



REQUEST FOR UTILITY REVIEW – WATER AVAILABILITY
 P. O. Box 8900 (8600 N.E. 117 Ave) Vancouver, WA 98668
 (360) 992-8022 Email: wateradmin@clarkpud.com

APPLICANT INFORMATION

DATE: 3/4/2024

NAME Daniel Korpela – TD West
 ADDRESS 5900 NE 152nd Ave, Suite 120
 CITY Vancouver STATE WA ZIP 98682
 TELEPHONE (360) 921-7991 EMAIL dan@4kequipment.com

Notification Method: Email Type of Development: Subdivision
 Number of Units: 26 Lots

Property Location

Serial Acct. No 258945-000 and 258944-000
 Property Address 34011 NW 9th Ave, La Center (or nearest cross street)
 Property Size 25 ACRES Requested Fire Flow Not listed GPM

GENERAL CONDITIONS FOR SERVICE (CPU Staff Only)

Clark Public Utilities (CPU) is the water purveyor for this site. CPU Water distribution maps indicate that there is an existing 8” water main within NW 9th Ave and an 8” water main within W F Place connecting to a 12” water main within NW Pacific Hwy. There is a nearby fire hydrant located near the intersection of W F Place and W 14th Way. See attached CPU water distribution map for reference. Utility drawings have not been field verified and are for reference only. The project engineer should verify existing conditions in the field prior to final design.

The fire flow at FH – 1541, located near the intersection of NW 9th Avenue and NW Pacific Hwy was previously calculated at 3,169 gpm at 20 psi. Static water pressure was measured at 147 psi. Static pressure at this site is expected to vary depending on site elevation, system demand and reservoir levels (HGL = 485-ft).

For this development, depending on site access and layout, plan to connect to the existing 8” water main within W F Place. Install proper fire protection (i.e. hydrants and building sprinkler systems) as required by the Fire Marshal. Plan to extend a minimum 8” water main within the public access through the site and connecting to the 8” water main within NW 9th Ave. The water system shall be sized depending on the anticipated fire protection and domestic demand requirements. The Engineer shall certify that the proposed water distribution design adequately provides proper domestic and fire protection services.

Any existing, unused services shall be properly capped and abandoned. All water mains and services (up to the meter) located within private property, shall be included in an easement granted to Clark Public Utilities. Proper state approved backflow devices will be required for all domestic, fire and landscape water services. All hot taps shall be performed by a Utility approved contractor. The Developer is responsible for costs associated with the service and fire protection installation, right-of-way permitting, and any other needed water improvements.

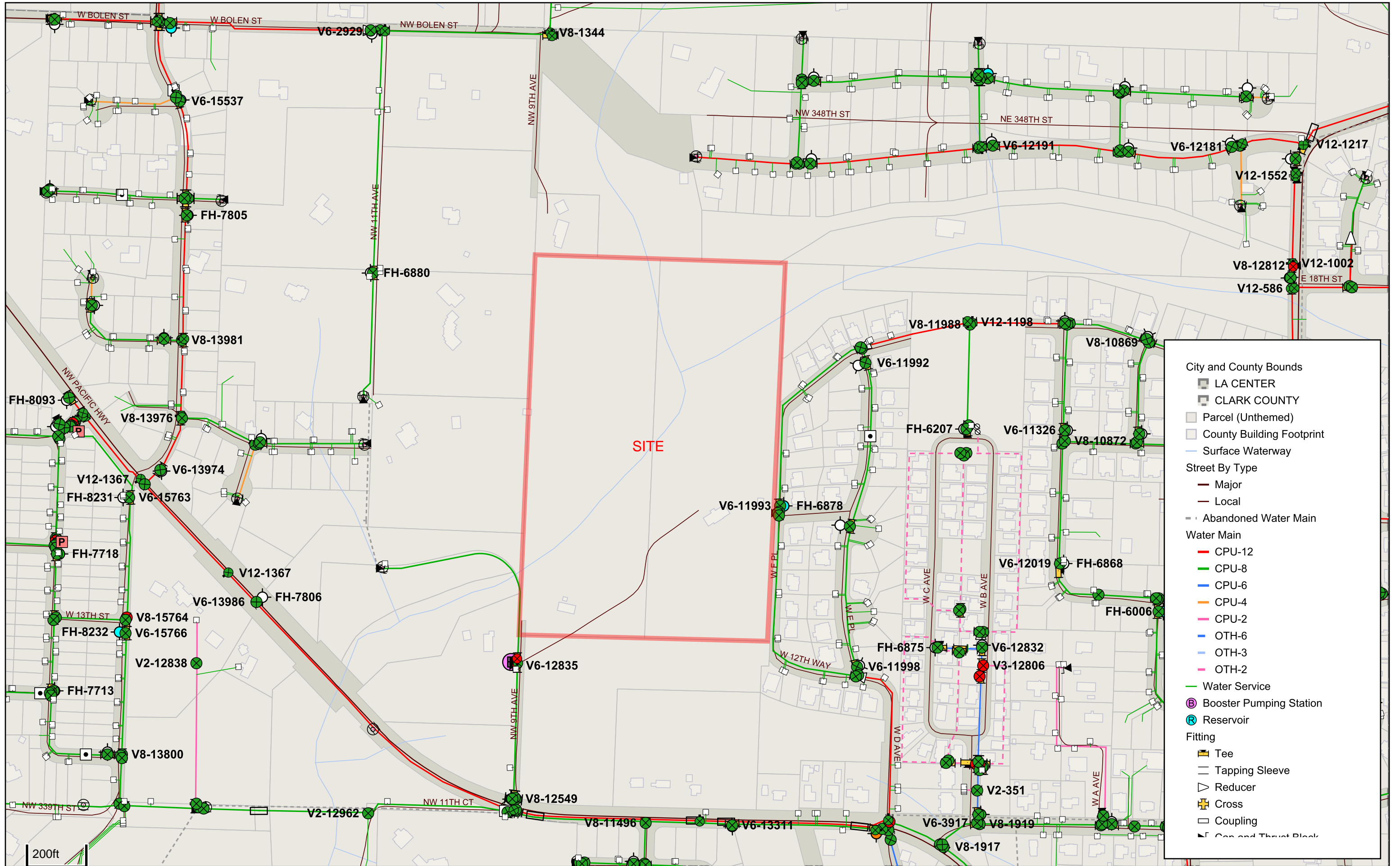
Submit full engineering plan set for further requirements and comments.

- Licensed Civil Eng. Drawing Required for Clark Public Utilities approval prior to construction
- Easement Required
- Clark Public Utilities has the capacity to serve, if the above conditions are met
- Developer/Owner shall pay County Right-of-Way fees based on off-site improvements

Review comments are subject to modification during detailed plan check and review.

This utility review is valid for six months after the date of signature below.

REVIEWED BY N. Flagg DATE 3/4/2024
 Nick Flagg, PE



PROJECT INFORMATION

NW PACIFIC HWY
CLARK COUNTY
LA CENTER, WA

SE 1/4 OF SEC 34, T5N R1E W.M.
PARCEL #: 258905-000, 258924-000,
062965-040
ZONING: R1-7.5
AREA OF PARCELS: 16.8 AC

CONTACT PERSON:
SAMUEL E. MOSS
MOSS & ASSOCIATES, INC.
717 NE 61ST ST. SUITE 202
VANCOUVER, WA 98665
360-260-9400, x39

OWNER:
SUN COUNTRY HOMES
2401 W MAIN ST.
BATTLE GROUND, WA 98604

ZONING INFORMATION:
ZONING DESIGNATION = R1-7.5
COMP. PLAN DESIGNATION = URBAN LOW DENSITY

SETBACKS:
MIN. FRONT YARD = 20 FEET
MIN. INTERIOR SIDE YARD = 7.5 FEET
MIN. STREET SIDE = 10 FEET
MIN. REAR YARD = 20 FEET
LOT DIMENSIONS:
MIN. AVE. LOT DEPTH = 90 FEET
MIN. AVE. LOT WIDTH = 60 FEET
MIN. LOT SIZE = 7500 SQFT*
MAX. LOT SIZE = 15000 SQFT

*MIN. LOT SIZE FOR 5 PERCENT
OF LOTS IS 6000 SQFT
PURSUANT TO LCMC 17.25.070

HANNA'S FARM SUBDIVISION

PRELIMINARY PLAT FOR A SUBDIVISION OF THREE PARCELS (16.80 ACRES) LOCATED IN THE SW 1/4 OF SECTION 34, T5N, R1E, W.M. (PARCEL #258905-000, 258924-000, 62965-040) IN CLARK COUNTY

EROSION CONTROL NOTES

THE SITE GRADING SHALL BE DONE DURING THE DRY WEATHER SEASON AND COMPLETED EARLY ENOUGH IN THE YEAR TO ALLOW SUFFICIENT TIME FOR SEEDING AND PLANTING TO BECOME ESTABLISHED BEFORE THE ONSET OF WET WEATHER.

WHILE THESE NOTES SHOULD BE FOLLOWED WHEN APPLICABLE, THE GEOTECHNICAL ENGINEER SHALL BE INSPECT AND MAKE RECOMMENDATIONS DURING EXTENDED PERIODS OF RAINFALL OR AFTER A HEAVY STORM EVENT. IN ADDITION, THESE NOTES ARE NOT INTENDED TO COVER ALL POSSIBLE GRADING AND EROSION CONTROL MEASURES--STANDARD EROSION CONTROL NOTES ARE ATTACHED TO THESE PLANS TO COVER TYPICAL PRACTICES. THE CONTRACTOR IS RESPONSIBLE TO FOLLOW BEST MANAGEMENT PRACTICES TO ENSURE ADEQUATE EROSION CONTROL.

1. GRANULAR BLANKETS MAY BE REQUIRED TO PROVIDE A FIRM SUPPORT BASE AND SUSTAIN CONSTRUCTION EQUIPMENT. THESE GRANULAR BLANKETS SHALL CONSIST OF BANK RUN GRAVEL, PIT RUN QUARRY ROCK, OR OTHER SIMILAR MATERIAL 16" MAX. SIZE WITH LESS THAN 5% PASSING THE NO. 200 SIEVE.
2. CONSTRUCTION EQUIPMENT TRAFFIC ACROSS EXPOSED NATIVE SOIL SHOULD BE MINIMIZED.
3. ROAD CONSTRUCTION DURING WET WEATHER CONDITIONS MAY REQUIRE INCREASED BASE THICKNESS. THE GEOTECHNICAL ENGINEER SHALL DETERMINE IF SUCH INCREASE IS NECESSARY AND TO WHAT EXTENT.
4. DURING EXTENDED WET PERIODS, STRIPPING ACTIVITIES MAY ALSO NEED TO BE CONDUCTED FROM AN ADVANCING PAD OF GRANULAR FILL. ONCE INSTALLED, THE CRUSHED AGGREGATE BASE SHOULD BE COMPACTED WITH SEVERAL PASSES BY A MODERATELY HEAVY STATIC DRUM OR GRID ROLLER.
5. THE SEDIMENTATION PONDS SHOULD BE FREQUENTLY INSPECTED AND MAINTAINED. REPAIR AS NECESSARY. SILT SHOULD BE REMOVED WHEN IT HAS FILLED ONE-HALF OF THE POND'S TOTAL SEDIMENT STORAGE AREA. THE POND'S EFFECTIVENESS IS BASED LESS ON THE SIZE THAN ON REGULAR SEDIMENT REMOVAL.
6. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER TEMPORARY BIPS ARE NO LONGER NECESSARY. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED IN SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHALL BE PERMANENTLY STABILIZED.
7. CONTRACTOR TO SCARIFY UNVEGETATED SLOPES WITH HEAVY EQUIPMENT TO MINIMIZE RUNOFF VELOCITIES. GROOVES TO BE PERPENDICULAR TO SLOPE DIRECTION.

ABBREVIATIONS

AC Asphaltic Concrete	AGG Aggregate	ARV Air Release Valve	ATB Asphalt Treated Base	BC Top Back of Curb	BGS Below Ground Surface	BLK Blocking	BO Blowoff Assembly	BOM Bottom of Wall Elevation	BMP Best Management Practice	BVC Begin Vertical Curve	CB Catchbasin	CCC Clark County Code	C Class	CMP Corrugated Metal Pipe	CO Cleanout	CONC Concrete	CONTR Contractor	CULV Culvert	DWY Driveway	DIP Ductile Iron Pipe	DIA Diameter	DWL Design Water Level	E East	EG Existing Grade	ELEC Electrical	ELEV Elevation	EDG Edge of Gravel	EOP Edge of Pavement	EC Erosion and Silt Control	EX Existing	FG Finish Grade	FCC Finish Grade at Centerline	FLR Finish Grade at Left	FOR Finish Grade at Right	FL Flow Line Elevation	FLG Flange	FT Feet	GB Grade Break	GV Gate Valve	HDPE High Density Poly Ethylene	HYD Fire Hydrant	IE Invert Elevation	JB Junction Box	L Length	LF Linear Feet	LT Left	LS Lump Sum	MH Manhole	MJ Mechanical Joint Restraint	MSL Mean Sea Level	MUCD Manual on Uniform Traffic Control Devices	N North	PC Point of Curvature	PL Property Line	PT Point of Tangency	PP Power Pole	PVC Polyvinyl Chloride	PVI Point of Vertical Intersection	R Radius	RCC Reinforced Concrete Pipe	RD Roof Drain	RIM Rim Elevation	RT Right	R/W or ROW Right-of-way	S South	S Slope	STM Storm Sewer	STMCD Storm Sewer Cleanout	STMWH Storm Sewer Manhole	SAN Sanitary Sewer	SANCD Sanitary Sewer Cleanout	SANMH Sanitary Sewer Manhole	STA Station	ST Street	T Target	TC Top Face of Curb Elevation	TON Top of Wall Elevation	TW Top of Sidewalk Elevation	TEL Telephone	TEMP Temporary	THRU Through	TYP Typical	VC Vertical Curve	W West	WSDOT Washington State Department of Transportation	WAT Water	WV Water Valve	WM Water Meter
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SIGNING CONSTRUCTION NOTES

- STOP SIGN - INSTALL STOP SIGN PER MUTCD & STREET NAME SIGN
- SPEED LIMIT SIGN - INSTALL SPEED LIMIT, 25 MPH, SIGN
- BARRICADE - INSTALL STREET BARRICADE WITH EXTENSION SIGN (DETAIL SHEET 4)
- NO PARKING - INSTALL "NO PARKING" SIGN

CLARK PUBLIC UTILITIES - WATER

SIGNED BY _____ DATE _____
RIO # 249038

CLARK PUBLIC UTILITIES - SEWER

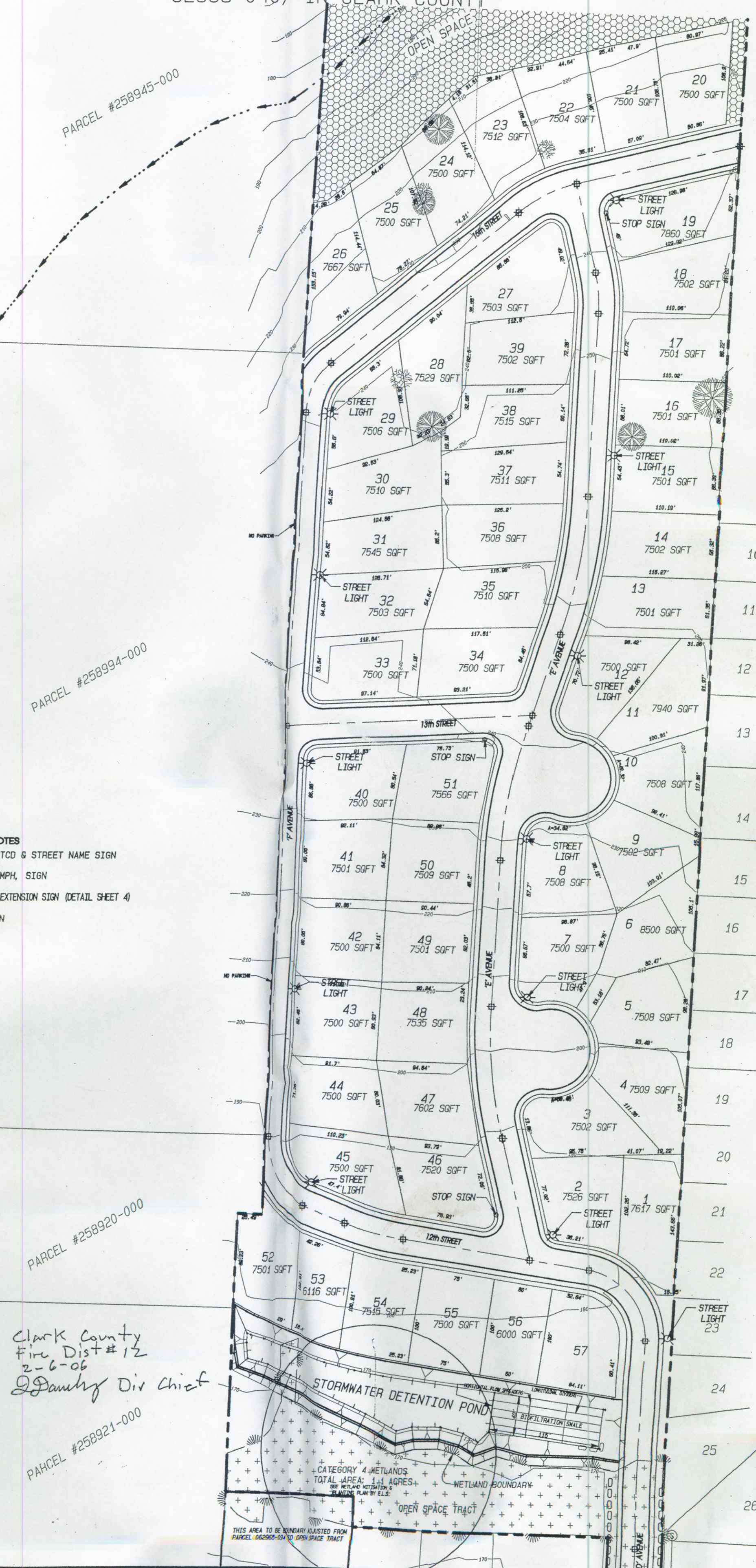
SIGNED BY _____ DATE _____
RIO # 254663

CPU INITIAL	DATE	(PRIOR TO FINAL ACCEPTANCE)

SATISFACTORY BACTERIA AND PRESSURE TEST ON THE WATER LINE PERFORMED BY CPU WATER SERVICES INSPECTOR

STATE APPROVED BACKFLOW ASSEMBLY INSTALLED AND APPROVED TEST REPORT SUBMITTED TO CPU WATER SERVICES

NECESSARY EASEMENTS TO CPU WATER SERVICES, SIGNED AND RECORDED.



*Filled
7-18-06
Flushed & Pumped up
8-21-06
Static 48 psi
Pumped up to
158 psi
Held Time*

City of La Center
DEPARTMENT OF COMMUNITY DEVELOPMENT
ENGINEERING SERVICES

Recommended For Approval

Signature Public Works Director _____ Date _____

Signature City Engineer _____ Date _____

Signature Fire District _____ Date _____

NOTES:

SHT No.	SHEET DESCRIPTION
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9	STORMWATER FACILITY
10	POND & SWALE PROFILES
11	GRADING & EROSION CONTROL 1
12	GRADING & EROSION CONTROL 2
13	CONSTRUCTION NOTES
14	DETAIL SHEET
15	CPU DETAIL SHEET
16	GRINDER PUMP DETAIL SHEET
17	EXISTING CONDITIONS SURVEY

EXISTING	PROPOSED	DESCRIPTION
---	---	WATER LINE
○	N/A	WATER VALVE
N/A	⊗	WATER METER
N/A	⊕	FIRE HYDRANT
N/A	---	STORM LINE
N/A	○	STORM MANHOLE
N/A	■	STORM CATCH BASIN
---	---	SANITARY LINE
⊙	○	SANITARY MANHOLE
⊙	N/A	ELECTRIC POWER POLE
N/A	☉	APPROXIMATE STREET LIGHT LOCATION TO BE FINALIZED AND APPROVED BY CPU

⊙ = SURVEYOR TO INSTALL STREET MONUMENTATION WITH CAST IRON CASE AT STREET CL INTERSECTIONS. PT'S OR PC'S, PT'S & PLAT BOUNDARY/CL INTERSECTIONS.

GRAPHIC SCALE 1"=100'

0 100 200 300

\\BAINTER\Projects\11 Projects\Hanna's Farm - La Center\DRAWINGS\Hanna's Farm Const 2-1-06.dwg 2/1/2006 7:03PM

DEVELOPER: SUN COUNTRY HOMES 2401 W MAIN ST. BATTLE GROUND, WA 98604

HANNA'S FARM COVER SHEET & SIGNING/STRIPING

DATE: 1 Feb 2006

PROJECT MANAGER: Samuel E. Moss
ENGR. OF RECORD: Lomnie E. Moss
DRAWN BY: Samuel E. Moss, AB
CHECKED BY: Lomnie E. Moss
REV. NO. 0579

MOSS & ASSOCIATES, INC.
717 NE 61ST STREET, SUITE 202
VANCOUVER, WA 98665
(360) 260-9400 FAX: (360) 260-3509

SHEET 1/17

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CLARK COUNTY
LA CENTER, WA

SE 1/4 OF SEC 34, T5N R1E W.M.
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ABBREVIATIONS

AC	Asphaltic Concrete	PC	North
AGG	Aggregate	PL	Point of Curvature
ARV	Air Release Valve	PT	Point of Tangency
ATB	Asphalt Treated Base	PP	Power Pole
BC	Top Back of Curb	PVC	Polyvinyl Chloride
BGS	Below Ground Surface	PVI	Point of Vertical Intersection
BLK	Blocking	R	Radius
BO	Blowoff Assembly	RCC	Reinforced Concrete Pipe
BOW	Bottom of Wall Elevation	RD	Roof Drain
BMP	Best Management Practice	RE	Rim Elevation
BVC	Begin Vertical Curve	RT	Right
CB	Catchbasin	R/W or ROW	Right-of-way
CC	Clark County Code	S	South
CL	Class	S	Slope
CMP	Corrugated Metal Pipe	STM	Storm Sewer
CO	Cleanout	STMCD	Storm Sewer Cleanout
COMC	Concrete	STMHM	Storm Sewer Manhole
CONTR	Contractor	SAN	Sanitary Sewer
CLV	Culvert	SANCD	Sanitary Sewer Cleanout
DWY	Driveway	SANHM	Sanitary Sewer Manhole
DIP	Ductile Iron Pipe	STA	Station
DIA	Diameter	ST	Street
DWL	Design Water Level	T	Tangent
E	East	TC	Top Face of Curb Elevation
EG	Existing Grade	TOW	Top of Wall Elevation
ELEC	Electrical	TW	Top of Sidewalk Elevation
ELEV	Elevation	TEL	Telephone
EDG	Edge of Gravel	TEMP	Temporary
EOP	Edge of Pavement	THRU	Through
EC	Erosion and Silt Control	TYP	Typical
EX	Existing	VC	Vertical Curve
FG	Finish Grade	W	West
FCC	Finish Grade at Centerline	WSDOT	Washington State
FGL	Finish Grade at Left	WAT	Department of Transportation
FGR	Finish Grade at Right	WV	Water Valve
FL	Flow Line Elevation	WM	Water Meter
FLG	Flange		
FT	Feet		
GB	Grade Break		
GV	Gate Valve		
HOPE	High Density Poly Ethylene		
HYD	Fire Hydrant		
IE	Invert Elevation		
JB	Junction Box		
L	Length		
LF	Lineal Feet		
LT	Left		
LS	Lump Sum		
MH	Manhole		
MJ	Mechanical Joint Restraint		
MSL	Mean Sea Level		
MUTCD	Manual on Uniform Traffic Control Devices		

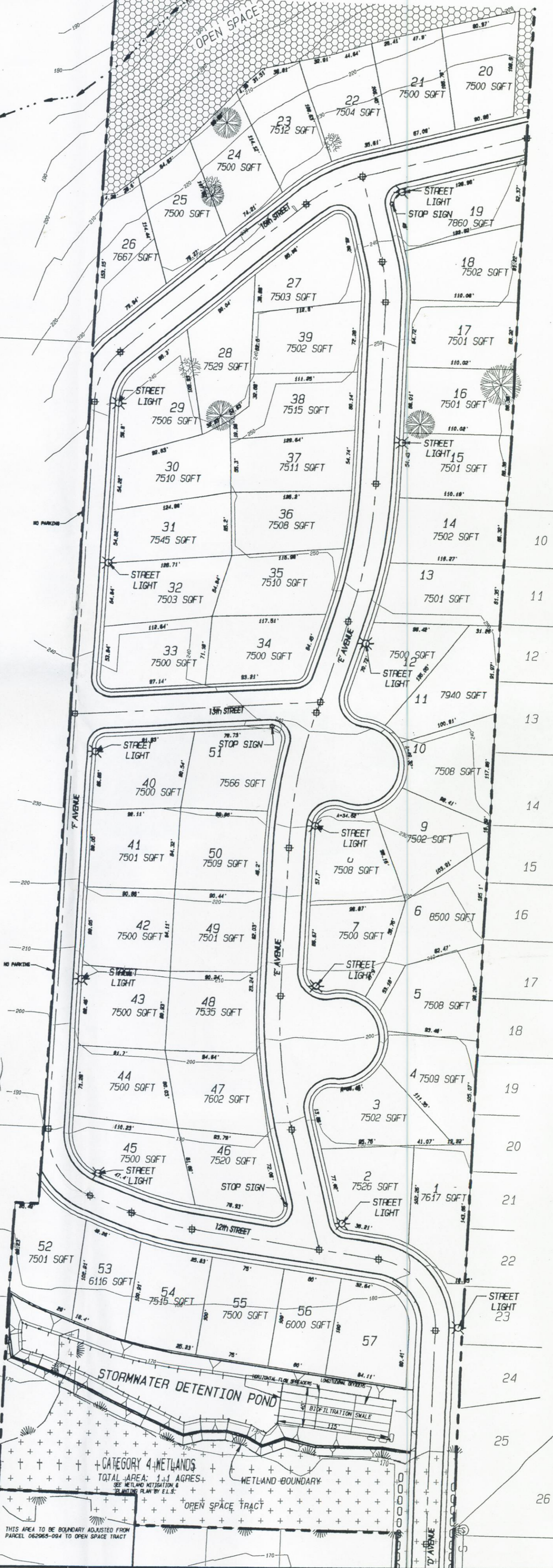
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STOP SIGN - INSTALL STOP SIGN PER MUTCD & STREET NAME SIGN
SPEED LIMIT SIGN - INSTALL SPEED LIMIT, 25 MPH, SIGN
BARRICADE - INSTALL STREET BARRICADE WITH EXTENSION SIGN (DETAIL SHEET 4)
NO PARKING - INSTALL "NO PARKING" SIGN

CLARK PUBLIC UTILITIES - WATER
SIGNED BY *Samuel E. Moss* 3-31-06
DATE
RIO # 249038

CLARK PUBLIC UTILITIES - SEWER
SIGNED BY *Samuel E. Moss* 3-31-06
DATE
RIO # 254663

CLARK PUBLIC UTILITIES WATER SERVICES	RIO #240724
CPU INITIAL	DATE (PRIOR TO FINAL ACCEPTANCE)
SATISFACTORY BACTERIA AND PRESSURE TEST ON THE WATER LINE PERFORMED BY CPU WATER SERVICES INSPECTOR	
STATE APPROVED BACKFLOW ASSEMBLY INSTALLED AND APPROVED TEST REPORT SUBMITTED TO CPU WATER SERVICES	
NECESSARY EASEMENTS TO CPU WATER SERVICES, SIGNED AND RECORDED.	

Signed it anyways! But corrections - look out for CB lateral with main vent conflicts. Look out for fit's on the road and W/W in not ideal locations.



City of La Center
DEPARTMENT OF COMMUNITY DEVELOPMENT
ENGINEERING SERVICES

Recommended For Approval

Signature Public Works Director _____ Date _____

Signature City Engineer _____ Date _____

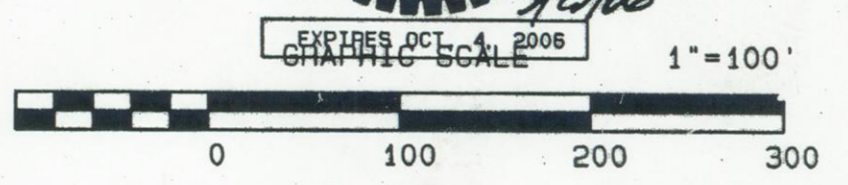
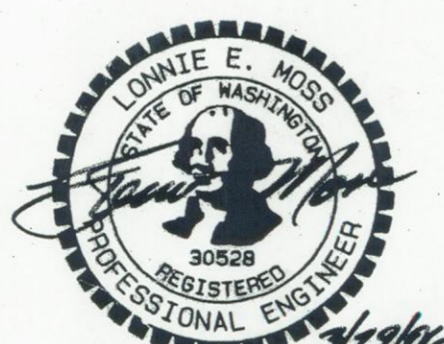
Signature Fire District _____ Date _____

NOTES:

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15	CPU WATER DETAIL SHEET
16	GRINDER PUMP DETAIL SHEET
17	STORMFILTER DETAIL SHEET
18	CPU SEWER DETAIL SHEET
19	CPU SEWER DETAIL SHEET
20B	EXISTING CONDITIONS SURVEY

EXISTING	PROPOSED	DESCRIPTION
— W —	— W —	WATER LINE
⊙	N/A	WATER VALVE
N/A	⊙	WATER METER
⊕	⊕	FIRE HYDRANT
N/A	— W —	STORM LINE
N/A	○	STORM MANHOLE
■	■	STORM CATCH BASIN
— SAN —	— SAN —	SANITARY LINE
⊙	⊙	SANITARY MANHOLE
⊙	N/A	ELECTRIC POWER POLE
N/A	☀	APPROXIMATE STREET LIGHT LOCATION TO BE FINALIZED AND APPROVED BY CPU

APPROVED FOR CONSTRUCTION
3-31-06



PROJECT NUMBER: SAMUEL E. MOSS
 ENGINEER OF RECORD: SAMUEL E. MOSS
 DESIGNER OF RECORD: SAMUEL E. MOSS
 DATE: 29 Mar 2006
 CONTACT PERSON: SAMUEL E. MOSS
 ORGANIZATION: MOSS & ASSOCIATES, INC.
 CHECKED BY: LONNIE E. MOSS
 ORGANIZATION: MOSS & ASSOCIATES, INC.
 ADDRESS: 717 NE 61ST STREET, SUITE 202, VANCOUVER, WA 98665
 PHONE: (360) 260-9400, FAX: (360) 260-3509
 SHEET 20

D AVENUE & 12th STREET PROFILE

- SANITARY SEWER CONSTRUCTION NOTES**
- 8" SAN - INSTALL 8" PVC SANITARY SEWER LINE
 - 4" SAN GRINDER LAT - INSTALL 4" PVC SANITARY SEWER LINE FOR GRINDER PUMPS PER DETAIL 8-GP SHEET 16
 - SAN MH - INSTALL STANDARD SEWER MANHOLE - EXTERNALLY SEAL ALL MANHOLES
 - - INSTALL STANDARD SANITARY SEWER CLEANOUT
 - S- INSTALL STANDARD 4" SANITARY SEWER LATERAL 5' MIN. FROM P.L.
 - EX SAN MH - COPE NEW HOLE & CONNECT NEW SEWER MAIN TO EXISTING MAIN
 - SEE COMPOSITE STREET AND UTILITY PLAN FOR SANITARY SEWER LATERAL TABLE
 - (300) - COPE DRILL EX SAN MH AND USE A BOTTED CONNECTION SUCH AS "KORN-N-SEAL". BOTTOM OF MANHOLE SHALL BE RE-CROWNED.

- GENERAL CONSTRUCTION NOTES**
- 32" WIDE ST - CONSTRUCT 32" WIDE ASPHALT PAVEMENT STREET (SEE TYPICAL SECTION)
 - 32" SHED ST - CONSTRUCT 32" WIDE ASPHALT PAVEMENT SHED STREET (SEE TYPICAL SECTION)
 - 5' SIDEWALK - CONSTRUCT 5' WIDE ATTACHED SIDEWALK WHERE HATCHED (SEE TYP. ST. SECTION)
 - HALF-WIDTH ST - CONSTRUCT HALF-WIDTH (20' MIN) W/ CURB & GUTTER (SEE TYPICAL STREET SECTION)
 - F-1 RAMP - INSTALL TYPE F-1 RAMP (DETAIL SHEET 14)
 - F-3 RAMP - INSTALL TYPE F-3 RAMP (DETAIL SHEET 14)

CURB RETURN (A)

R = 20.00
A = 95.26.38"
L = 33.43'

CURB RETURN (B)

R = 20.00
A = 79.12.52"
L = 27.65'

- STORMWATER CONSTRUCTION NOTES**
- 12" STM - INSTALL 12" STORM LINE
 - 18" STM - INSTALL 18" STORM LINE
 - STM MH - INSTALL STANDARD 48" STORM MANHOLE (DETAIL SHEET 14)
 - CB - INSTALL STD CATCH BASIN - COMBINATION CURB/GRADE (DETAIL SHEET 14)
 - FLOW SPREADERS - INSTALL FLOW SPREADER (DETAIL SHEET 14)
 - SMALE - INSTALL 40" WIDE BIOFILTRATION SMALE WITH 3:1 SIDE SLOPES PER TYPICAL ON SHEET 10
 - INSTALL 4" STORM LATERAL (TYPICAL) ON EACH LOT WITH 2' X 4' BOARD AND TRACKING WIRE (CONSTRUCTION NOTE NOT SHOWN FOR EACH LATERAL)
 - TRAP - INSTALL BIOSLADE SEDIMENTATION TRAP (DETAIL SHEET 9)
 - FLAT TOP MH - INSTALL STANDARD FLAT TOP MANHOLE (DETAIL SHEET 14)

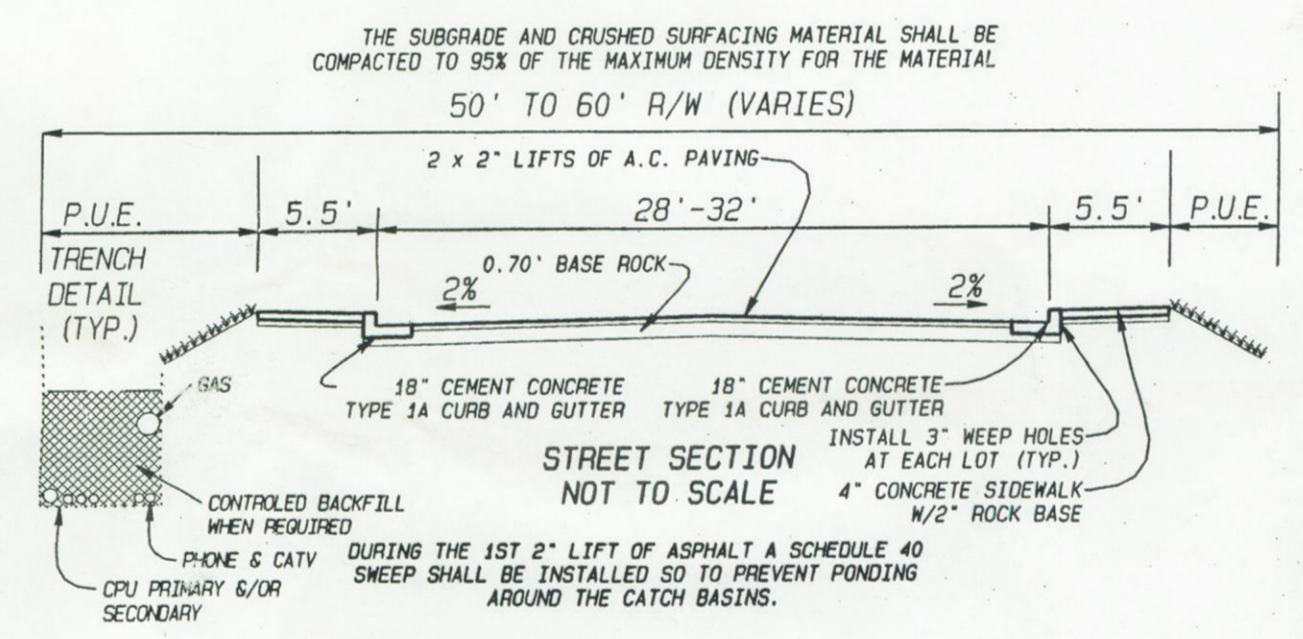
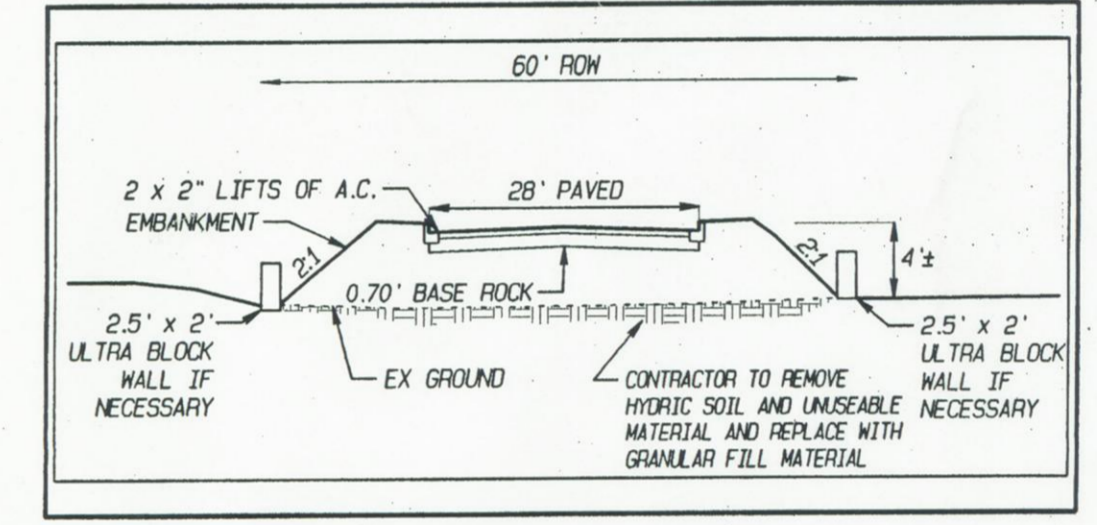
- SIGNING CONSTRUCTION NOTES**
- STOP SIGN - INSTALL STOP SIGN PER MUTCD & STREET NAME SIGN
 - SPEED LIMIT SIGN - INSTALL SPEED LIMIT, 25 MPH SIGN
 - BARRICADE - INSTALL STREET BARRICADE WITH EXTENSION SIGN (DETAIL SHEET 4)
 - NO PARKING - INSTALL "NO PARKING" SIGN

- WATER CONSTRUCTION NOTES**
- 8" WATER - INSTALL 8" WATER MAIN (C-900 P.C. 150 PVC OR D1 PC50 OR EQUIV)
 - 12" WATER - INSTALL 12" WATER MAIN (C-900 P.C. 150 PVC OR D1 PC50 OR EQUIV)
 - B.O. - INSTALL STD BLOW-OFF ASSEMBLY W/ PRE-CAST T.B.

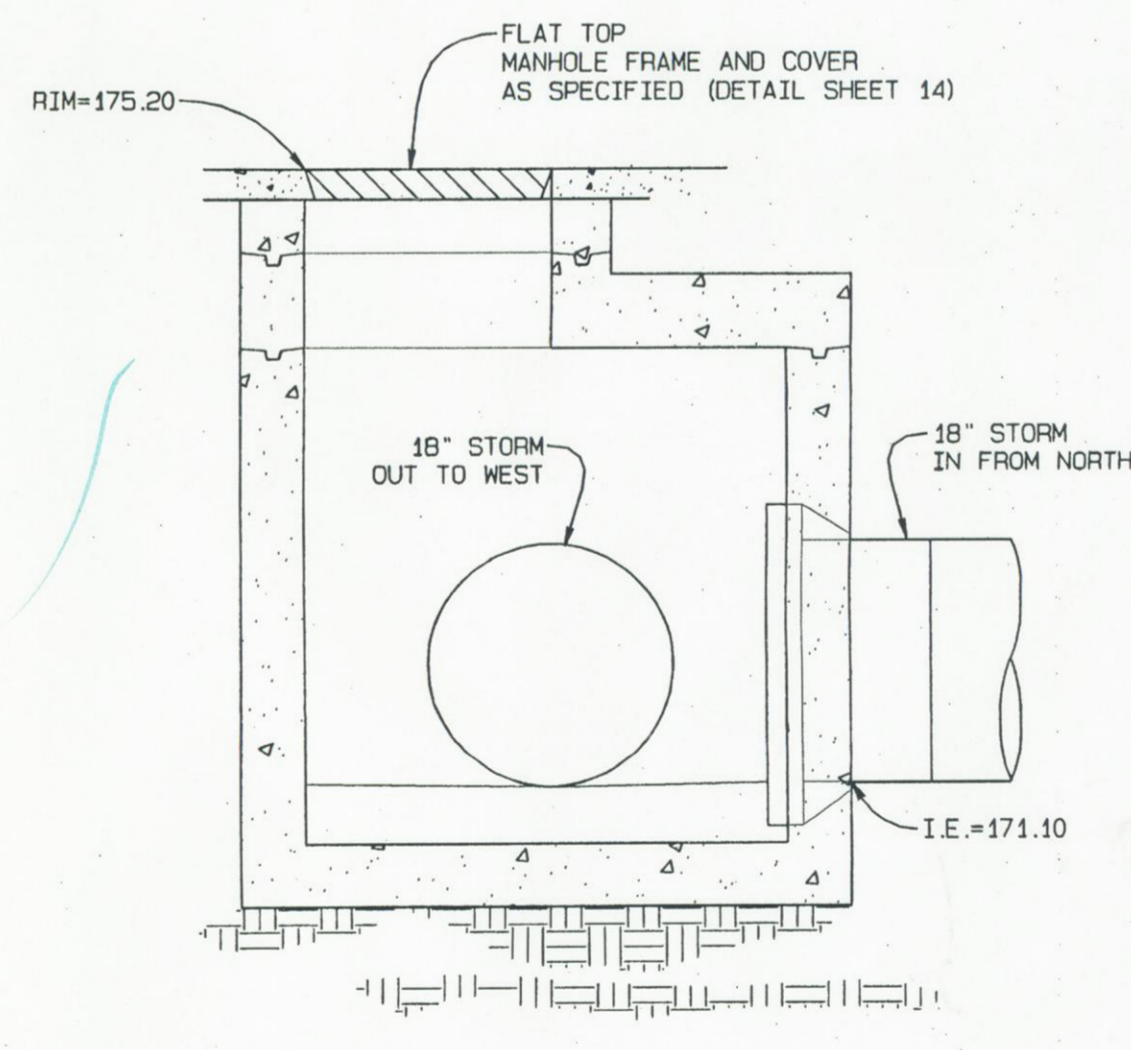
- 11.25' - INSTALL 8" 11.25' MJ BEND W/ MEGA LUG RESTRAINT & T.B.
- 22.5' - INSTALL 8" 22.5' MJ BEND W/ MEGA LUG RESTRAINT & T.B.
- 45' - INSTALL 8" 45' MJ BEND W/ MEGA LUG RESTRAINT & T.B.
- 90' - INSTALL 8" 90' MJ BEND W/ MEGA LUG RESTRAINT & T.B.

- FIRE HYDRANT** - INSTALL 8" MJ X 6" FLG TEE W/ MEGA LUG RESTRAINTS, 6" FLG X MJ VALVE W/ MEGA LUG RESTRAINTS & T.B. STD FIRE HYDRANT ASSEMBLY WITH T.B. (ALSO SEE WATER NOTE 1)
- WATER NOTES:**
- CONNECT NEW 12" MAIN TO EX. 8" MAIN BUT DO NOT OPEN VALVE HOT TAP TO BE PERFORMED BY CPU APPROVED CONTRACTOR WITH 1" 12" PEHM (LARGE END BELL) REDUCER W/ MEGA LUGS
 - 1" 8" FL STAINLESS STEEL TAPPING SLEEVE W/ 7/8" & 8" FLG/MJ TAPPING GATE VALVE
 - 8" DIP WATER MAINS LEADING TO FIRE HYDRANTS LONGER THAN 1 STICK OF PIPE SHALL HAVE ALL PIPE JOINTS MECHANICALLY RESTRAINED WITH "FIELD LOK" GASKETS OR OTHER CPU APPROVED RESTRAINTS.
 - NO PIPE JOINTS WITHIN 10' OF ANY MEGA LUG RESTRAINTS

SECTION Y-Y SCALE: HORIZ: 1" = 40', VERT: 1" = 10'

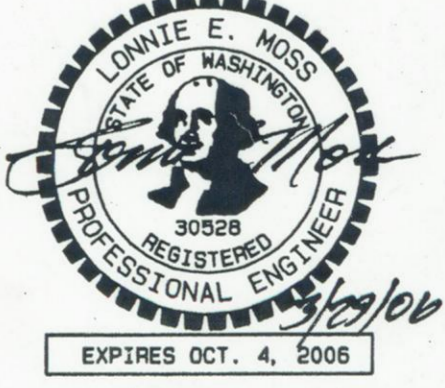


STORM MANHOLE #10 DETAIL NO SCALE



APPROVED FOR CONSTRUCTION
Clark Public Utilities - Water
Signature: [Signature] Date: 3-21-06

SCALE: HORIZ: 1" = 40', VERT: 1" = 10'



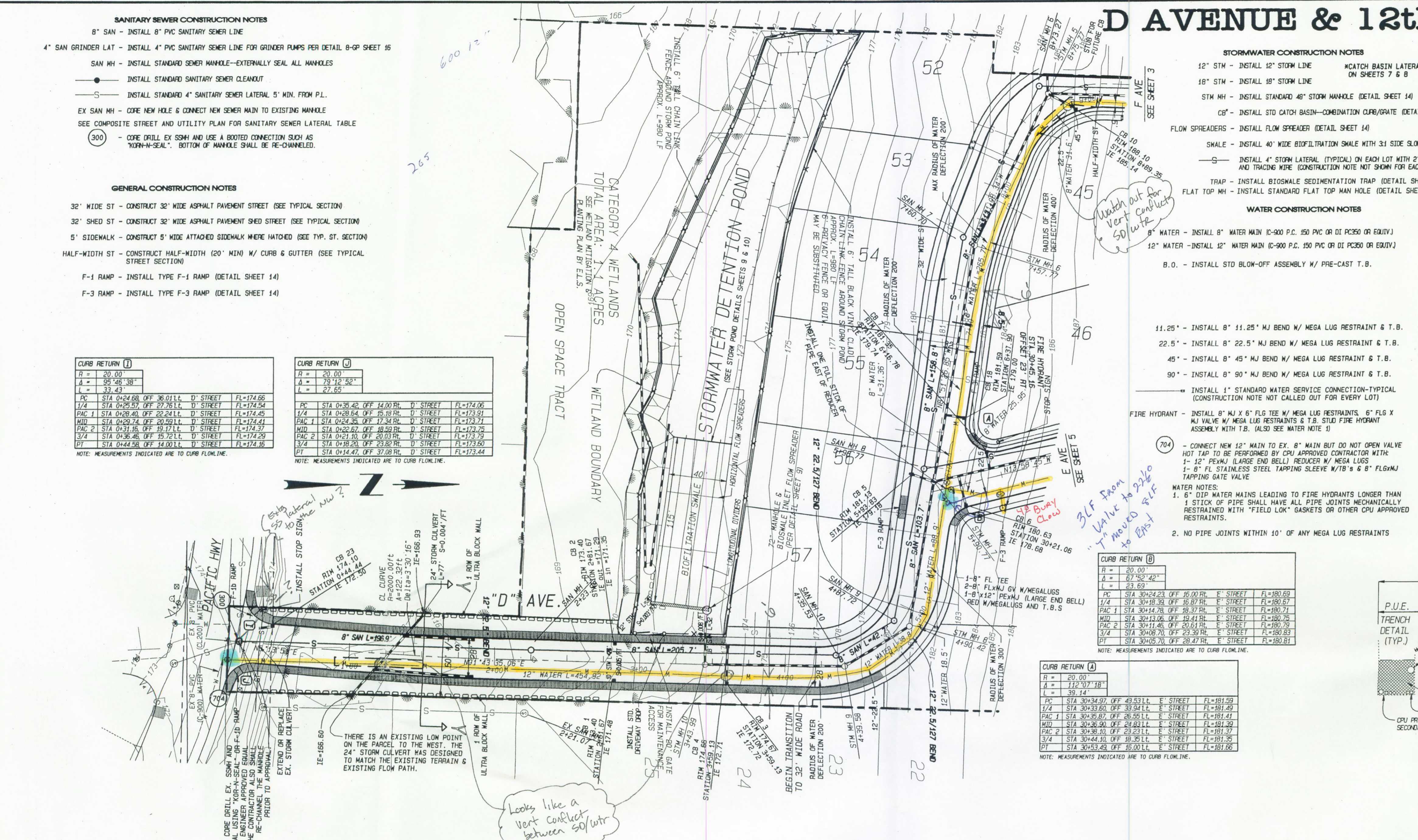
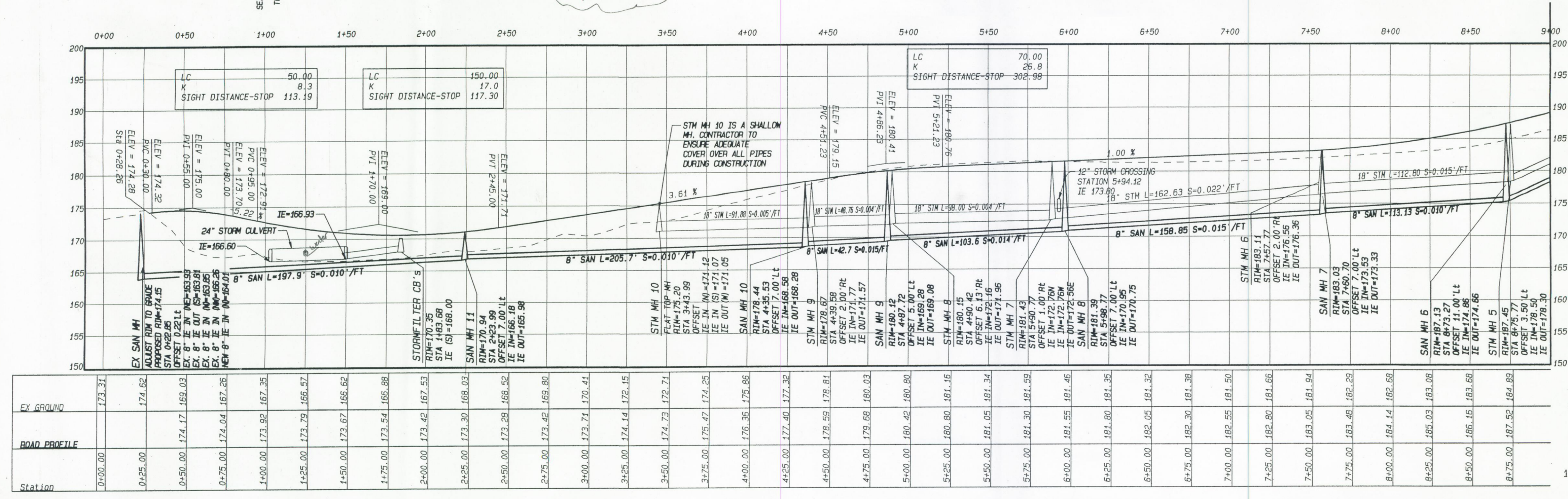
DEVELOPER:
SUN COUNTRY HOMES
2401 W MAIN ST.
BATTLE GROUND, WA 98604

HANNA'S FARM
D AVENUE & 12th STREET PLAN & PROFILE

DATE: 29 Mar 2006
CONTACT PERSON: Shmaji E. Moss
DRAWN BY: Shmaji E. Moss, AB
CHECKED BY: Lonnie E. Moss, MS, PE, No. 9039

PROJECT MANAGER: Shmaji E. Moss
ENGR. OF RECORD: Lonnie E. Moss
SYNCHRO CONSULTANTS, INC.
717 NE 61ST STREET, SUITE 202
VANCOUVER, WA 98665
(360) 260-9400 FAX (360) 260-3509

SHEET 20



F AVENUE PROFILE

- WATER NOTES:**
- 6" DIP WATER MAINS LEADING TO FIRE HYDRANTS LONGER THAN 4' STOCK OF PIPE SHALL HAVE ALL PIPE JOINTS MECHANICALLY RESTRAINED WITH "FIELD LOK" GASKETS OR OTHER CPU APPROVED RESTRAINTS.
 - NO PIPE JOINTS WITHIN 10' OF ANY MEGA LUG RESTRAINTS

- SIGNING CONSTRUCTION NOTES**
- STOP SIGN - INSTALL STOP SIGN PER MUTCD & STREET NAME SIGN
 - SPEED LIMIT SIGN - INSTALL SPEED LIMIT, 25 MPH. SIGN
 - BARRICADE - INSTALL STREET BARRICADE WITH EXTENSION SIGN (DETAIL SHEET 4)
 - NO PARKING - INSTALL "NO PARKING" SIGN

- WATER CONSTRUCTION NOTES**
- 8" WATER - INSTALL 8" WATER MAIN (C-900 P.C. 150 PVC OR DI PC350 OR EQUIV.)
 - 12" WATER - INSTALL 12" WATER MAIN (C-900 P.C. 150 PVC OR DI PC350 OR EQUIV.)
 - B.O. - INSTALL STD BLOW-OFF ASSEMBLY W/ PRE-CAST T.B.

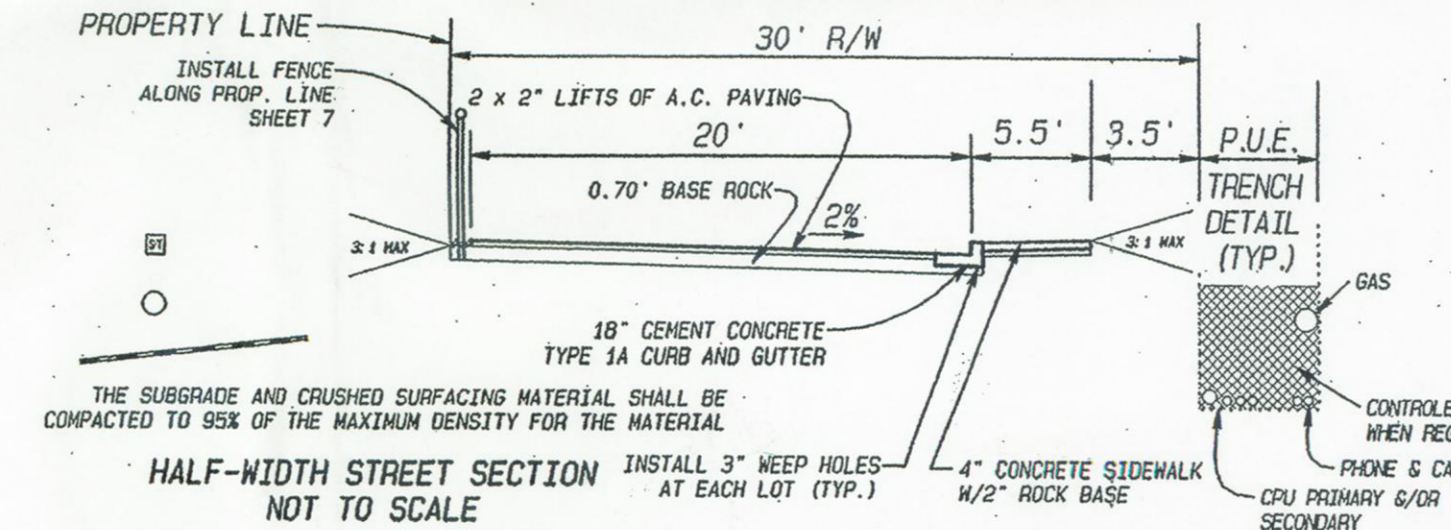
- 11.25' - INSTALL 8" 11.25' MJ BEND W/ MEGA LUG RESTRAINT & T.B.
- 22.5' - INSTALL 8" 22.5' MJ BEND W/ MEGA LUG RESTRAINT & T.B.
- 45' - INSTALL 8" 45' MJ BEND W/ MEGA LUG RESTRAINT & T.B.
- 90' - INSTALL 8" 90' MJ BEND W/ MEGA LUG RESTRAINT & T.B.
- INSTALL 1" STANDARD WATER SERVICE CONNECTION-TYPICAL (CONSTRUCTION NOTE NOT CALLED OUT FOR EVERY LOT)
- FIRE HYDRANT - INSTALL 8" MJ X 6" FLO TEE W/ MEGA LUG RESTRAINTS, 6" FLO X MJ VALVE W/ MEGA LUG RESTRAINTS & T.B. STD FIRE HYDRANT ASSEMBLY WITH T.B. (ALSO SEE WATER NOTE 1)

- STORMWATER CONSTRUCTION NOTES**
- 12" STM - INSTALL 12" STORM LINE
 - 18" STM - INSTALL 18" STORM LINE
 - STM MH - INSTALL STANDARD 48" STORM MANHOLE (DETAIL SHEET 14)
 - CB - INSTALL STD CATCH BASIN-COMBINATION CURB/GRATE (DETAIL SHEET 14)
 - FLOW SPREADERS - INSTALL FLOW SPREADER (DETAIL SHEET 14)
 - SWALE - INSTALL 40" WIDE BIOFILTRATION SWALE WITH 3:1 SIDE SLOPES PER TYPICAL ON SHEET 10
 - INSTALL 4" STORM LATERAL (TYPICAL) ON EACH LOT WITH 2" X 4" BOARD AND TRACING WIRE (CONSTRUCTION NOTE NOT SHOWN FOR EACH LATERAL)
 - TRAP - INSTALL BIOSWALE SEDIMENTATION TRAP (DETAIL SHEET 9)
 - FLAT TOP MH - INSTALL STANDARD FLAT TOP MAN HOLE (DETAIL SHEET 14)

- SANITARY SEWER CONSTRUCTION NOTES**
- 8" SAN - INSTALL 8" PVC SANITARY SEWER LINE
 - 4" SAN GRINDER LAT - INSTALL 4" PVC SANITARY SEWER LINE FOR GRINDER PUMPS PER DETAIL 8-GP SHEET 16
 - SAN MH - INSTALL STANDARD SEWER MANHOLE-EXTERNALLY SEAL ALL MANHOLES
 - INSTALL STANDARD SANITARY SEWER CLEANOUT
 - INSTALL STANDARD 4" SANITARY SEWER LATERAL 5' MIN. FROM P.L.
 - EX SAN MH - CORE NEW HOLE & CONNECT NEW SEWER MAIN TO EXISTING MANHOLE
 - SEE COMPOSITE STREET AND UTILITY PLAN FOR SANITARY SEWER LATERAL TABLE

- GENERAL CONSTRUCTION NOTES**
- 32" WIDE ST - CONSTRUCT 32" WIDE ASPHALT PAVEMENT STREET (SEE TYPICAL SECTION)
 - 32" SHED ST - CONSTRUCT 32" WIDE ASPHALT PAVEMENT SHED STREET (SEE TYPICAL SECTION)
 - 5' SIDEWALK - CONSTRUCT 5' WIDE ATTACHED SIDEWALK WHERE MATCHED (SEE TYP. ST. SECTION)
 - HALF-WIDTH ST - CONSTRUCT HALF-WIDTH (20' MIN) W/ CURB & GUTTER (SEE TYPICAL STREET SECTION)
 - F-1 RAMP - INSTALL TYPE F-1 RAMP (DETAIL SHEET 14)
 - F-3 RAMP - INSTALL TYPE F-3 RAMP (DETAIL SHEET 14)

DURING THE 1ST 2" LIFT OF ASPHALT A SCHEDULE 40 SHEEP SHALL BE INSTALLED SO TO PREVENT PONDING AROUND THE CATCH BASINS.



CURB RETURN (B)

R =	20.00'
A =	83°01'33"
L =	35.52'

IPC	STA 13410.38	OFF 16.00 RL	F' STREET	FL-234.95
1/4	STA 13412.50	OFF 17.33 RL	F' STREET	FL-235.02
PAC 1	STA 13422.61	OFF 19.87 RL	F' STREET	FL-235.30
MID	STA 13424.36	OFF 21.43 RL	F' STREET	FL-235.34
PAC 2	STA 13425.80	OFF 22.93 RL	F' STREET	FL-235.38
3/4	STA 13428.60	OFF 25.91 RL	F' STREET	FL-235.92
PT	STA 13430.67	OFF 28.90 RL	F' STREET	FL-235.57
PVC	STA 13431.22	OFF 29.93 RL	F' STREET	FL-235.49

NOTE: MEASUREMENTS INDICATED ARE TO CURB FLOWLINE.

CURB RETURN (E)

R =	20.00'
A =	95°01'33"
L =	35.52'

IPC	STA 13463.80	OFF 16.00 RL	F' STREET	FL-236.81
1/4	STA 13476.04	OFF 17.71 RL	F' STREET	FL-236.19
PAC 1	STA 13469.73	OFF 21.20 RL	F' STREET	FL-237.80
MID	STA 13468.32	OFF 22.82 RL	F' STREET	FL-237.76
PAC 2	STA 13467.63	OFF 24.17 RL	F' STREET	FL-237.72
3/4	STA 13464.16	OFF 25.83 RL	F' STREET	FL-237.39
PT	STA 13463.20	OFF 26.80 RL	F' STREET	FL-237.10
PVC	STA 13464.34	OFF 28.04 RL	F' STREET	FL-236.87
PVC	STA 13465.31	OFF 29.50 RL	F' STREET	FL-236.75
PVC	STA 13465.92	OFF 32.95 RL	F' STREET	FL-236.74

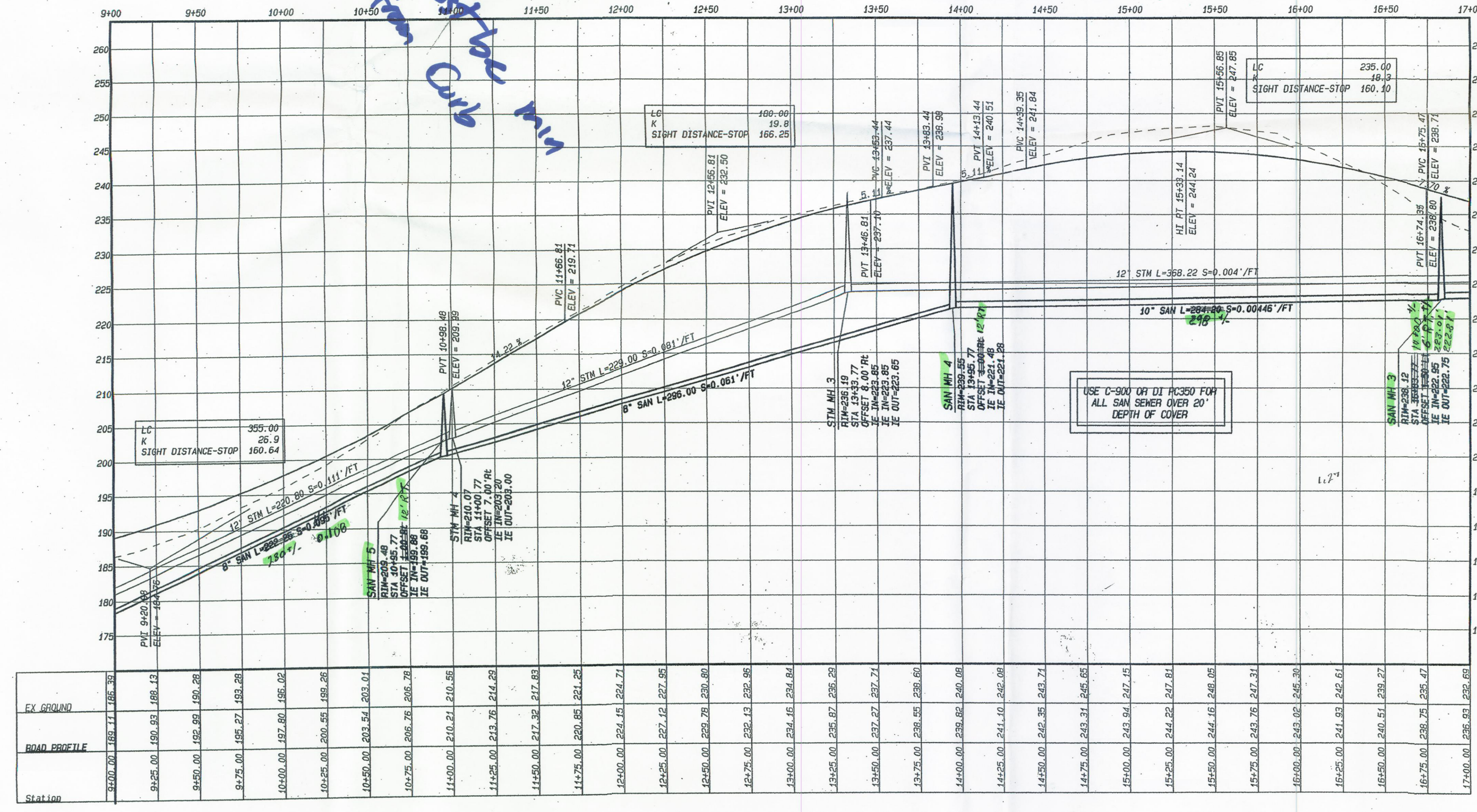
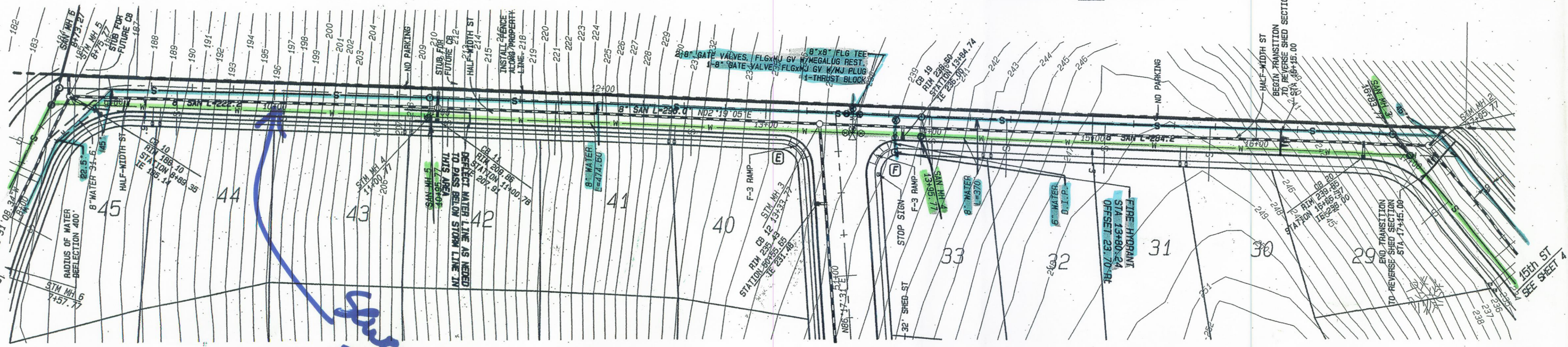
NOTE: MEASUREMENTS INDICATED ARE TO CURB FLOWLINE.

APPROVED FOR CONSTRUCTION

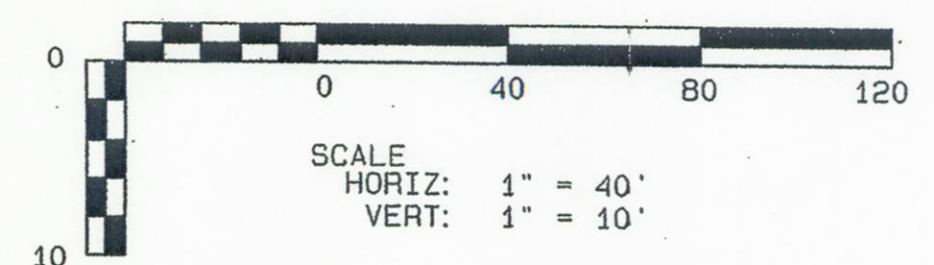
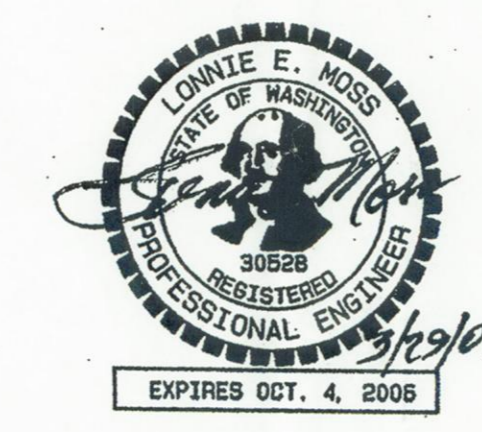
City of WASHINGTON

Signature: [Signature]

Date: 2-2-20



EX GROUND	9+00.00	189.11	186.35
ROAD PROFILE	9+25.00	190.93	188.13
	9+50.00	192.89	190.28
	9+75.00	195.27	193.28
	10+00.00	197.80	195.02
	10+25.00	200.55	199.26
	10+50.00	203.54	203.01
	10+75.00	206.76	206.78
	11+00.00	210.21	210.55
	11+25.00	213.75	214.29
	11+50.00	217.32	217.83
	11+75.00	220.85	221.25
	12+00.00	224.45	224.71
	12+25.00	227.12	227.55
	12+50.00	229.78	230.80
	12+75.00	232.43	232.98
	13+00.00	234.16	234.84
	13+25.00	235.87	236.20
	13+50.00	237.27	237.71
	13+75.00	238.55	238.60
	14+00.00	239.82	240.08
	14+25.00	241.10	242.08
	14+50.00	242.35	243.71
	14+75.00	243.31	245.65
	15+00.00	243.94	247.15
	15+25.00	244.22	247.81
	15+50.00	244.16	248.05
	15+75.00	243.76	247.31
	16+00.00	243.02	245.38
	16+25.00	241.93	242.61
	16+50.00	240.51	239.27
	16+75.00	238.75	235.47
	17+00.00	236.93	232.65



DEVELOPER:
SUN COUNTRY HOMES
2401 N MAIN ST.
BATTLE GROUND, WA 98604

HANNA'S FARM
F AVENUE PLAN & PROFILE

DATE	
REVISION	

DATE: 29 Mar 2006
CONTACT PERSON: Sarah E. Moss
PHONE: 360-940-8800
CHECKED BY: Lorraine E. Moss

PROJECT MANAGER: Sarah E. Moss
ENGR. OF RECORD: Lorraine E. Moss
REG. NO: 30828
SIGNED BY: Sarah E. Moss
REG. NO: 8579

MOSS & ASSOCIATES, INC.
717 NE 61ST STREET, SUITE 202
VANCOUVER, WA 98665
(360) 260-9400 FAX (360) 260-3509

SHEET
3
20

SANITARY SEWER CONSTRUCTION NOTES

- 8" SAN - INSTALL 8" PVC SANITARY SEWER LINE
- 4" SAN GRINDER LAT - INSTALL 4" PVC SANITARY SEWER LINE FOR GRINDER PUMPS PER DETAIL 8-GP SHEET 14
- MAN MH - INSTALL STANDARD SEWER MANHOLE - EXTERNALLY SEAL ALL MANHOLES
- SM MH - INSTALL STANDARD SEWER CLEANOUT
- INSTALL STANDARD 4" SANITARY SEWER LATERAL 5' MIN. FROM P.L.
- EX SAN MH - CORE NEW HOLE & CONNECT NEW SEWER MAIN TO EXISTING MANHOLE
- SEE COMPOSITE STREET AND UTILITY PLAN FOR SANITARY SEWER LATERAL TABLE
- 300 - CORE DRILL EX SAN AND USE A BOOTED CONNECTION SUCH AS "MORN-H-SEAL". BOTTOM OF MANHOLE SHALL BE RE-CHANNELLED.

GENERAL CONSTRUCTION NOTES

- 32" WIDE ST - CONSTRUCT 32" WIDE ASPHALT PAVEMENT STREET (SEE TYPICAL SECTION)
- 32" SHED ST - CONSTRUCT 32" WIDE ASPHALT PAVEMENT SHED STREET (SEE TYPICAL SECTION)
- 5' SIDEWALK - CONSTRUCT 5' WIDE ATTACHED SIDEWALK WHERE HATCHED (SEE TYP. ST. SECTION)
- HALF-WIDTH ST - CONSTRUCT HALF-WIDTH (20' MIN) W/ CURB & GUTTER (SEE TYPICAL STREET SECTION)
- F-1 RAMP - INSTALL TYPE F-1 RAMP (DETAIL SHEET 14)
- F-3 RAMP - INSTALL TYPE F-3 RAMP (DETAIL SHEET 14)

CURB RETURN (I)

R = 20.00
A = 89.48.38"
L = 33.43
PC STA 0424.68 OFF 36.01 LL D' STREET FL=174.65
P1/4 STA 0426.50 OFF 22.26 LL D' STREET FL=174.54
PAC 1 STA 0428.40 OFF 22.24 LL D' STREET FL=174.45
MID STA 0429.74 OFF 20.92 LL D' STREET FL=174.41
PAC 2 STA 0431.16 OFF 19.17 LL D' STREET FL=174.37
P3/4 STA 0432.48 OFF 18.21 LL D' STREET FL=174.33
PT STA 0434.00 OFF 14.00 LL D' STREET FL=174.16

NOTE: MEASUREMENTS INDICATED ARE TO CURB FLOWLINE.

CURB RETURN (II)

R = 20.00
A = 72.12.32"
L = 27.65
PC STA 0436.42 OFF 14.00 RR D' STREET FL=174.05
P1/4 STA 0438.44 OFF 16.58 RR D' STREET FL=173.91
MID STA 0439.58 OFF 17.34 RR D' STREET FL=173.71
PAC 2 STA 0426.27 OFF 18.53 RR D' STREET FL=173.75
PAC 3 STA 0421.00 OFF 20.93 RR D' STREET FL=173.39
P3/4 STA 0416.20 OFF 23.28 RR D' STREET FL=173.50
PT STA 0414.47 OFF 37.68 RR D' STREET FL=173.44

NOTE: MEASUREMENTS INDICATED ARE TO CURB FLOWLINE.

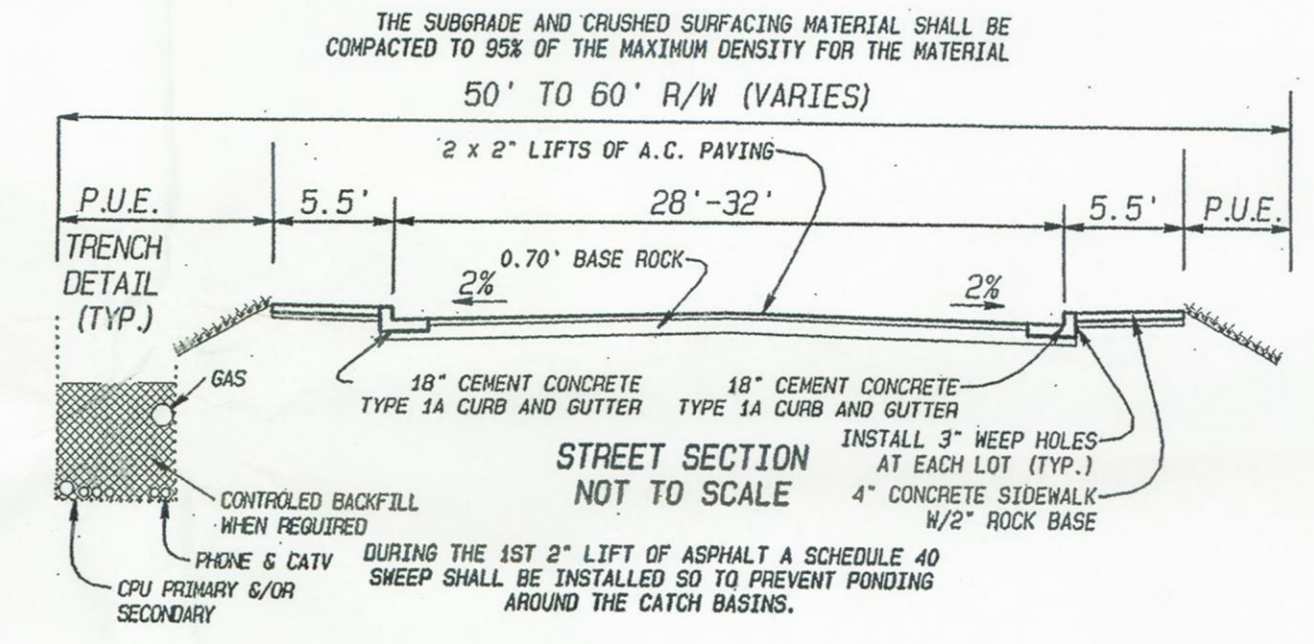
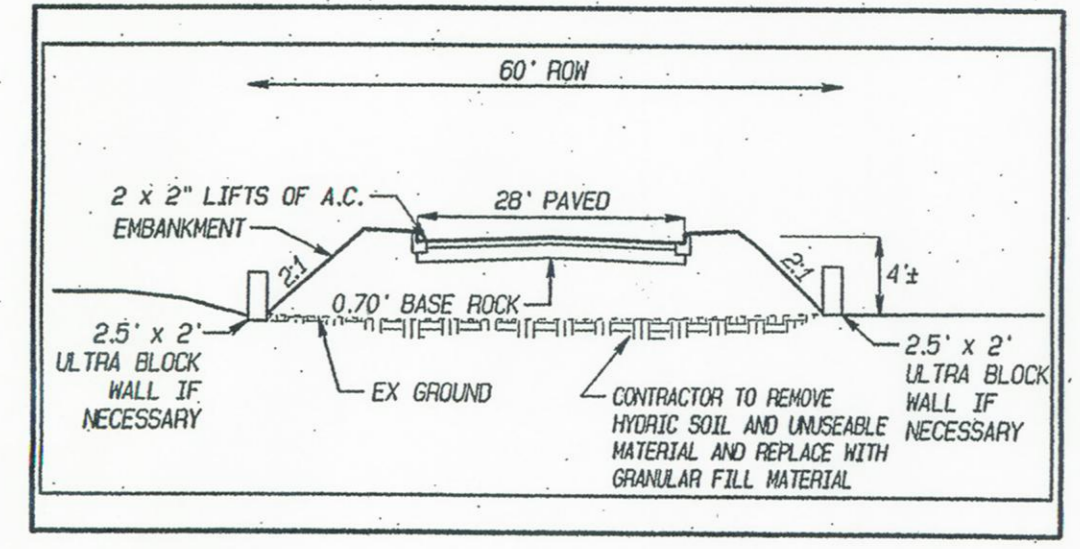
D AVENUE & 12th STREET PROFILE

- STORMWATER CONSTRUCTION NOTES**
- 12" STM - INSTALL 12" STORM LINE
 - 18" STM - INSTALL 18" STORM LINE
 - STM MH - INSTALL STANDARD 48" STORM MANHOLE (DETAIL SHEET 14)
 - CB - INSTALL STD CATCH BASIN-COMBINATION CURB/GRATE (DETAIL SHEET 14)
 - FLOW SPREADERS - INSTALL FLOW SPREADER (DETAIL SHEET 14)
 - SMALLE - INSTALL 40" WIDE BIOFILTRATION SMALLE WITH 3:1 SIDE SLOPES PER TYPICAL ON SHEET 10
 - INSTALL 4" STORM LATERAL (TYPICAL) ON EACH LOT WITH 2" X 4" BOARD AND TRACING WIRE (CONSTRUCTION NOTE NOT SHOWN FOR EACH LATERAL)
 - TRAP - INSTALL BIOSNALE SEDIMENTATION TRAP (DETAIL SHEET 9)
 - FLAT TOP MH - INSTALL STANDARD FLAT TOP MAN HOLE (DETAIL SHEET 14)

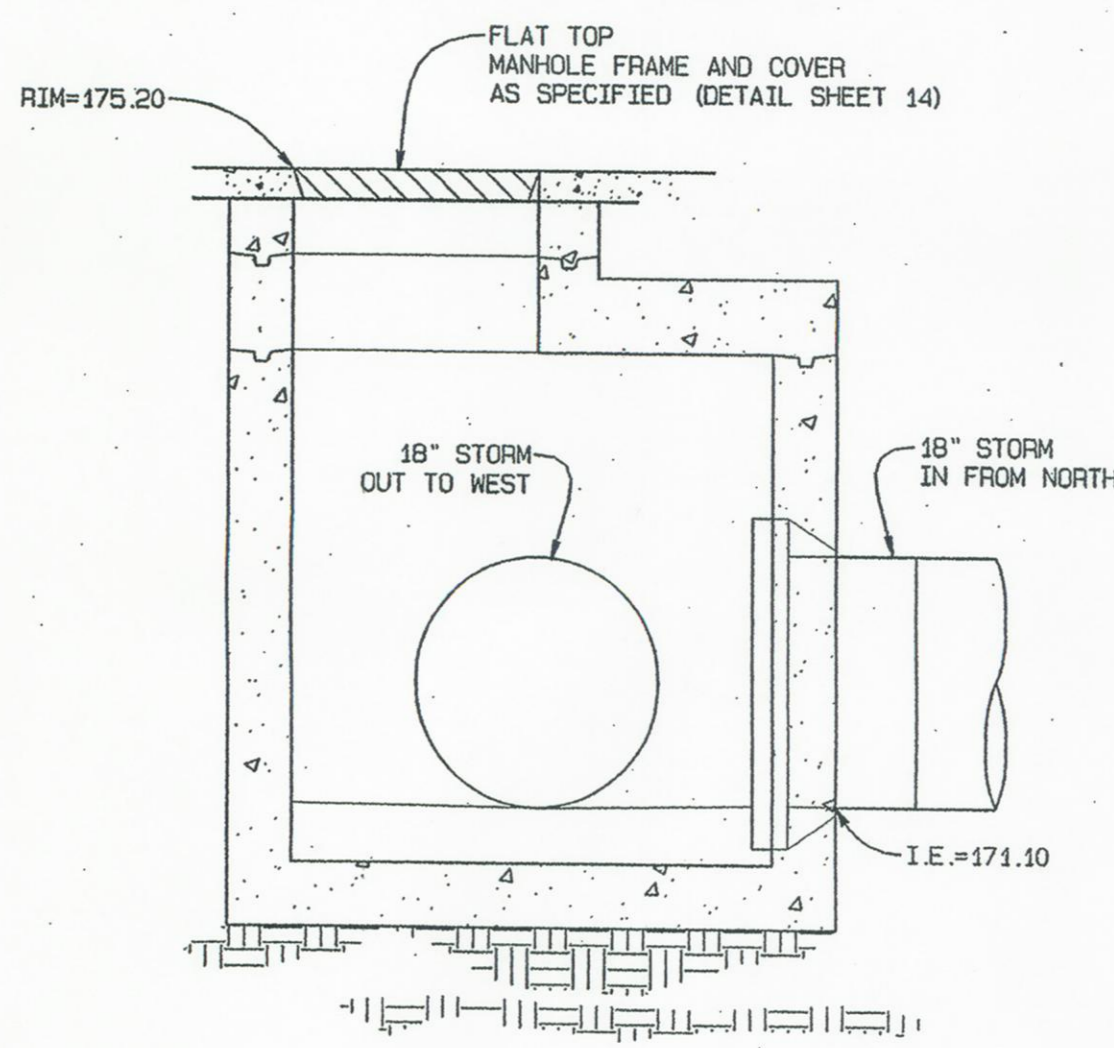
- WATER CONSTRUCTION NOTES**
- 8" WATER - INSTALL 8" WATER MAIN (0-900 P.C. 150 P/C OR DI PC350 OR EQUIV.)
 - 12" WATER - INSTALL 12" WATER MAIN (0-900 P.C. 150 P/C OR DI PC350 OR EQUIV.)
 - B.O. - INSTALL STD BLOW-OFF ASSEMBLY W/ PRE-CAST T.B.S.

- SIGNING CONSTRUCTION NOTES**
- STOP SIGN - INSTALL STOP SIGN PER MUTCD & STREET NAME SIGN
 - SPEED LIMIT SIGN - INSTALL SPEED LIMIT, 25 MPH SIGN
 - BARRICADE - INSTALL STREET BARRICADE WITH EXTENSION SIGN (DETAIL SHEET 4)
 - NO PARKING - INSTALL "NO PARKING" SIGN

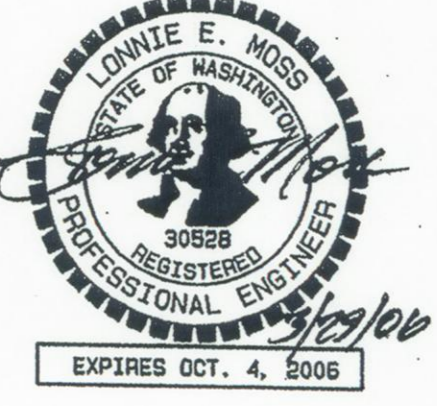
SECTION Y-Y SCALE HORIZ: 1" = 40' VERT: 1" = 10'



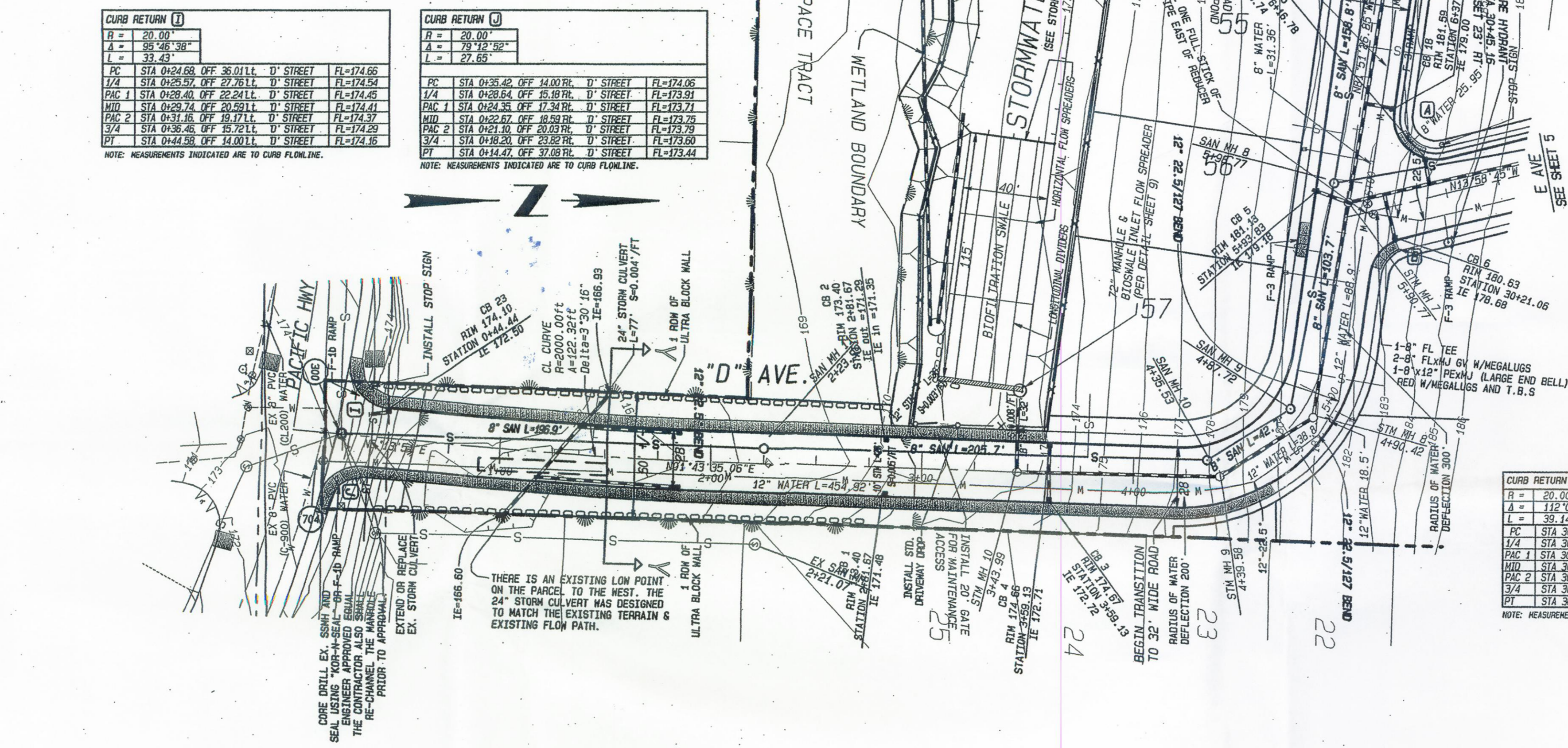
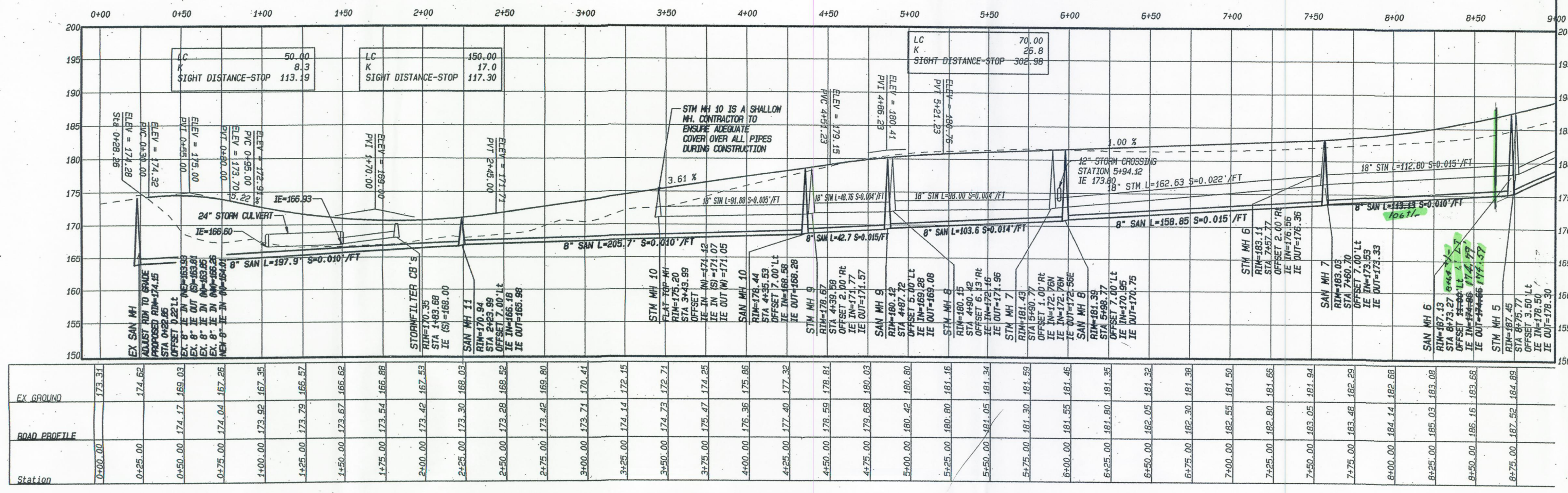
STORM MANHOLE #10 DETAIL NO SCALE



APPROVED FOR CONSTRUCTION
 Date 3-21-06



SCALE HORIZ: 1" = 40' VERT: 1" = 10'



DEVELOPER: SUN COUNTRY HOMES 2401 MAIN ST., WA 98064

HANNA'S FARM

D AVENUE & 12th STREET PLAN & PROFILE

DATE: 29 Mar 2006

PROJECT NUMBER: S0001 E. MOSS

ENGR. OF RECORD: LONTIE E. MOSS

DRAWN BY: SHAWN E. MOSS, AS

CHECKED BY: LONTIE E. MOSS

REG. NO. 30828

MOSS & ASSOCIATES, INC.

717 NE EAST STREET, SUITE 202

VANCOUVER, WA 98665

(360) 260-9400 FAX (360) 260-3509

SHEET 20

15th STREET PROFILE

CURB RETURN (B)		CURB RETURN (D)	
R = 20.00'	A = 108' 24" 31"	R = 20.00'	A = 90' 00" 00"
L = 37.84'		L = 31.42'	

LINE	STA	OFF	TO	TYPE	FL
PVC	4090.61	OFF 69.87	L.L.	E. STREET	FL=231.64
PVC	4094.06	OFF 69.81	L.L.	E. STREET	FL=231.67
PVC	4098.98	OFF 51.70	L.L.	E. STREET	FL=232.10
PVC	4102.51	OFF 42.32	L.L.	E. STREET	FL=232.49
PVC	4103.31	OFF 32.98	L.L.	E. STREET	FL=233.06
PVC	4100.88	OFF 29.81	L.L.	E. STREET	FL=233.91
PVC	4099.76	OFF 24.30	L.L.	E. STREET	FL=233.86
PVC	4096.51	OFF 22.74	L.L.	E. STREET	FL=233.89
PVC	4092.54	OFF 18.20	L.L.	E. STREET	FL=234.29
PVC	4083.54	OFF 16.00	L.L.	E. STREET	FL=236.01

NOTE: MEASUREMENTS INDICATED ARE TO CURB FLOWLINE.

SANITARY SEWER CONSTRUCTION NOTES

- 8" SAN - INSTALL 8" PVC SANITARY SEWER LINE
- 4" SAN GRINDER LAT - INSTALL 4" PVC SANITARY SEWER LINE FOR GRINDER PUMPS PER DETAIL 8-GP SHEET 16
- SAN MH - INSTALL STANDARD SEWER MANHOLE - EXTERNALLY SEAL ALL MANHOLES
- INSTALL STANDARD SANITARY SEWER CLEANOUT
- S— INSTALL STANDARD 4" SANITARY SEWER LATERAL 5' MIN. FROM P.L.
- EX SAN MH - CORE NEW HOLE & CONNECT NEW SEWER MAIN TO EXISTING MANHOLE
- SEE COMPOSITE STREET AND UTILITY PLAN FOR SANITARY SEWER LATERAL TABLE

WATER CONSTRUCTION NOTES

- 8" WATER - INSTALL 8" WATER MAIN (C-900 P.C. 150 PVC OR DI PC350 OR EQUIV.)
- 12" WATER - INSTALL 12" WATER MAIN (C-900 P.C. 150 PVC OR DI PC350 OR EQUIV.)
- B.O. - INSTALL STD BLOW-OFF ASSEMBLY W/ PRE-CAST T.B.
- 11.25" - INSTALL 8" 11.25" MJ BEND W/ MEGA LUG RESTRAINT & T.B.
- 22.5" - INSTALL 8" 22.5" MJ BEND W/ MEGA LUG RESTRAINT & T.B.
- 45" - INSTALL 8" 45" MJ BEND W/ MEGA LUG RESTRAINT & T.B.
- 90" - INSTALL 8" 90" MJ BEND W/ MEGA LUG RESTRAINT & T.B.
- INSTALL 1" STANDARD WATER SERVICE CONNECTION-TYPICAL (CONSTRUCTION NOTE NOT CALLED OUT FOR EVERY LOT)
- FIRE HYDRANT - INSTALL 8" MJ X 6" FLG TEE W/ MEGA LUG RESTRAINTS, 6" FLG X MJ VALVE W/ MEGA LUG RESTRAINTS & T.B. STUD FIRE HYDRANT ASSEMBLY WITH T.B. (ALSO SEE WATER NOTE 1)

SEE DETAIL SHEET FOR GRINDER PUMP DETAILS

GENERAL CONSTRUCTION NOTES

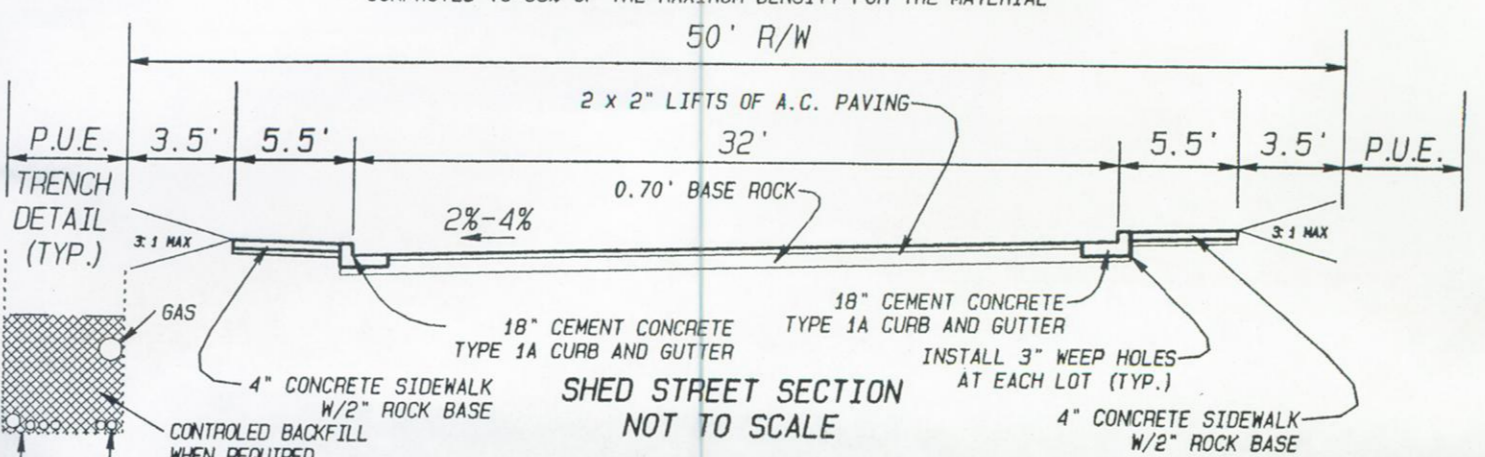
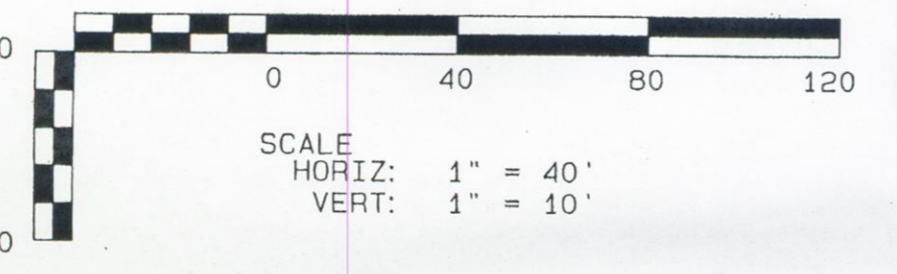
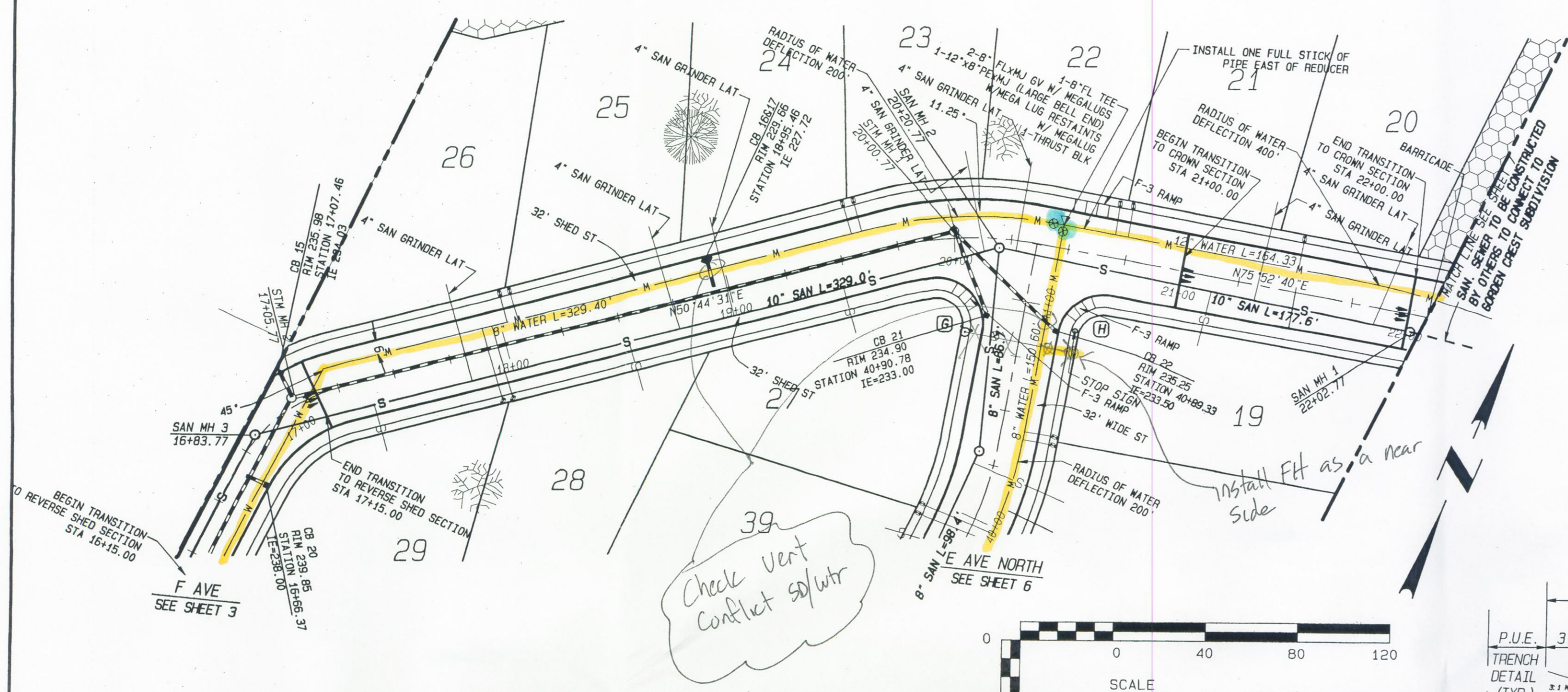
- 32" WIDE ST - CONSTRUCT 32" WIDE ASPHALT PAVEMENT STREET (SEE TYPICAL SECTION)
- 32" SHED ST - CONSTRUCT 32" WIDE ASPHALT PAVEMENT SHED STREET (SEE TYPICAL SECTION)
- 5' SIDEWALK - CONSTRUCT 5' WIDE ATTACHED SIDEWALK WHERE HATCHED (SEE TYP. ST. SECTION)
- HALF-WIDTH ST - CONSTRUCT HALF-WIDTH (20' MIN) W/ CURB & GUTTER (SEE TYPICAL STREET SECTION)
- F-1 RAMP - INSTALL TYPE F-1 RAMP (DETAIL SHEET 14)
- F-3 RAMP - INSTALL TYPE F-3 RAMP (DETAIL SHEET 14)

SIGNING CONSTRUCTION NOTES

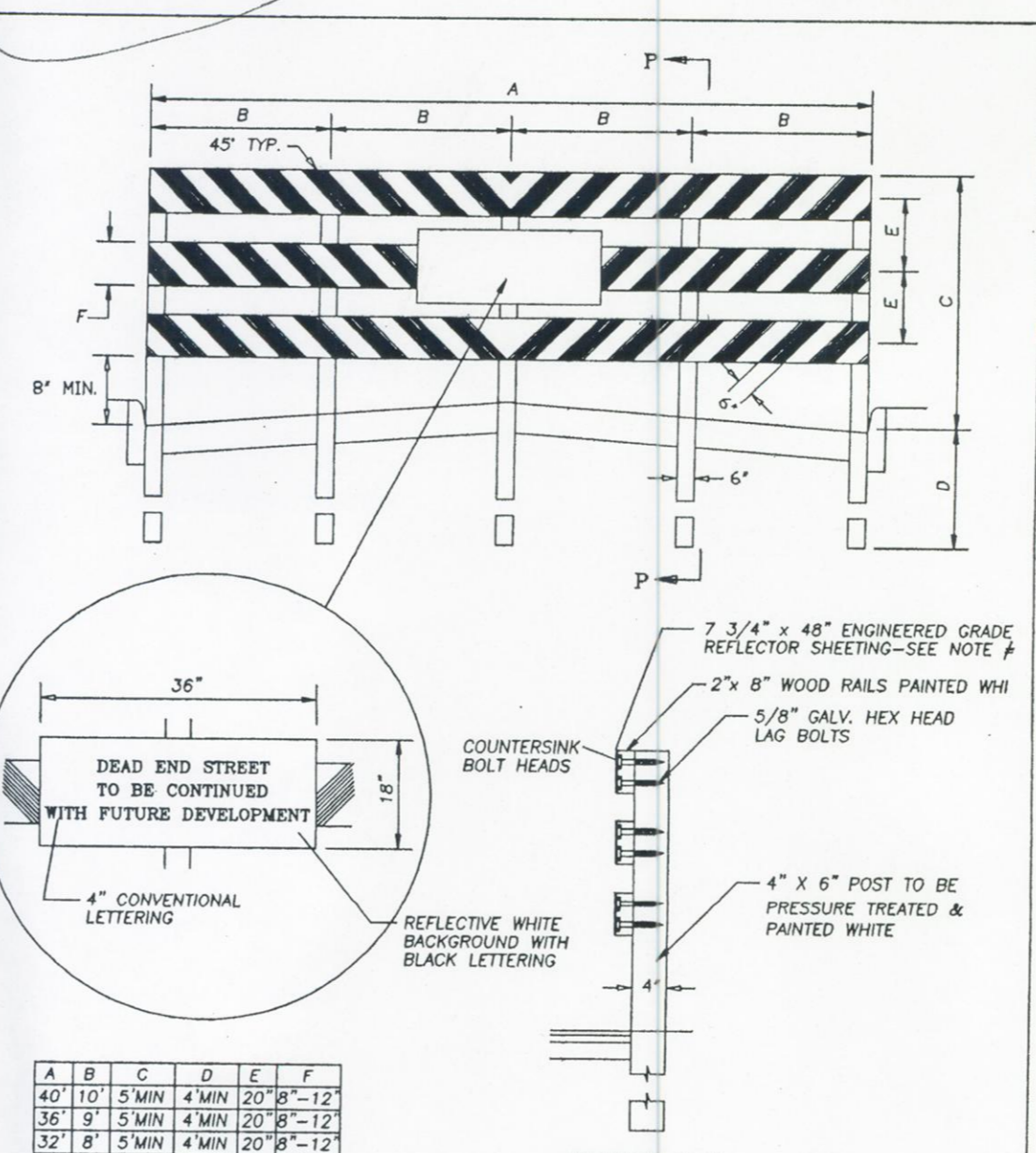
- STOP SIGN - INSTALL STOP SIGN PER MUTCD & STREET NAME SIGN
- SPEED LIMIT SIGN - INSTALL SPEED LIMIT, 25 MPH, SIGN
- BARRIER - INSTALL STREET BARRIER WITH EXTENSION SIGN (DETAIL SHEET 4)
- NO PARKING - INSTALL "NO PARKING" SIGN

STORMWATER CONSTRUCTION NOTES

- 12" STM - INSTALL 12" STORM LINE
- 18" STM - INSTALL 18" STORM LINE
- STM MH - INSTALL STANDARD 48" STORM MANHOLE (DETAIL SHEET 14)
- CB - INSTALL STD CATCH BASIN-COMBINATION CURB/GRADE (DETAIL SHEET 14)
- FLOW SPREADERS - INSTALL FLOW SPREADER (DETAIL SHEET 14)
- SWALE - INSTALL 4" WIDE BIOFILTRATION SWALE WITH 3:1 SIDE SLOPES PER TYPICAL ON SHEET 10
- TRAP - INSTALL BIOSWALE SEDIMENTATION TRAP (DETAIL SHEET 9)
- FLAT TOP MH - INSTALL STANDARD FLAT TOP MAN HOLE (DETAIL SHEET 14)



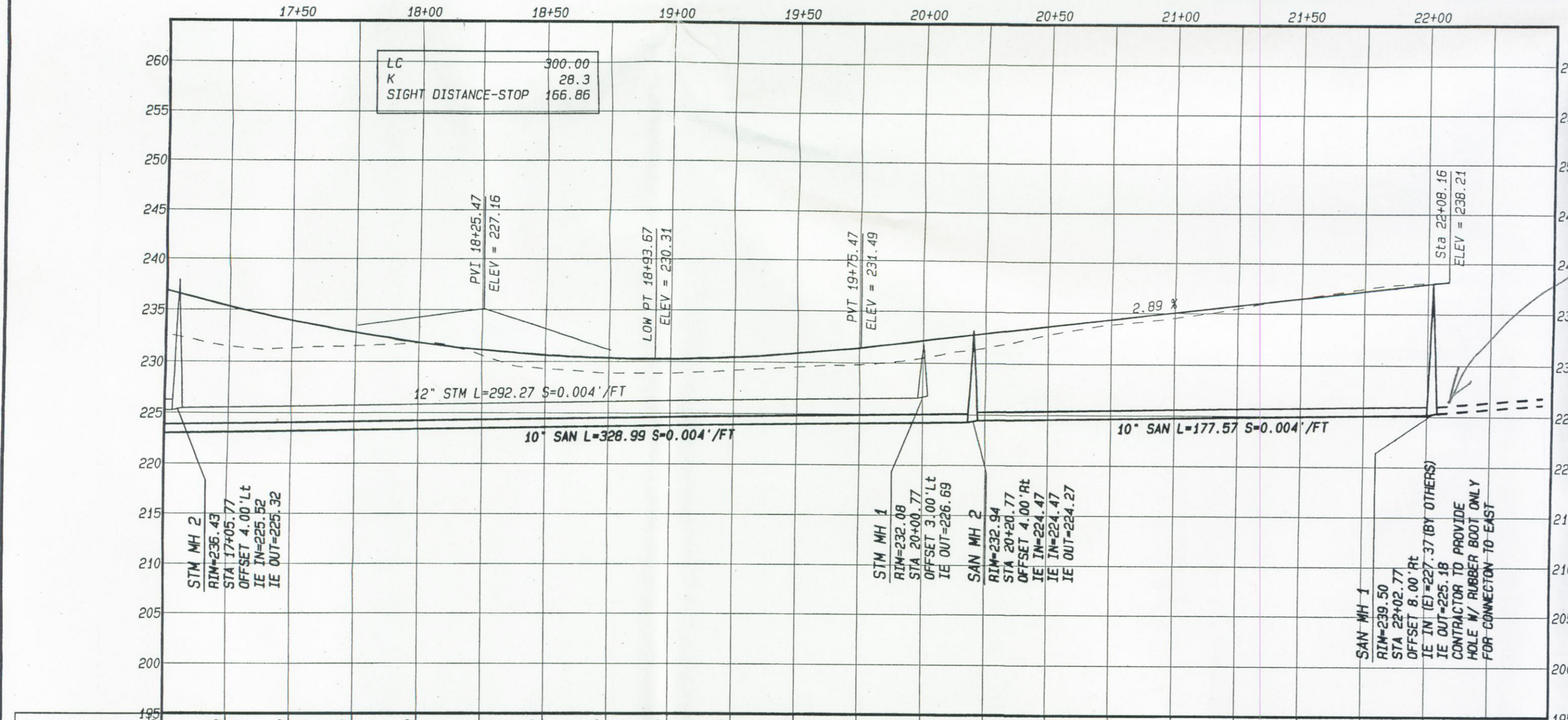
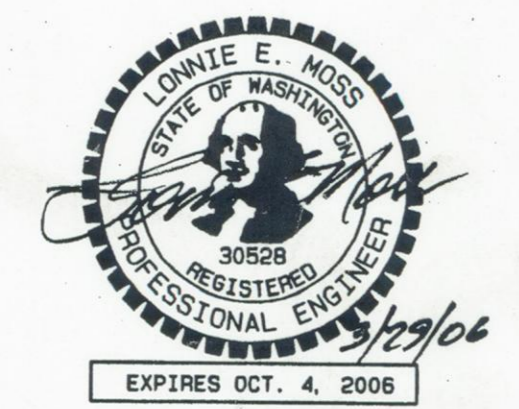
Need to plug east core hole until Garden Crest connects



NOTES:
 1. ENGINEERED GRADE REFLECTOR SHEETING TO BE 240 GAUGE H38 ALLOY WITH ALUMINE 1200 CONVERSION COATING. STRIPING SHALL BE ALTERNATING ORANGE AND WHITE STRIPES 6" IN WIDTH AT A 45° ANGLE. REFLECTIVE SHEETING MUST BE SECURELY FASTENED TO THE 2x8 PLANKS USING GALVANIZED NAILS OR SCREWS.
 2. THIS BARRICADE SHALL CONFORM TO SECTION 6F-60, MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

NO.	REVISIONS	DATE	BY
1	STANDARD		
2	F22		

APPROVED FOR CONSTRUCTION
 Clark Public Utilities - Water
 Signature: [Signature] Date: 3-21-06



Station	EX GROUND	ROAD PROFILE
17+00.00	236.93	236.93
17+25.00	235.33	231.46
17+50.00	233.95	231.32
17+75.00	232.80	231.54
18+00.00	231.86	231.79
18+25.00	231.14	230.61
18+50.00	230.65	229.34
18+75.00	230.37	228.92
19+00.00	230.32	228.32
19+25.00	230.49	229.22
19+50.00	230.67	229.59
19+75.00	231.49	229.86
20+00.00	232.20	230.50
20+25.00	232.92	231.55
20+50.00	233.61	232.82
20+75.00	234.37	233.64
21+00.00	235.09	234.53
21+25.00	235.81	235.52
21+50.00	236.53	236.57
21+75.00	237.25	237.52
22+00.00	237.97	238.09
22+25.00	238.61	238.21

DEVELOPER:
 SUN COUNTRY HOMES
 2401 W MAIN ST.
 BATTLE GROUND, WA 98604

HANNA'S FARM
 15th STREET PLAN & PROFILE

DATE	REVISION

DATE: 29 Mar 2006
 CONTACT PERSON: Samue E. Moss
 DRAWN BY: Samue E. Moss, AB
 CHECKED BY: Lonnie E. Moss

PROJECT MANAGER: Samue E. Moss
 ENGR. OF RECORD: Lonnie E. Moss
 REG. NO: 30828
 SIGNATURE OF RECORD: [Signature]
 REG. NO: 8579

MOSS & ASSOCIATES, INC.
 717 NE 61ST STREET, SUITE 202
 VANCOUVER, WA 98665
 (360) 260-9400 FAX (360) 260-3509

SHEET
 4
 20

E AVENUE PROFILE

- GENERAL CONSTRUCTION NOTES**
- 32" WIDE ST - CONSTRUCT 32" WIDE ASPHALT PAVEMENT STREET (SEE TYPICAL SECTION)
 - 32" SHED ST - CONSTRUCT 32" WIDE ASPHALT PAVEMENT SHED STREET (SEE TYPICAL SECTION)
 - 5' SIDEWALK - CONSTRUCT 5' WIDE ATTACHED SIDEWALK WHERE HATCHED (SEE TYP. ST. SECTION)
 - HALF-WIDTH ST - CONSTRUCT HALF-WIDTH (20" MIN) W/ CURB & GUTTER (SEE TYPICAL STREET SECTION)
 - F-1 RAMP - INSTALL TYPE F-1 RAMP (DETAIL SHEET 14)
 - F-3 RAMP - INSTALL TYPE F-3 RAMP (DETAIL SHEET 14)

WATER CONSTRUCTION NOTES

- 8" WATER - INSTALL 8" WATER MAIN (C-900 P.C. 150 PVC OR DI PC350 OR EQUIV.)
- 12" WATER - INSTALL 12" WATER MAIN (C-900 P.C. 150 PVC OR DI PC350 OR EQUIV.)
- B.O. - INSTALL STD BLOW-OFF ASSEMBLY W/ PRE-CAST T.B.
- 11.25" - INSTALL 8" 11.25" MJ BEND W/ MEGA LUG RESTRAINT & T.B.
- 22.5" - INSTALL 8" 22.5" MJ BEND W/ MEGA LUG RESTRAINT & T.B.
- 45" - INSTALL 8" 45" MJ BEND W/ MEGA LUG RESTRAINT & T.B.
- 90" - INSTALL 8" 90" MJ BEND W/ MEGA LUG RESTRAINT & T.B.
- INSTALL 1" STANDARD WATER SERVICE CONNECTION-TYPICAL (CONSTRUCTION NOTE NOT CALLED OUT FOR EVERY LOT)
- FIRE HYDRANT - INSTALL 8" X 6" X 6" FLG TEE W/ MEGA LUG RESTRAINTS, 6" FLG X MJ VALVE W/ MEGA LUG RESTRAINTS & T.B. STD FIRE HYDRANT ASSEMBLY WITH T.B. (ALSO SEE WATER NOTE 1)

STORMWATER CONSTRUCTION NOTES

- 12" STM - INSTALL 12" STORM LINE W/ CATCH BASIN LATERAL TABLE ON SHEETS 7 & 8
- 18" STM - INSTALL 18" STORM LINE
- STM MH - INSTALL STANDARD 48" STORM MANHOLE (DETAIL SHEET 14)
- CB - INSTALL STD CATCH BASIN-COMBINATION CURB/GRADE (DETAIL SHEET 14)
- FLOW SPREADERS - INSTALL FLOW SPREADER (DETAIL SHEET 14)
- SMWLE - INSTALL 40" WIDE BIOFILTRATION SMWLE WITH 3:1 SIDE SLOPES PER TYPICAL ON SHEET 10
- S - INSTALL 4" STORM LATERAL (TYPICAL) ON EACH LOT WITH 2" X 4" BOARD AND TRACING WIRE (CONSTRUCTION NOTE NOT SHOWN FOR EACH LATERAL)
- TRAP - INSTALL BIOSWALE SEDIMENTATION TRAP (DETAIL SHEET 9)
- FLAT TOP MH - INSTALL STANDARD FLAT TOP MAN HOLE (DETAIL SHEET 14)

SIGNING CONSTRUCTION NOTES

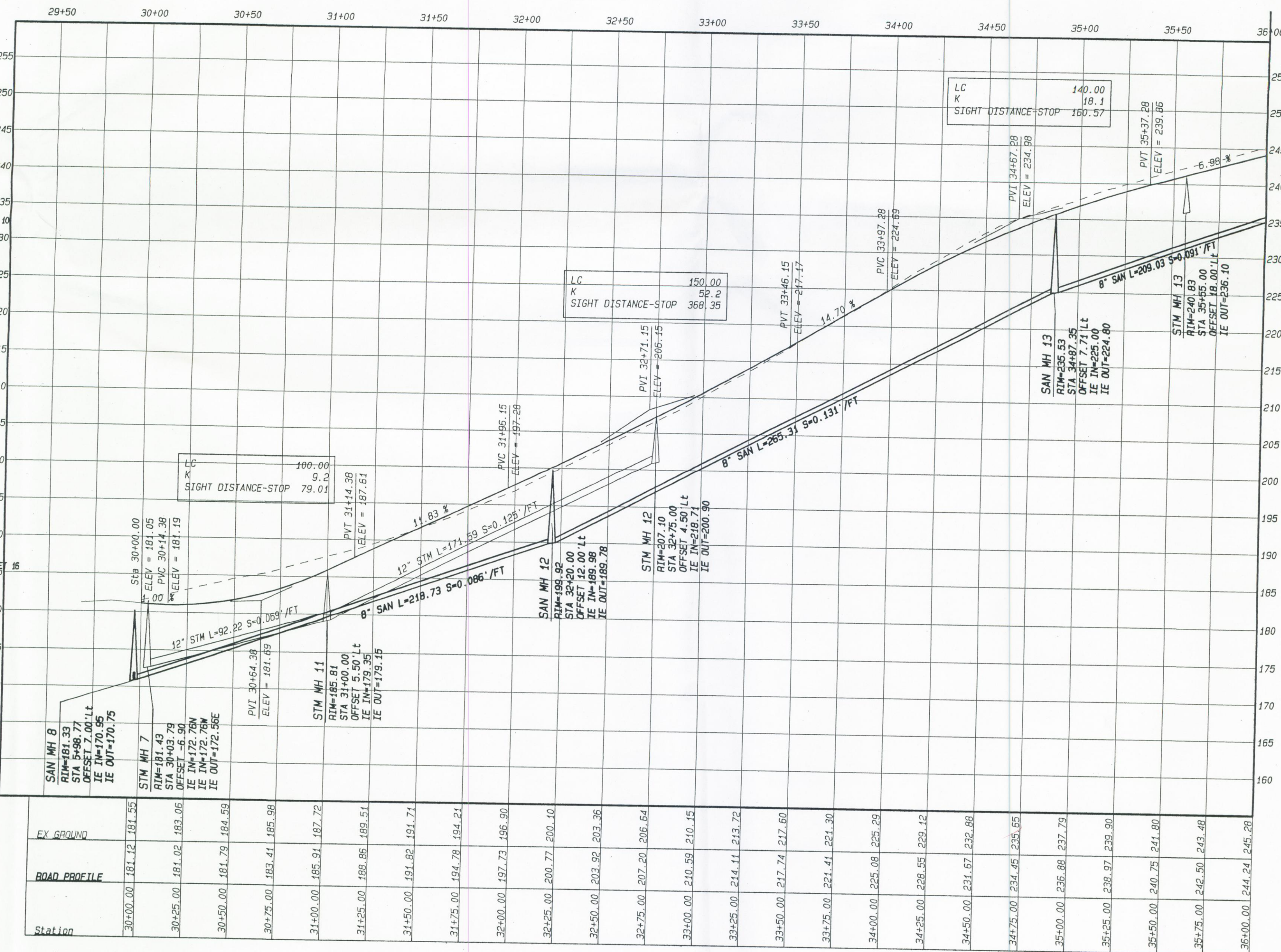
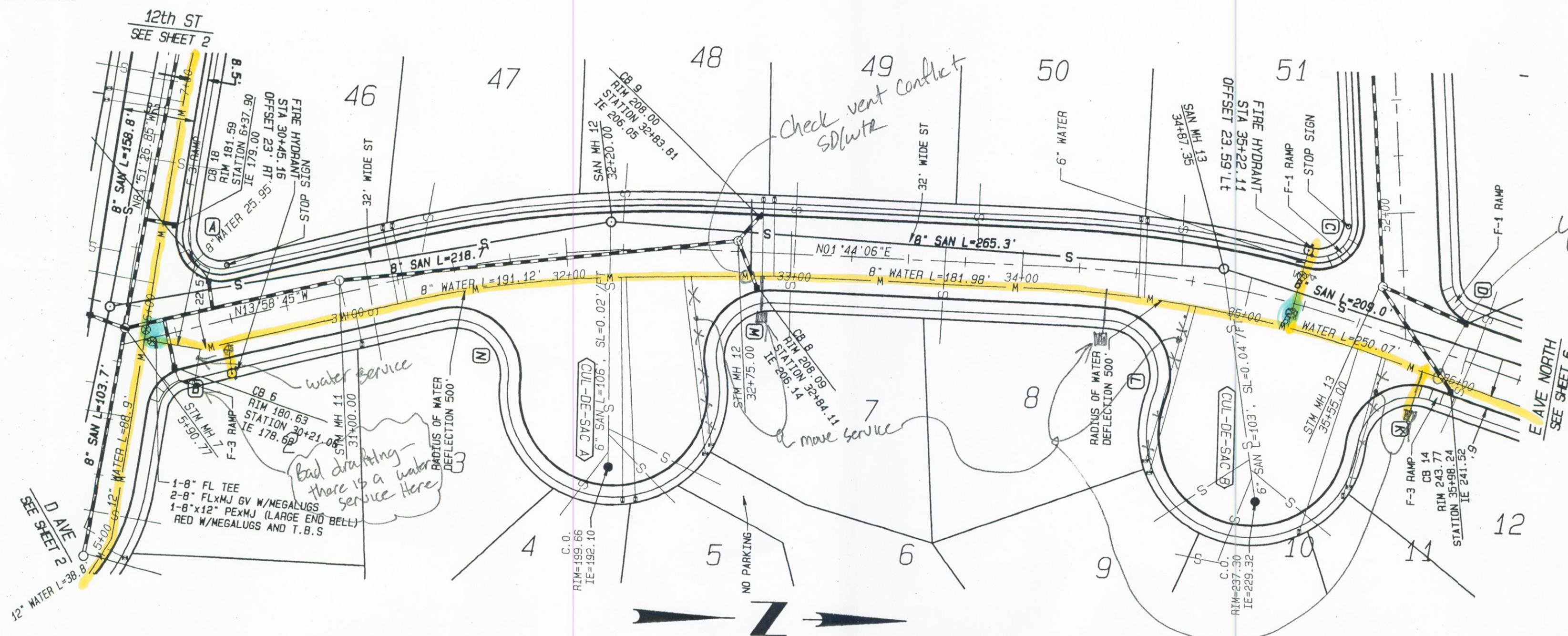
- STOP SIGN - INSTALL STOP SIGN PER MUTCD & STREET NAME SIGN
- SPEED LIMIT SIGN - INSTALL SPEED LIMIT, 25 MPH, SIGN
- BARRICADE - INSTALL STREET BARRICADE WITH EXTENSION SIGN (DETAIL SHEET 4)
- NO PARKING - INSTALL "NO PARKING" SIGN

SANITARY SEWER CONSTRUCTION NOTES

- 8" SAN - INSTALL 8" PVC SANITARY SEWER LINE
- 4" SAN GRINDER LAT - INSTALL 4" PVC SANITARY SEWER LINE FOR GRINDER PUMPS PER DETAIL 8-GP
- SAN MH - INSTALL STANDARD SANITARY SEWER MANHOLE
- EX SAN MH - CORE NEW HOLE & CONNECT NEW SEWER MAIN TO EXISTING MANHOLE
- SEE COMPOSITE STREET AND UTILITY PLAN FOR SANITARY SEWER LATERAL TABLE

WATER NOTES:

- 6" DIP WATER MAINS LEADING TO FIRE HYDRANTS LONGER THAN 1' STOCK OF PIPE SHALL HAVE ALL PIPE JOINTS MECHANICALLY RESTRAINED WITH "FIELD LOK" GASKETS OR OTHER CPU APPROVED RESTRAINTS.
- NO PIPE JOINTS WITHIN 10' OF ANY MEGA LUG RESTRAINTS



CUL-DE-SAC POINT TABLE FOR 'E' STREET

CUL-DE-SAC POINT	STATION	OFFSET	FL ELEV.
CUL-DE-SAC A			
A	32+64.76	61.77' Rt	204.54
B	32+51.26	90.97' Rt	202.08
C	32+14.86	102.05' Rt	199.74
D	31+80.81	87.12' Rt	197.31
E	31+71.84	56.70' Rt	194.92
CENTER	32+18.06	61.14' Rt	200.22

CUL-DE-SAC POINT TABLE FOR 'E' STREET

CUL-DE-SAC POINT	STATION	OFFSET	FL ELEV.
CUL-DE-SAC B			
A	35+57.72	80.83' Rt	238.97
B	35+29.08	98.88' Rt	237.36
C	34+90.81	93.44' Rt	235.58
D	34+71.17	66.74' Rt	233.94
CENTER	35+17.27	59.10' Rt	236.92

CURB RETURN (K)

R = 29.00'
A = 102°59'18"
L = 52.13'

CURB RETURN (L)

R = 29.00'
A = 106°03'42"
L = 53.68'

CURB RETURN (M)

R = 29.00'
A = 107°59'42"
L = 54.49'

CURB RETURN (N)

R = 29.00'
A = 104°54'43"
L = 53.10'

CURB RETURN (O)

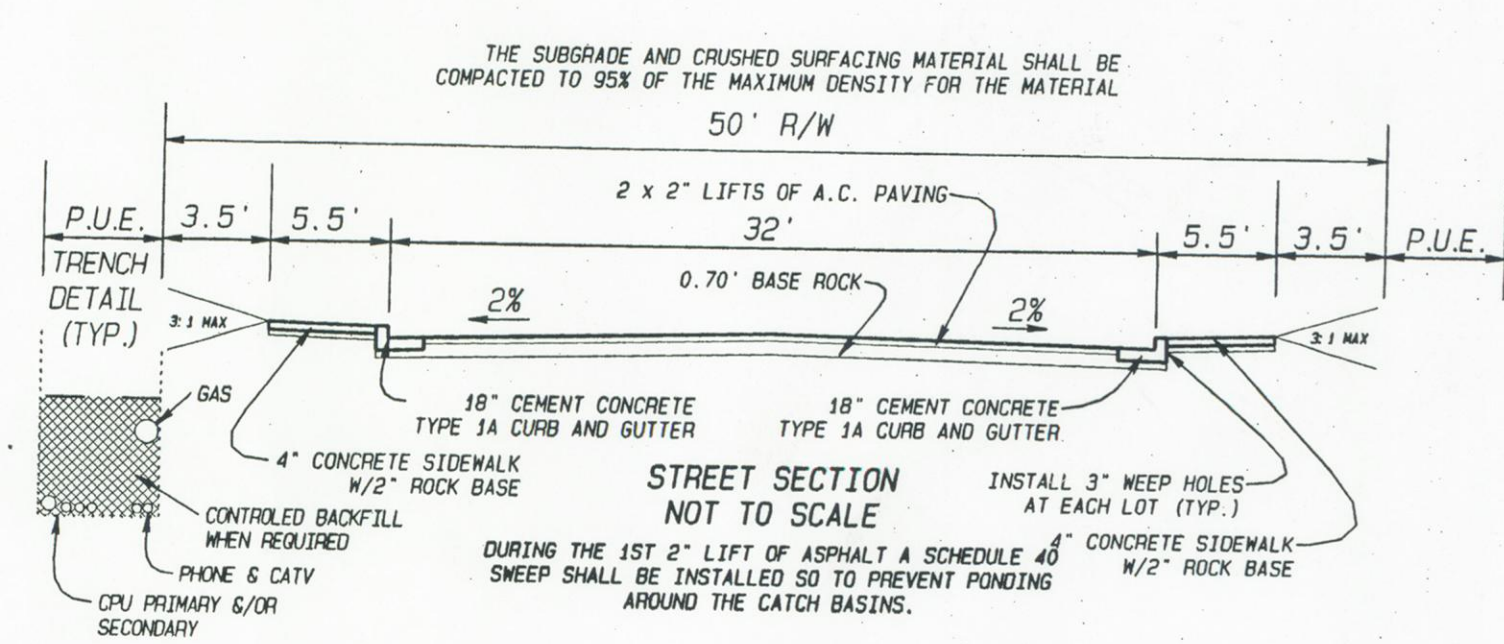
R = 29.00'
A = 102°54'43"
L = 52.74'

CURB RETURN (P)

R = 29.00'
A = 107°59'42"
L = 54.49'

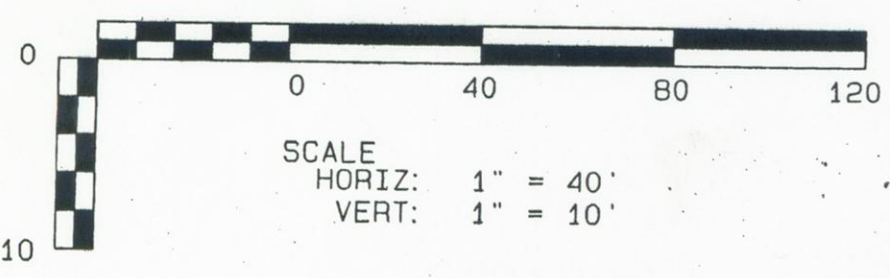
CURB RETURN (Q)

R = 29.00'
A = 104°54'43"
L = 53.10'



APPROVED FOR CONSTRUCTION
 Clerk Public Utilities - Water
 Signature: [Signature] Date: 3-31-06

PROFESSIONAL ENGINEER
 LONNIE E. MOSS
 30528
 EXPIRES OCT. 4, 2006



HANNA'S FARM
 E AVENUE PLAN & PROFILE

DEVELOPER:
 SUN COUNTRY HOMES
 2401 W MAIN ST.
 BATTLE GROUND, WA 98604

DATE: 29 Mar 2006
 CONTACT PERSON: Sammie E. Moss
 DRAWN BY: Sammie E. Moss, AB
 CHECKED BY: Lonnie E. Moss
 PROJECT NUMBER: Sammie E. Moss
 ENGR. OF RECORD: Lonnie E. Moss
 REG. NO. 30528
 SYNCH. OF RECORD: Sammie E. Moss
 REG. NO. 9579

MOSS & ASSOCIATES, INC.
 717 NE 61ST STREET, SUITE 202
 VANCOUVER, WA 98665
 (360) 260-9400 FAX (360) 260-3509

SHEET 5/20

E AVENUE PROFILE

13th STREET PROFILE

GENERAL CONSTRUCTION NOTES

- 32" WIDE ST - CONSTRUCT 32" WIDE ASPHALT PAVEMENT STREET (SEE TYPICAL SECTION)
- 32" SHED ST - CONSTRUCT 32" WIDE ASPHALT PAVEMENT SHED STREET (SEE TYPICAL SECTION)
- 5' SIDEWALK - CONSTRUCT 5' WIDE ATTACHED SIDEWALK WERE HATCHED (SEE TYP. ST. SECTION)
- HALF-WIDTH ST - CONSTRUCT HALF-WIDTH (20' MIN) W/ CURB & GUTTER (SEE TYPICAL STREET SECTION)
- F-1 RAMP - INSTALL TYPE F-1 RAMP (DETAIL SHEET 14)
- F-3 RAMP - INSTALL TYPE F-3 RAMP (DETAIL SHEET 14)

SIGNING CONSTRUCTION NOTES

- STOP SIGN - INSTALL STOP SIGN PER MUTCD & STREET NAME SIGN
- SPEED LIMIT SIGN - INSTALL SPEED LIMIT, 25 MPH SIGN
- BARRICADE - INSTALL STREET BARRICADE WITH EXTENSION SIGN (DETAIL SHEET 4)
- NO PARKING - INSTALL "NO PARKING" SIGN

STORMWATER CONSTRUCTION NOTES

- 12" STM - INSTALL 12" STORM LINE W/ CATCH BASIN LATERAL TABLE ON SHEETS 7 & 8
- 18" STM - INSTALL 18" STORM LINE
- STM MH - INSTALL STANDARD 48" STORM MANHOLE (DETAIL SHEET 14)
- CB - INSTALL STD CATCH BASIN-COMBINATION CURB/GRATE (DETAIL SHEET 14)
- FLOW SPREADERS - INSTALL FLOW SPREADER (DETAIL SHEET 14)
- SMILE - INSTALL 40" WIDE BIOFILTRATION SMILE WITH 3:1 SIDE SLOPE PER TYPICAL ON SHEET 10
- INSTALL 4" STORM LATERAL (TYPICAL) ON EACH LOT WITH 2" X 4" BOARD AND TRACING WIRE (CONSTRUCTION NOTE NOT SHOWN FOR EACH LATERAL)
- TRAP - INSTALL BIOSMILE SEDIMENTATION TRAP (DETAIL SHEET 9)
- FLAT TOP MH - INSTALL STANDARD FLAT TOP MAN HOLE (DETAIL SHEET 14)

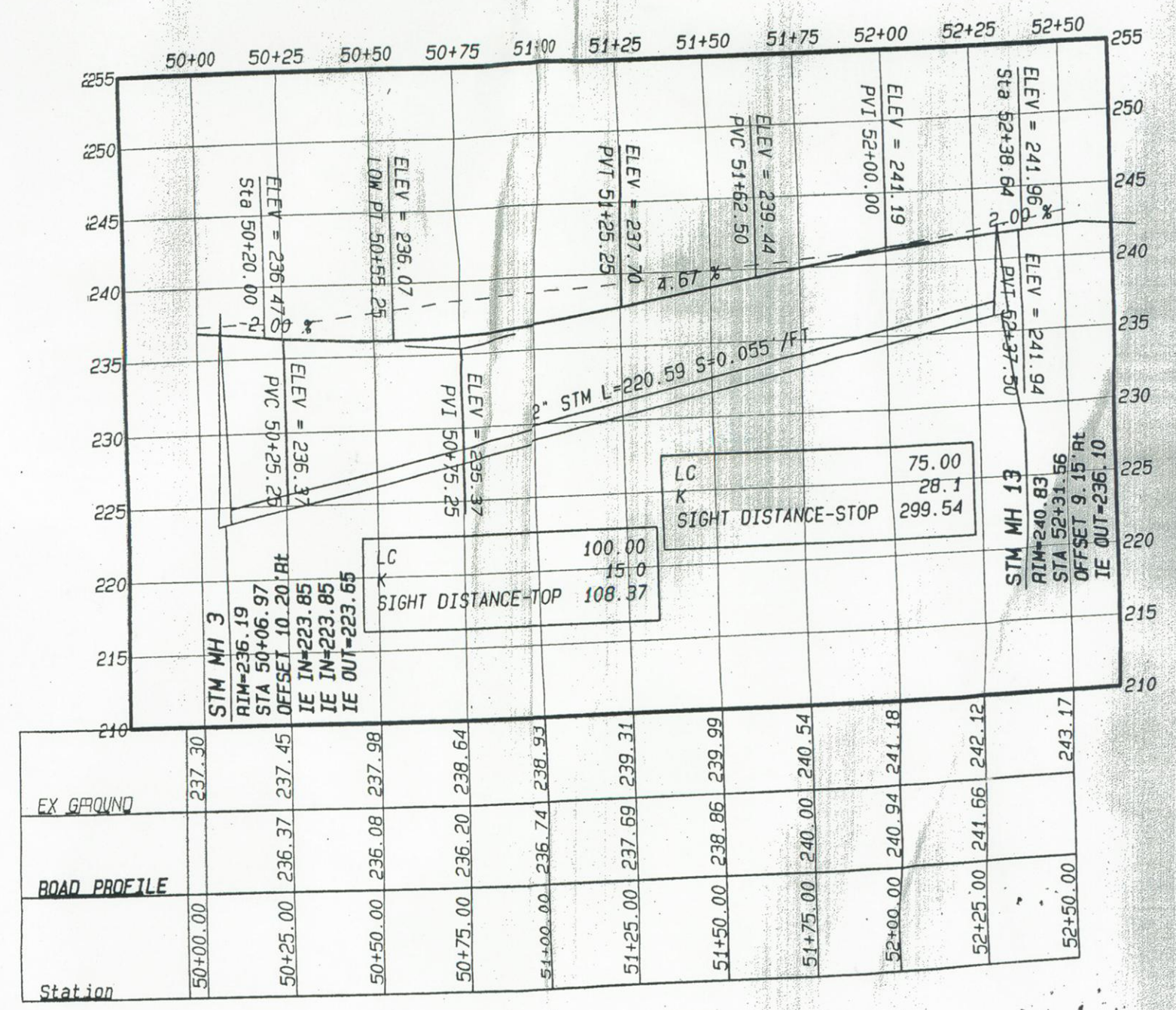
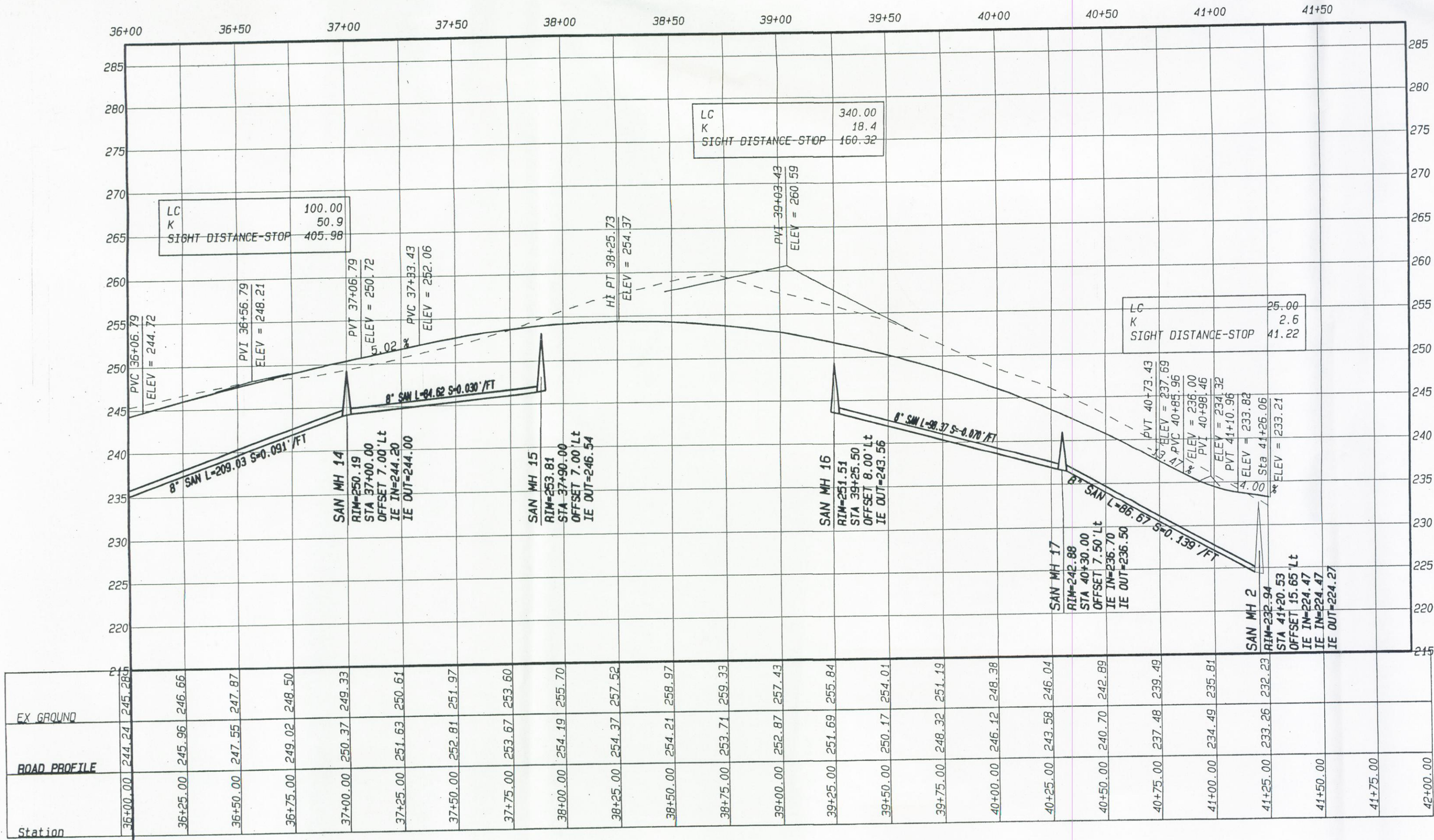
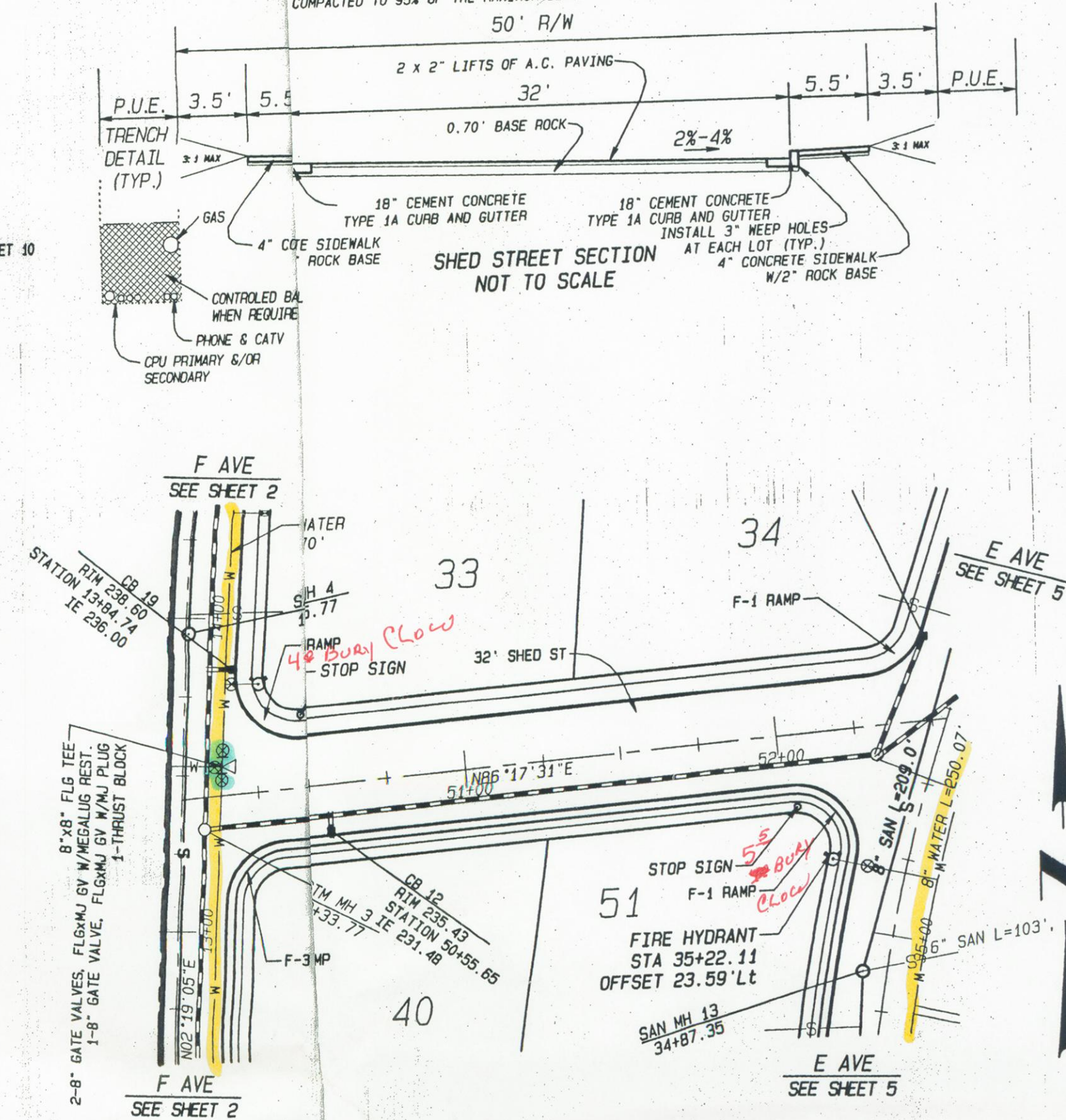
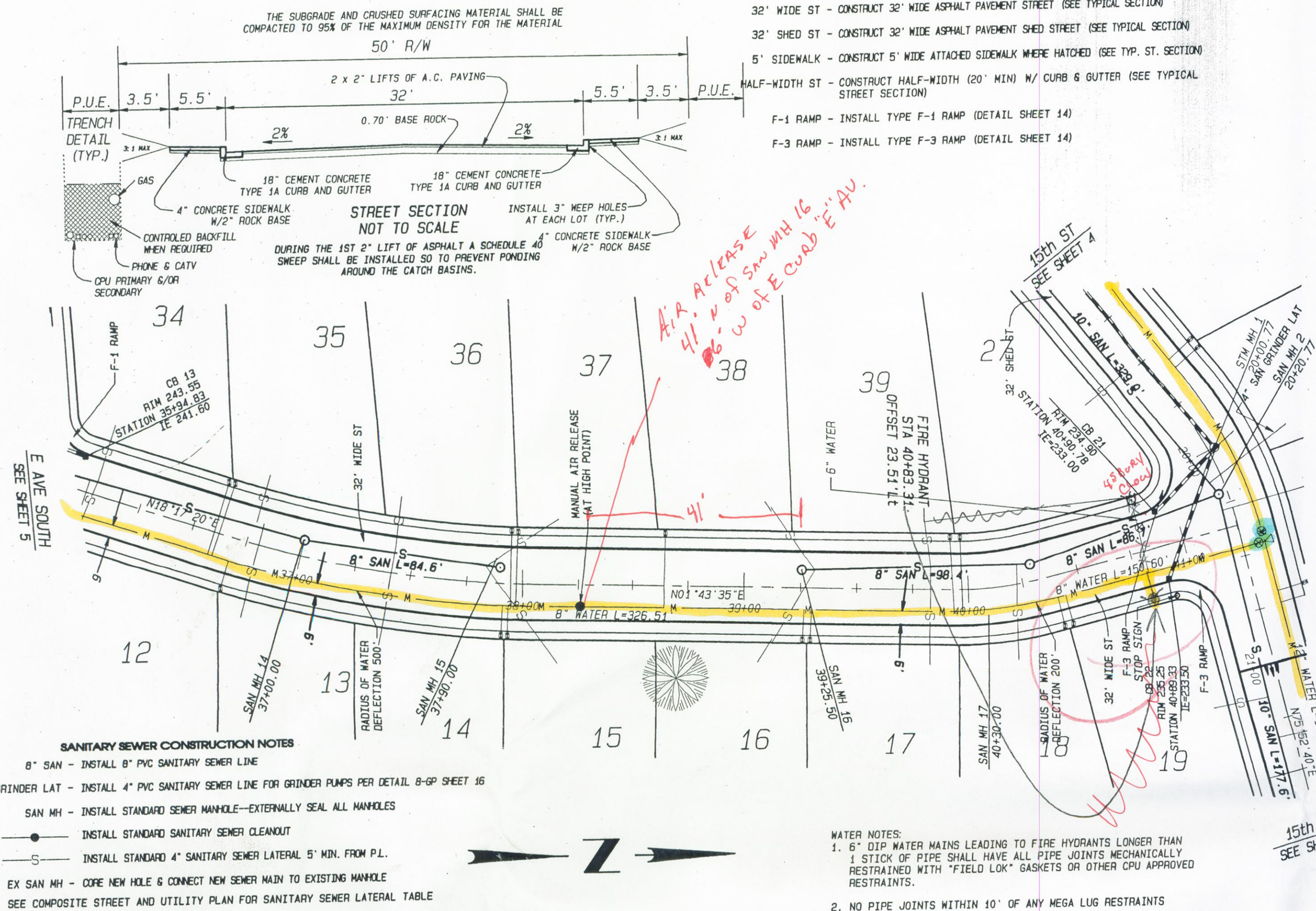
WATER CONSTRUCTION NOTES

- 8" WATER - INSTALL 8" WATER MAIN (C-900 P.C. 150 PVC OR DI PC500 OR EQUIV)
- 12" WATER - INSTALL 12" WATER MAIN (C-900 P.C. 150 PVC OR DI PC500 OR EQUIV)
- B.O. - INSTALL STD BLOW-OFF ASSEMBLY W/ PRE-CAST T.B.
- 11.25' - INSTALL 8" 11.25' MJ BEND W/ MEGA LUG RESTRAINT & T.B.
- 22.5' - INSTALL 8" 22.5' MJ BEND W/ MEGA LUG RESTRAINT & T.B.
- 45' - INSTALL 8" 45' MJ BEND W/ MEGA LUG RESTRAINT & T.B.
- 90' - INSTALL 8" 90' MJ BEND W/ MEGA LUG RESTRAINT & T.B.
- INSTALL 4" STANDARD WATER SERVICE CONNECTION-TYPICAL (CONSTRUCTION NOTE NOT CALLED OUT FOR EVERY LOT)
- FIRE HYDRANT - INSTALL 8" MJ X 6" FLG TEE W/ MEGA LUG RESTRAINTS, 6" FLG X MJ VALVE W/ MEGA LUG RESTRAINTS & T.B. STD FIRE HYDRANT ASSEMBLY WITH T.B. (ALSO SEE WATER NOTE 1)

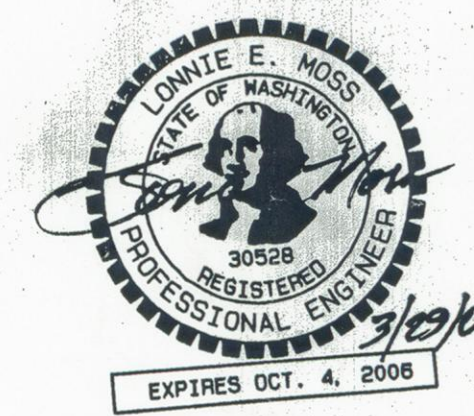
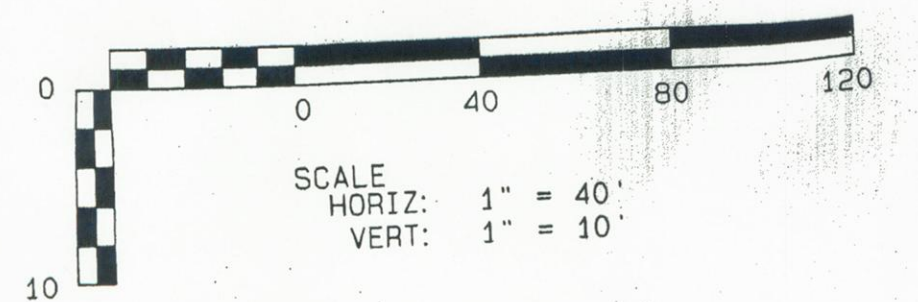
WATER NOTES:

- 6" DIP WATER MAINS LEADING TO FIRE HYDRANTS LONGER THAN 1 STICK OF PIPE SHALL HAVE ALL PIPE JOINTS MECHANICALLY RESTRAINED WITH "FIELD LOK" GASKETS OR OTHER CPU APPROVED RESTRAINTS.
- NO PIPE JOINTS WITHIN 10' OF ANY MEGA LUG RESTRAINTS

DURING THE 1ST 2" LIFT OF ASPHALT A SCHEDULE 40 SWEEP SHALL BE INSTALLED SO TO PREVENT PONDING AROUND THE CATCH BASINS.
THE SUBGRADE AND CRUSHED SURFACING MATERIAL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY FOR THE MATERIAL



APPROVED FOR CONSTRUCTION
Clark Public Utilities - Water
Signature: [Signature] Date: 3-21-06



DEVELOPER:
SUN COUNTRY HOMES
2401 W MAIN ST.
BATTLE GROUND, WA 98604

HANNA'S FARM
E AVENUE & 13th STREET PLAN & PROFILE

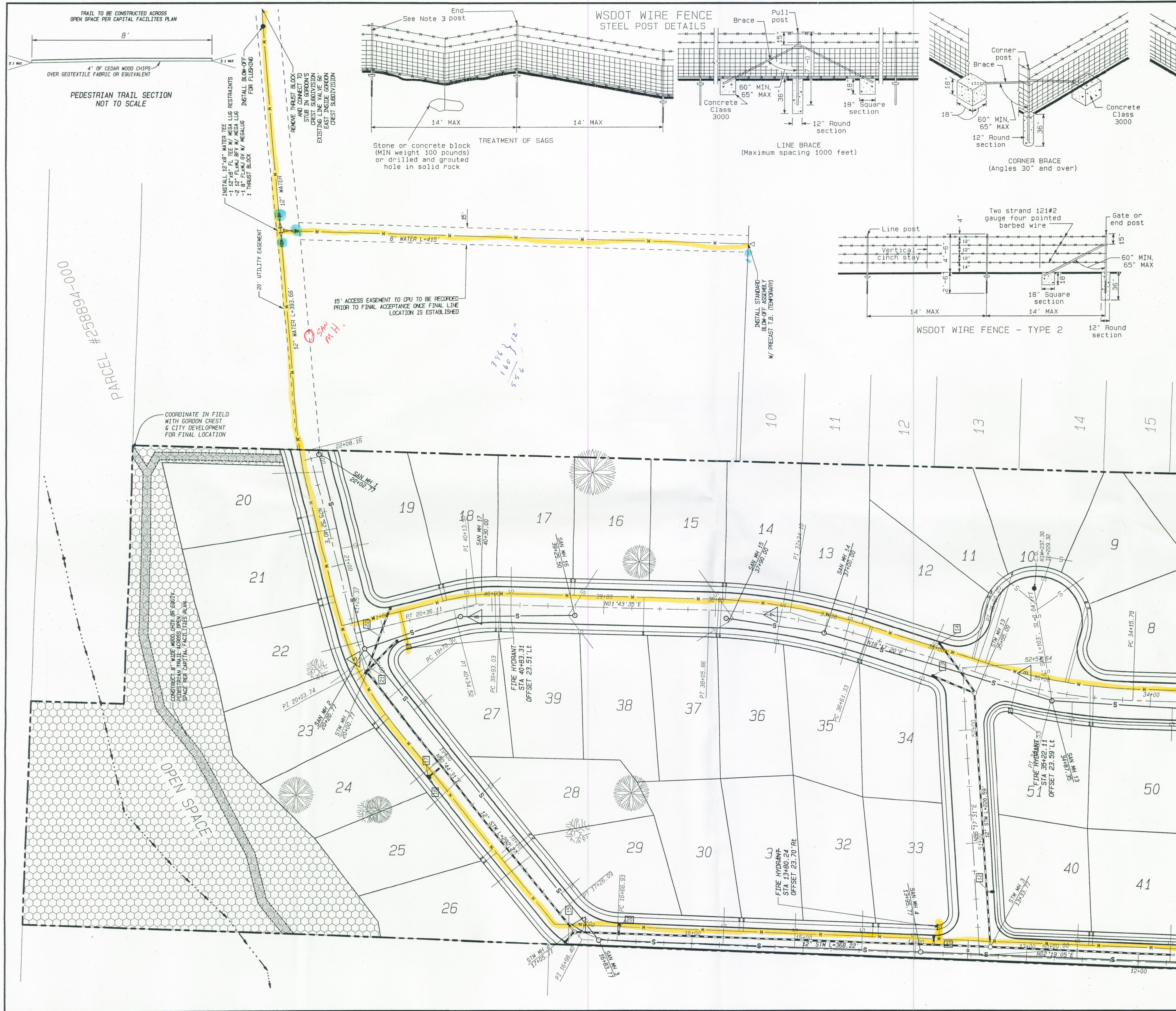
DATE	REVISION
04/11/06	1
	2
	3
	4
	5

DATE: 29 Mar 2005
PROJECT NUMBER: Sams1 E. Moss
CONTACT PERSON: Sams1 E. Moss
DRAWN BY: Sams1 E. Moss, AB
CHECKED BY: Lomnie E. Moss

MOSS & ASSOCIATES, INC.
717 NE EAST STREET, SUITE 202
TACOMA, WA 98665
(360) 260-9400 FAX (360) 260-3509

REGISTERED PROFESSIONAL ENGINEER
30928
EXPIRES OCT. 4, 2008

SHEET
6
20

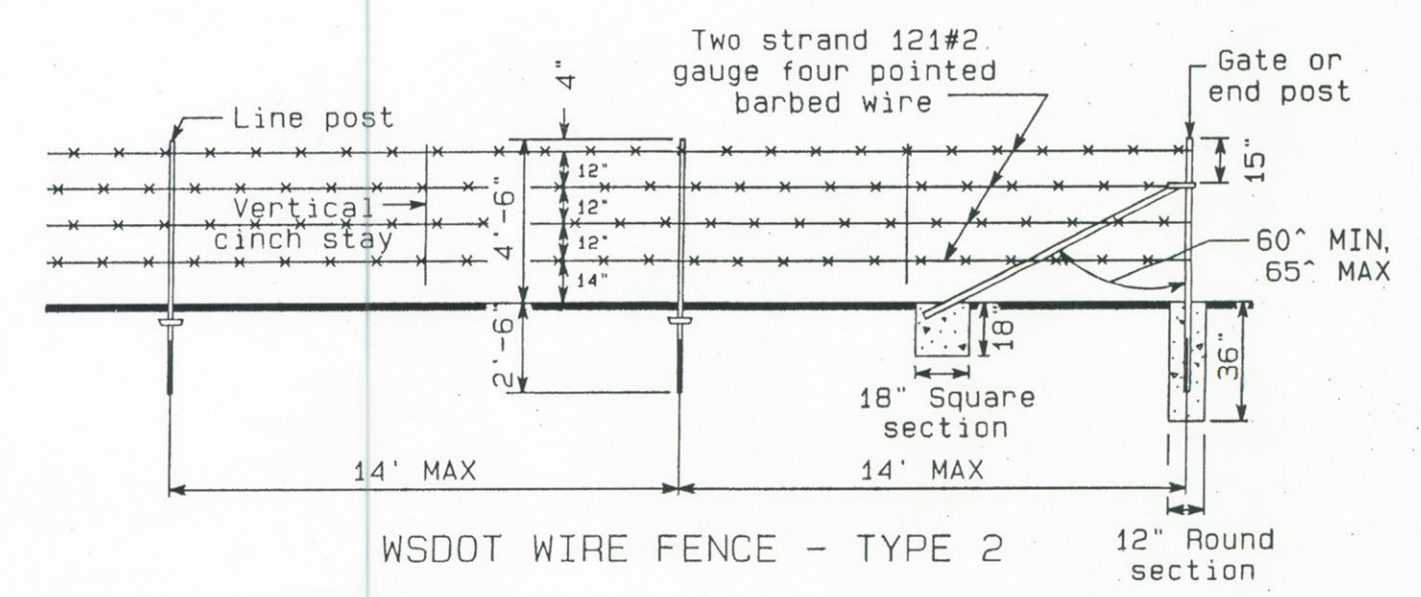
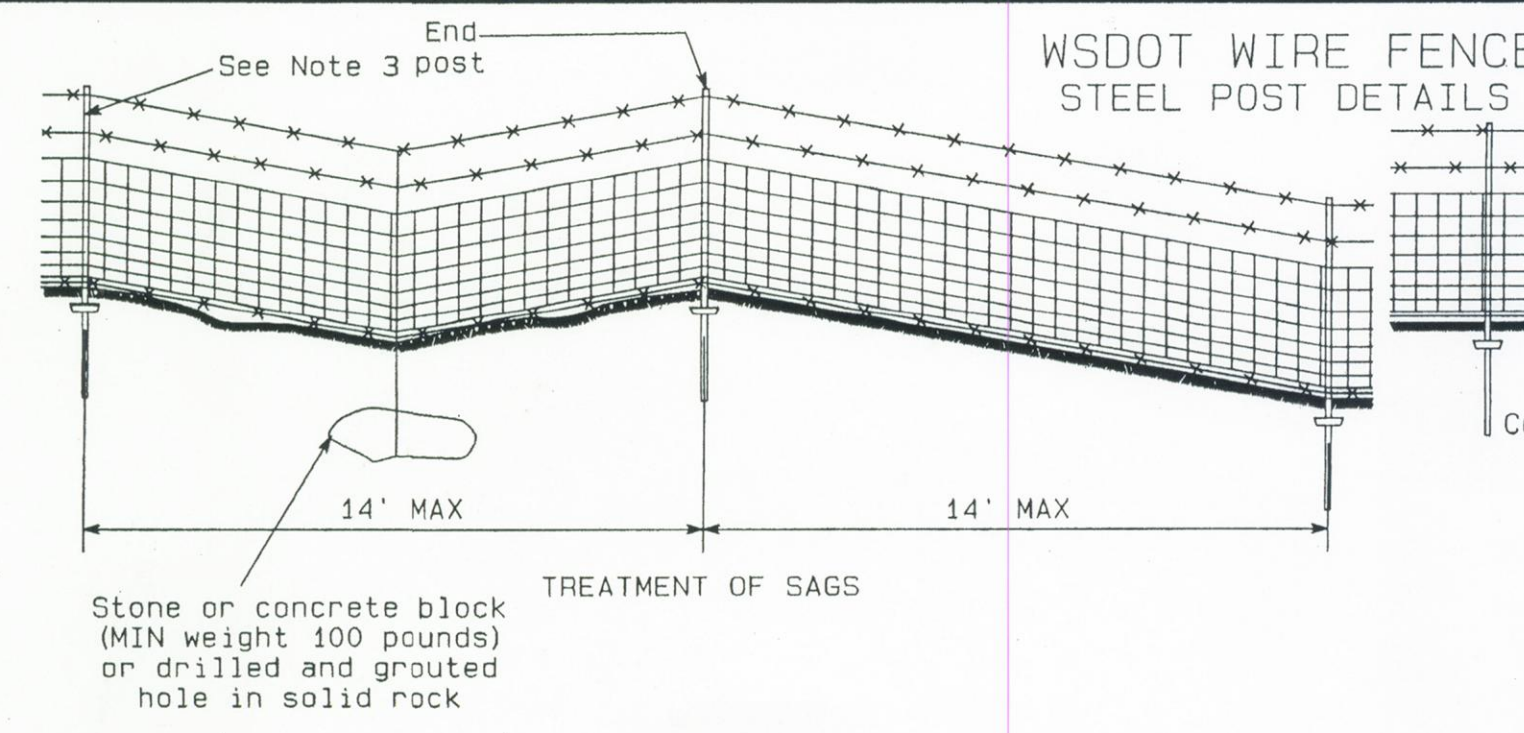
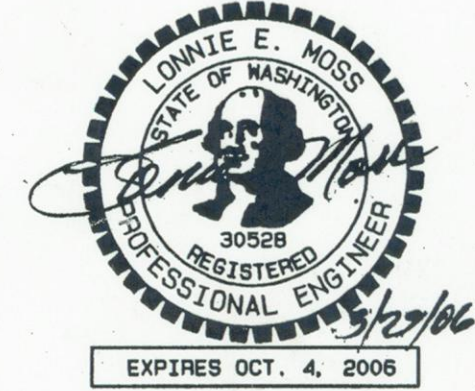


CURVE TABLE

CURVE	RADIUS	ARC	DELTA
1	70.00ft	102.12ft	83°35'02"
2	300.00ft	64.60ft	12°20'19"
3	70.00ft	87.77ft	71°50'13"
4	70.00ft	59.16ft	48°25'26"
5	150.00ft	65.81ft	25°08'09"
6	150.00ft	41.49ft	15°50'55"
7	500.00ft	44.54ft	16°33'45"
8	500.00ft	44.46ft	16°33'14"
9	500.00ft	40.13ft	15°42'32"

CATCH BASIN LATERAL TABLE					
PIPE	SIZE & MAT.	LENGTH (FT)	MIN SLOPE	RIM	INV. OUT
1	10" D.I.P.	65'	0.01	170.35	168.00
2	10" D.I.P.	46'	0.01	170.35	168.00
3	10" D.I.P.	17'	0.005	175.56	172.72
4	10" D.I.P.	13'	0.005	175.56	172.71
5	10" D.I.P.	10'	0.005	181.13	179.18
6	10" D.I.P.	21.5'	0.005	180.63	178.68
7	10" D.I.P.	12'	0.005	181.35	179.74
8	10" D.I.P.	22'	0.005	208.09	206.14
9	10" D.I.P.	10'	0.005	208.00	206.05
10	10" D.I.P.	24'	0.005	188.10	185.14
11	10" D.I.P.	12'	0.005	209.86	207.91
12	10" D.I.P.	5.5'	0.005	235.43	231.48
13	10" D.I.P.	41'	0.005	243.55	241.60
14	10" D.I.P.	51.5'	0.005	243.77	241.52
15	10" D.I.P.	8'	0.005	235.98	234.03
16	10" D.I.P.	16'	0.005	229.71	227.71
17	10" D.I.P.	16'	0.005	229.66	227.71
18	10" D.I.P.	20'	0.005	181.59	179.00
19	10" D.I.P.	10'	0.005	238.60	236.00
20	10" D.I.P.	11'	0.005	239.85	238.00
21	10" D.I.P.	39'	0.005	234.90	233.00
22	10" D.I.P.	62'	0.005	235.25	233.50

APPROVED FOR CONSTRUCTION
 Clark Public Utilities - Water
 Signature: [Signature] Date: 5/31/06



DEVELOPER: HANNA'S FARM
 SUN COUNTRY HOMES
 241 N WALKER ST.
 BATTLE GROUND, WA 98604

DATE: 29 Mar 2006
 CONTACT PERSON: Sammie J. E. Moss
 DRAWN BY: Sammie J. E. Moss, AB
 CHECKED BY: Lonnie E. Moss
 REG. NO. 30528
 PROJECT NUMBER: Sammie J. E. Moss
 ENGR. OF RECORD: Lonnie E. Moss
 REG. NO. 30528
 SIGNED BY: Sammie J. E. Moss
 SIGNED BY: Lonnie E. Moss
 REG. NO. 30528
 REG. NO. 9579

MOSS & ASSOCIATES, INC.
 717 NE 61ST STREET, SUITE 202
 VANCOUVER, WA 98665
 (360) 260-9400 FAX (360) 260-3509

SHEET 7/20
 EXPIRES OCT. 4, 2006