN BY:	AJS
CHECKED BY:	

100% PLAN SET

C2.3

FILE: W:\15472\CIVIL\DWG\SHEETS\15472_C2.0_C2.5_SAN-WAT_C3D2012.DWG



JONES
APN 64230-000

HARMAN
APN 64320-000

LINDBLOM
APN 64320-005

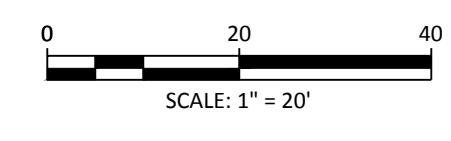
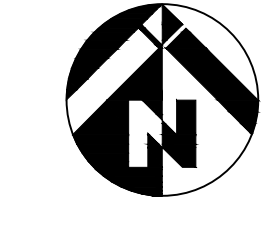
SHORT PLAT
BK. 2, PG. 903

CERVENY
APN 64320-000

BARNHART
APN 209479-000

WATER CONSTRUCTION NOTES

- 1 INSTALL:
1" WATER SERVICE. SEE DETAIL ON SHEET C6.1.2
- 2 HOT TAP EXISTING 6" WATER MAIN
W/ 8" x 6" SS TAPPING SADDLE & TB
1- 8" FLG x MJ TAPPING GATE VALVE W/ MEGALUG
SEE DETAIL ON SHEET C6.1
- 3 INSTALL:
1- 8" MJ x 6" FLG TEE W/ MEGALUG & TB
1- 6" MJ X FLG VALVE W MEGALUG
1- STD FIRE HYDRANT ASSEMBLY W/ TB
SEE DETAIL ON SHEET C6.1



- NOTES:
- 1. ALL SANITARY SEWER LATERALS SHALL BE MINIMUM 4" DIAMETER.
 - 2. ALL SPLIT LEVEL LOTS, EXCEPT FOR LOT 18, REQUIRE GRINDER PUMPS. GRINDER PUMPS ARE REQUIRED FOR THE LOWER LEVEL ONLY.

SANITARY SEWER LATERAL CHART					
LOT NO.	STREET STATION	STATION (FROM DOWNSTREAM MANHOLE)	LENGTH	FLOWLINE	DEPTH (AT 6' PUE LINE)
* 1	1+83.56	1+34	39'	149.2	6.0'
2	1+17.19	0+68	39'	139.8	6.5'
3	0+71.56	0+22	39'	132.9	6.5'
35	0+42.38	0+25	22'	129.4	6.5'
36	1+01.47	0+52	23'	138.2	6.5'
37	1+75.09	1+25	23'	148.2	6.5'

* LAY WYE AT MAIN AT 2%

NOTE: THE STORM SEWER SYSTEM HAS BEEN SHOWN FOR INFORMATIONAL PURPOSES.



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LA CENTER, WASHINGTON
SANITARY AND WATER PLAN

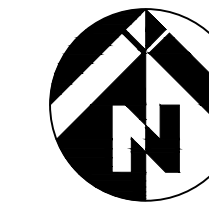
REVISIONS:

JOB NO.: 15472/15695
DATE: 4/22/2015
SCALE: 1" = 20'
DESIGNED BY: BT
DRAWN BY: AJS
CHECKED BY:

100% PLAN SET

C2.5

NOTE: THE SANITARY SEWER AND WATER SYSTEMS HAVE BEEN SHOWN FOR INFORMATIONAL PURPOSES.



CURB RETURN DATA

- ① RADIUS=40.00', LENGTH=62.83', Δ=90°00'00"
4+44.00 ER (22.00' RT) TC 166.74
1/4 PT - TC 166.31
MID PT - TC 167.88
1/4 PT - TC 167.91
1+08.00 ER (16.00' LT) TC 166.86
- ② RADIUS=40.00', LENGTH=62.83', Δ=90°00'00"
1+08.00 ER (16.00' RT) TC 166.86
1/4 PT - TC 168.14
MID PT - TC 169.30
1/4 PT - TC 170.32
5+56.00 ER (22.00' RT) TC 171.26
- ③ RADIUS=25.00', LENGTH=39.27', Δ=90°00'00"
0+41.00 ER (16.00' LT) TC 158.55
1/4 PT - TC 157.38
MID PT - TC 156.50
1/4 PT - TC 155.78
3+95.17 ER (16.00' LT) TC 155.28
- ④ RADIUS=25.00', LENGTH=39.27', Δ=90°00'00"
4+77.17 ER (16.00' LT) TC 158.36
1/4 PT - TC 157.98
MID PT - TC 157.60
1/4 PT - TC 157.60
0+41.00 ER (16.00' RT) TC 158.55
- ⑤ RADIUS=25.00', LENGTH=39.42', Δ=90°20'23"
1+46.29 ER (16.00' RT) TC 146.31
1/4 PT - TC 147.15
MID PT - TC 147.99
1/4 PT - TC 148.71
2+50.24 ER (16.00' RT) TC 149.20

STORM SEWER LATERAL CHART

LOT NO.	STREET STATION	STATION FROM DOWNSTREAM MANHOLE	LENGTH	FLOWLINE	DEPTH (AT 6' PUE LINE)
15	3+46.67	1+34	28'	148.3	5.5'
16	2+79.17	0+66	28'	145.7	5.5'
17	2+12.98	0+00	28'	143.6	5.5'
18	0+96.02	0+58	27'	135.5	5.5'

STORM SERVICE LATERALS SHALL BE 6" DIA. AND PLUGGED AT ENDS. STORM SERVICE LATERALS SHALL BE CLEARLY MARKED WITH A BRIGHTLY PAINTED 10" x 2" x 4" MARKER BOARD AND SHALL BE EXTENDED 6' BEHIND THE STREET RIGHT-OF-WAY, AND WRAPPED W/ 10-GA WIRE.

CENTERLINE LINE TABLE

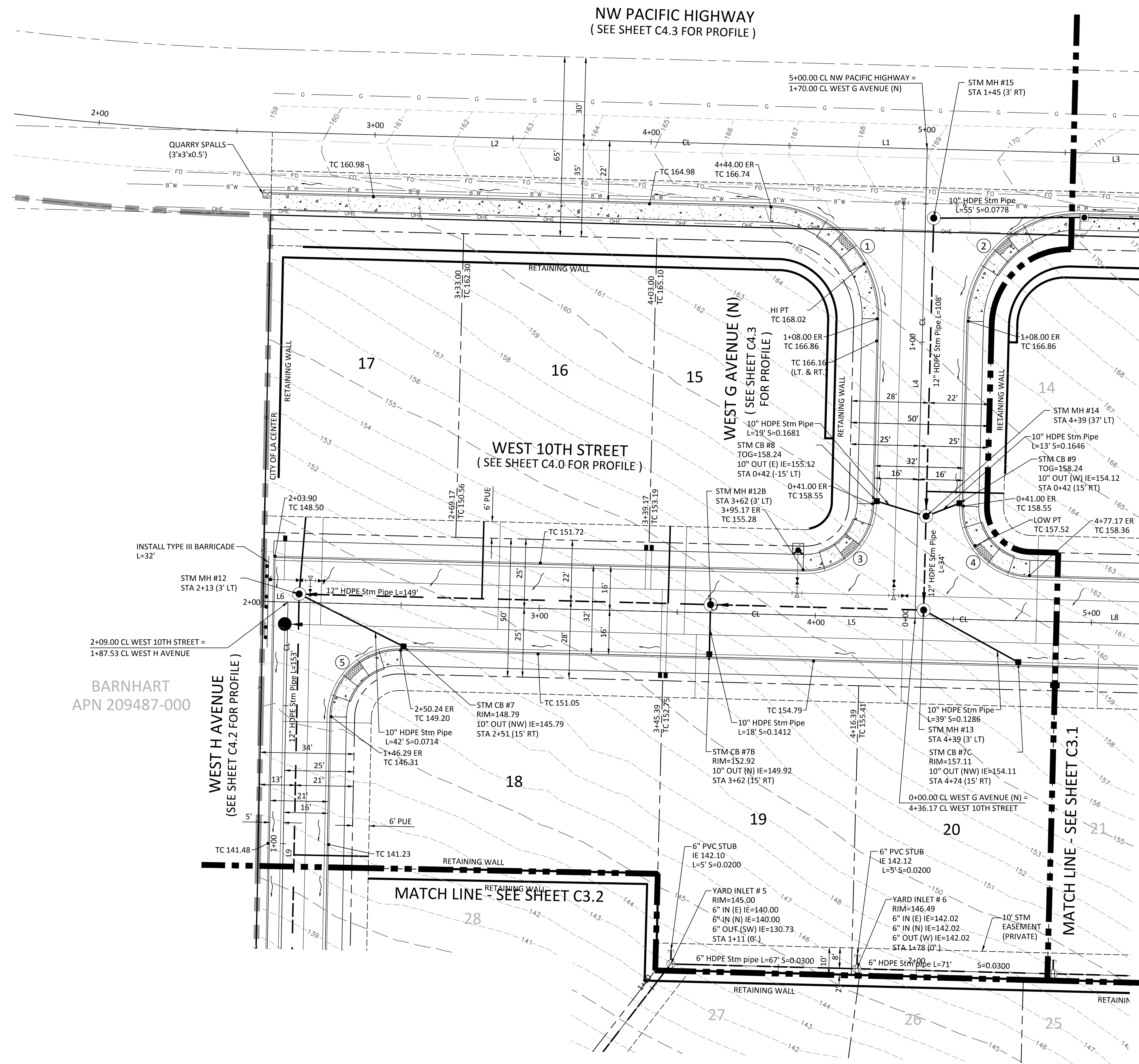
LINE #	LENGTH	DIRECTION
L1	530.30	S88° 31' 43.00"E
L2	237.00	S88° 31' 43.00"E
L3	293.29	S88° 31' 43.00"E
L4	170.00	S1° 28' 17.00"W
L5	410.47	S88° 31' 43.00"E
L6	9.00	S88° 31' 43.00"E
L7	227.17	S88° 31' 43.00"E
L8	174.30	S88° 31' 43.00"E
L9	187.53	S1° 07' 54.00"W
L10	27.16	S88° 52' 06.00"E
L11	9.00	S88° 52' 06.00"E
L12	18.16	S88° 52' 06.00"E

CENTERLINE LINE TABLE

LINE #	LENGTH	DIRECTION
L13	193.32	S63° 09' 55.13"E
L14	160.55	S88° 31' 43.00"E
L15	33.42	S88° 31' 43.00"E
L16	127.14	S88° 31' 43.00"E
L17	159.30	S14° 22' 43.00"W
L18	45.56	S1° 28' 17.00"W
L19	53.43	S58° 35' 15.59"E
L20	43.97	S27° 59' 12.45"E
L21	87.72	N14° 22' 38.00"W
L22	27.19	S83° 17' 20.13"E
L23	408.38	N75° 37' 05.00"E
L24	32.00	S36° 31' 30.71"E

CENTERLINE CURVE TABLE

CURVE #	DELTA ANGLE	RADIUS	LENGTH
C1	25.70	77.00	34.54
C2	25.36	77.00	34.09
C3	105.85	75.00	138.56
C4	38.00	75.00	49.74
C5	67.85	75.00	88.82
C6	74.15	50.00	64.71
C7	60.06	77.00	80.71
C8	30.60	200.00	106.82
C9	47.01	77.00	63.18
C10	34.70	77.00	46.63
C11	12.31	77.00	16.55
C12	33.40	77.00	44.89
C13	21.09	75.00	27.61



BARNHART
APN 209487-000

WEST H AVENUE
(SEE SHEET C4.2 FOR PROFILE)

WEST 10TH STREET
(SEE SHEET C4.0 FOR PROFILE)

WEST G AVENUE (N)
(SEE SHEET C4.3 FOR PROFILE)

NW PACIFIC HIGHWAY
(SEE SHEET C4.3 FOR PROFILE)

MATCH LINE - SEE SHEET C3.1

MATCH LINE - SEE SHEET C3.2

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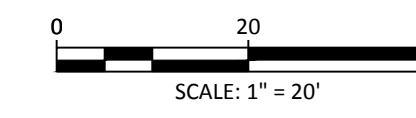
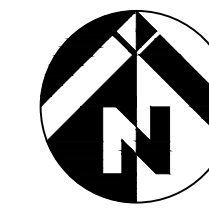


REVISIONS:
1 REV_DATE

JOB NO.: 15472/15695
DATE: 4/22/2015
SCALE: 1" = 20'
DESIGNED BY: BT
DRAWN BY: AJS
CHECKED BY:

100% PLAN SET

C3.0



STORM SEWER LATERAL CHART					
LOT NO.	STREET STATION	STATION (FROM DOWNSTREAM MANHOLE)	LENGTH	FLOWLINE	DEPTH (AT 6" PUE LINE)
10	7+25.09	1+10	28'	155.2	5.5'
11	6+57.06	0+00	26'	156.8	5.5'
12	6+04.58	0+56	27'	156.8	5.5'
13	5+99.87	0+00	22'	156.6	5.5'
14	0+43.17	0+06	28'	153.5	5.5'

STORM SERVICE LATERALS SHALL BE 6" DIA. AND PLUGGED AT ENDS. STORM SERVICE LATERALS SHALL BE CLEARLY MARKED WITH A BRIGHTLY PAINTED 10' - 2" x 4" MARKER BOARD AND SHALL BE EXTENDED 6' BEHIND THE STREET RIGHT-OF-WAY, AND WRAPPED W/ 10-GA WIRE.

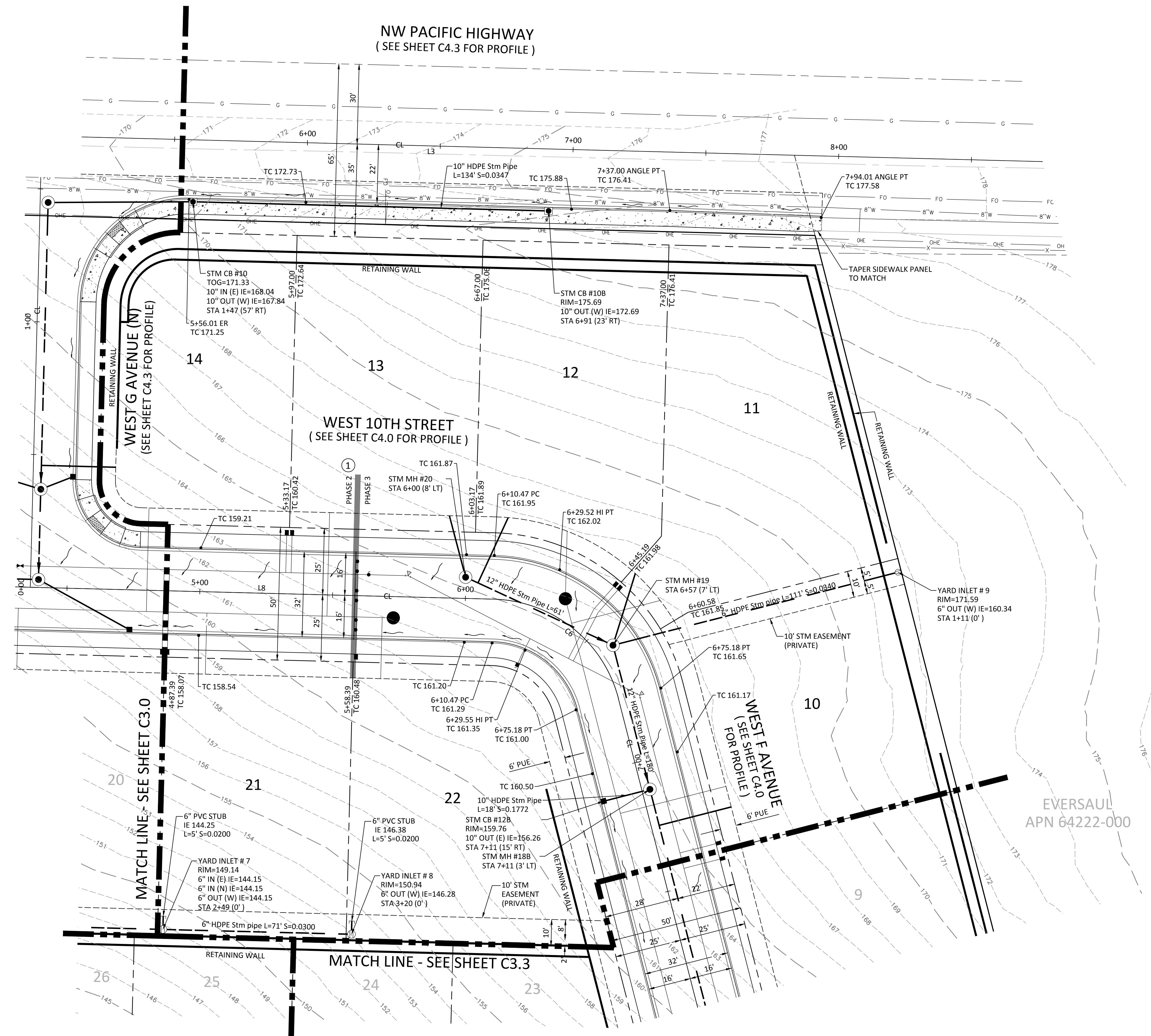
PHASE 2 CONSTRUCTION NOTES

- 1 INSTALL TYPE III BARRICADE, SEE SHEET C6.5 FOR DETAIL L = 32'

CENTERLINE LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	530.30	S88° 31' 43.00"E
L2	237.00	S88° 31' 43.00"E
L3	293.29	S88° 31' 43.00"E
L4	170.00	S1° 28' 17.00"W
L5	410.47	S88° 31' 43.00"E
L6	9.00	S88° 31' 43.00"E
L7	227.17	S88° 31' 43.00"E
L8	174.30	S88° 31' 43.00"E
L9	187.53	S1° 07' 54.00"W
L10	27.16	S88° 52' 06.00"E
L11	9.00	S88° 52' 06.00"E
L12	18.16	S88° 52' 06.00"E

CENTERLINE LINE TABLE		
LINE #	LENGTH	DIRECTION
L13	193.32	S63° 09' 55.13"E
L14	160.55	S88° 31' 43.00"E
L15	33.42	S88° 31' 43.00"E
L16	127.14	S88° 31' 43.00"E
L17	159.30	S14° 22' 43.00"E
L18	45.56	S1° 28' 17.00"W
L19	53.43	S58° 35' 15.59"E
L20	43.97	S27° 59' 12.45"E
L21	87.72	N14° 22' 38.00"W
L22	27.19	S83° 17' 20.13"E
L23	408.38	N75° 37' 05.00"E
L24	32.00	S36° 31' 30.71"E

CENTERLINE CURVE TABLE			
CURVE #	DELTA ANGLE	RADIUS	LENGTH
C1	25.70	77.00	34.54
C2	25.36	77.00	34.09
C3	105.85	75.00	138.56
C4	38.00	75.00	49.74
C5	67.85	75.00	88.82
C6	74.15	50.00	64.71
C7	60.06	77.00	80.71
C8	30.60	200.00	106.82
C9	47.01	77.00	63.18
C10	34.70	77.00	46.63
C11	12.31	77.00	16.55
C12	33.40	77.00	44.89
C13	21.09	75.00	27.61



NOTE: THE SANITARY SEWER AND WATER SYSTEMS HAVE BEEN SHOWN FOR INFORMATIONAL PURPOSES.

KAY'S SUBDIVISION
LA CENTER, WASHINGTON

STREET AND STORM PLAN

REVISIONS:
1 REV_DATE

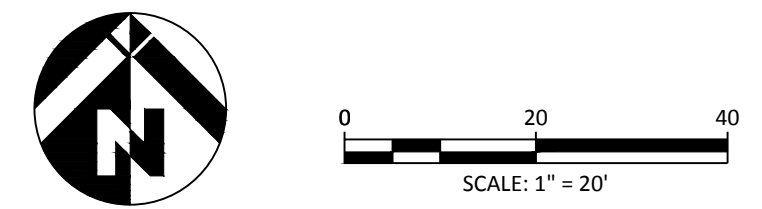
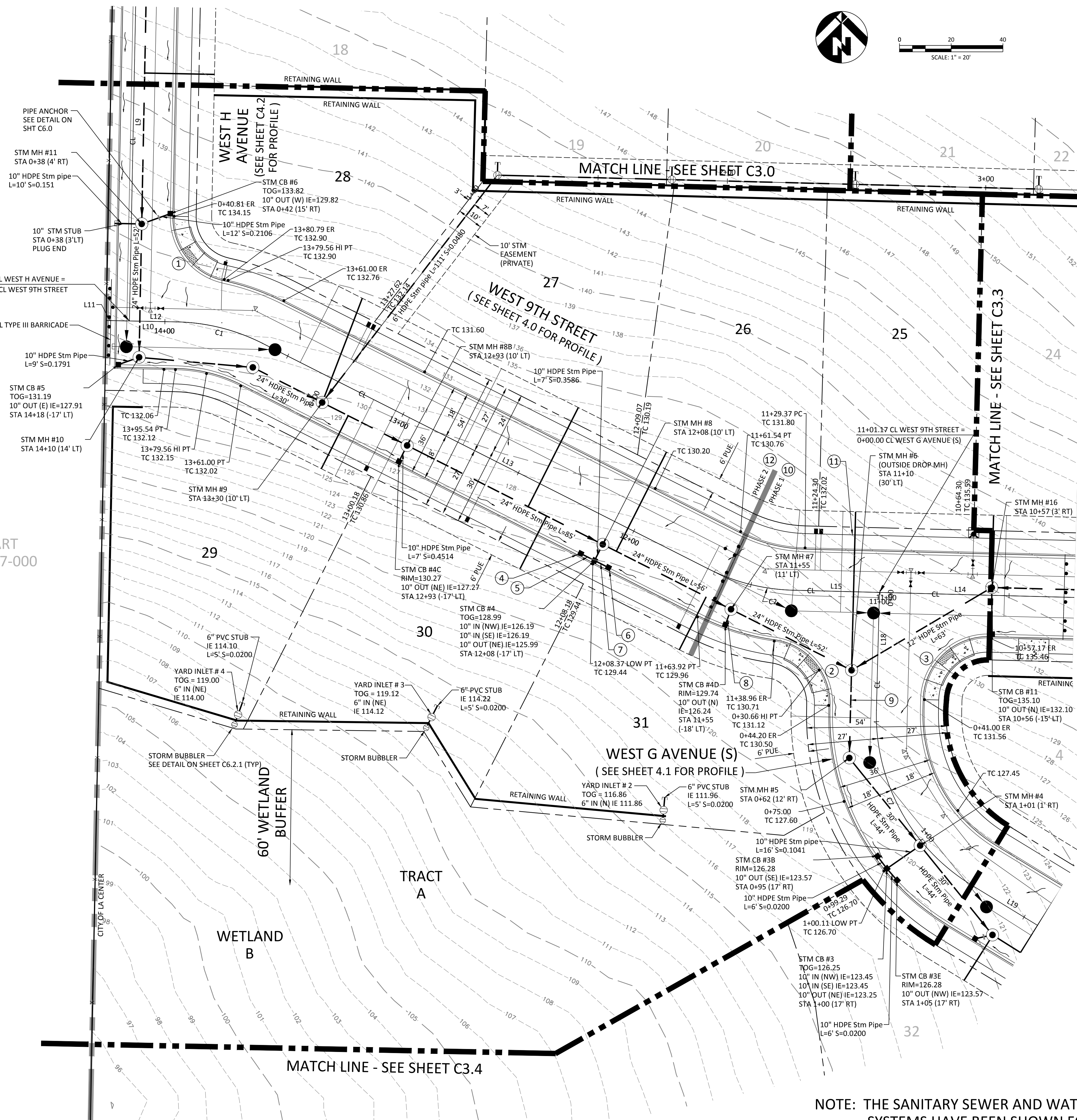
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DATE: 4/22/2015
SCALE: 1" = 20'
DESIGNED BY: BT
DRAWN BY: AJS
CHECKED BY:

100% PLAN SET

C3.1

FILE: W:\15472\CIVIL\DWG\SHEETS\15472_C3.0_C3.5_ST_STM_C3D2012.DWG

BARNHART
APN 209487-000



STORM SEWER LATERAL CHART					
LOT NO.	STREET STATION	STATION (FROM DOWNSTREAM MANHOLE)	LENGTH	FLOWLINE	DEPTH (AT 6" PUE LINE)
25	11+10.17	0+00	61'	126.9	5.5'
26	12+02.50	0+51	43'	124.8	5.5'
27	12+40.71	0+32	43'	125.4	5.5'
28	13+34.35	0+00	43'	127.1	5.5'
29	13+18.73	0+26	23'	126.0	5.5'
30	12+32.68	0+24	23'	124.4	5.5'
31	11+64.77	0+11	23'	124.7	5.5'

STORM SERVICE LATERALS SHALL BE 6" DIA. AND PLUGGED AT ENDS. STORM SERVICE LATERALS SHALL BE CLEARLY MARKED WITH A BRIGHTLY PAINTED 10" x 2" x 4" MARKER BOARD AND SHALL BE EXTENDED 6' BEHIND THE STREET RIGHT-OF-WAY, AND WRAPPED W/ 10-GA WIRE.

CURB RETURN DATA

- ① RADIUS=25.00', LENGTH=34.48', Δ=79°01'34" ③ RADIUS=25.00', LENGTH=39.27', Δ=90°00'00"
 13+80.79 ER (16.00' RT) TC 132.90 0+41.00 ER (16.00' LT) TC 131.56
 1/4 PT - TC 132.99 1/4 PT - TC 132.55
 MID PT - TC 133.08 MID PT - TC 133.48
 1/4 PT - TC 133.35 1/4 PT - TC 134.47
 0+40.81 ER (16.00' RT) TC 134.15 10+57.17 ER (16.00' RT) TC 135.46
- ② RADIUS=25.00', LENGTH=36.39', Δ=83°23'42"
 11+38.96 ER (16.00' RT) TC 130.71
 1/4 PT - TC 130.90
 MID PT - TC 131.09
 1/4 PT - TC 131.03
 0+44.20 ER (16.00' RT) TC 130.50

STORM SEWER CONSTRUCTION NOTES

- ④ STM CB #4B RIM=129.00 10" OUT (SE) IE=126.50 STA 12+14 (-17' LT)
- ⑤ 10" HDPE Stm Pipe L=6' S=0.0517
- ⑥ STM CB #4E RIM=129.00 10" OUT (NW) IE=126.22 STA 12+02 (-17' LT)
- ⑦ 10" HDPE Stm Pipe L=6' S=0.0050
- ⑧ 10" HDPE Stm Pipe L=6' S=0.5078
- ⑨ 24" HDPE Stm Pipe L=34'

PHASE 1 CONSTRUCTION NOTES

- ⑩ INSTALL TYPE III BARRICADE, L=32' SEE SHEET C6.5 FOR DETAIL
 INSTALL STORM STUB AT STA 11+65, PLUG END L=10', S=0.005, IE @ 24" STM STUB = 120.63
- ⑪ HAMMERHEAD TO BE CONSTRUCTED AT THE END OF PHASE 1. SEE DETAIL ON SHEET C6.7.

PHASE 2 CONSTRUCTION NOTES

- ⑫ REMOVE TYPE III BARRICADE
 CONNECT TO STORM STUB AT STA 11+65 L=46', S=0.005, IE @ 24" STM STUB = 120.63

CENTERLINE CURVE TABLE			
CURVE #	DELTA ANGLE	RADIUS	LENGTH
C1	25.70	77.00	34.54
C2	25.36	77.00	34.09
C3	105.85	75.00	138.56
C4	38.00	75.00	49.74
C5	67.85	75.00	88.82
C6	74.15	50.00	64.71
C7	60.06	77.00	80.71
C8	30.60	200.00	106.82
C9	47.01	77.00	63.18
C10	34.70	77.00	46.63
C11	12.31	77.00	16.55
C12	33.40	77.00	44.89
C13	21.09	75.00	27.61

CENTERLINE LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	530.30	S88° 31' 43.00"E
L2	237.00	S88° 31' 43.00"E
L3	293.29	S88° 31' 43.00"E
L4	170.00	S1° 28' 17.00"W
L5	410.47	S88° 31' 43.00"E
L6	9.00	S88° 31' 43.00"E
L7	227.17	S88° 31' 43.00"E
L8	174.30	S88° 31' 43.00"E
L9	187.53	S1° 07' 54.00"W
L10	27.16	S88° 52' 06.00"E
L11	9.00	S88° 52' 06.00"E
L12	18.16	S88° 52' 06.00"E

CENTERLINE LINE TABLE		
LINE #	LENGTH	DIRECTION
L13	193.32	S63° 09' 55.13"E
L14	160.55	S88° 31' 43.00"E
L15	33.42	S88° 31' 43.00"E
L16	127.14	S88° 31' 43.00"E
L17	159.30	S14° 22' 43.00"E
L18	45.56	S1° 28' 17.00"W
L19	53.43	S58° 35' 15.59"E
L20	43.97	S27° 59' 12.45"E
L21	87.72	N14° 22' 38.00"W
L22	27.19	S83° 17' 20.13"E
L23	408.38	N75° 37' 05.00"E
L24	32.00	S36° 31' 30.71"E

NOTE: THE SANITARY SEWER AND WATER SYSTEMS HAVE BEEN SHOWN FOR INFORMATIONAL PURPOSES.



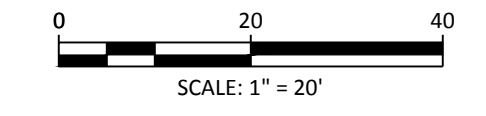
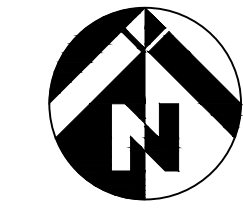
REVISIONS:

1	REV_DATE
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JOB NO.: 15472/15695
DATE: 4/22/2015
SCALE: 1" = 20'
DESIGNED BY: BT
DRAWN BY: AJS
CHECKED BY:

100% PLAN SET

C3.2



NOTE: THE SANITARY SEWER AND WATER SYSTEMS HAVE BEEN SHOWN FOR INFORMATIONAL PURPOSES.

STORM SEWER LATERAL CHART					
LOT NO.	STREET STATION	STATION (FROM DOWNSTREAM MANHOLE)	LENGTH	FLOWLINE	DEPTH (AT 6' PUE LINE)
6	0+66.49	0+25	8'	143.3	5.0'
7	0+64.95	0+24	3'	144.8	5.0'
8	8+88.54	0+38	29'	145.8	5.5'
9	8+15.09	0+20	28'	150.9	5.5'
23	9+96.80	0+60	28'	135.9	5.5'
24	10+56.80	0+00	28'	130.7	5.5'

STORM SERVICE LATERALS SHALL BE 6" DIA. AND PLUGGED AT ENDS. STORM SERVICE LATERALS SHALL BE CLEARLY MARKED WITH A BRIGHTLY PAINTED 10" - 2" x 4" MARKER BOARD AND SHALL BE EXTENDED 6' BEHIND THE STREET RIGHT-OF-WAY, AND WRAPPED W/ 10-GA WIRE.

PHASE 1 CONSTRUCTION NOTES

- 1 INSTALL TYPE III BARRICADE, L=32' SEE SHEET C6.5 FOR DETAIL
- INSTALL STORM STUB AT STA 10+18.74, PLUG END L=38', S=0.08, IE @ 24" STM STUB = 130.89

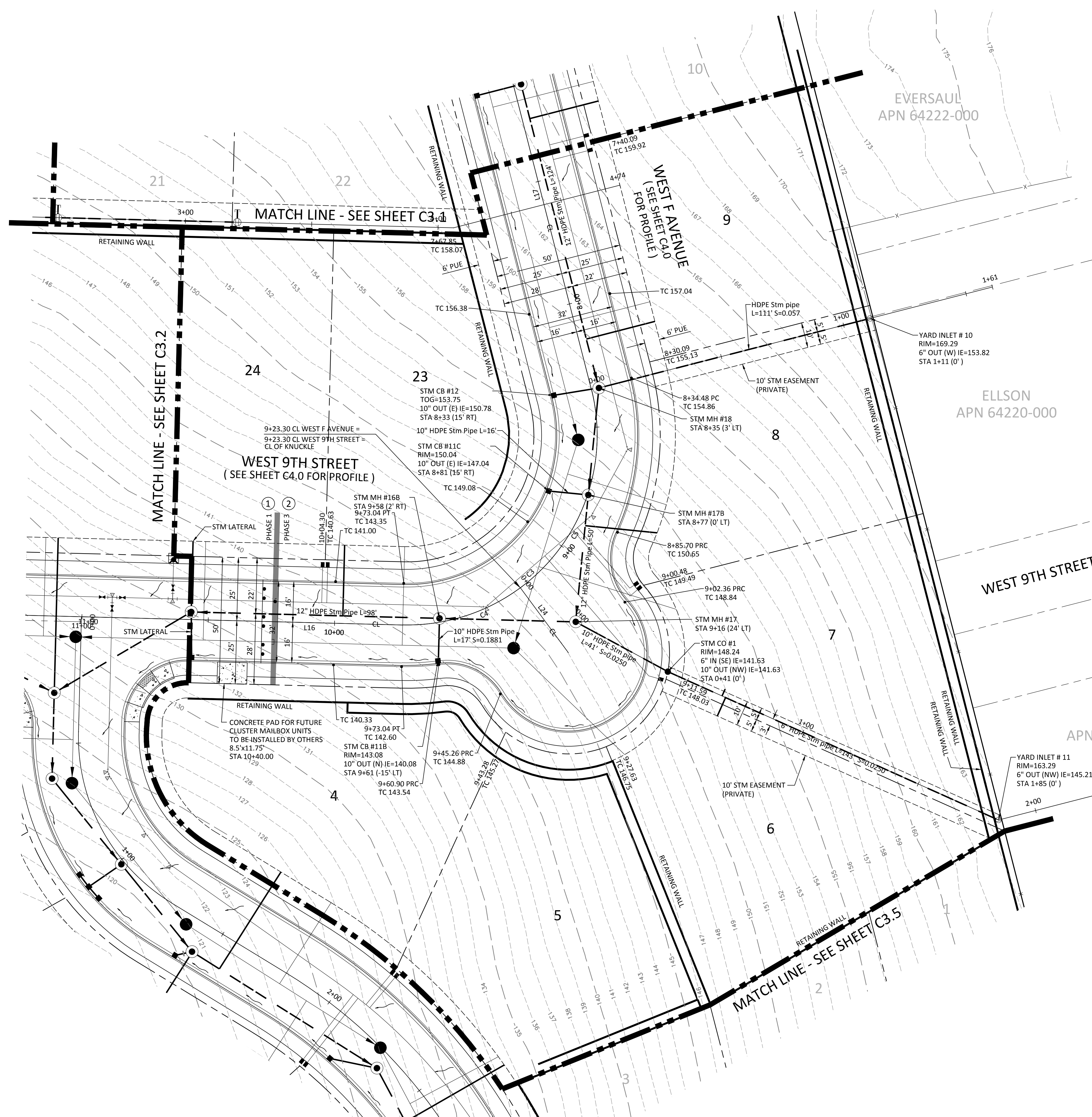
PHASE 3 CONSTRUCTION NOTES

- 2 REMOVE TYPE III BARRICADE
- CONNECT TO STORM STUB AT STA 10+18.74 L=60', S=0.08, IE @ 12" STM STUB = 130.89

CENTERLINE CURVE TABLE			
CURVE #	DELTA ANGLE	RADIUS	LENGTH
C1	25.70	77.00	34.54
C2	25.36	77.00	34.09
C3	105.85	75.00	138.56
C4	38.00	75.00	49.74
C5	67.85	75.00	88.82
C6	74.15	50.00	64.71
C7	60.06	77.00	80.71
C8	30.60	200.00	106.82
C9	47.01	77.00	63.18
C10	34.70	77.00	46.63
C11	12.31	77.00	16.55
C12	33.40	77.00	44.89
C13	21.09	75.00	27.61

CENTERLINE LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	530.30	S88° 31' 43.00"E
L2	237.00	S88° 31' 43.00"E
L3	293.29	S88° 31' 43.00"E
L4	170.00	S1° 28' 17.00"W
L5	410.47	S88° 31' 43.00"E
L6	9.00	S88° 31' 43.00"E
L7	227.17	S88° 31' 43.00"E
L8	174.30	S88° 31' 43.00"E
L9	187.53	S1° 07' 54.00"W
L10	27.16	S88° 52' 06.00"E
L11	9.00	S88° 52' 06.00"E
L12	18.16	S88° 52' 06.00"E

CENTERLINE LINE TABLE		
LINE #	LENGTH	DIRECTION
L13	193.32	S63° 09' 55.13"E
L14	160.55	S88° 31' 43.00"E
L15	33.42	S88° 31' 43.00"E
L16	127.14	S88° 31' 43.00"E
L17	159.30	S14° 22' 43.00"E
L18	45.56	S1° 28' 17.00"W
L19	53.43	S58° 35' 15.59"E
L20	43.97	S27° 59' 12.45"E
L21	87.72	N14° 22' 38.00"W
L22	27.19	S83° 17' 20.13"E
L23	408.38	N75° 37' 05.00"E
L24	32.00	S36° 31' 30.71"E



KAY'S SUBDIVISION
 LA CENTER, WASHINGTON
 STREET AND STORM PLAN

REVISIONS:

1	REV_DATE
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JOB NO.: 15472/15695
 DATE: 4/22/2015
 SCALE: 1" = 20'
 DESIGNED BY: BT
 DRAWN BY: AJS
 CHECKED BY:

100% PLAN SET

C3.3



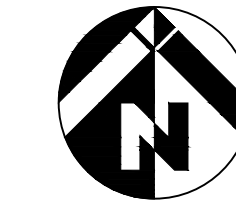
REVISIONS:

1	REV. DATE

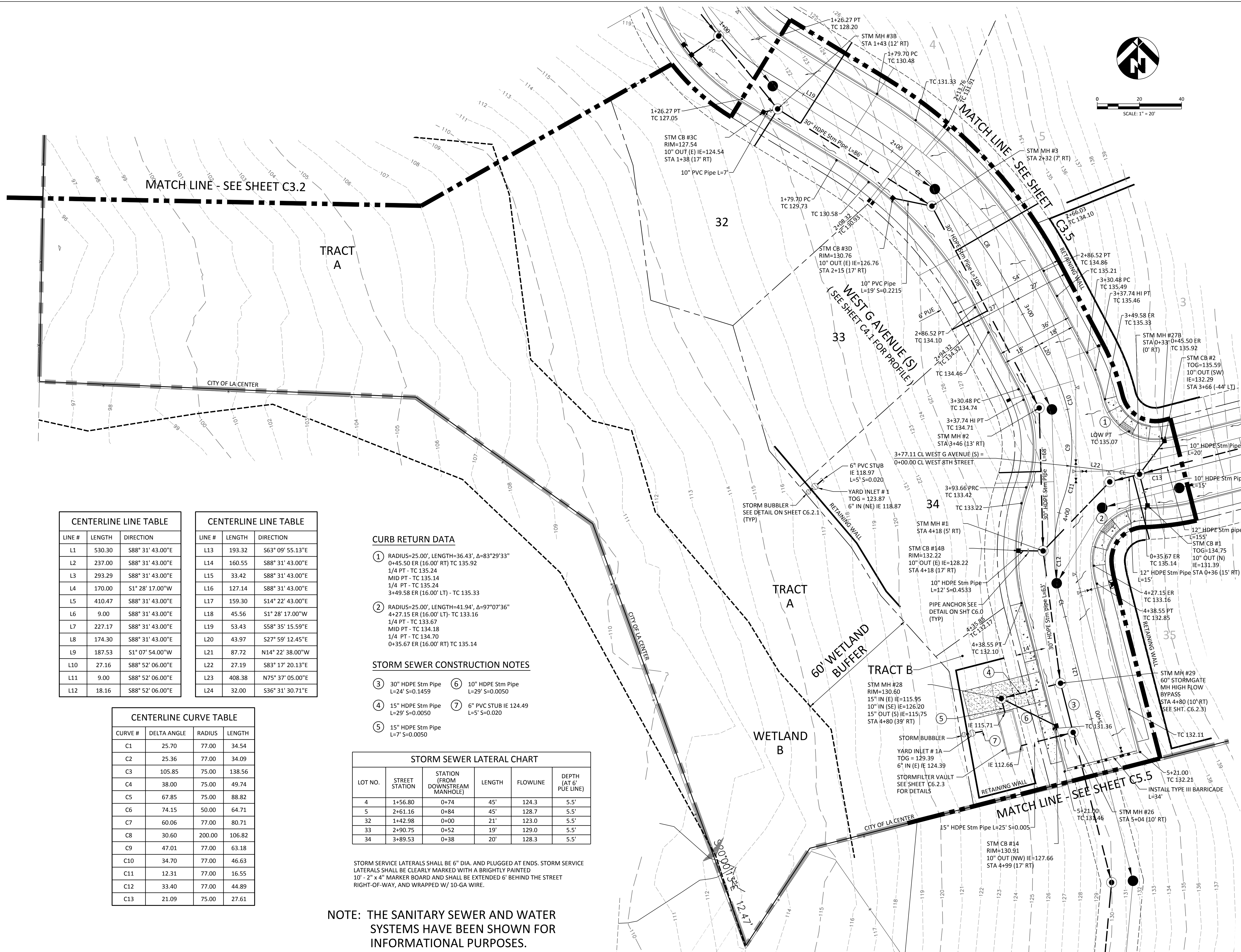
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DATE: 4/22/2015
SCALE: 1" = 20'
DESIGNED BY: BT
DRAWN BY: AJS
CHECKED BY:

100% PLAN SET

C3.4



0 20 40
SCALE: 1" = 20'



CENTERLINE LINE TABLE

LINE #	LENGTH	DIRECTION
L1	530.30	S88° 31' 43.00"E
L2	237.00	S88° 31' 43.00"E
L3	293.29	S88° 31' 43.00"E
L4	170.00	S1° 28' 17.00"W
L5	410.47	S88° 31' 43.00"E
L6	9.00	S88° 31' 43.00"E
L7	227.17	S88° 31' 43.00"E
L8	174.30	S88° 31' 43.00"E
L9	187.53	S1° 07' 54.00"W
L10	27.16	S88° 52' 06.00"E
L11	9.00	S88° 52' 06.00"E
L12	18.16	S88° 52' 06.00"E

CENTERLINE LINE TABLE

LINE #	LENGTH	DIRECTION
L13	193.32	S63° 09' 55.13"E
L14	160.55	S88° 31' 43.00"E
L15	33.42	S88° 31' 43.00"E
L16	127.14	S88° 31' 43.00"E
L17	159.30	S14° 22' 43.00"E
L18	45.56	S1° 28' 17.00"W
L19	53.43	S58° 35' 15.59"E
L20	43.97	S27° 59' 12.45"E
L21	87.72	N14° 22' 38.00"W
L22	27.19	S83° 17' 20.13"E
L23	408.38	N75° 37' 05.00"E
L24	32.00	S36° 31' 30.71"E

CENTERLINE CURVE TABLE

CURVE #	DELTA ANGLE	RADIUS	LENGTH
C1	25.70	77.00	34.54
C2	25.36	77.00	34.09
C3	105.85	75.00	138.56
C4	38.00	75.00	49.74
C5	67.85	75.00	88.82
C6	74.15	50.00	64.71
C7	60.06	77.00	80.71
C8	30.60	200.00	106.82
C9	47.01	77.00	63.18
C10	34.70	77.00	46.63
C11	12.31	77.00	16.55
C12	33.40	77.00	44.89
C13	21.09	75.00	27.61

CURB RETURN DATA

- RADIUS=25.00', LENGTH=36.43', Δ=83°29'33"
0+45.50 ER (16.00' RT) TC 135.92
1/4 PT - TC 135.24
MID PT - TC 135.14
1/4 PT - TC 135.24
3+49.58 ER (16.00' LT) - TC 135.33
- RADIUS=25.00', LENGTH=41.94', Δ=97°07'36"
4+27.15 ER (16.00' LT) - TC 133.16
1/4 PT - TC 133.67
MID PT - TC 134.18
1/4 PT - TC 134.70
0+35.67 ER (16.00' RT) TC 135.14

STORM SEWER CONSTRUCTION NOTES

- 30" HDPE Stm Pipe L=24' S=0.1459
- 15" HDPE Stm Pipe L=29' S=0.0050
- 15" HDPE Stm Pipe L=7' S=0.0050
- 10" HDPE Stm Pipe L=29' S=0.0050
- 6" PVC STUB IE 124.49 L=5' S=0.020

STORM SEWER LATERAL CHART

LOT NO.	STREET STATION	STATION (FROM DOWNSTREAM MANHOLE)	LENGTH	FLOWLINE	DEPTH (AT 6' PUE LINE)
4	1+56.80	0+74	45'	124.3	5.5'
5	2+61.16	0+84	45'	128.7	5.5'
32	1+42.98	0+00	21'	123.0	5.5'
33	2+90.75	0+52	19'	129.0	5.5'
34	3+89.53	0+38	20'	128.3	5.5'

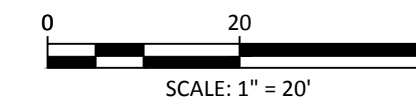
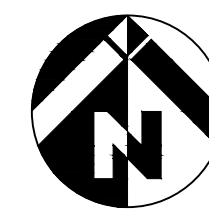
STORM SERVICE LATERALS SHALL BE 6" DIA. AND PLUGGED AT ENDS. STORM SERVICE LATERALS SHALL BE CLEARLY MARKED WITH A BRIGHTLY PAINTED 10' - 2" x 4" MARKER BOARD AND SHALL BE EXTENDED 6' BEHIND THE STREET RIGHT-OF-WAY, AND WRAPPED W/ 10-GA WIRE.

NOTE: THE SANITARY SEWER AND WATER SYSTEMS HAVE BEEN SHOWN FOR INFORMATIONAL PURPOSES.

FILE: W:\15472\CIVIL\DWG\SHEETS\15472_C3.0_C3.5_ST_STM_C3D2012.DWG

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APN 64230-000

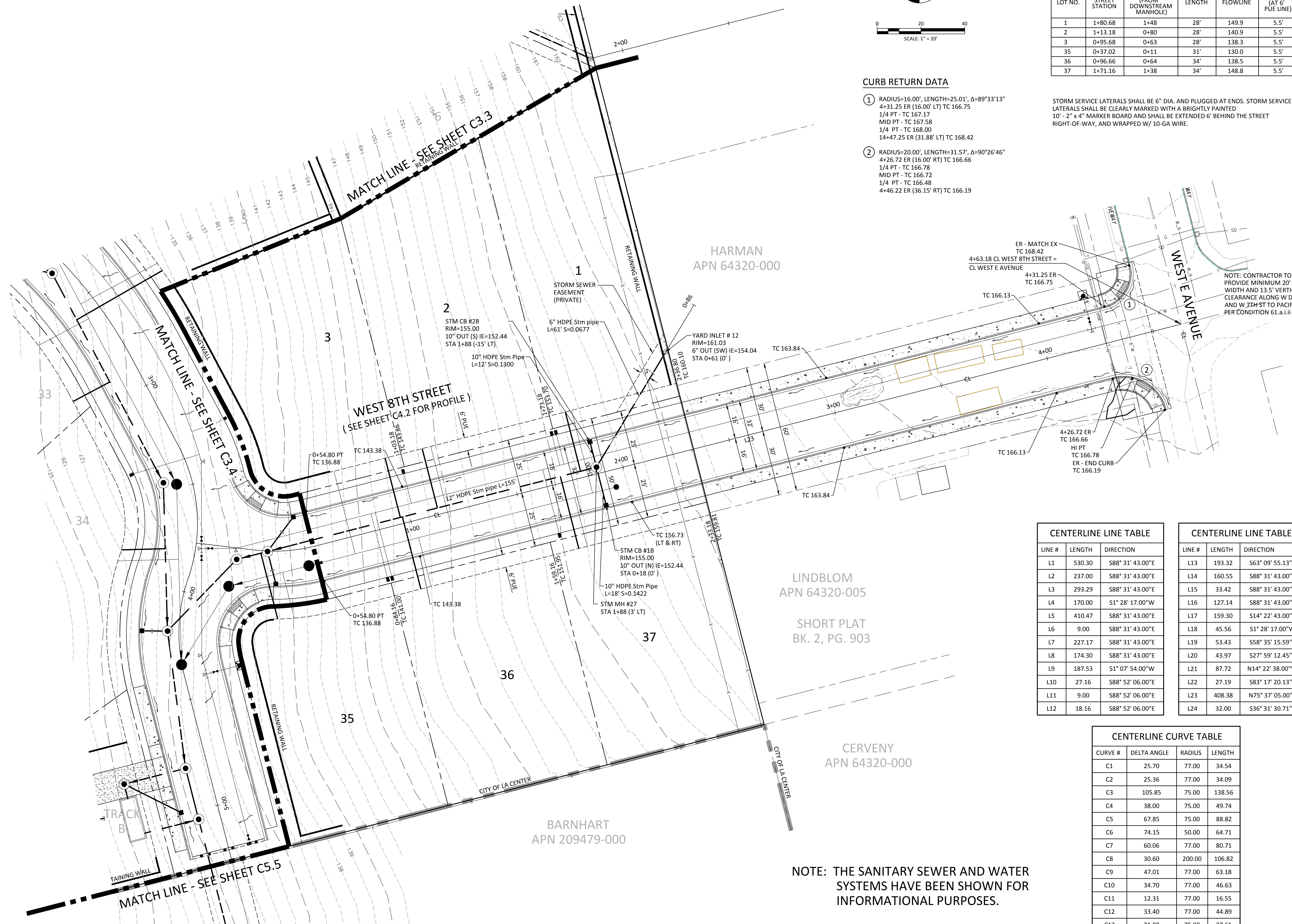


STORM SEWER LATERAL CHART					
LOT NO.	STREET STATION	STATION (FROM DOWNSTREAM MANHOLE)	LENGTH	FLOWLINE	DEPTH (AT 6' PUE LINE)
1	1+80.68	1+48	28'	149.9	5.5'
2	1+13.18	0+80	28'	140.9	5.5'
3	0+95.68	0+63	28'	138.3	5.5'
35	0+37.02	0+11	31'	130.0	5.5'
36	0+96.66	0+64	34'	138.5	5.5'
37	1+71.16	1+38	34'	148.8	5.5'

STORM SERVICE LATERALS SHALL BE 6" DIA. AND PLUGGED AT ENDS. STORM SERVICE LATERALS SHALL BE CLEARLY MARKED WITH A BRIGHTLY PAINTED 10" x 4" MARKER BOARD AND SHALL BE EXTENDED 6' BEHIND THE STREET RIGHT-OF-WAY, AND WRAPPED W/ 10-GA WIRE.

CURB RETURN DATA

- ① RADIUS=16.00', LENGTH=25.01', Δ=89°33'13"
 4+31.25 ER (16.00' LT) TC 166.75
 1/4 PT - TC 167.17
 MID PT - TC 167.58
 1/4 PT - TC 168.00
 14+47.25 ER (31.88' LT) TC 168.42
- ② RADIUS=20.00', LENGTH=31.57', Δ=90°26'46"
 4+26.72 ER (16.00' RT) TC 166.66
 1/4 PT - TC 166.78
 MID PT - TC 166.72
 1/4 PT - TC 166.48
 4+46.22 ER (36.15' RT) TC 166.19



NOTE: CONTRACTOR TO PROVIDE MINIMUM 20' PAVED WIDTH AND 13.5' VERTICAL CLEARANCE ALONG W D AVE AND W 7TH ST TO PACIFIC HWY PER CONDITION 61.a.ii

CENTERLINE LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	530.30	S88° 31' 43.00"E
L2	237.00	S88° 31' 43.00"E
L3	293.29	S88° 31' 43.00"E
L4	170.00	S1° 28' 17.00"W
L5	410.47	S88° 31' 43.00"E
L6	9.00	S88° 31' 43.00"E
L7	227.17	S88° 31' 43.00"E
L8	174.30	S88° 31' 43.00"E
L9	187.53	S1° 07' 54.00"W
L10	27.16	S88° 52' 06.00"E
L11	9.00	S88° 52' 06.00"E
L12	18.16	S88° 52' 06.00"E

CENTERLINE LINE TABLE		
LINE #	LENGTH	DIRECTION
L13	193.32	S63° 09' 55.13"E
L14	160.55	S88° 31' 43.00"E
L15	33.42	S88° 31' 43.00"E
L16	127.14	S88° 31' 43.00"E
L17	159.30	S14° 22' 43.00"W
L18	45.56	S1° 28' 17.00"W
L19	53.43	S58° 35' 15.59"E
L20	43.97	S27° 59' 12.45"E
L21	87.72	N14° 22' 38.00"W
L22	27.19	S83° 17' 20.13"E
L23	408.38	N75° 37' 05.00"E
L24	32.00	S36° 31' 30.71"E

CENTERLINE CURVE TABLE			
CURVE #	DELTA ANGLE	RADIUS	LENGTH
C1	25.70	77.00	34.54
C2	25.36	77.00	34.09
C3	105.85	75.00	138.56
C4	38.00	75.00	49.74
C5	67.85	75.00	88.82
C6	74.15	50.00	64.71
C7	60.06	77.00	80.71
C8	30.60	200.00	106.82
C9	47.01	77.00	63.18
C10	34.70	77.00	46.63
C11	12.31	77.00	16.55
C12	33.40	77.00	44.89
C13	21.09	75.00	27.61

NOTE: THE SANITARY SEWER AND WATER SYSTEMS HAVE BEEN SHOWN FOR INFORMATIONAL PURPOSES.

KAY'S SUBDIVISION
LA CENTER, WASHINGTON
STREET AND STORM PLAN

REVISIONS:

1	REV_DATE
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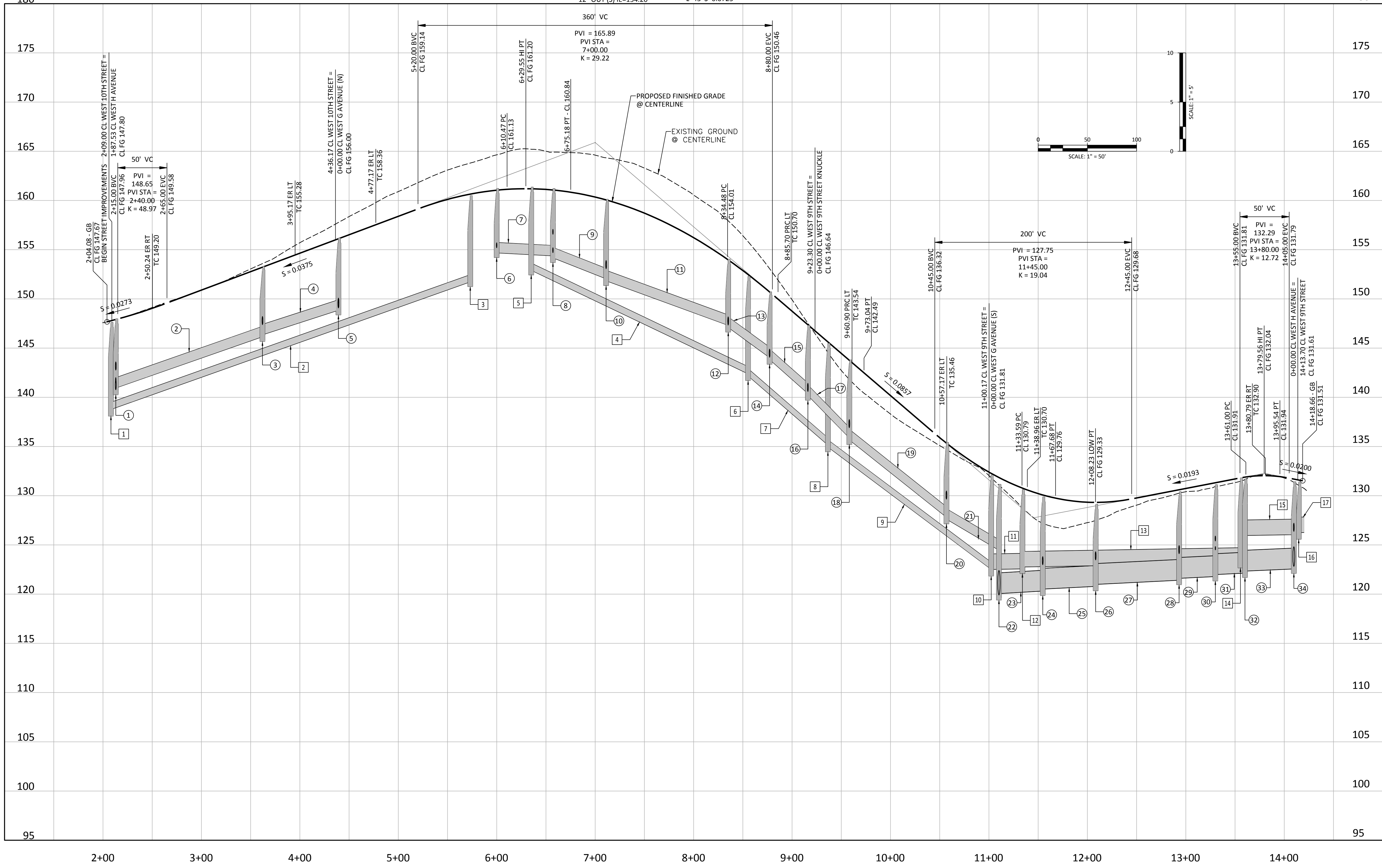
JOB NO.: 15472/15695
 DATE: 4/22/2015
 SCALE: 1" = 20'
 DESIGNED BY: BT
 DRAWN BY: AJS
 CHECKED BY:

100% PLAN SET

C3.5



- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------------------------------|--|--------------------------------------|---|---|-------------------------------------|---|--------------------------------------|--|---------------------------------------|---|--|---|---------------------------------------|--|---------------------------------------|--|--|--|---------------------------------------|--|--|---------------------------------------|--|---------------------------------------|---|---|---|--|---|--|---|---|---|--|---|--|---|--|--|--|---|--|--|--|---|--|---|-----------------------------------|---|
| 1 SAN MH #16
STA 2+08
RIM=147.61
8" IN (E) IE=138.80
8" OUT (S) IE=138.60 | 2 8" PVC Pipe
L=365' S=0.0355 | 3 SAN MH #17
STA 5+73
RIM=160.49
8" OUT (W) IE=151.76 | 4 8" PVC San Pipe
L=219' S=0.0480 | 5 SAN MH #21
STA 6+35
RIM=161.35
4" IN (N) IE=153.50
8" OUT (S) IE=152.94 | 6 SAN MH #20
STA 8+55
RIM=152.29
8" IN (N) IE=142.42
8" OUT (S) IE=142.22 | 7 8" PVC San Pipe
L=86' S=0.0816 | 8 SAN MH #19
STA 9+36
RIM=145.48
8" IN (N) IE=135.18
4" IN (SE) IE=135.50
8" OUT (W) IE=134.98 | 9 8" PVC San Pipe
L=173' S=0.0717 | 10 SAN MH #12
STA 11+02
RIM=132.11
8" IN (E) IE=122.55
18" IN (W) IE=122.55
18" OUT (S) IE=122.35 | 11 18" PVC San Pipe
L=32' S=0.0017 | 12 SAN MH #13
STA 11+34
RIM=130.63
18" IN (NW) IE=122.80
4" IN (N) IE=124.05
18" OUT (E) IE=122.60 | 13 18" PVC San Pipe
L=224' S=0.0017 | 14 SAN MH #14
(OUTSIDE DROP MH)
STA 13+56
RIM=131.81
18" IN (W) IE=125.99
18" OUT (SE) IE=123.18 | 15 18" PVC San Pipe
L=57' S=0.0017 | 16 SAN MH #15
STA 14+15
RIM=131.39
8" IN (N) IE=126.29
18" IN (W) IE=126.29
18" OUT (E) IE=126.09 | 17 18" HDPE Stm Pipe
L=5' S=0.0018 | 1 12" HDPE Stm Pipe
STA 2+13
RIM=147.97
12" IN (E) IE=140.97
10" IN (SE) IE=142.77
6" IN (N) IE=141.50
12" OUT (S) IE=140.77 | 2 12" HDPE Stm Pipe
L=149' S=0.0350 | 3 STM MH #12B
STA 3+62
RIM=153.28
12" IN (E) IE=146.38
10" IN (S) IE=147.38
12" OUT (W) IE=146.18 | 4 12" HDPE Stm Pipe
L=77' S=0.0324 | 5 STM MH #13
STA 4+39
RIM=156.17
12" IN (N) IE=149.08
10" IN (SE) IE=149.08
12" OUT (W) IE=148.88 | 6 STM MH #20
STA 6+00
RIM=161.21
12" OUT (SE) IE=154.70 | 7 12" HDPE Stm Pipe
L=61' S=0.0050 | 8 STM MH #19
STA 6+57
RIM=161.20
12" IN (NW) IE=154.40
6" IN (E) IE=156.57
6" IN (N) IE=154.70
12" OUT (S) IE=154.20 | 9 12" HDPE Stm Pipe
L=56' S=0.0380 | 10 STM MH #18B
STA 7+11
RIM=160.12
12" IN (N) IE=152.07
10" IN (W) IE=153.07
12" OUT (S) IE=151.87 | 11 12" HDPE Stm Pipe
L=124' S=0.0365 | 12 STM MH #18
STA 8+35
RIM=154.03
12" IN (N) IE=147.34
10" IN (W) IE=147.34
6" IN (E) IE=147.51
12" OUT (S) IE=147.14 | 13 12" HDPE Stm Pipe
L=43' S=0.0723 | 14 STM MH #17B
STA 8+77
RIM=150.71
12" IN (N) IE=144.07
10" IN (W) IE=144.07
12" OUT (S) IE=143.87 | 15 12" HDPE Stm Pipe
L=50' S=0.0684 | 16 STM MH #17
STA 9+16
RIM=147.30
12" IN (N) IE=140.42
10" IN (SE) IE=140.59
12" OUT (W) IE=140.22 | 17 12" HDPE Stm Pipe
L=54' S=0.0800
PLUG END
(FUTURE CONNECTION) | 18 STM MH #16B
STA 9+58
RIM=143.80
12" IN (E) IE=135.91
10" IN (S) IE=136.91
12" OUT (W) IE=135.71 | 19 12" HDPE Stm Pipe
L=98' S=0.0800 | 20 STM MH #16
STA 10+57
RIM=135.41
12" IN (E) IE=127.85
10" IN (S) IE=129.65
12" OUT (SW) IE=127.65
12" HDPE Stm Pipe
L=63' S=0.0500 | 21 12" HDPE Stm Pipe
L=56' S=0.0500 | 22 STM MH #6
(OUTSIDE DROP MH)
STA 11+10
RIM=131.14
24" IN (NW) IE=120.11
12" IN (NE) IE=124.50
30" OUT (S) IE=119.91 | 23 24" HDPE Stm Pipe
L=52' S=0.0050 | 24 STM MH #7
STA 11+55
RIM=129.88
24" IN (NW) IE=120.57
10" IN (S) IE=122.99
24" OUT (SE) IE=120.37 | 25 24" HDPE Stm Pipe
L=56' S=0.0050 | 26 STM MH #8
STA 12+08
RIM=129.13
24" IN (NW) IE=121.05
10" IN (SW) IE=123.48
24" OUT (SE) IE=120.85 | 27 24" HDPE Stm Pipe
L=85' S=0.0050 | 28 STM MH #8B
STA 12+93
RIM=130.41
24" IN (NW) IE=121.67
10" IN (SW) IE=124.11
24" OUT (SE) IE=121.47 | 29 24" HDPE Stm Pipe
L=37' S=0.0050 | 30 STM MH #9
STA 13+30
RIM=131.12
24" IN (NW) IE=122.05
6" IN (NE) IE=125.40
4" IN (N) IE=124.50
24" OUT (SE) IE=121.85 | 31 24" HDPE Stm Pipe
L=30' S=0.0050 | 32 STM MH #10
STA 14+10
RIM=131.41
24" IN (N) IE=122.82
10" IN (W) IE=126.38
24" OUT (E) IE=122.62 | 33 24" PVC Pipe
L=44' S=0.0050 | 34 STM MH #10
STA 14+10
RIM=131.41
24" IN (N) IE=122.82
10" IN (W) IE=126.38
24" OUT (E) IE=122.62 |
|---|----------------------------------|--|--------------------------------------|---|---|-------------------------------------|---|--------------------------------------|--|---------------------------------------|---|--|---|---------------------------------------|--|---------------------------------------|--|--|--|---------------------------------------|--|--|---------------------------------------|--|---------------------------------------|---|---|---|--|---|--|---|---|---|--|---|--|---|--|--|--|---|--|--|--|---|--|---|-----------------------------------|---|

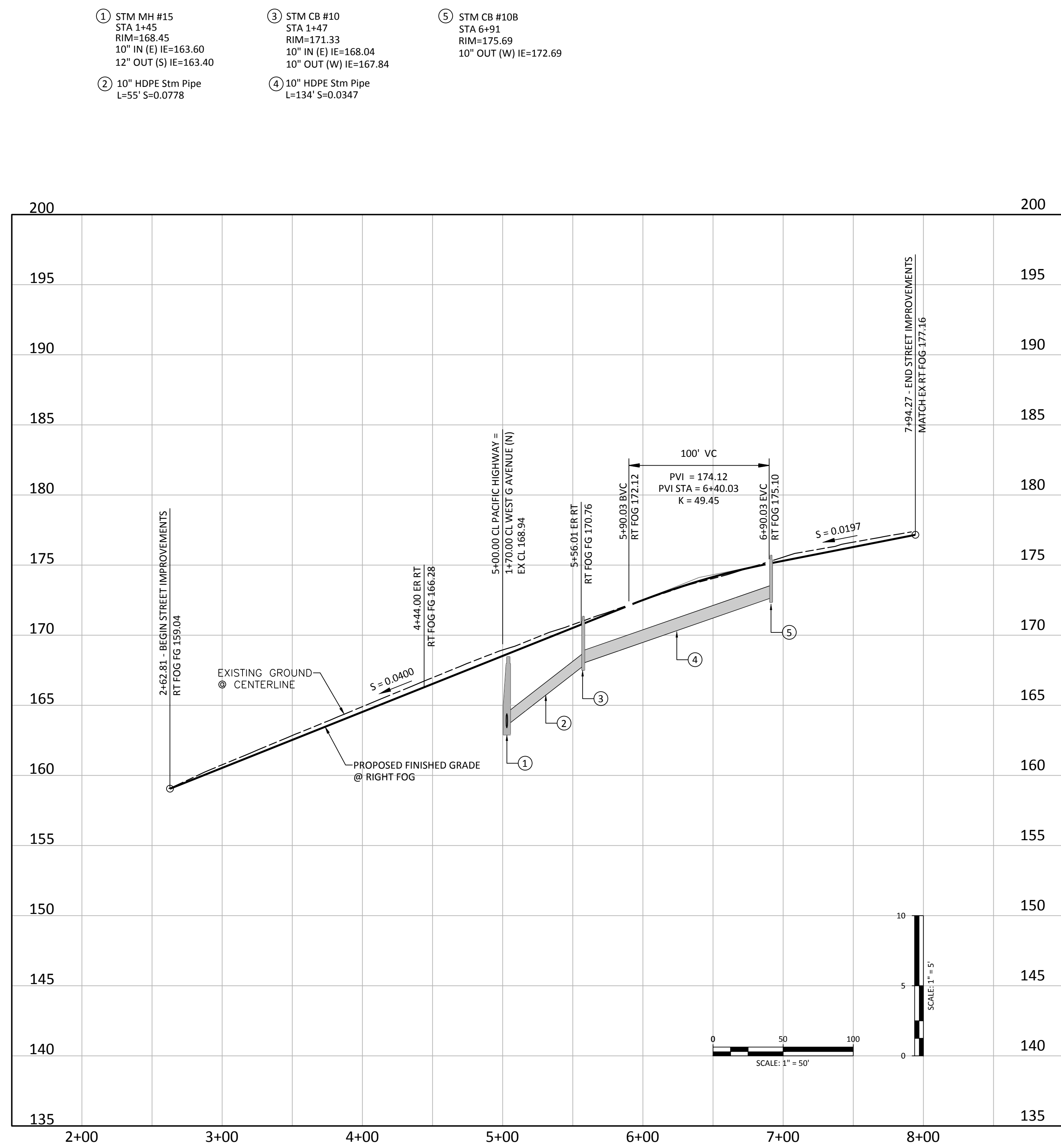


WEST 10TH STREET - WEST F AVE - WEST 9TH STREET

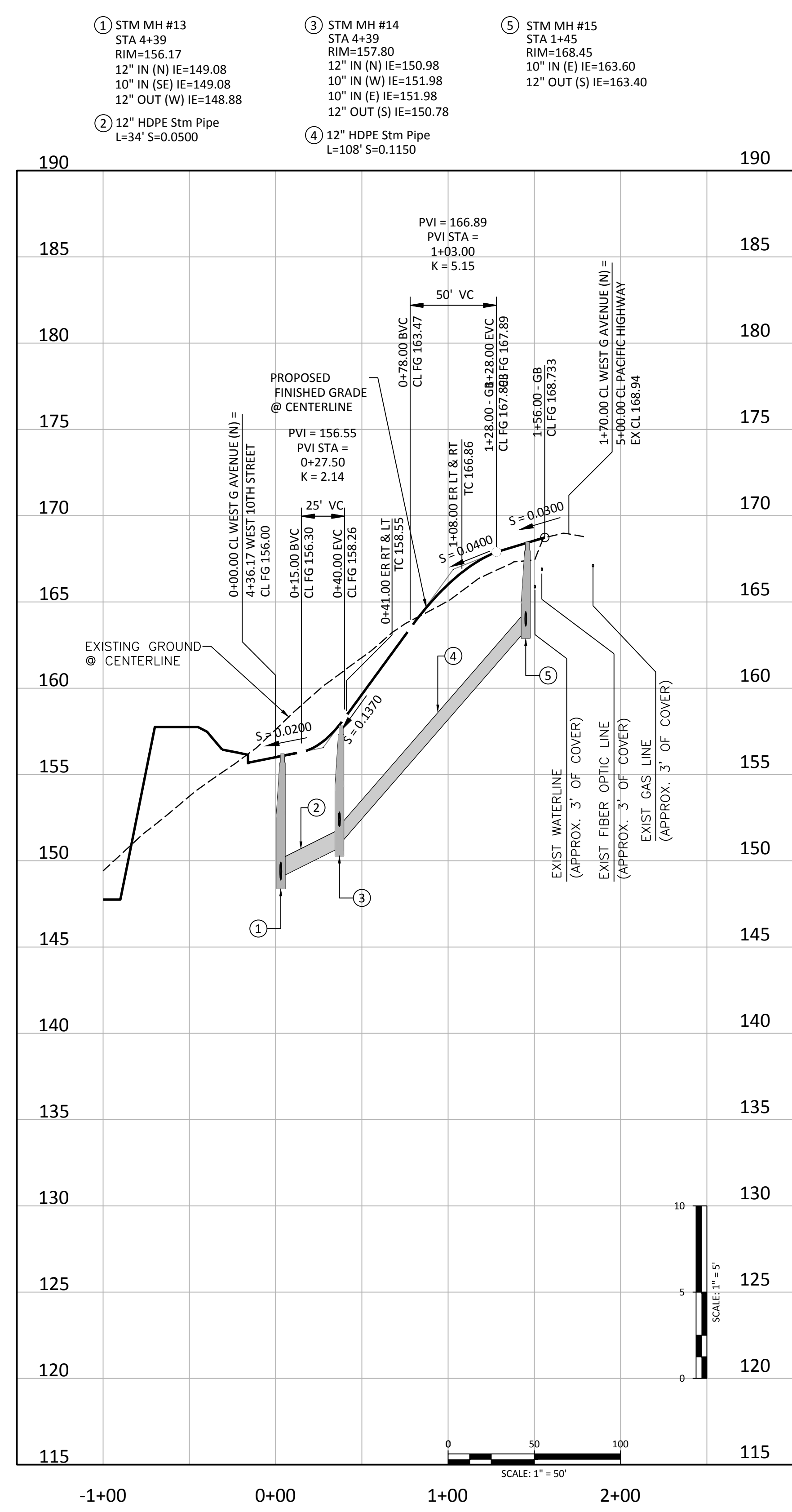


REVISIONS:

JOB NO.: 15472/15695
DATE: 4/22/2015
SCALE: H: 1"=50' - V: 1"=5'
DESIGNED BY: BT
DRAWN BY: AJS
CHECKED BY:



**NW PACIFIC HIGHWAY
(RIGHT FACE OF GUTTER)**



WEST G AVE (N)

- ① STM MH #15
STA 1+45
RIM=168.45
10" IN (E) IE=163.60
12" OUT (S) IE=163.40
- ② 10" HDPE Stm Pipe
L=55' S=0.0778
- ③ STM CB #10
STA 1+47
RIM=171.33
10" IN (E) IE=168.04
10" OUT (W) IE=167.84
- ④ 10" HDPE Stm Pipe
L=134' S=0.0347
- ⑤ STM CB #10B
STA 6+91
RIM=175.69
10" OUT (W) IE=172.69

- ① STM MH #13
STA 4+39
RIM=156.17
12" IN (N) IE=149.08
10" IN (SE) IE=149.08
12" OUT (W) IE=148.88
- ② 12" HDPE Stm Pipe
L=34' S=0.0500
- ③ STM MH #14
STA 4+39
RIM=157.80
12" IN (N) IE=150.98
10" IN (W) IE=151.98
10" IN (E) IE=151.98
12" OUT (S) IE=150.78
- ④ 12" HDPE Stm Pipe
L=108' S=0.1150
- ⑤ STM MH #15
STA 1+45
RIM=168.45
10" IN (E) IE=163.60
12" OUT (S) IE=163.40

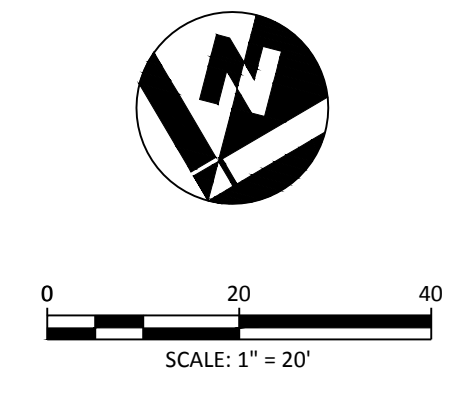
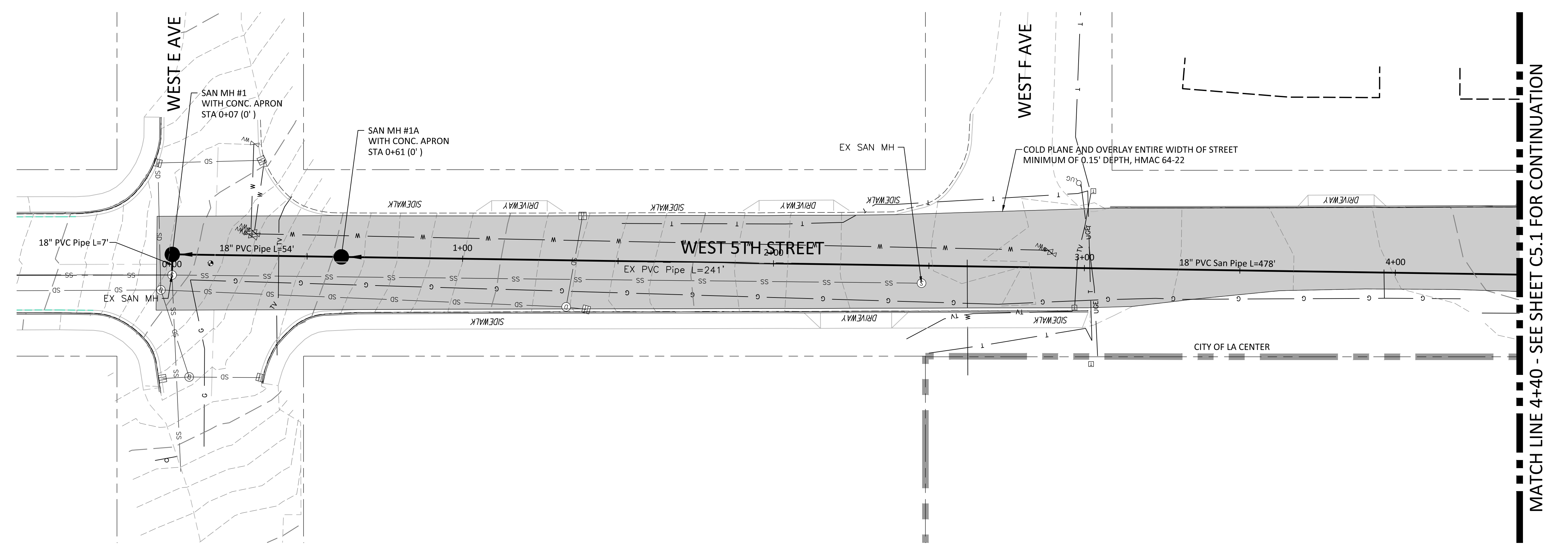


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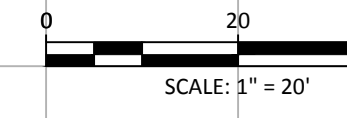
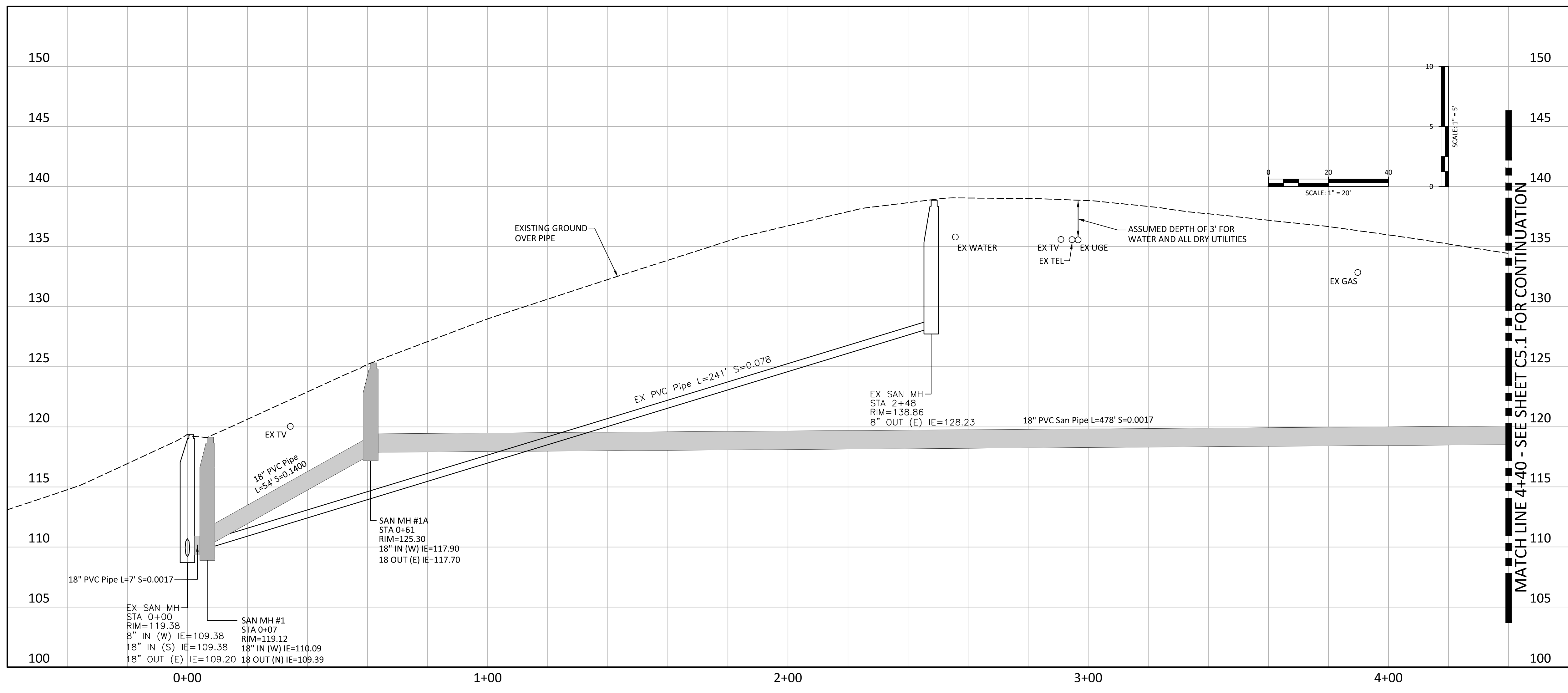
REVISIONS:

JOB NO.: 15472/15695
DATE: 4/22/2015
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DRAWN BY: AJS
CHECKED BY:

FILE: W:\15472\CIVIL\DWG\SHEETS\15472_C5.0_C5.2_OFFSITE_SAN_C3D2012.DWG



MATCH LINE 4+40 - SEE SHEET C5.1 FOR CONTINUATION



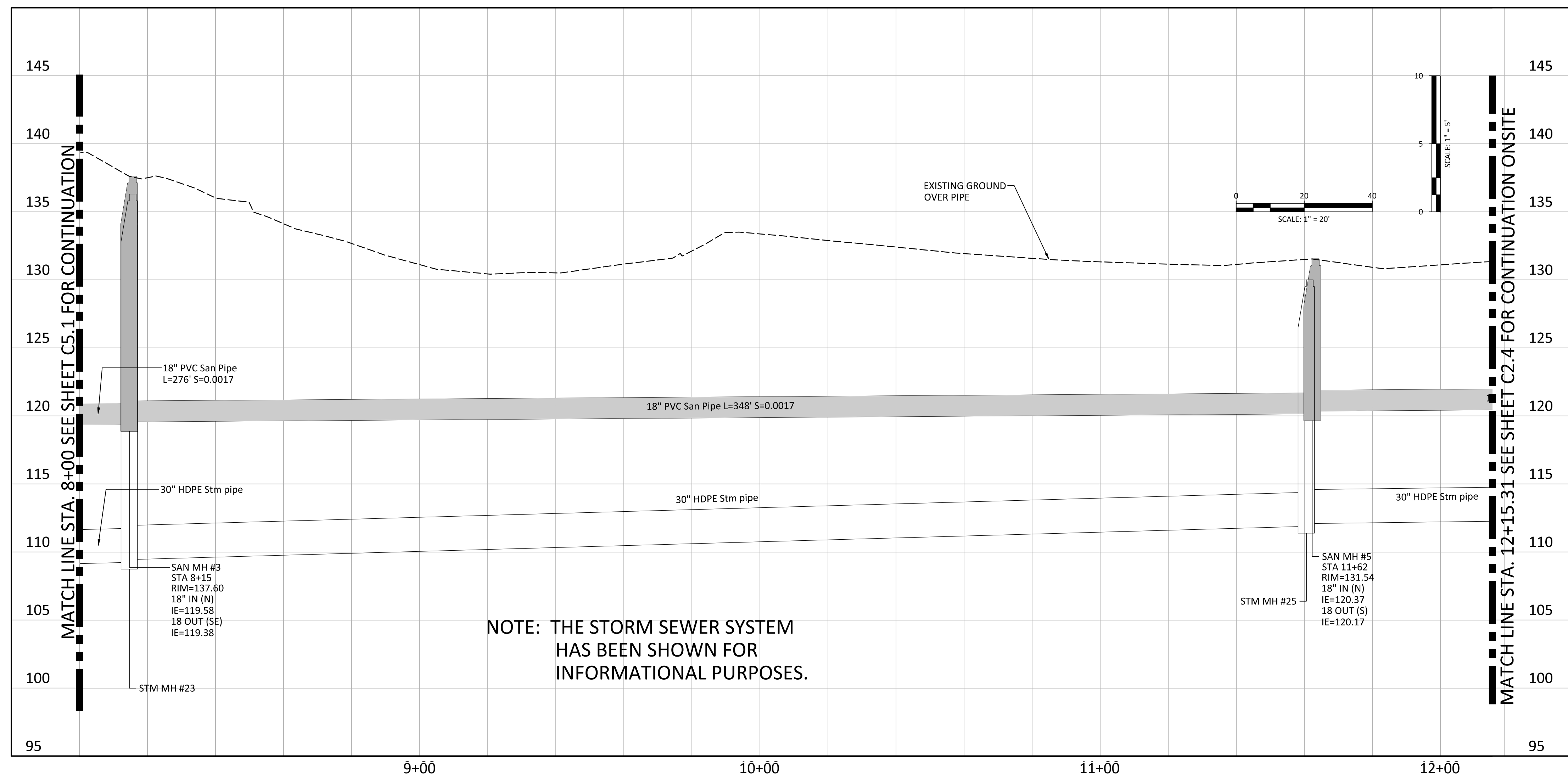
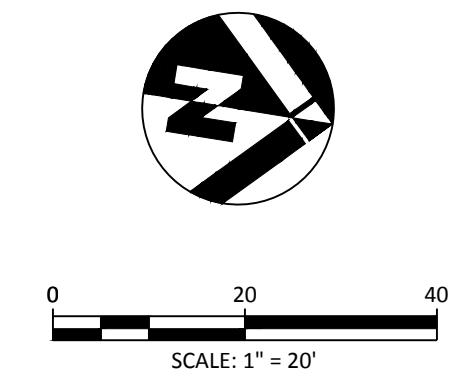
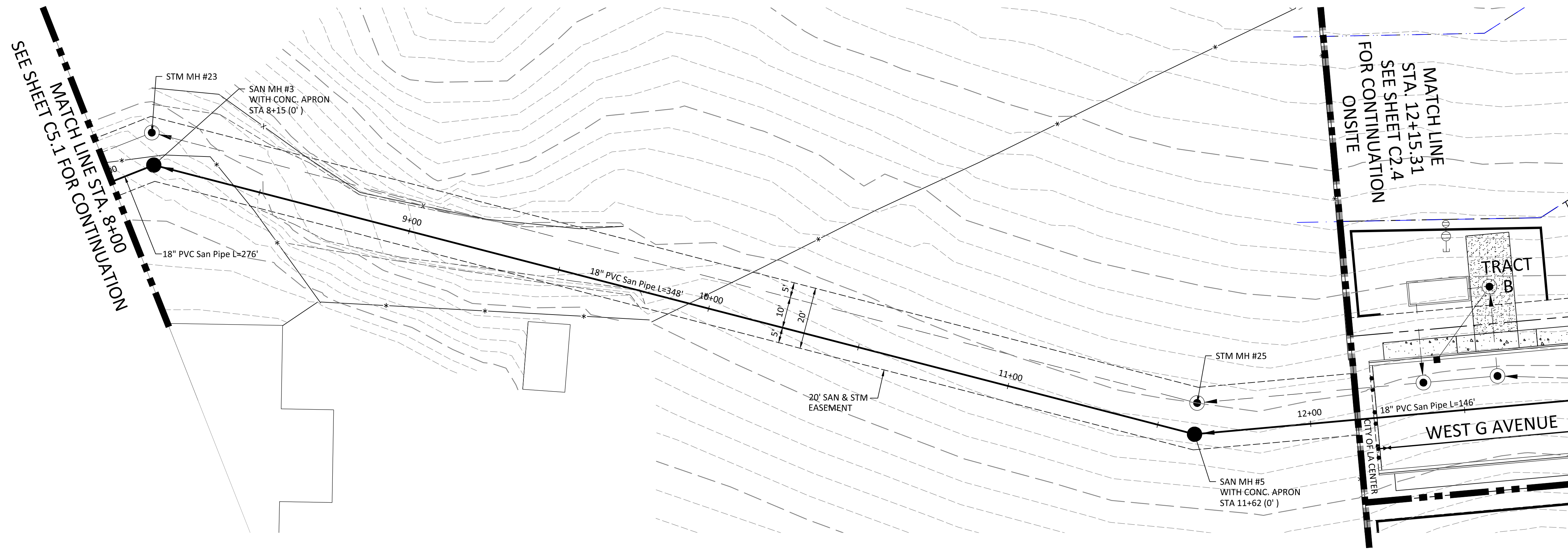
MATCH LINE 4+40 - SEE SHEET C5.1 FOR CONTINUATION



KAY'S SUBDIVISION
LA CENTER, WASHINGTON
OFFSITE SANITARY PLAN AND PROFILE

REVISIONS:

JOB NO.: 15472/15695
DATE: 4/22/2015
SCALE: H: 1"=20' - V: 1"=5'
DESIGNED BY: BT
DRAWN BY: AJS
CHECKED BY:



NOTE: THE STORM SEWER SYSTEM HAS BEEN SHOWN FOR INFORMATIONAL PURPOSES.

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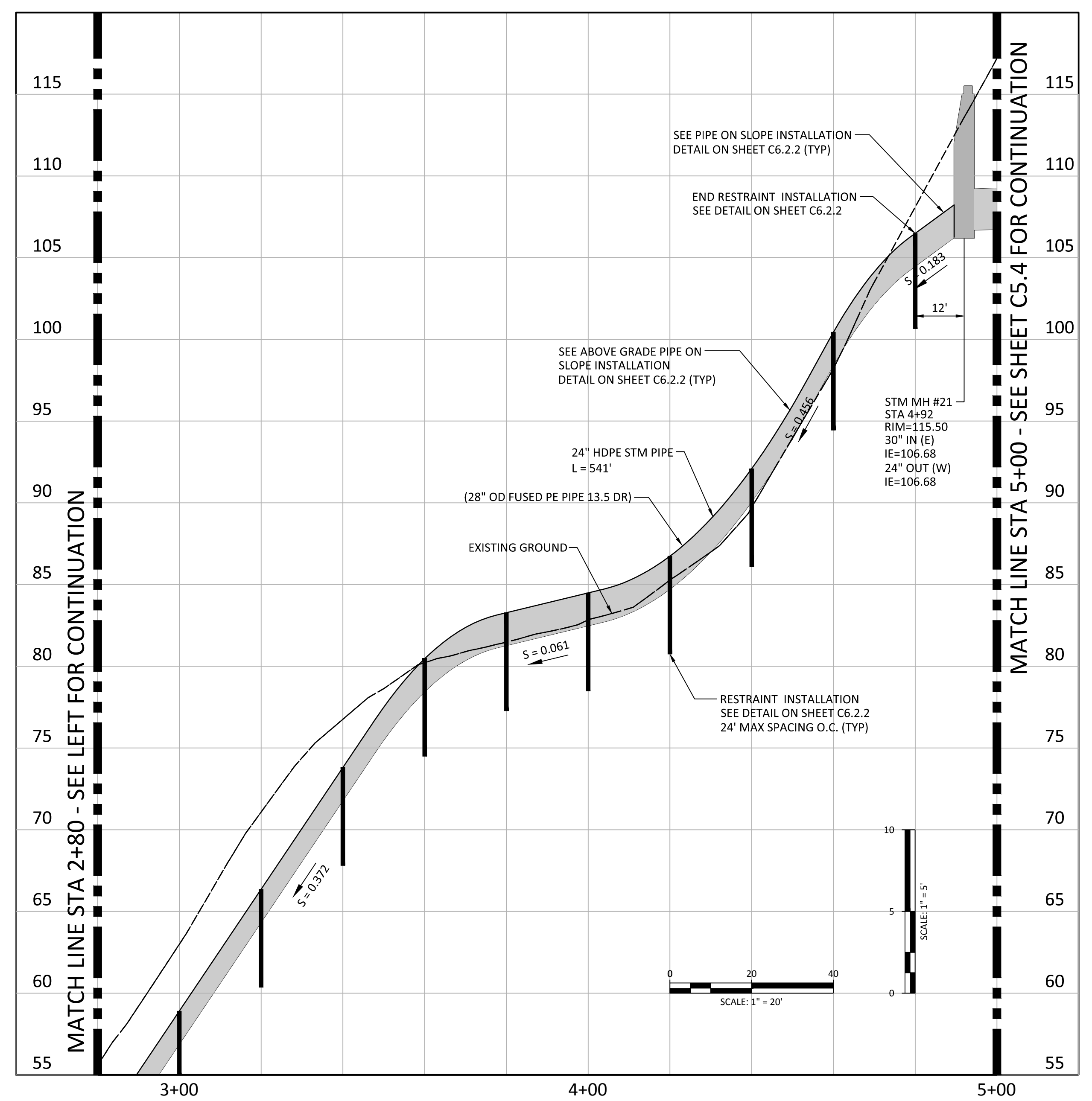
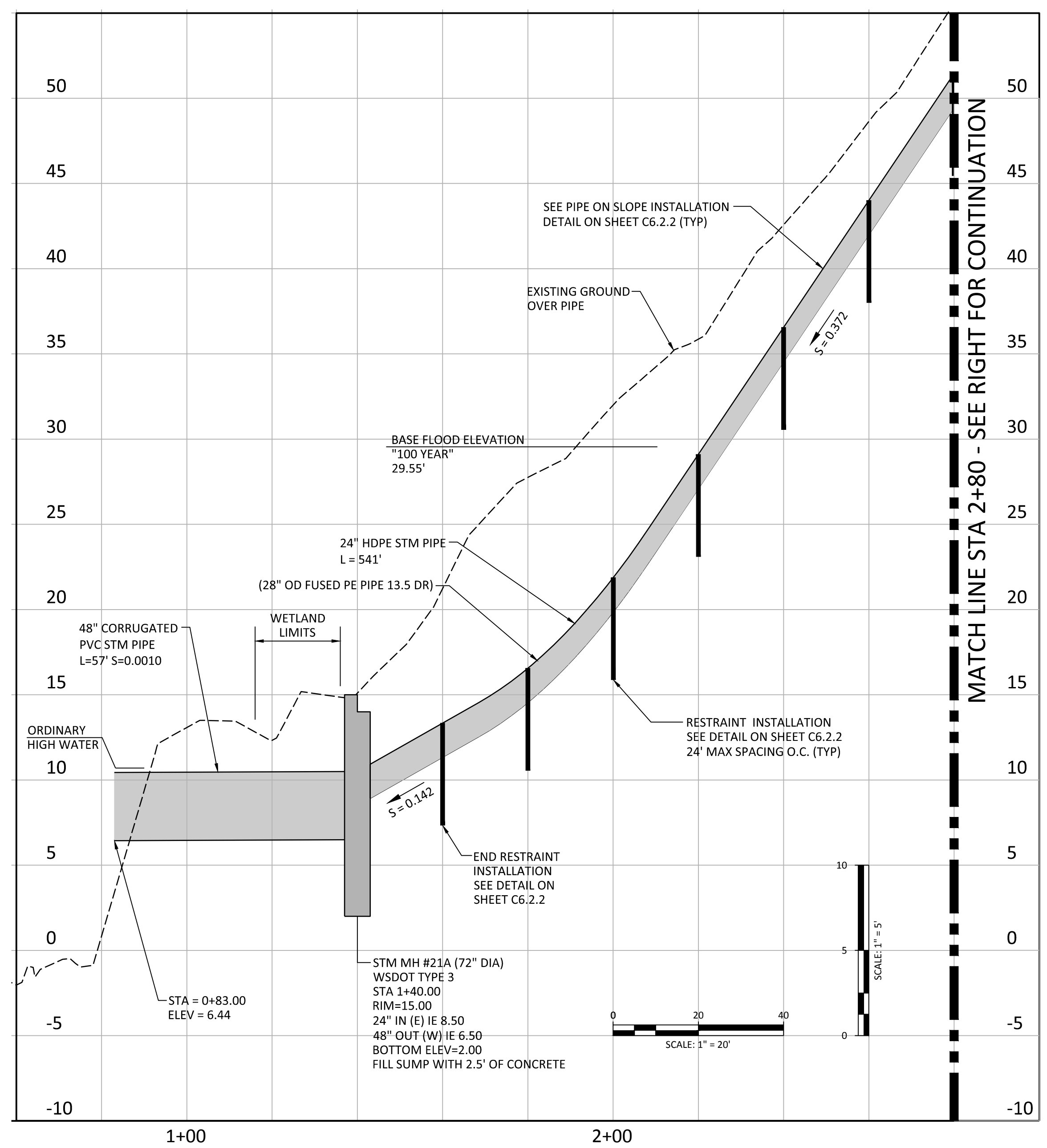
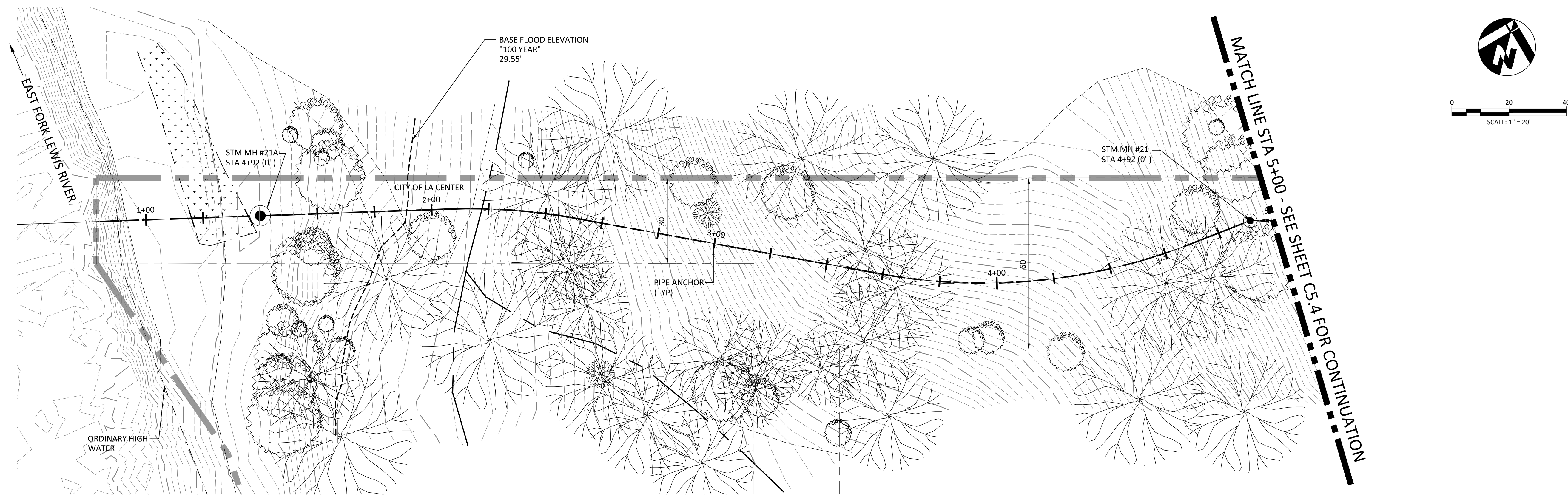


KAY'S SUBDIVISION
LA CENTER, WASHINGTON
OFFSITE SANITARY PLAN AND PROFILE

REVISIONS:

JOB NO.: 15472/15695
DATE: 4/22/2015
SCALE: H: 1"=20' - V: 1"=5'
DESIGNED BY: BT
DRAWN BY: AJS
CHECKED BY:

100% PLAN SET



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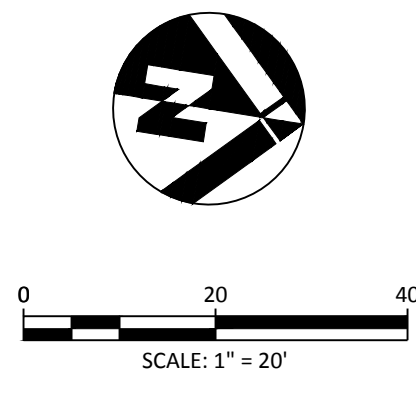
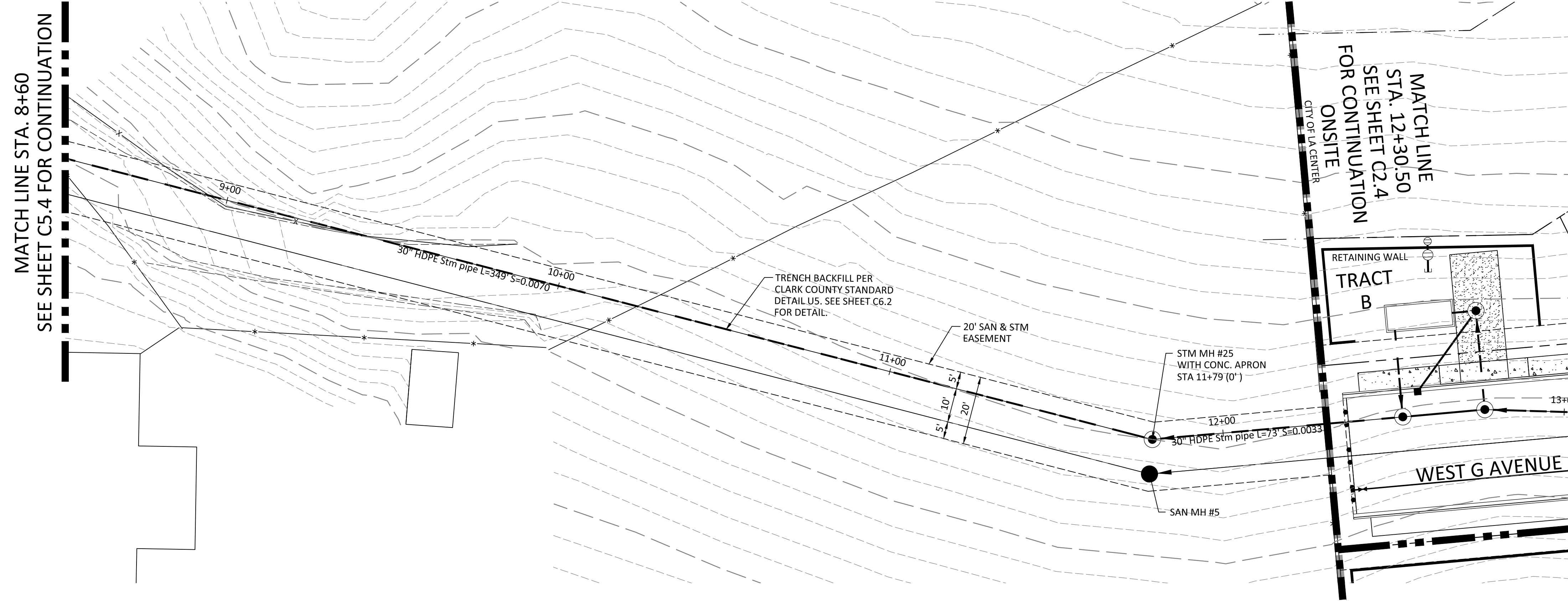


KAY'S SUBDIVISION
LA CENTER, WASHINGTON
OFFSITE STORM PLAN AND PROFILE

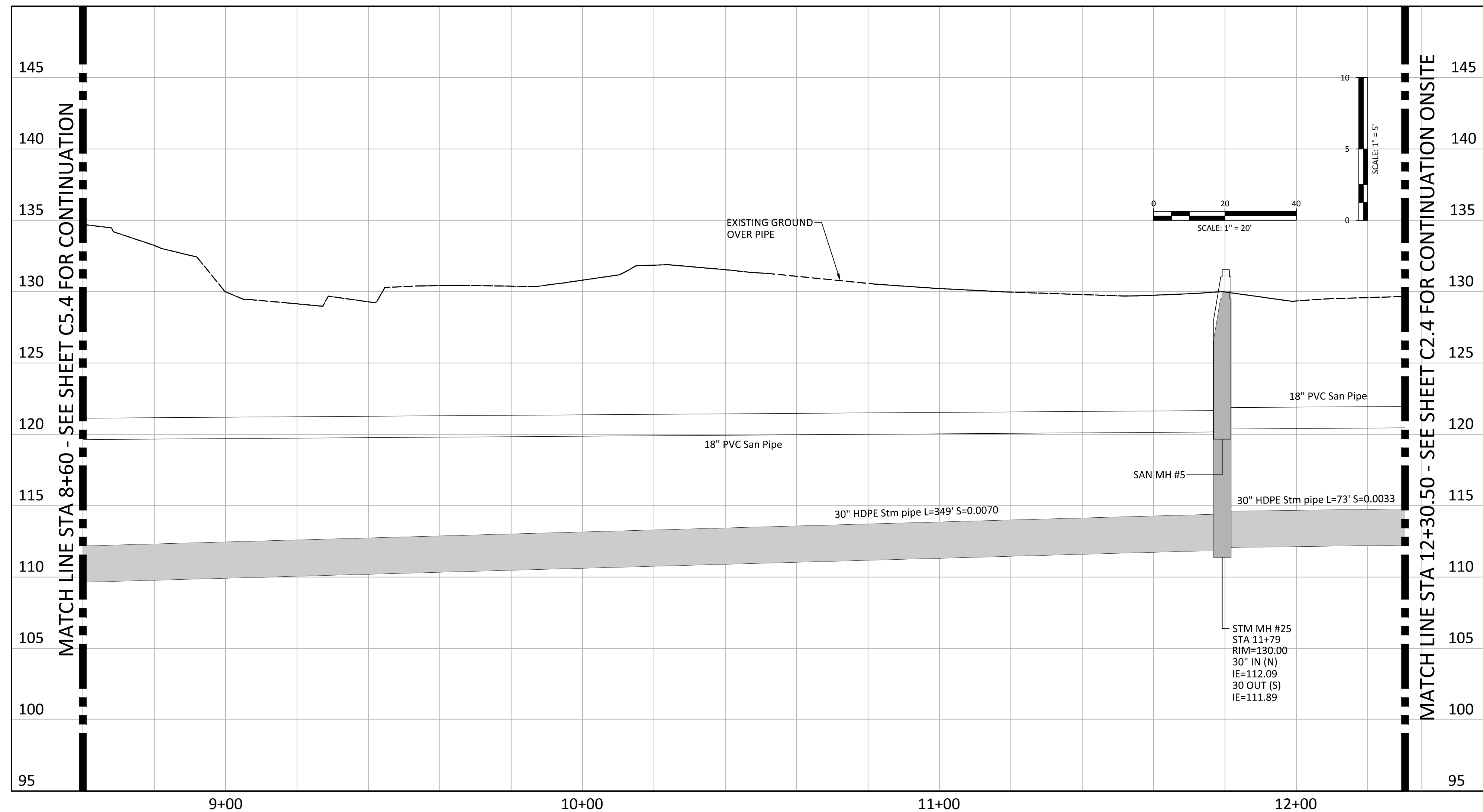
REVISIONS:

JOB NO.: 15472/15695
DATE: 4/22/2015
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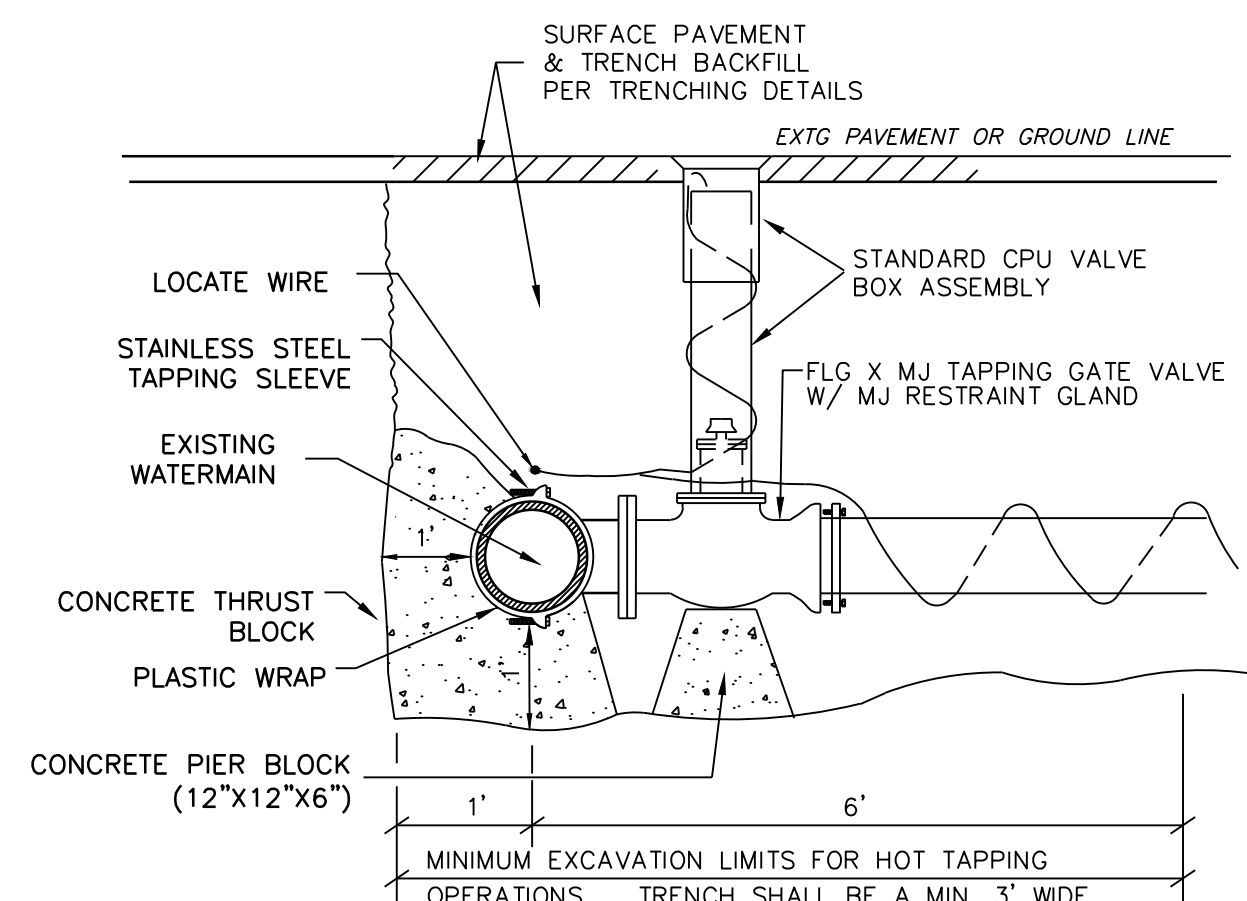
NOTE: THE SANITARY SEWER SYSTEM HAS BEEN SHOWN FOR INFORMATIONAL PURPOSES.



KAY'S SUBDIVISION
LA CENTER, WASHINGTON
OFFSITE STORM PLAN AND PROFILE

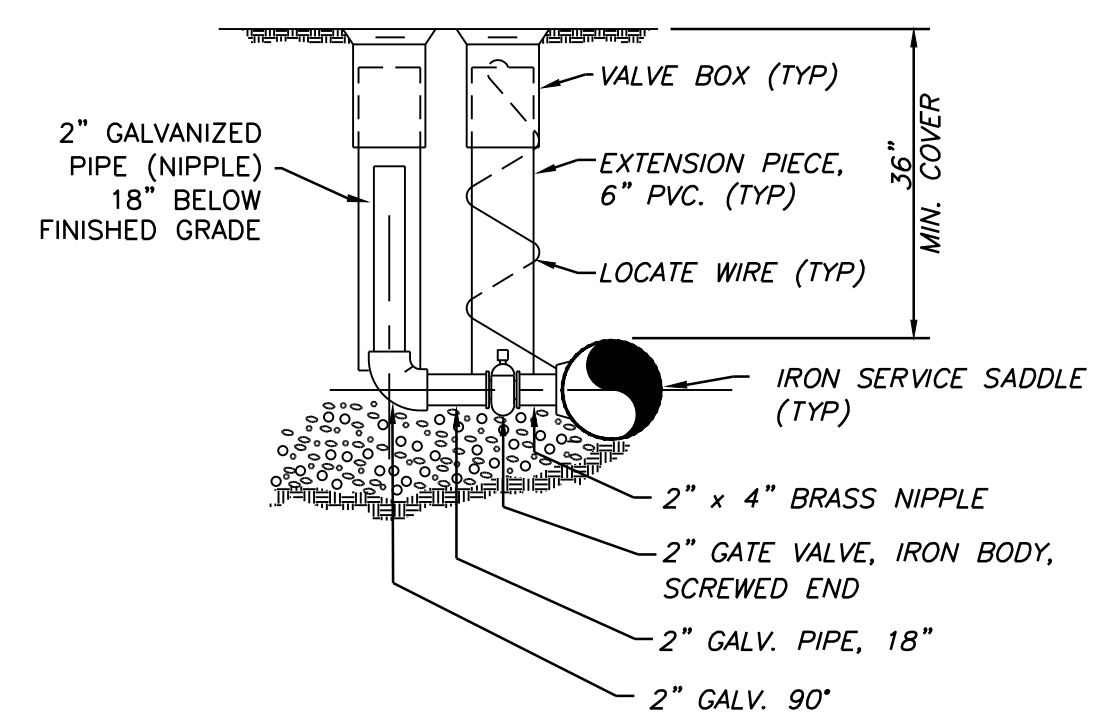
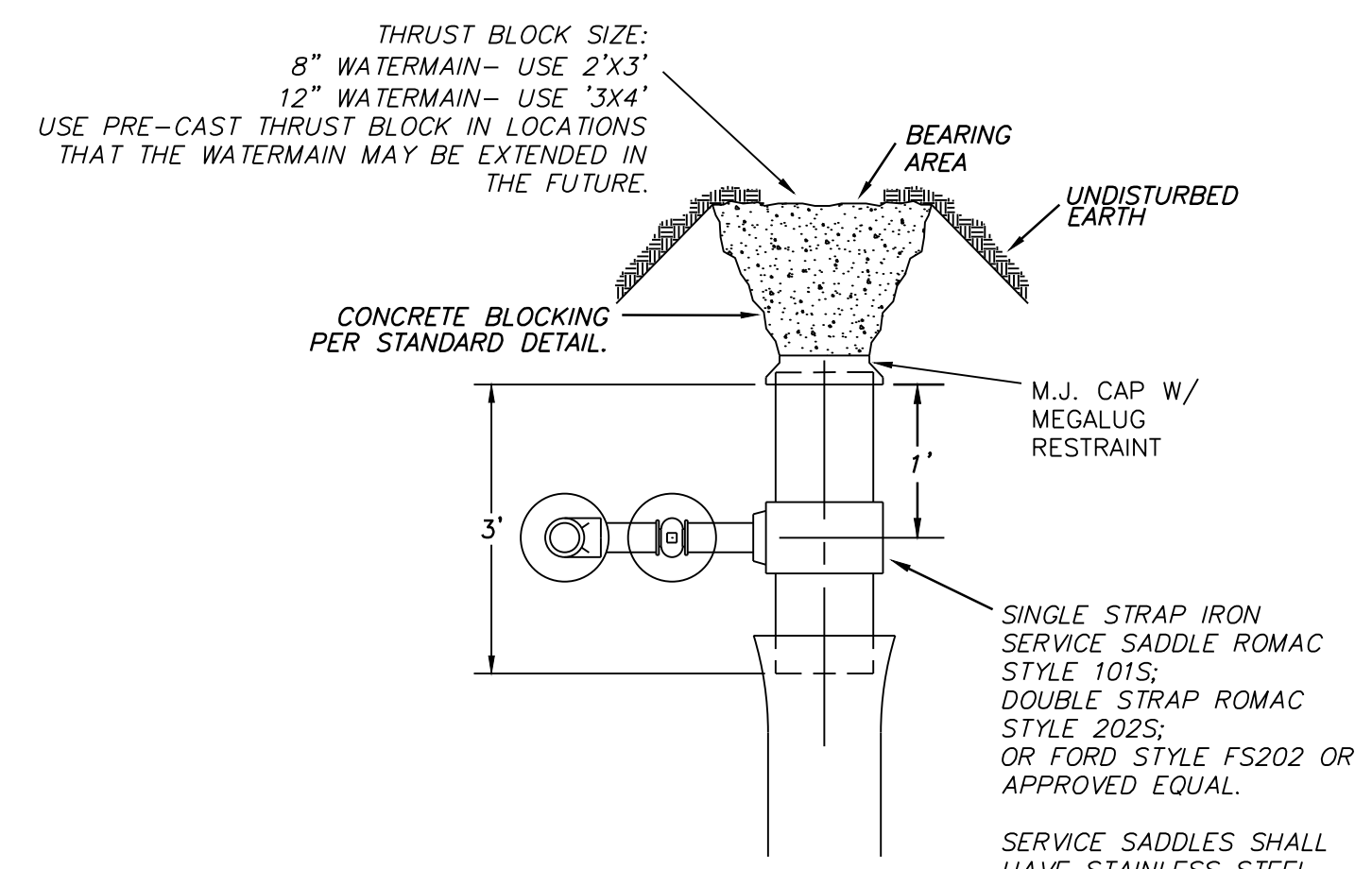
REVISIONS:

JOB NO.: 15472/15695
DATE: 4/22/2015
SCALE: H: 1"=20' - V: 1"=5'
DESIGNED BY: BT
DRAWN BY: AJS
CHECKED BY:

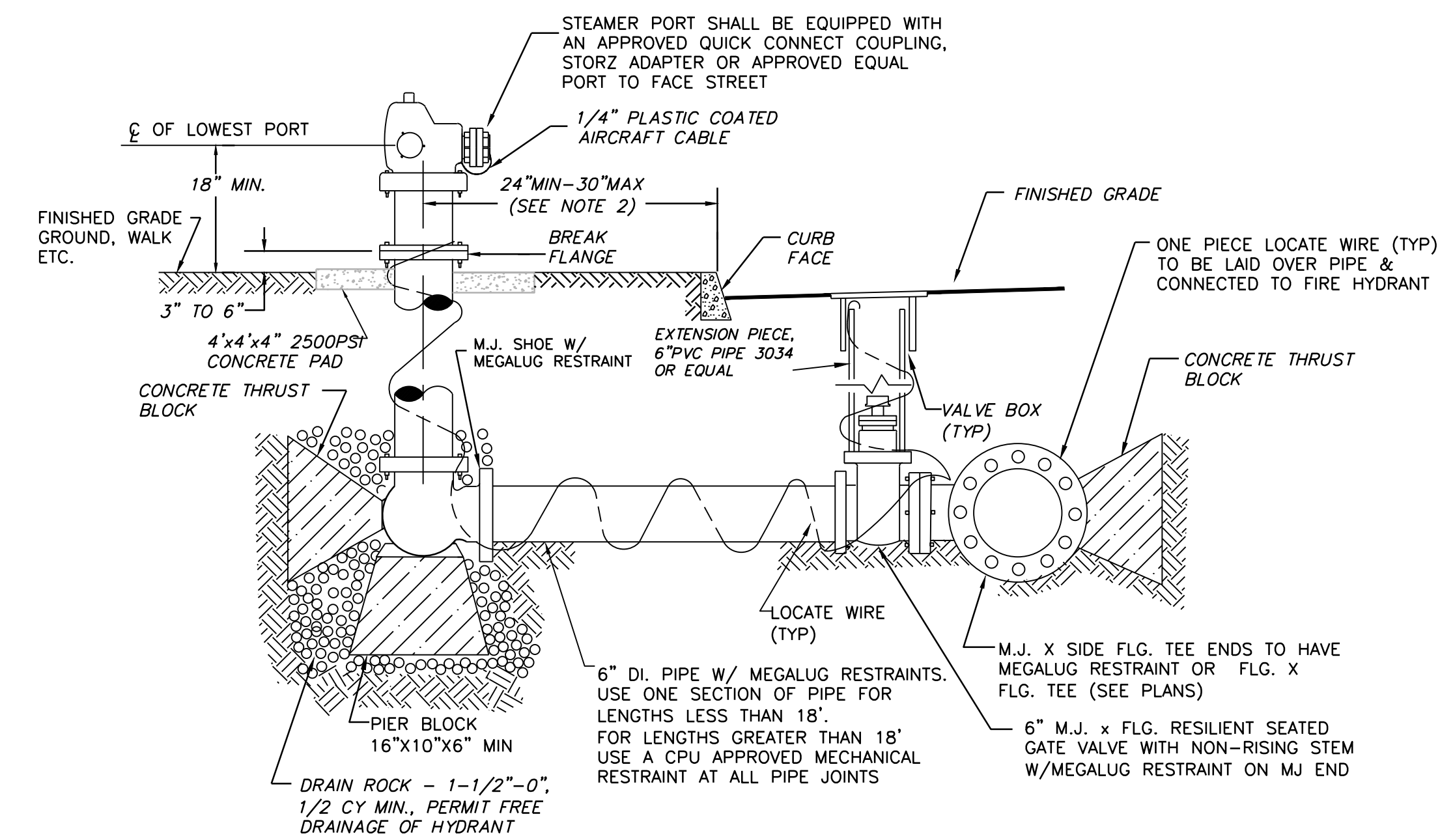


- NOTES**
- LAYOUT AND TAP LOCATION SHALL BE APPROVED BY THE CPU INSPECTOR PRIOR TO EXCAVATING. CONTACT THE CPU INSPECTOR 2 DAYS IN ADVANCE PRIOR TO SCHEDULING THE HOT TAP.
 - HOT TAPS MAY ONLY BE DONE BY A CPU APPROVED TAPPING CONTRACTOR
 - THE CPU INSPECTOR SHALL BE AT THE WORKSITE DURING TAPPING OPERATIONS.
 - THRUST BLOCK SHALL BE POURED AGAINST FIRM UNDISTURBED SOIL. USE PLASTIC OR OTHER PROTECTIVE MATERIAL BETWEEN PIPE/FITTINGS AND THRUST BLOCK.
 - TRENCH EXCAVATIONS OVER 4' WILL REQUIRE SHORING OR OTHER MEASURES CONSISTANT WITH APPLICABLE LOCAL, STATE OR FEDERAL SAFETY CODES.

STANDARD HOT TAP

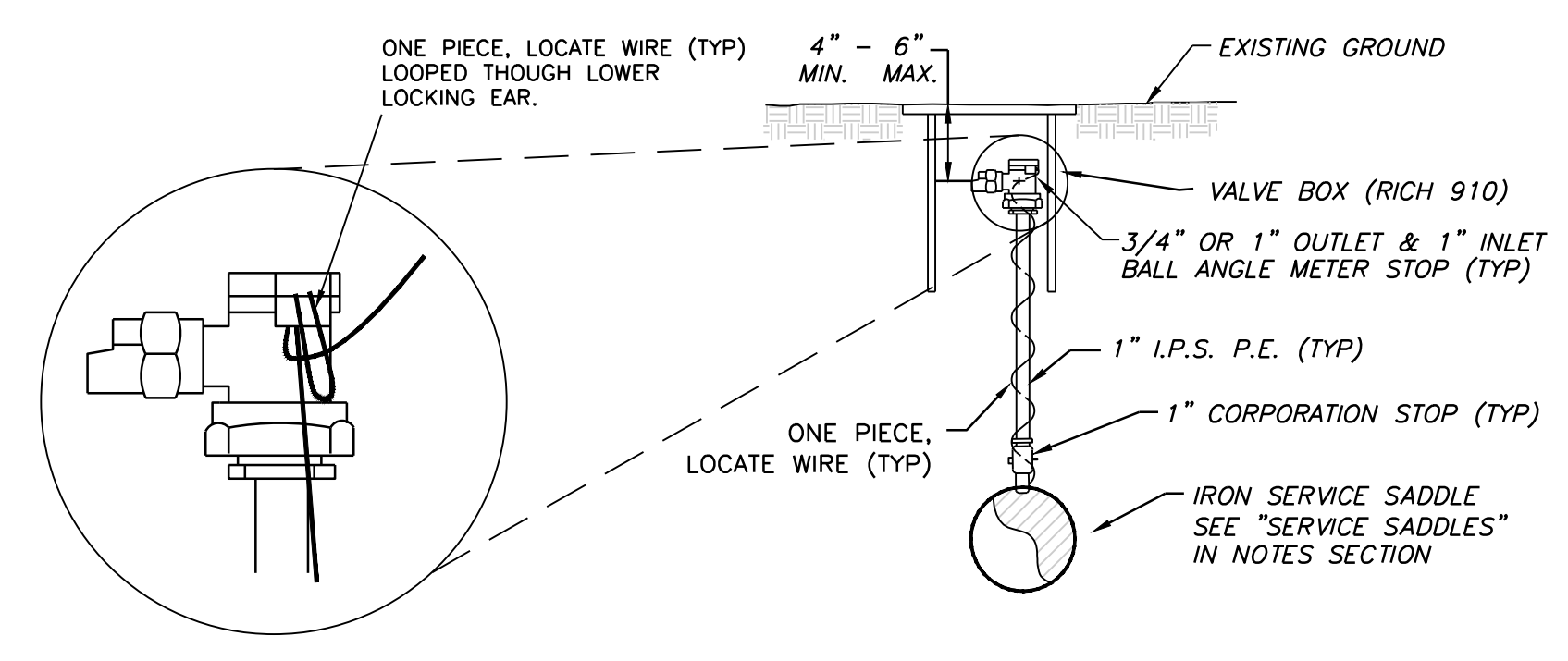


STANDARD BLOW-OFF ASSEMBLY (PERMANENT)

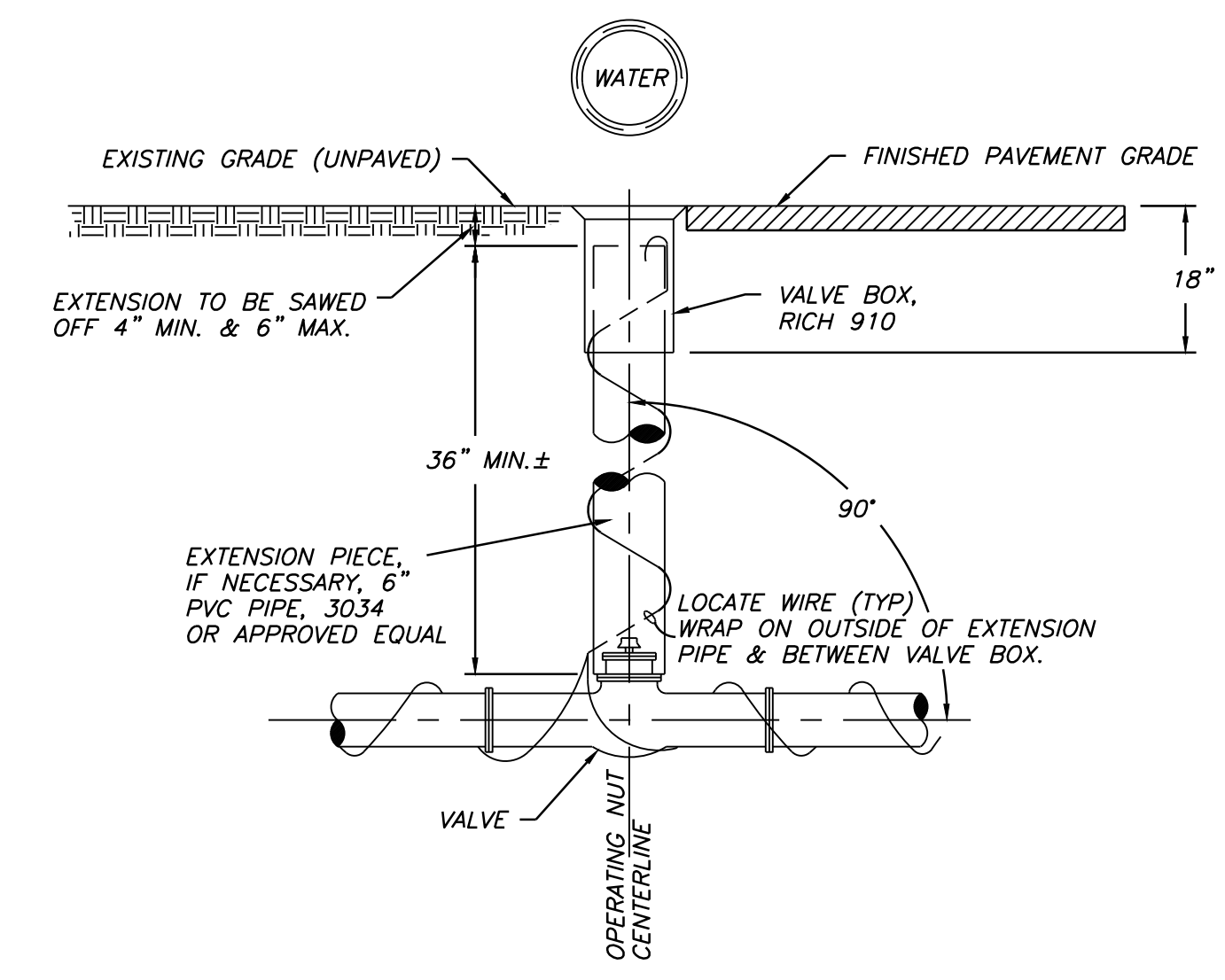


- FIRE HYDRANT NOTES:**
- FIRE HYDRANT INSTALLATIONS SHALL BE INSPECTED PRIOR TO BACKFILLING.
 - WHERE HYDRANTS ARE SET BEHIND SIDEWALK, DISTANCE FROM BACK OF SIDEWALK TO HYDRANT C/L SHALL BE 18" MIN., 24" MAX.
 - FIRE HYDRANTS SHALL BE SHOP PAINTED PRIOR TO INSTALLATION W/STANDARD A.W.W.A, GLOSS B, YELLOW
- APPROVED HYDRANTS**
- WATEROUS — WB67-90 AND/OR -250
 MUELLER — CENTURION
 CLOW — MEDALLION
 M&H — 929
 KENNEDY — K 81 D

STANDARD FIRE HYDRANT ASSEMBLY



1. ALL COMPRESSION FITTINGS TO HAVE STAINLESS STEEL INSERTS.
STANDARD MANUAL AIR RELEASE VALVE



STANDARD VALVE BOX ASSEMBLY



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 NOTIFICATION CENTER

DATE	MARK	REVISION

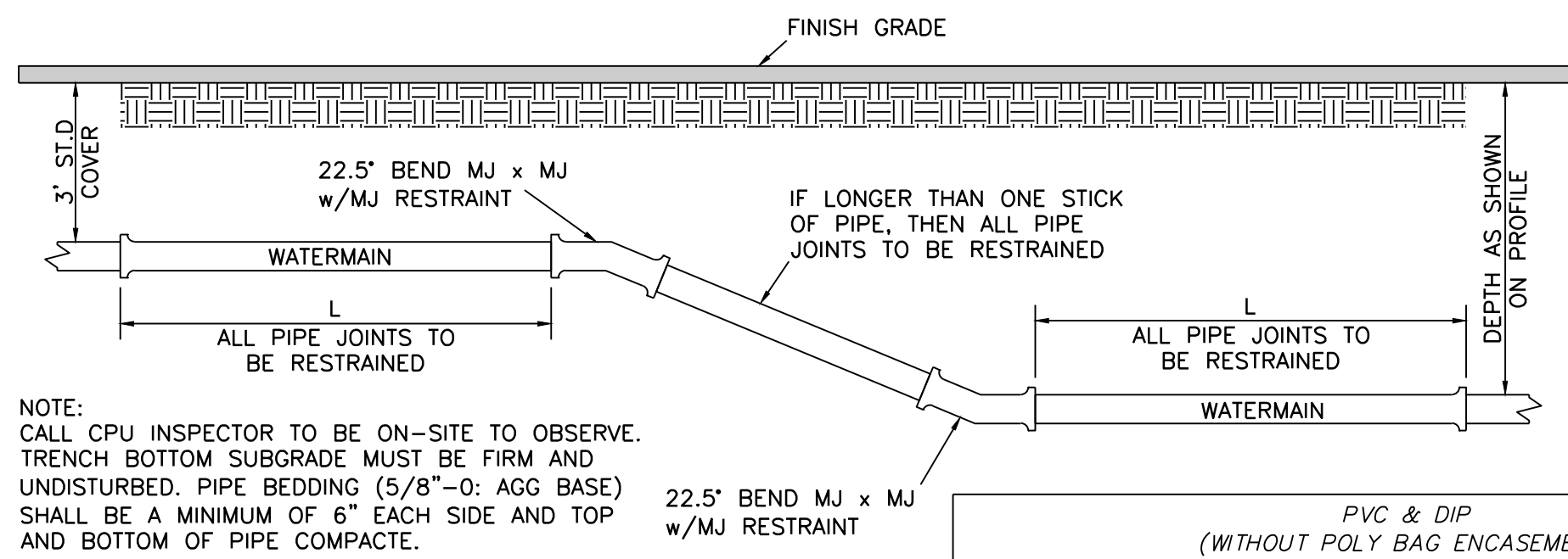
WATER MAIN INSTALLATION STANDARD DETAILS
CLARK PUBLIC UTILITIES

RIO	NNNNNN	DESIGNED	XXX
DRAWN	XXX	CHECKED	XXX
SCALE	NTS	DATE	8/21/2013
SHEET	1	OF	4



REVISIONS:

JOB NO.: 15472/15695
 DATE: 4/22/2015
 SCALE: NO SCALE
 DESIGNED BY: BT
 DRAWN BY: ALS
 CHECKED BY:



NOTE:
CALL CPU INSPECTOR TO BE ON-SITE TO OBSERVE.
TRENCH BOTTOM SUBGRADE MUST BE FIRM AND
UNDISTURBED. PIPE BEDDING (5/8"-0: AGG BASE)
SHALL BE A MINIMUM OF 6" EACH SIDE AND TOP
AND BOTTOM OF PIPE COMPACTE.

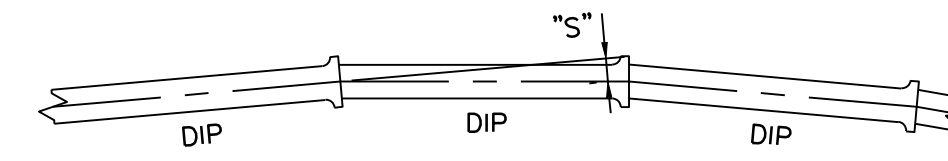
FITTING	PVC & DIP (WITHOUT POLY BAG ENCASEMENT)			
	6" DIA PIPE L	8" DIA PIPE L	12" DIA PIPE L	16" DIA PIPE L
11-1/4' BEND	10'	10'	10'	14'
22-1/2' BEND	12'	15'	21'	27'

NOTE: THESE ARE THE MINIMUM PIPE RESTRAINT LENGTHS
UNLESS STATED OTHERWISE ON THE PLANS

WATERMAIN VERTICAL
FITTING INSTALLATION DETAIL

NTS

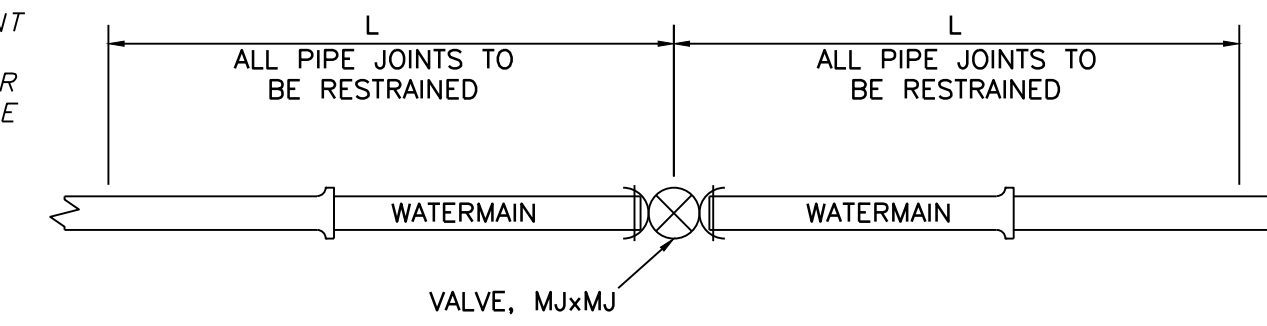
PIPE SIZE	ALLOWABLE DEFLECTION ANGLE	ALLOWABLE OFFSET "S"	
		PIPE L=18'	PIPE L=20'
6"	3°	11"	12"
8"	3°	11"	12"
12"	3°	11"	12"



DUCTILE PIPE
DEFLECTION DETAIL

NTS

NOTE: DEFLECTIONS IN ALIGNMENT
FOR DIP SHALL BE MADE BY
DEFLECTING THE PIPE JOINTS PER
THE ATTACHED DEFLECTION TABLE



PVC PIPE		
PIPE SIZE	L ₁	L ₂
6"	60'	30'
8"	80'	40'
12"	110'	55'
16"	140'	70'

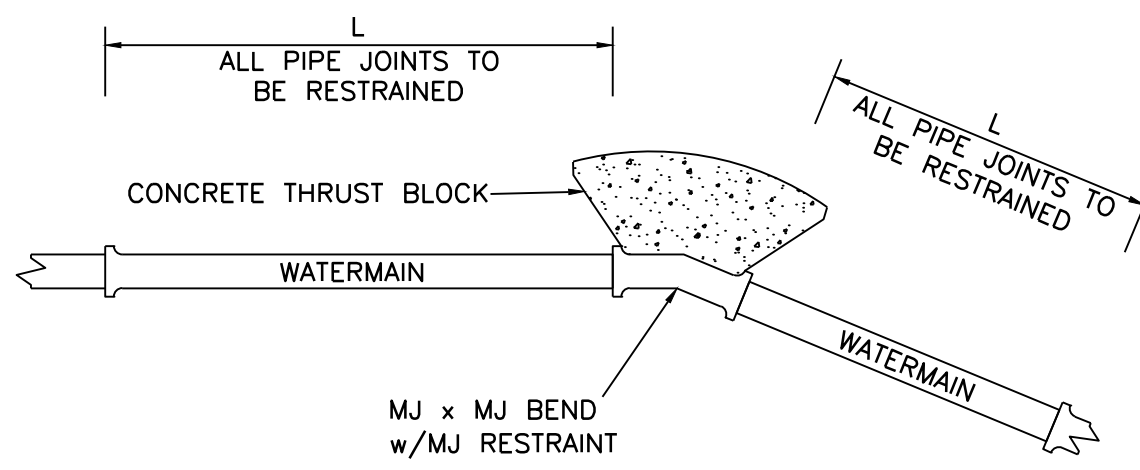
DIP PIPE (WITHOUT POLY BAG ENCASEMENT)		
PIPE SIZE	L ₁	L ₂
6"	40'	20'
8"	50'	25'
12"	70'	35'
16"	90'	45'

L₁: REQUIRED LENGTH WHEN PIPE JOINT RESTRAINT IS ONLY EFFECTIVE IN TENSION
(SUCH AS FIELD-LOK GASKETS OR OTHER SIMILAR RESTRAINT SYSTEMS)

L₂: REQUIRED LENGTH WHEN PIPE JOINT RESTRAINT IS ONLY EFFECTIVE IN BOTH
TENSION AND COMPRESSION (SUCH AS A MJ SLEEVE WITH MJ RESTRAINT OR A
PROPRIETARY INTEGRAL BELL & SPIGOT RESTRAINT SYSTEM).

TYPICAL IN-LINE VALVE INSTALLATION DETAIL

NTS



PIPE HORIZONTAL
BEND INSTALLATION DETAIL

NTS

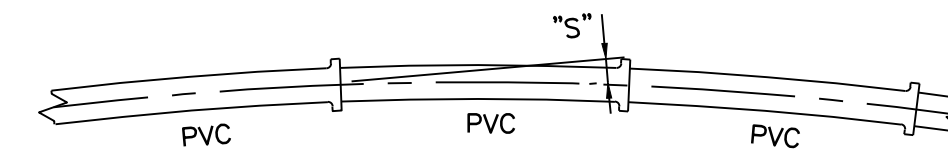
FITTING	PVC PIPE			
	6" DIA PIPE L	8" DIA PIPE L	12" DIA PIPE L	16" DIA PIPE L
11-1/4' BEND	10'	10'	10'	10'
22-1/2' BEND	10'	10'	10'	12'
45° BEND	10'	13'	20'	24'
90° BEND	24'	32'	45'	60'

FITTING	DIP PIPE (WITHOUT POLY BAG ENCASEMENT)			
	6" DIA PIPE L	8" DIA PIPE L	12" DIA PIPE L	16" DIA PIPE L
11-1/4' BEND	10'	10'	10'	10'
22-1/2' BEND	10'	10'	10'	10'
45° BEND	10'	11'	15'	20'
90° BEND	19'	26'	36'	46'

NOTE: THESE ARE THE MINIMUM PIPE RESTRAINT LENGTHS
UNLESS STATED OTHERWISE ON THE PLANS

ALLOWABLE PVC PIPE BENDING		
PIPE SIZE	ALLOWABLE MINIMUM BENDING RADIUS	ALLOWABLE OFFSET "S"
6"	200'	12"
8"	250'	9.5"
12"	350'	7"

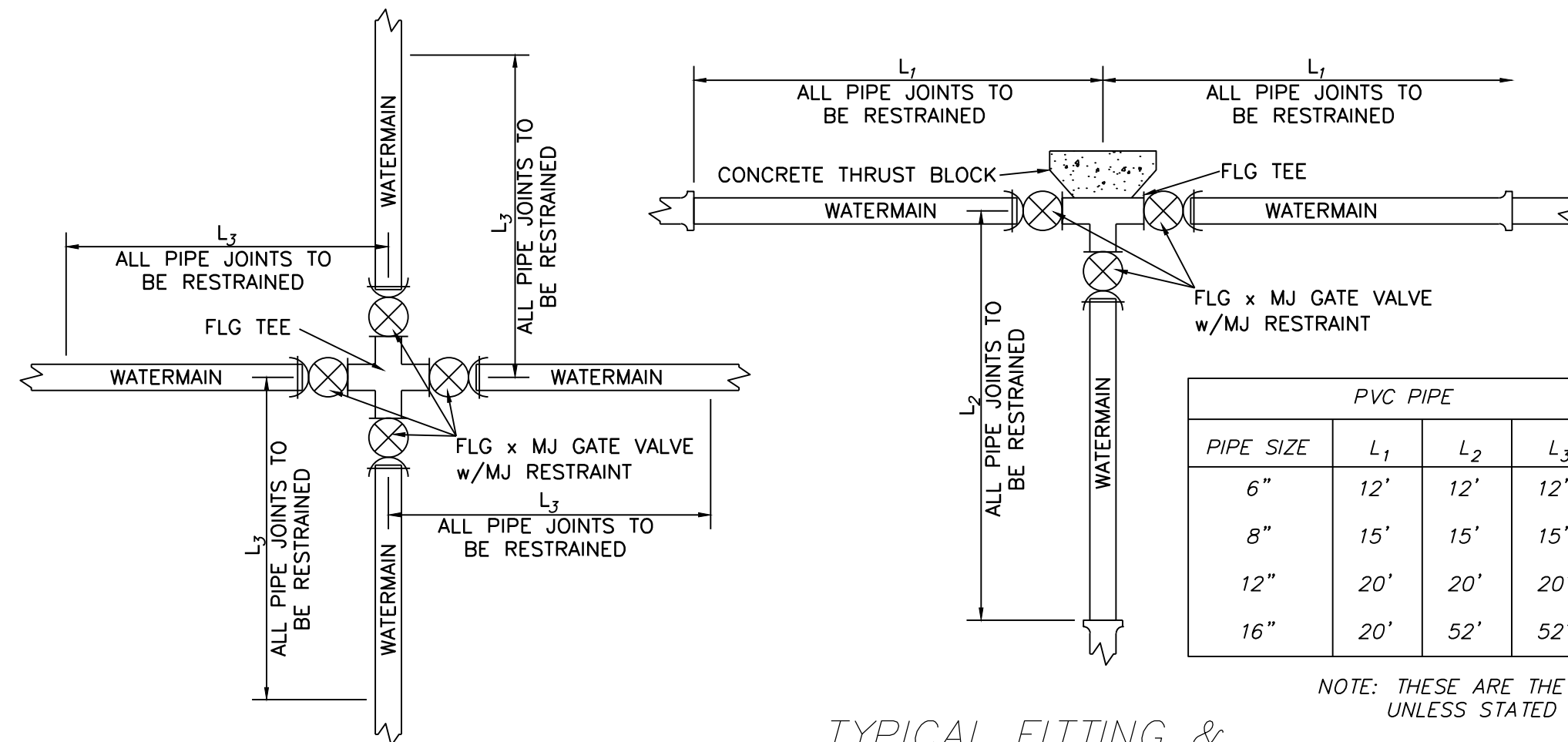
NO BENDING OF PVC PIPE ALLOWED
FOR PIPE LARGER THAN 12" DIAMETER



PVC PIPE BEND DETAIL

NTS

NOTE: DEFLECTIONS IN ALIGNMENT
FOR PVC PIPE SHALL BE MADE
BY BENDING THE PIPE AND NOT
DEFLECTING PIPE JOINTS



PVC PIPE			
PIPE SIZE	L ₁	L ₂	L ₃
6"	12'	12'	12'
8"	15'	15'	15'
12"	20'	20'	20'
16"	20'	52'	52'

DIP PIPE (WITHOUT POLY BAG ENCASEMENT)			
PIPE SIZE	L ₁	L ₂	L ₃
6"	10'	10'	10'
8"	14'	14'	14'
12"	19'	19'	19'
16"	20'	34'	34'

NOTE: THESE ARE THE MINIMUM PIPE RESTRAINT LENGTHS
UNLESS STATED OTHERWISE ON THE PLANS

TYPICAL FITTING &
VALVE INSTALLATION DETAIL

NTS



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NOTIFICATION CENTER

DATE	MARK	REVISION

WATER MAIN INSTALLATION
STANDARD DETAILS
CLARK PUBLIC UTILITIES

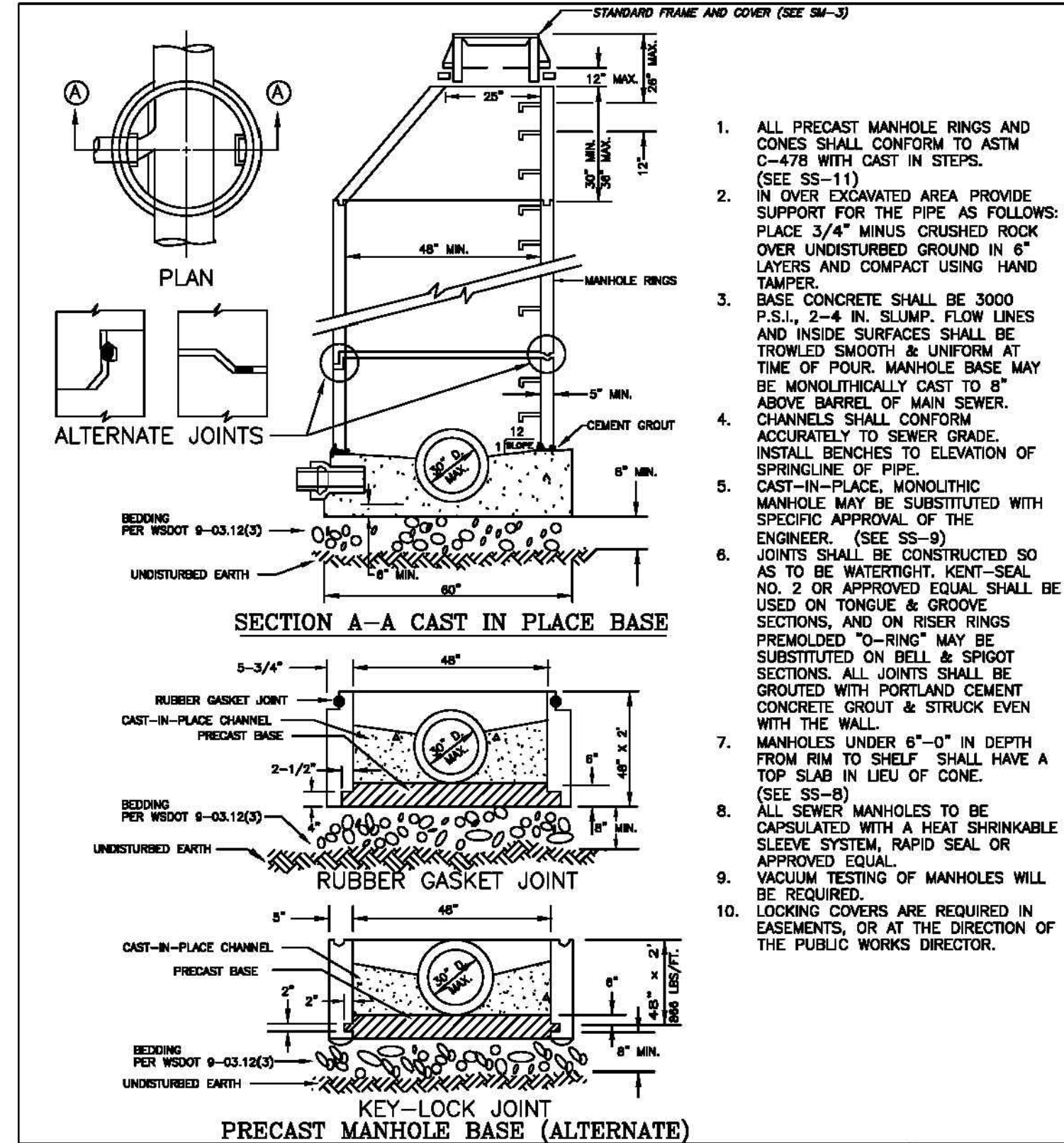
RIO	NNNNNN	DESIGNED	XXX	DRAWN	XXX	CHECKED	XXX	SCALE	NTS	DATE	8/21/2013	SHEET	4 OF 4
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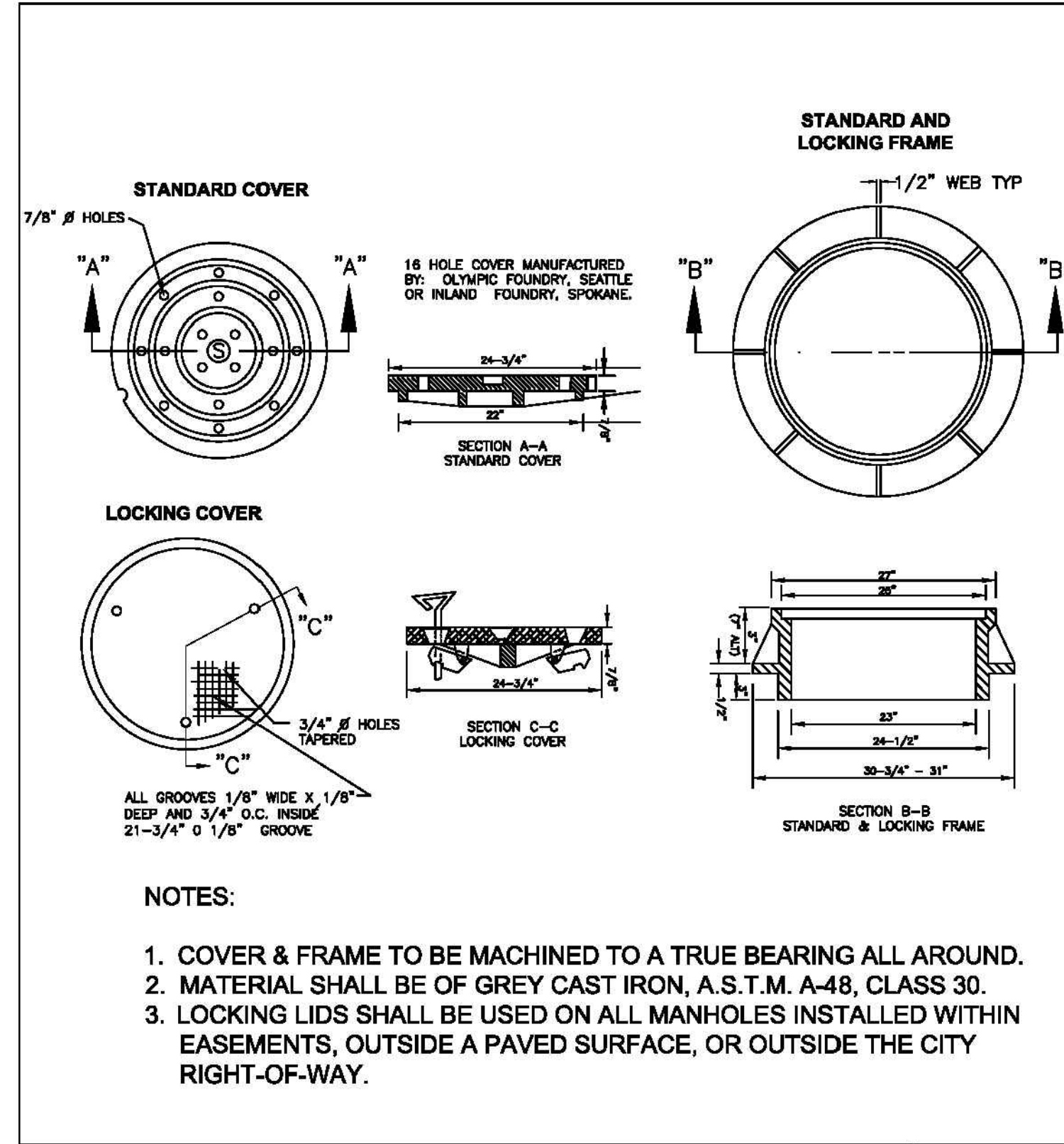
- ALL MATERIALS, WORKMANSHIP AND INSTALLATION OF STORM SEWERS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE CITY OF LA CENTER ENGINEERING STANDARDS FOR PUBLIC WORKS CONSTRUCTION AND THE LATEST EDITION OF THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION. HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS", PREPARED BY THE WASHINGTON STATE CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA) AND THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION, EXCEPT AS NOTED HEREIN OR ON THE STANDARD PLANS.
- THE CONTRACTOR IS TO VERIFY ALL INVERT AND TOP ELEVATIONS OF EXISTING STORM SEWERS, CENTERLINE AND TOP OF CURB ELEVATIONS, AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER. (SEE SS-11)
- ALL STORM SEWER CONSTRUCTION IS SUBJECT TO INSPECTION, AND APPROVAL, PRIOR TO COVER BY THE CITY OF LA CENTER. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION. A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR BEGINNING OF THE CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION AND TO NOTIFY THE ENGINEER OF ANY POTENTIAL CONFLICTS. THE CONTRACTOR SHALL DIG TEST HOLES OVER ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THEIR EXACT LOCATION. CALL 1-800-424-5555, (NORTHWEST UTILITY NOTIFICATION CENTER), FOR MARK-UP OF EXISTING UTILITIES, A MINIMUM OF 2 WORKING DAYS PRIOR TO START OF CONSTRUCTION.
- IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND/OR CONTRACTOR TO PROCURE ALL APPLICABLE PERMITS, LICENSES AND CERTIFICATES RELATIVE TO THE TRADES TO COMPLETE THE PROJECT AND FOR THE USE OF SUCH WORK WHEN COMPLETED. COMPLIANCE SHALL BE AT ALL LEVELS, FEDERAL, STATE AND CITY, RELATING TO THE PERFORMANCE OF THIS WORK.
- THE CONTRACTOR SHALL OBTAIN ALL OFFSITE CONSTRUCTION EASEMENTS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THAT ALL OFFSITE UTILITY EASEMENTS HAVE BEEN OBTAINED BY THE OWNER PRIOR TO THE COMMENCEMENT OF ANY OFFSITE CONSTRUCTION.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE PUBLIC WORKS DEPARTMENT THAT MUST BE APPROVED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO CONSTRUCTION.
- ALL CATCH BASINS AND CURB INLETS SHALL BE STENCILED AS FOLLOWS: "DUMP NO WASTE-DRAINS TO STREAM".
- SIGNS THAT READ: "WATER QUALITY FILTER-PLEASE LEAVE VEGETATED" SHALL BE INSTALLED EVERY 50 FEET ON FENCE OR POSTS ALONG WATER QUALITY BIOFILTRATION SYSTEMS.
- VEGETATION IN BIOFILTRATION SYSTEMS SHALL BECOME FULLY ESTABLISHED PRIOR TO COMMENCING WITH INSTALLATION OF A.C. PAVEMENT FOR ALL AREAS DRAINING INTO THE WATER QUALITY SYSTEM. VEGETATION IN BIOFILTRATION SYSTEMS TO BE THE FOLLOWING GRASS SEED MIX (PROPORTIONS GIVEN BY WEIGHT):
40% REDTOP BENTGRASS, 30% RED FESCUE, 20% TALL FESCUE, 5% PERENNIAL RYE, 5% RUSSIAN WILDRYE.
- PIPES OVER 12" DIA. SHALL HAVE A CHILD PROTECTION DEVICE AT INFLUENT END.
- ALL STORM MANHOLES INSTALLED WITHIN AN EASEMENT OR OUTSIDE THE CITY RIGHT-OF-WAY SHALL HAVE LOCKING LID COVERS.
- MATERIAL CERTIFICATION FOR ALL STORM MANHOLES, CATCHBASINS, AND CURB INLETS SHALL BE PROVIDED TO THE CITY INSPECTOR.
- ALL ROOF AND LOWPOINT DRAINS TO BE DIRECTED TO APPROVED DRAINAGE PER PLANS.
- ALL TRENCH BACKFILLING WILL CONFORM TO STANDARD DETAIL SS-4. PIPE BEDDING WILL CONFORM TO STANDARD DETAIL SS-5.
- ALL STORM SEWER CLEANOUTS WILL MEET THE REQUIREMENTS OF STANDARD DETAIL SS-14.

GENERAL STORMWATER NOTES

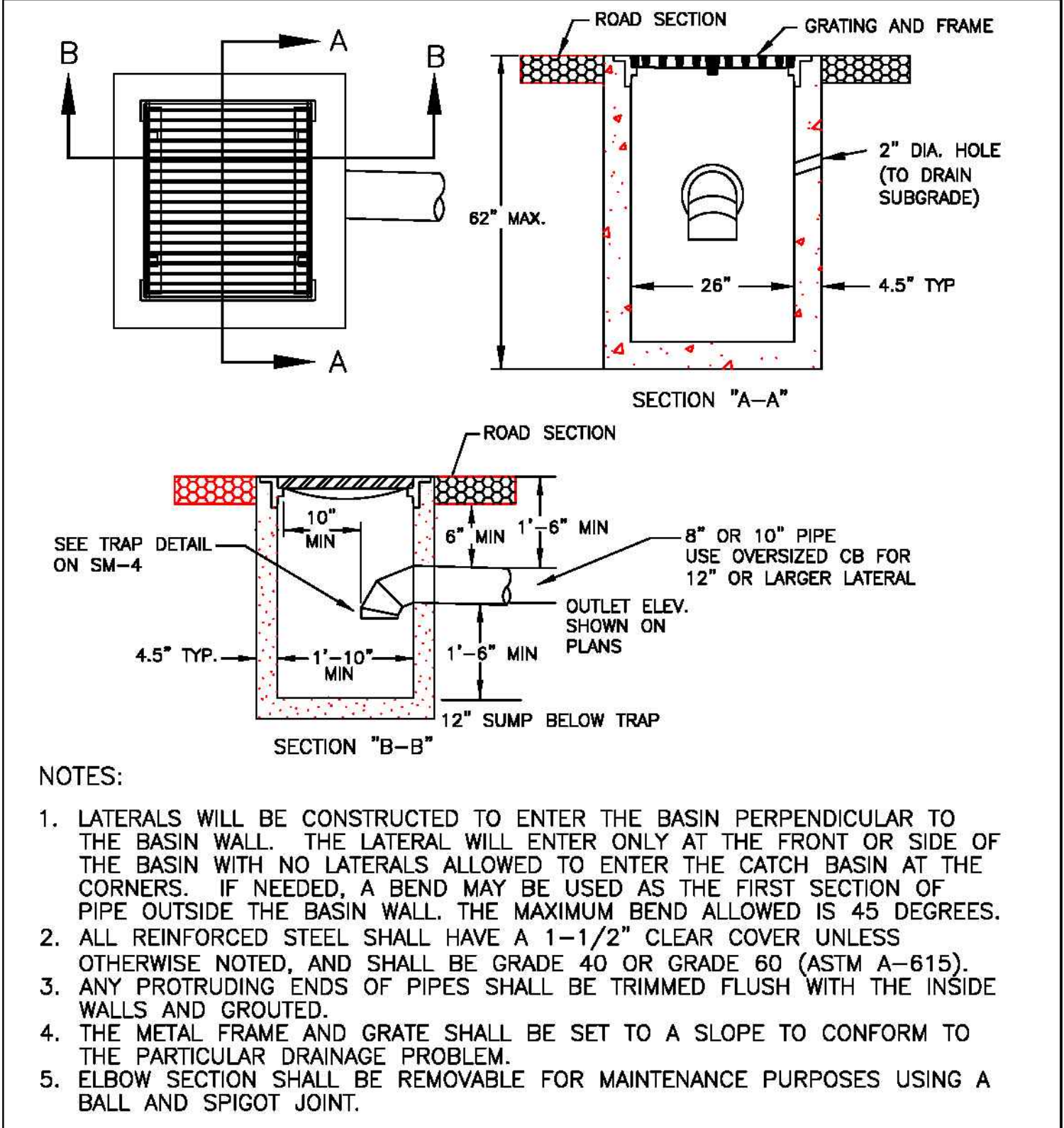
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	<i>Barb Stapp, PE 7/23/09</i>					SM-1
CITY ENGINEER	DATE					



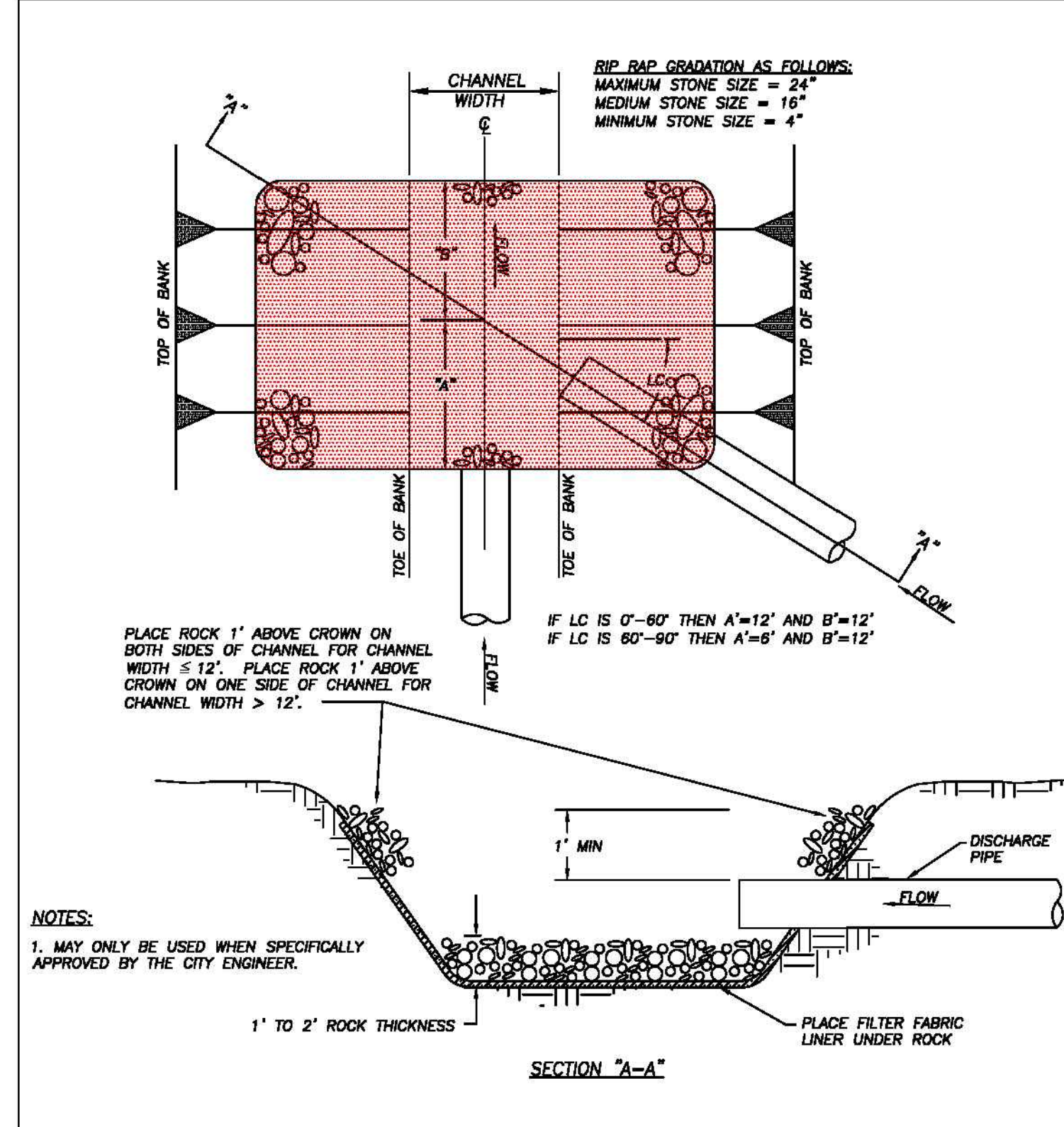
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CITY ENGINEER	DATE					



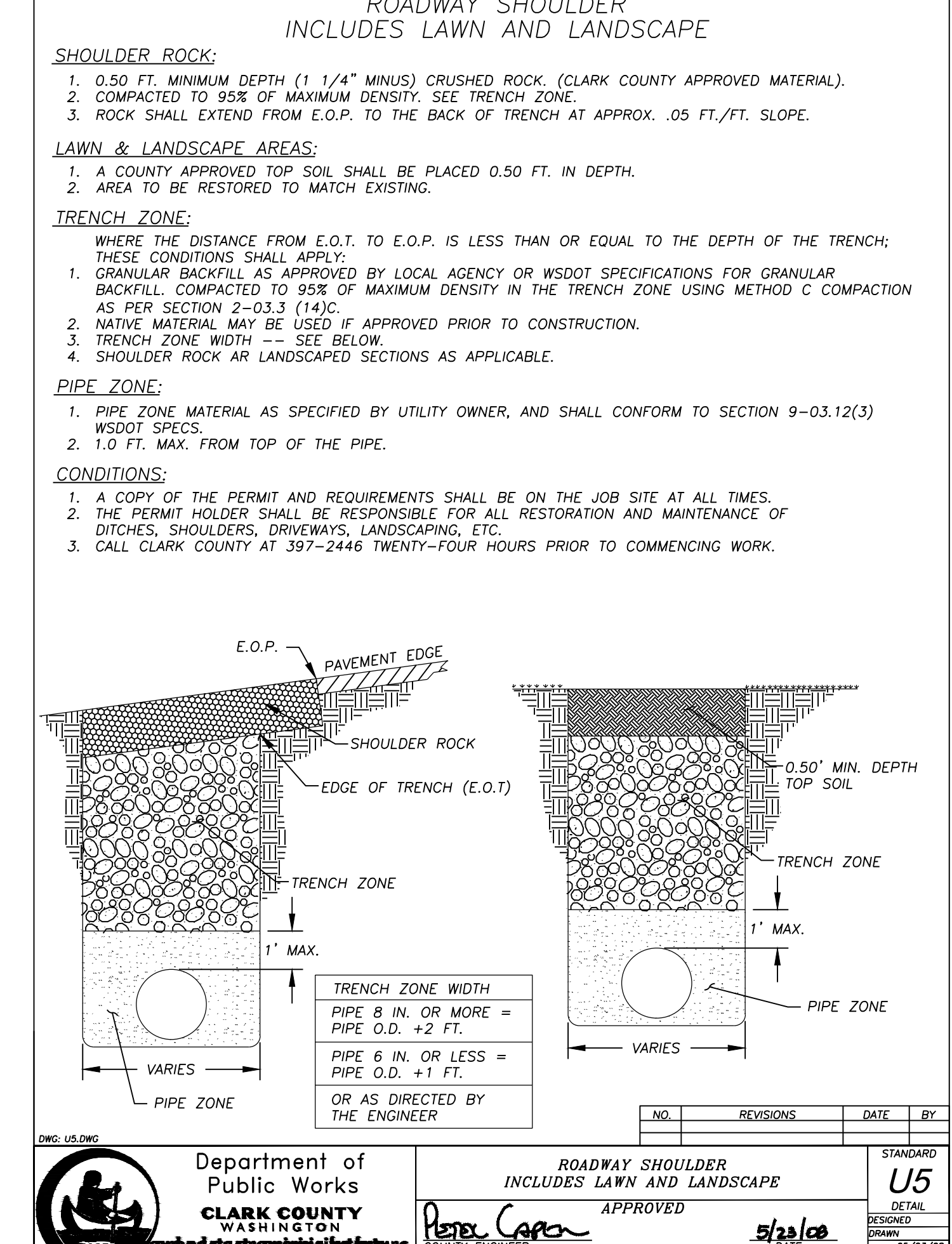
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CITY ENGINEER	DATE					



CITY OF LA CENTER APPROVED		REVISIONS:	DATE:	DRAWN:	DESIGNED:	PLAN #
	<i>Barb Stapp, PE 7/23/09</i>					SM-5
CITY ENGINEER	DATE					



CITY OF LA CENTER APPROVED		REVISIONS:	DATE:	DRAWN:	DESIGNED:	PLAN #
	<i>Barb Stapp, PE 7/23/09</i>					SM-13
CITY ENGINEER	DATE					



Department of Public Works
CLARK COUNTY WASHINGTON

ROADWAY SHOULDER INCLUDES LAWN AND LANDSCAPE
APPROVED

NO. _____ REVISIONS _____ DATE _____ BY _____

5/23/08

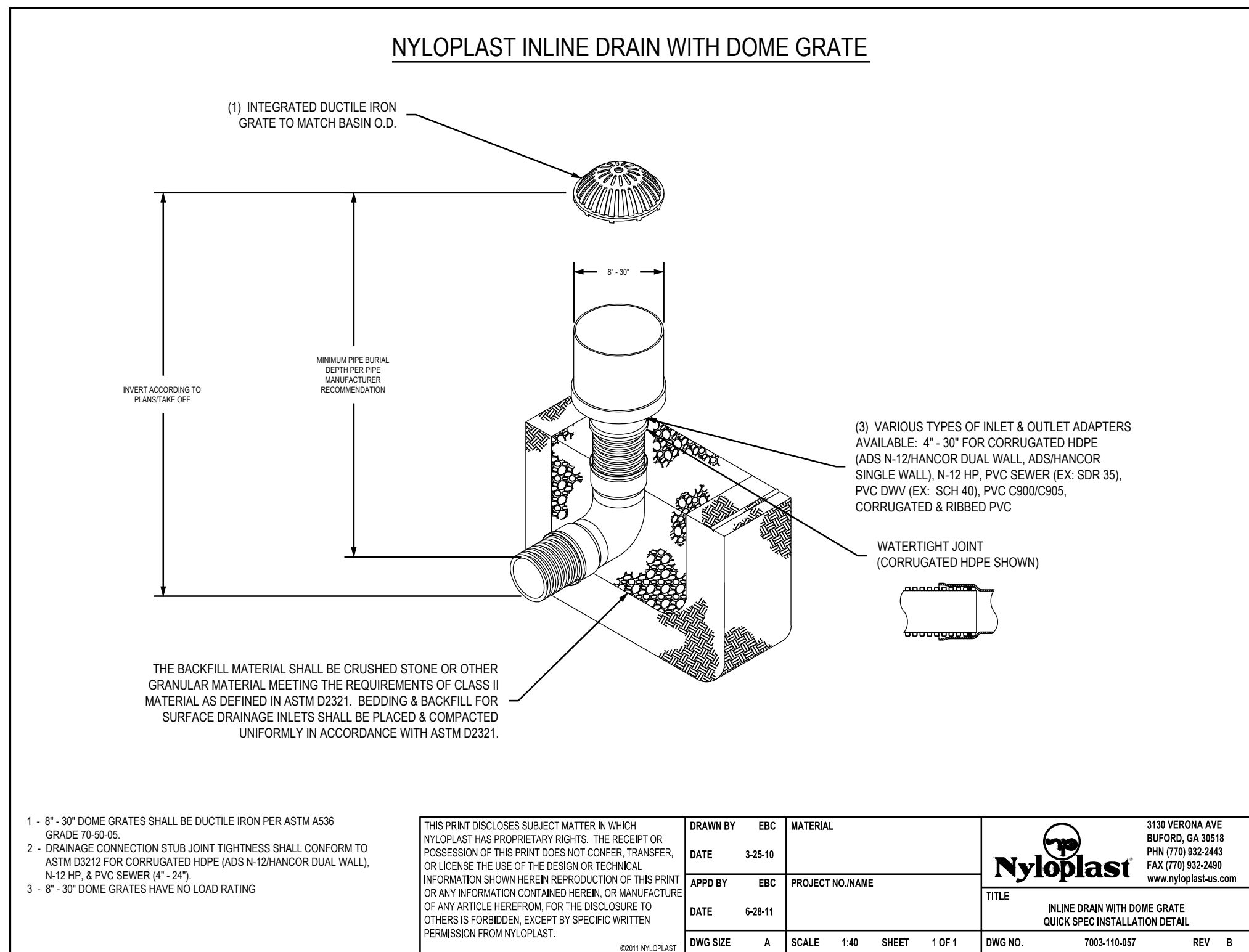
STANDARD U5
DETAIL
DESIGNED
DRAWN
DATE 05/23/08

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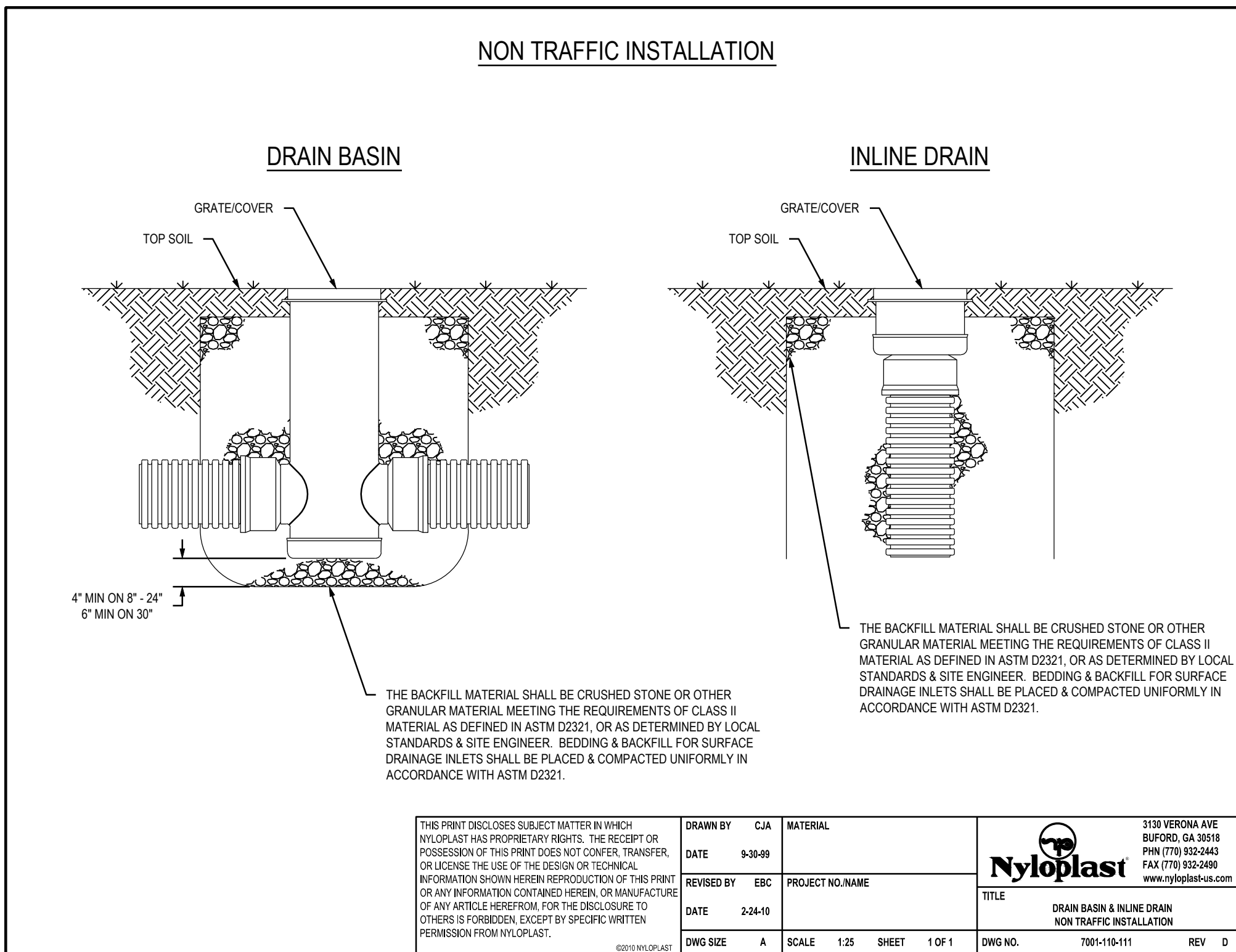
REVISIONS:

JOB NO.: 15472/15695
DATE: 4/22/2015
SCALE: NO SCALE
DESIGNED BY: BT
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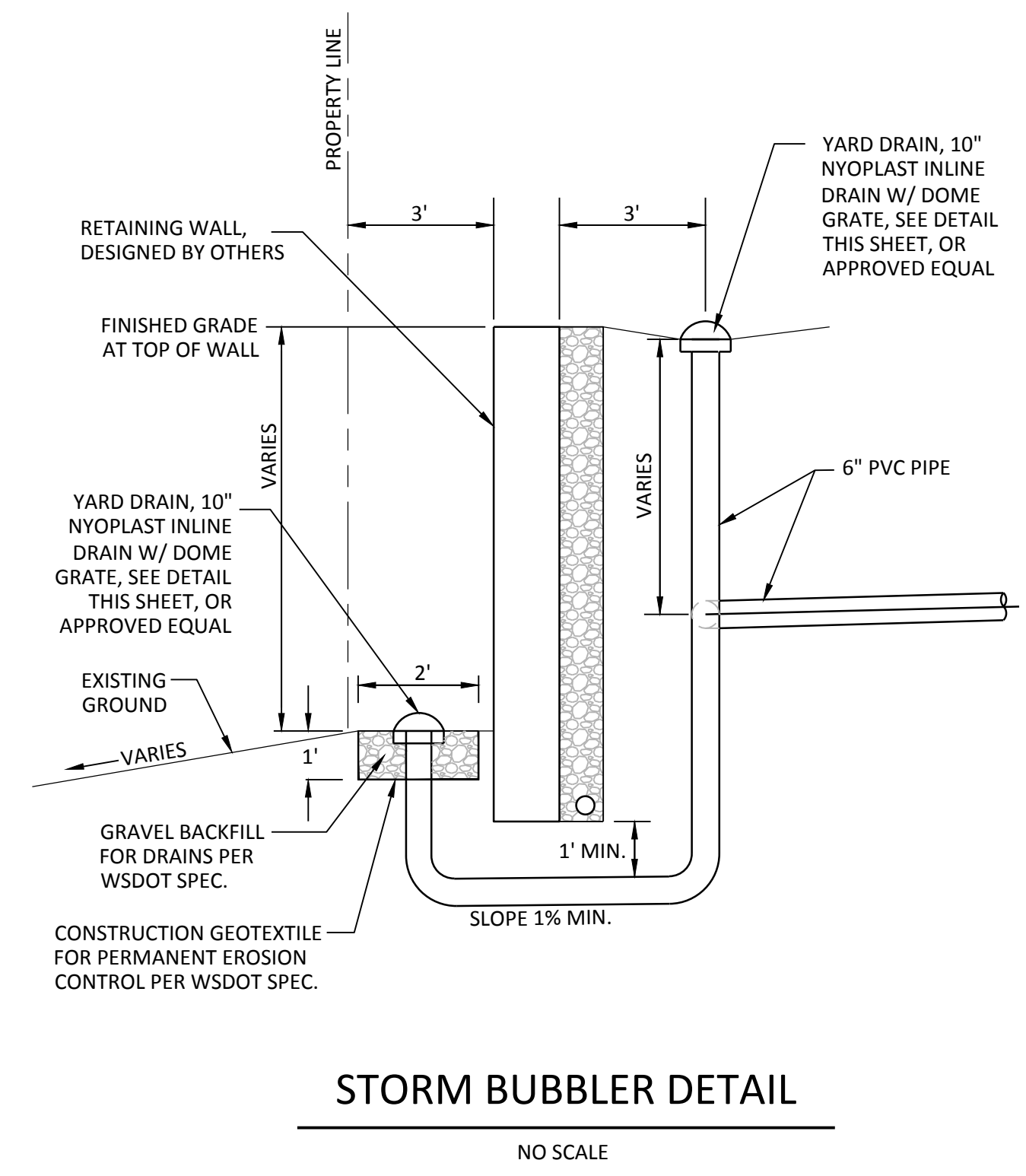
YARD DRAIN DETAIL

NO SCALE



YARD DRAIN BACKFILL DETAIL

NO SCALE



STORM BUBBLER DETAIL

NO SCALE

Section 2722
Engineered Surface Drainage Products

GENERAL
PVC surface drainage inlets shall be of the inline drain type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

MATERIALS
The inline drain required for this contract shall be manufactured from PVC pipe stock, utilizing a thermo-molding process to reform the pipe stock to the furnished configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the inline drain body by use of a swage mechanical joint. The raw material used to manufacture the pipe stock that is used to manufacture the inline drain body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates furnished for all surface drainage inlets shall be ductile iron grates for sizes 8", 10", 12", 15", 18", 24" and 30" shall be made specifically for each fitting so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for inline drains shall be capable of supporting H-20 wheel loading for traffic areas or H-10 loading for pedestrian areas. 12" and 15" square grates will be hinged to the frame using pins. Metal used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05 for ductile iron. Grates shall be provided painted black.

INSTALLATION
The specified PVC surface drainage inlet shall be installed using conventional flexible pipe bedding materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 2 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For H-20 load rated installations, a concrete ring will be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

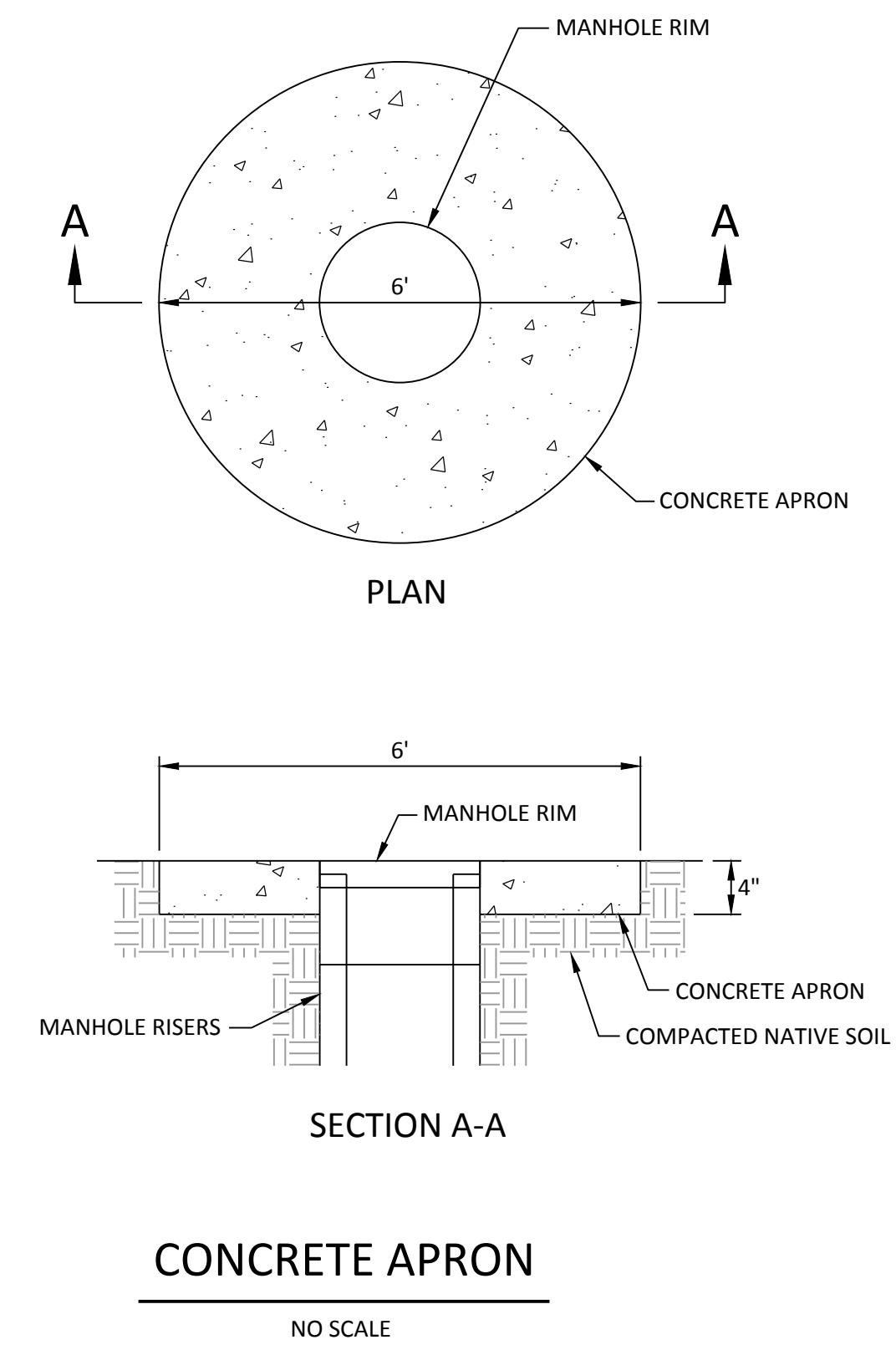
THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.	DRAWN BY: EBC DATE: 3-25-10 APP'D BY: EBC DATE: 6-28-11 DWG SIZE: A	MATERIAL: PROJECT NO./NAME: DATE: 3-18-10 SCALE: 1:1 SHEET: 1 OF 1	 Nyloplast 8 IN. - 30 IN. INLINE DRAIN SPECIFICATIONS DWG NO. 7003-110-009 REV. F
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YARD DRAIN SPEC DETAIL

NO SCALE

NOTES:
1. FOR HDPP, PIPE MUST BE FREE TO SLIDE INSIDE A 4' LONG SECTION OF PIPE ONE SIZE DIAMETER LARGER.
2. ON SLOPES OF 15% OR GREATER, PIPE SHALL HAVE WATERTIGHT JOINTS.

PIPE ANCHOR DETAIL	PLAN #
CITY OF LA CENTER APPROVED	SM-18
Barb Stapp, PE 7/23/09 CITY ENGINEER DATE	REVISIONS: DATE: DRAWN: DESIGNED:



CONCRETE APRON

NO SCALE

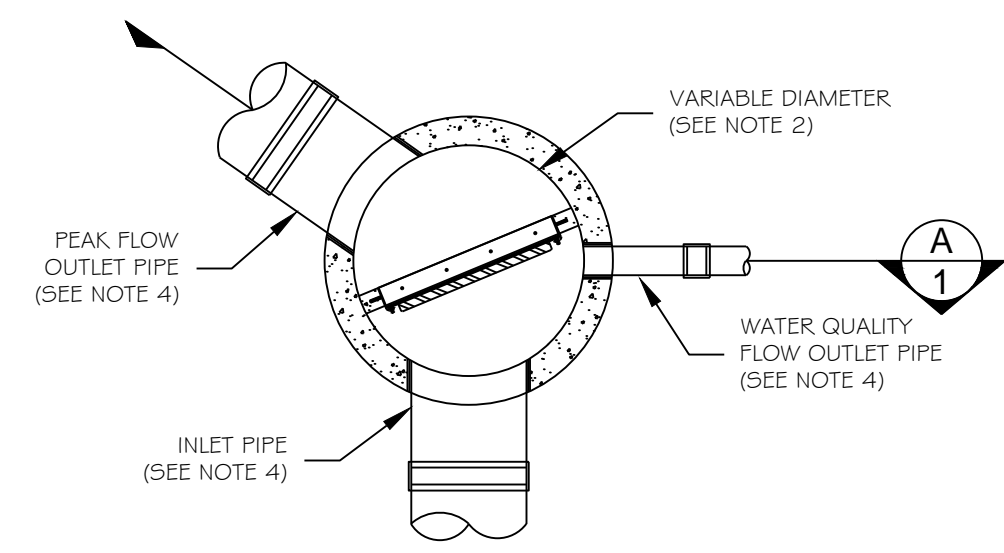
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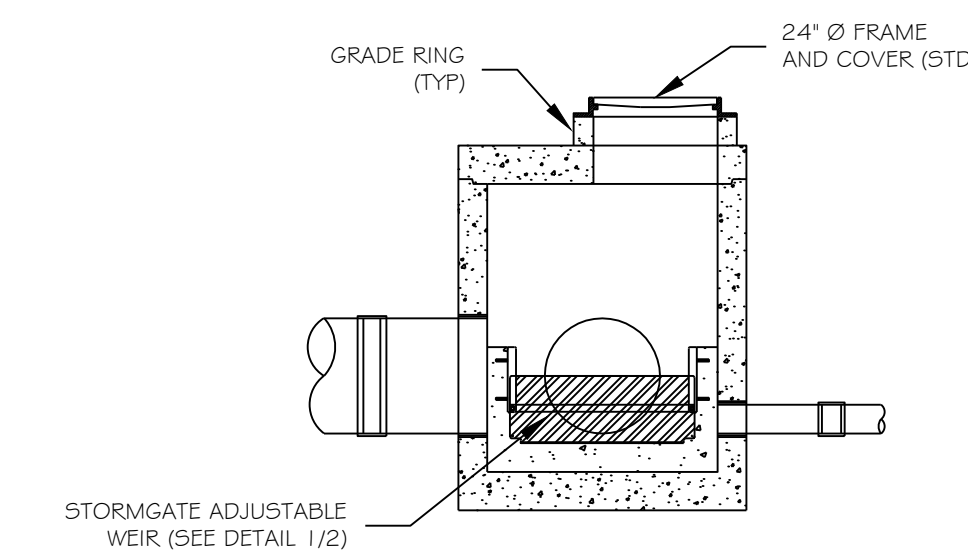
REVISIONS:

JOB NO.: 15472/15695
DATE: 4/22/2015
SCALE: NO SCALE
DESIGNED BY: BT
DRAWN BY: AJS
CHECKED BY:

100% PLAN SET



STORMGATE MANHOLE - PLAN VIEW 1/1



STORMGATE MANHOLE - SECTION VIEW A/1

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STORMGATE MANHOLE HIGH FLOW BYPASS
PLAN AND SECTION VIEWS
STANDARD DETAIL

DATE: 04/04/06 SCALE: NONE FILE NAME: SG-MH-DTL DRAWN: MLW CHECKED: ARG

DRAWING 1

GENERAL NOTES

- 1) STORMGATE BY CONTECH STORMWATER SOLUTIONS; PORTLAND, OR (800) 548-4667; SCARBOROUGH, ME (877) 907-8676; LINTHICUM, MD (866) 740-3318.
- 2) PRECAST MANHOLE TO BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478. DETAIL DRAWING REFLECTS DESIGN INTENT ONLY. ACTUAL DIMENSIONS AND CONFIGURATION OF STRUCTURE WILL BE SHOWN ON PRODUCTION SHOP DRAWING.
- 3) STRUCTURE AND ACCESS COVERS TO MEET AASHTO H-20 LOAD RATING.
- 4) INLET AND OUTLET PIPING TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR. PRECAST STORMGATE MANHOLE EQUIPPED WITH EITHER CORED OPENINGS OR KNOCKOUTS AT INLET AND OUTLET LOCATIONS.
- 5) CONTRACTOR TO ADJUST WEIR TO DESIGN ELEVATION SPECIFIED IN DATA TABLE BELOW. DO NOT EXCEED 5.0 FT-LBS TORQUE WHEN TIGHTENING SCREWS ON WEIR FRAME. SEAL WEIR TO FRAME WITH RTV SILICONE SEALANT AFTER FINAL ADJUSTMENT.

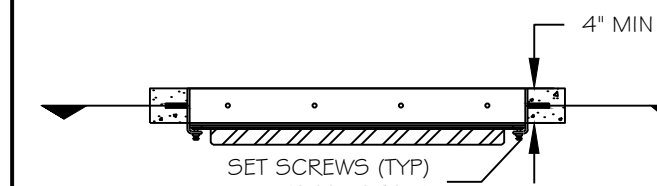
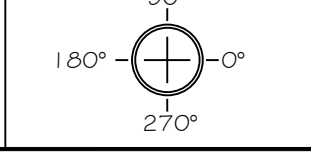
STORMGATE MANHOLE DATA

STRUCTURE ID	MH #29
WATER QUALITY FLOW RATE (cfs)	2.31
PEAK FLOW RATE (cfs)	2.76
MANHOLE DIAMETER (48", 60", 72")	48"
RIM ELEVATION	131.12

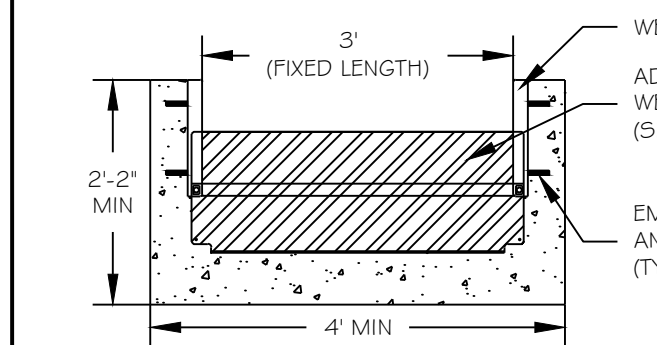
PIPE DATA:	I.E.	ORIENTATION	MATERIAL	DIAMETER
INLET PIPE	116.24	97°	HDPE	30"
WATER QUALITY FLOW OUTLET PIPE	116.09	166°	HDPE	15"
PEAK FLOW OUTLET PIPE	116.04	285°	HDPE	24"

ORIFICE TYPE (PIPE, CAP, PLATE)	PLATE
ORIFICE DIAMETER (in)	6"
WEIR CREST ELEVATION	122.29
WEIR WALL ELEVATION	122.83
HEAD OVER WEIR, H (ft)	1.42
WQSE at Opeak	123.71
WEIR ORIENTATION	50°
FLOOR ELEVATION	XXX.XX

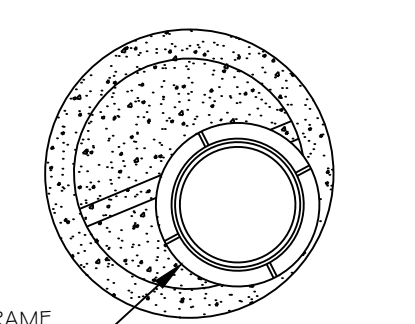
NOTES/SPECIAL REQUIREMENTS: PIPE ORIENTATION KEY:



WEIR DETAIL - PLAN VIEW 1/2



WEIR DETAIL - SECTION VIEW B/2



STORMGATE MANHOLE - TOP VIEW 2/2

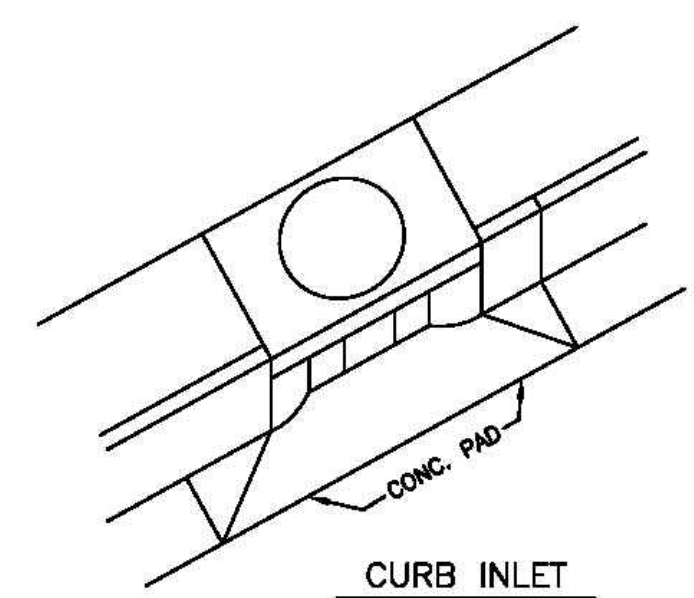
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ENGINEERED SOLUTIONS LLC

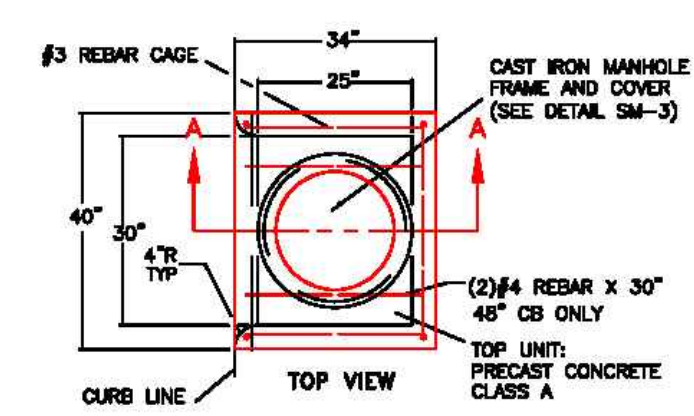
STORMGATE MANHOLE HIGH FLOW BYPASS
TOP VIEW, WEIR DETAIL, DATA AND NOTES
STANDARD DETAIL

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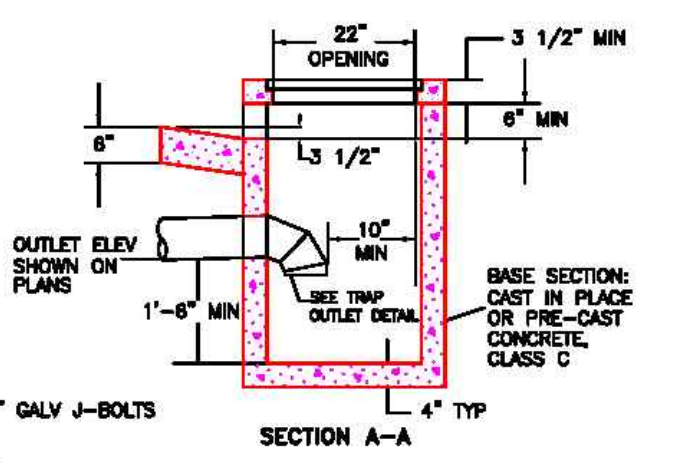
DRAWING 2



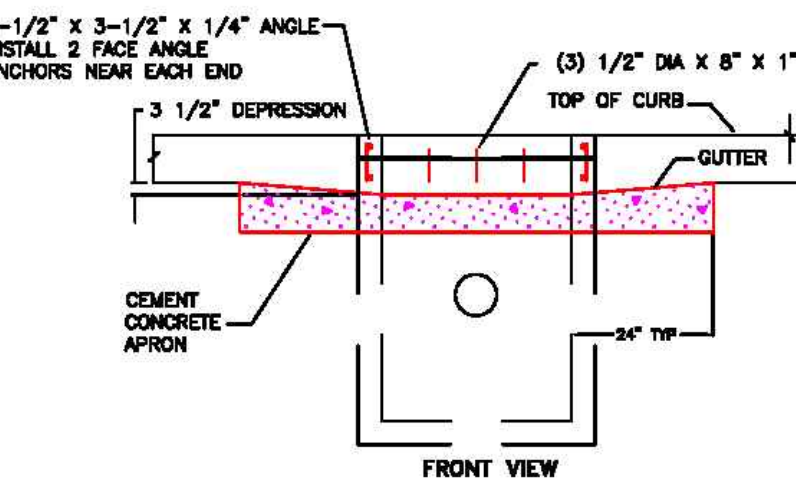
CURB INLET



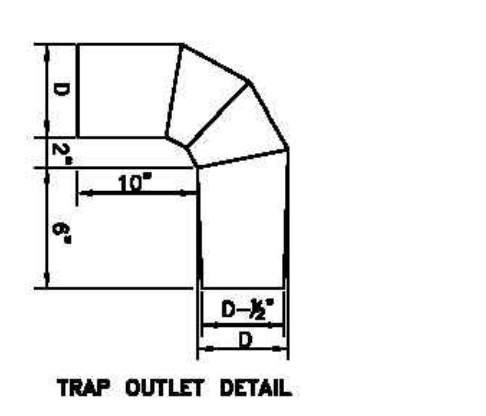
TOP VIEW



SECTION A-A



FRONT VIEW



TRAP OUTLET DETAIL

NOTES:

1. LATERALS WILL BE CONSTRUCTED TO ENTER THE BASIN PERPENDICULAR TO THE BASIN WALL. THE LATERAL WILL ENTER ONLY AT THE FRONT OR SIDE OF THE BASIN WITH NO LATERALS ALLOWED TO ENTER THE CATCH BASIN AT THE CORNERS. IF NEEDED, A BEND MAY BE USED AS THE FIRST SECTION OF PIPE OUTSIDE THE BASIN WALL. THE MAXIMUM BEND ALLOWED IS 45 DEGREES.
2. ALL REINFORCED STEEL SHALL HAVE A 1-1/2" CLEAR COVER UNLESS OTHERWISE NOTED, AND SHALL BE GRADE 40 OR GRADE 60 (ASTM A-615).
3. ANY PROTRUDING ENDS OF PIPES SHALL BE TRIMMED FLUSH WITH THE INSIDE WALLS AND GROUTED.
4. THE METAL FRAME AND GRATE SHALL BE SET TO A SLOPE TO CONFORM TO THE PARTICULAR DRAINAGE PROBLEM.
5. ELBOW SECTION SHALL BE REMOVABLE FOR MAINTENANCE PURPOSES USING A BALL AND SPIGOT JOINT.
6. CONTRACTOR IS RESPONSIBLE FOR BLOCKING OUT ADEQUATE SPACE IN CURB AND GUTTER TO INSTALL CURB INLETS.
7. STORM INLETS SHALL BE SPACED TO CAPTURE NO MORE THAN 7,000 SQUARE FEET OF AREA.
8. DIAMETER "D" IS NORMAL DIAMETER OF OUTLET PIPE.

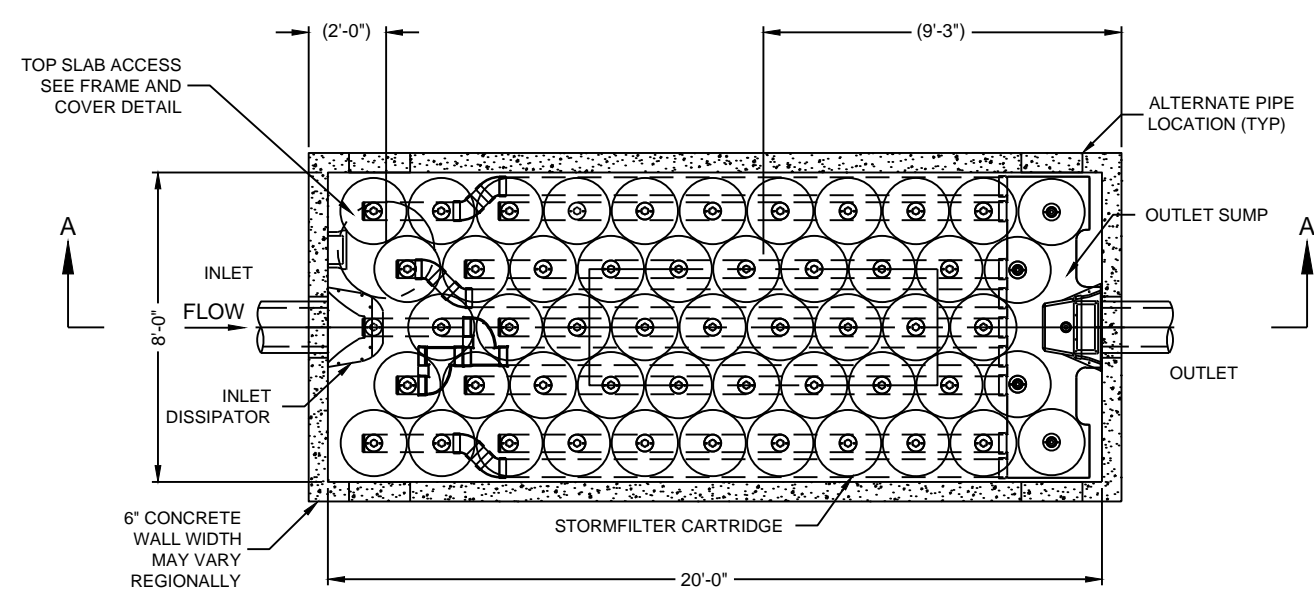
CURB INLET

CITY OF LA CENTER APPROVED

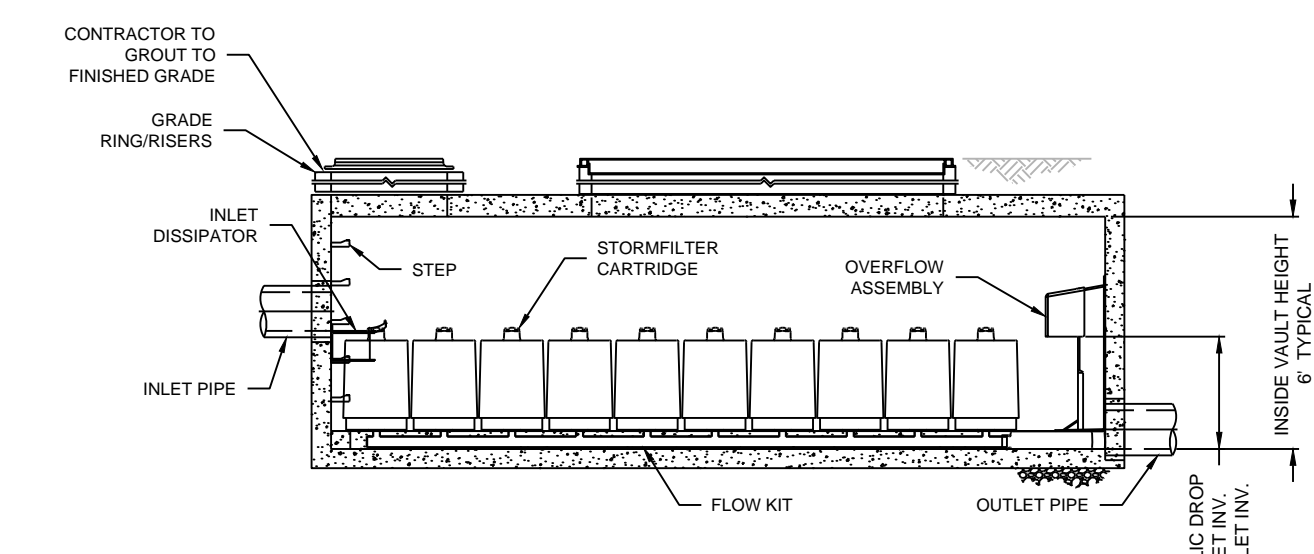
Barb Stapp, PE 9/28/10
CITY ENGINEER DATE

REVISIONS:	DATE:	DRAWN:	DESIGNED:
1	9/28/10	BES	BES

PLAN # SM-4



PLAN VIEW VAULT STYLE, OUTLET SUMP (NB)



SECTION A-A

STORMFILTER DESIGN NOTES

STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD VAULT STYLE IS SHOWN WITH THE MAXIMUM NUMBER OF CARTRIDGES (31). VAULT STYLE OPTIONS INCLUDE INLET BAY (39), INLET BAY/OUTLET BAY (39), OUTLET BAY (46), INLET BAY/FULL HEIGHT BAFFLE WALL (35), FULL HEIGHT BAFFLE WALL (42). STORMFILTER 8X20 PEAK HYDRAULIC CAPACITY IS 1.8 CFS. IF THE SITE CONDITIONS EXCEED 1.8 CFS AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION	27"	18"	LOW DROP
RECOMMENDED HYDRAULIC DROP (ft)	3.05	2.3	1.8
SPECIFIC FLOW RATE (gpm/ft²)	2 gpm/ft²	1 gpm/ft²	2 gpm/ft²
CARTRIDGE FLOW RATE (gpm)	22.5	11.25	15

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	UNIT 1
WATER QUALITY FLOW RATE (cfs)	2.31
PEAK FLOW RATE (cfs)	2.76
RETURN PERIOD OF PEAK FLOW (YRS)	1.00 YR
# OF CARTRIDGES REQUIRED	47
CARTRIDGE FLOW RATE	11.25
MEDIA TYPE (CSF, PERLITE, PPG, GAC, PHS)	-

PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE #1	115.71	HDPE	15
INLET PIPE #2	-	-	-
OUTLET PIPE	112.76	HDPE	15

UPSTREAM RIM ELEVATION	130.78
DOWNSTREAM RIM ELEVATION	130.87
ANTI-FLOTATION BALLAST	WIDTH HEIGHT

NOTES/SPECIAL REQUIREMENTS:
* PER ENGINEER OF RECORD

GENERAL NOTES

1. CONTRACTOR TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR SITE SPECIFIC DRAWINGS WITH DETAILED VAULT DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contech-es.com
4. STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 5' AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
6. FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF-CLEANING. RADIAL MEDIA DEPTH SHALL BE FINCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 30 SECONDS.
7. SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft).

INSTALLATION NOTES

1. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
2. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER VAULT (LIFTING CLUTCHES PROVIDED).
3. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL VAULT SECTIONS AND ASSEMBLY VAULT.
4. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH OUTLET PIPE INVERT WITH OUTLET BAY FLOOR.
5. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

CONTECH
ENGINEERED SOLUTIONS LLC

9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7393 FAX

SF0820
STORMFILTER
STANDARD DETAIL

FILE: W:\15472\CIVIL\DWG\SHEETS\15472_C6.2_C6.2.1_STM_DETAILS_C3D2012.DWG



KAY'S SUBDIVISION
LA CENTER, WASHINGTON

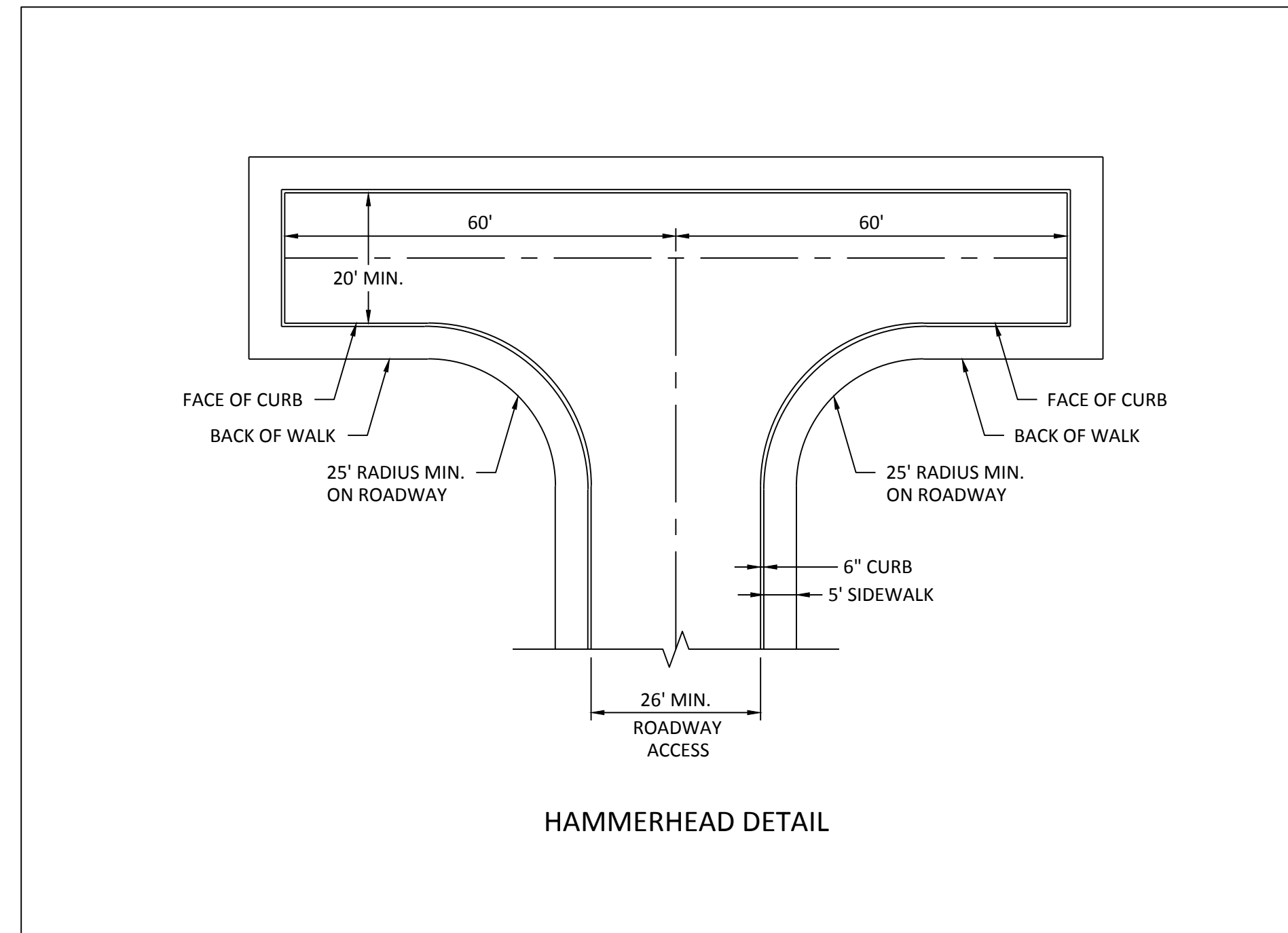
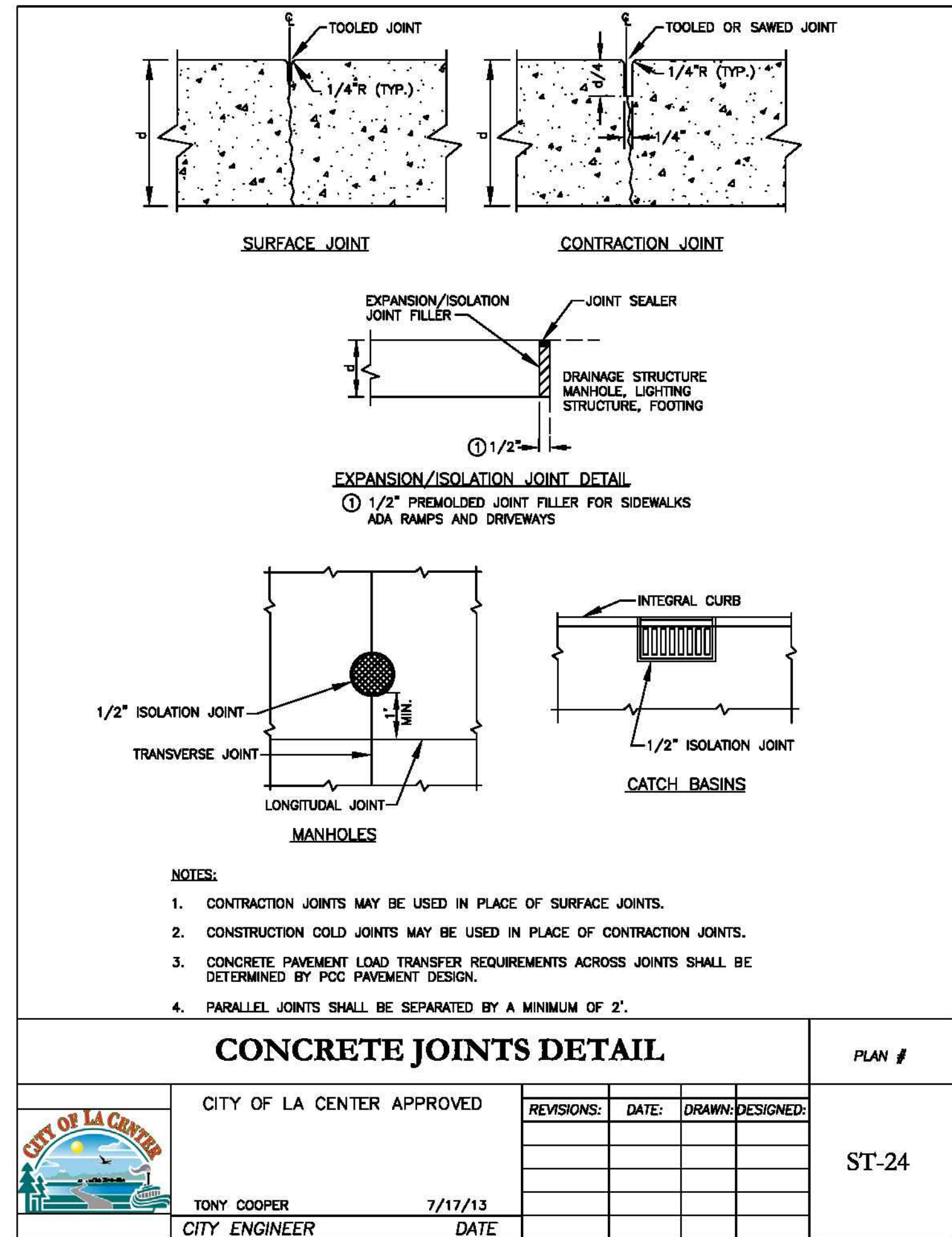
STORM DETAILS


REVISIONS:

JOB NO.: 15472/15695
DATE: 4/22/2015
SCALE: NO SCALE
DESIGNED BY: BT
DRAWN BY: AJS
CHECKED BY:

100% PLAN SET

C6.2.3



CITY OF LA CENTER APPROVED		REVISIONS:	DATE:	DRAWN:	DESIGNED:	PLAN #
 TONY COOPER CITY ENGINEER	7/17/13 DATE					ST-24



REVISIONS:

JOB NO.: 15472/15695
DATE: 4/22/2015
SCALE: NO SCALE
DESIGNED BY: BT
DRAWN BY: AJS
CHECKED BY:

100% PLAN SET

C6.7



REVISIONS:

1	REV_DATE

JOB NO.: 15472/15695
 DATE: 4/22/2015
 SCALE: 1" = XX' - XX"
 DESIGNED BY: BT
 DRAWN BY: AJS
 CHECKED BY:

100% PLAN SET

C7.0

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LEGEND

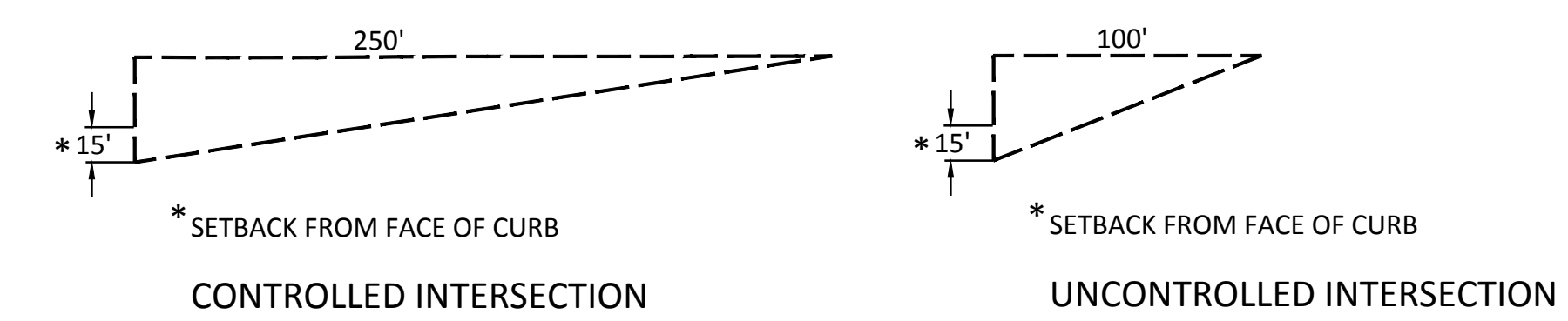
- 4" WHITE EDGE LINE
- RED PAINT AND "NO PARKING - FIRE LANE" MARKINGS ON CURB.
- R1-1
1
- STREET SIGN
2
- WETLAND BUFFER TO REMAIN IN NATURAL VEGETATED STATE
12" x 18"
3
- NO PARKING FIRE LANE
12" x 18"
4

ROAD TO BE CONTINUED WITH FUTURE DEVELOPMENT
 For Information Contact:
 La Center Public Works
 360-263-7665

18" x 36"
 *SIGN TO BE MOUNTED ON BARRICADE
 5

- ACER RUBRUM 'AUTUMN BLAZE' / AUTUMN BLAZE RED MAPLE
- ZELKOVA SERRATA 'GREEN VASE' / GREEN VASE JAPANESE ZELKOVA
- PISTACIA CHINENSIS / CHINESE PISTACHE

SIGHT DISTANCE TRIANGLES



SIGNING & STRIPING NOTES:

- THE STRIPING AND PAVEMENT MARKING REMOVAL PROCESS SHALL CONFORM TO WSDOT "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION" SECTION 8-22.3(6). THE COUNTY'S ACCEPTED PRACTICE OF REMOVAL OF EXISTING PAINTED PAVEMENT MARKING IS BY SHOT BLASTING. ALL OTHER MARKINGS ARE REMOVED BY GRINDING. THE CONTRACTOR SHALL HAVE A WRITTEN APPROVAL BY THE ENGINEER FOR ANY OTHER METHOD OF REMOVAL.
- THE CONTRACTOR SHALL MAINTAIN EXISTING PERMANENT SIGNING IN ACCORDANCE WITH WSDOT "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION" SECTION 1-07.23(1).
- FOR PRIVATE DEVELOPMENT PROJECTS ITEM 3 AND 4 OF WSDOT STANDARD SPECIFICATIONS 1-07.23(1) SHALL BE MODIFIED TO REPLACE THE TERM "CONTRACTING AGENCY" WITH THE TERM "CONTRACTOR".
- THE CONTRACTOR SHALL PROVIDE TEMPORARY PAVEMENT MARKINGS IN ACCORDANCE WITH WSDOT "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION" SECTION 8.23.
- INSTALLATION OF ALL NEW AND FINAL RELOCATION OF EXISTING TRAFFIC CONTROL DEVICES, INCLUDING BARRICADE, WHERE APPLICABLE WILL BE PERFORMED BY CLARK COUNTY PUBLIC WORKS AFTER THE PLAT IS RECORDED. ACTUAL COST OF ALL WORK PERFORMED AND MATERIALS INSTALLED WILL BE REIMBURSED BY THE APPLICANT. THE CONTRACTOR SHALL MAINTAIN TEMPORARY SIGNS, STRIPING AND PAVEMENT MARKINGS UNTIL THE COUNTY PERFORMS SAID WORK.

PLANTING NOTES:

- STREET TREES SHALL BE A MINIMUM OF TWO-INCH CALIPER, FULLY BRANCHED, AND STAKED AT THE TIME OF PLANTING. MINIMUM SPACING SHALL BE 30 FEET ON CENTER.