LA CENTER SCHOOL DISTRICT
LA CENTER NEW MIDDLE SCHOOL

La Center, WA

N

VICINITY MAP
Scale: NTS

N

LOCATION MAP
Scale: NTS

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360.834.5453
LAURA BOURLAND

VOLUME 1: CIVIL / LANDSCAPE / ARCHITECTURAL / ELECTRICAL

INDEX OF DRAWINGS

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REVISIONS

CUP SUBMITTAL

LA CENTER SCHOOL DISTRICT
LA CENTER NEW MIDDLE SCHOOL
2001 E LOCKWOOD CREEK ROAD, LA CENTER, WA 98629

LA CENTER School District

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NAC NO	121-18009
DRAWN	JVM
CHECKED	BJH
DATE	10-23-2018

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Proposed Sanitary Reducer	
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Proposed Water 45° Bend W/ TB	
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PROPOSED LINETYPE LEGEND
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Proposed Centerline
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Proposed End of Pavement
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Proposed Right-Of-Way
Proposed Sawcut Line
Proposed Score Line
Proposed Setback
Proposed Sidewalk
Proposed Wall
Proposed Wetland Buffer
Proposed Wetland Perimeter

EXISTING LINETYPE LEGEND
Existing Sanitary Sewer Pipe
Existing Storm Sewer Pipe
Existing Water Pipe
Existing Centerline
Existing Contour
Existing Curb
Existing Curb & Gutter
Existing Fence
Existing Fiber Optic Line
Existing Flow Line
Existing Gas Line
Existing Gravel Road
Existing Lot Line
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Existing Paint Stripe
Existing Property Line
Existing Quarter Section
Existing Railroad
Existing Right-Of-Way
Existing Telephone Line
Existing Underground Utility Line
Existing Utility Easement
Existing Wall
Existing Wetland Buffer
Existing Wetland Perimeter

PBS CIVIL ENGINEERING STANDARD ABBREVIATIONS					
A		**F**		**P**	
Ac	Acres	FF	Finished Floor Elevation	PT	Point
AD	Area Drain	FG	Finish Grade	PT	Point Of Tangency
APPD	Approved	FH	Fire Hydrant	PVC	Polyvinylchloride
ASSY	Assembly	FL	Flow Line	PVI	Point Of Vertical Intx
AVE	Avenue	FLG	Flange	**R**	
B		FM	Force Main	R	Radius
BC	Back Of Curb	FT	Foot/Feet	RAD	Radius
BF	Butterfly	**G**		RD	Road
BLVD	Boulevard	G	Natural Gas	REQD	Required
BM	Benchmark	GND	Ground	REV	Revision
BO	Blowoff	GRD	Grade	ROW	Right Of Way
BOP	Beginning Of Project	GV	Gate Valve	RR	Railroad
BOT	Bottom	**H**		RT	Right
BR	Begin Curb Return	HDPE	High Density Polyethylene	**S**	
BVC	Begin Vertical Curve	HMA	Hot Mix Asphalt	S	South
BW	Bottom Of Wall	HORIZ	Horizontal	S=	Slope Equals
		HW	High Water Elevation	SCHED	Schedule
C		HWY	Highway	SD	Storm Drain
C&G	Curb And Gutter	HYD	Hydrant	SDMH	Storm Drain Manhole
CB	Catch Basin	**I**		SE	Southeast
CCI	Combination Curb Inlet	IE	Invert Elevation	SECT	Section
CCW	Counter-Clockwise	INTX	Intersection	SF	Square Feet
CEM	Cement	INV	Invert	SHLDR	Shoulder
CF	Cubic Feet	IPS	Iron Pipe Size	SHT	Sheet
CHK	Check	IRR	Irrigation Water	SLV	Sleeve
CI	Curb Inlet	**L**		SPEC	Specification
CIP	Cast In Place	L	Length	SS	Sanitary Sewer
CIR	Circle	LAT	Lateral	SSMH	Sanitary Sewer Manhole
CL	Centerline	LF	Linear Feet	ST	Street
CL	Class	LT	Left	ST W	Storm Water
CMP	Corrugated Metal Pipe	LUM	Luminaire	STA	Station
CO	Cleanout	**M**		STD	Standard
COMB	Combination	MAX	Maximum	SVC	Service
COMP	Compaction	MB	Mail Box	SW	Sidewalk
CONC	Concrete	MH	Manhole	SW	Southwest
CONST	Construction	MIN	Minimum	SYM	Symbol
CPE	Corrugated Polyethylene	MISC	Miscellaneous	**T**	
CT	Court	MJ	Mechanical Joint	T	Tangent
CY	Cubic Yard	**N**		TB	Thrust Block
D		N	North	TBM	Temp Benchmark
Δ	Delta	NA	Not Applicable	TC	Top Of Curb
D	Depth	NO or #	Number	TEL	Telephone
DCVA	Double Check Valve Assembly	NE	Northeast	TEMP	Temporary
DEMO	Demolition	NIC	Not In Contract	TOP	Top Of Manhole Rim Elevation
DET	Detail	NTS	Not To Scale	TOPO	Topography
Ø or DIA	Diameter	NW	Northwest	TP	Test Pit
DI or DIP	Ductile Iron Pipe	**O**		TV	Cable Television
DR	Drive	OHP	Overhead Power	TW	Top Of Wall
DS	Downspout	**P**		TYP	Typical
DW	Drywell	PAVT	Pavement	**U**	
DWY	Driveway	PC	Point Of Curvature	UGP	Underground Power
DS	Downspout	PCC	Point Of Compound Curvature	UTIL	Utility
		PCC	Portland Cement Concrete	**V**	
E		PE	Plain End	VC	Vertical Curve
E	East	PH	Phase	VERT	Vertical
EG	Extg Ground	PI	Point Of Intersection	**W**	
EL	Elevation	PKWY	Parkway	W	West
ELEC	Electric	PL	Place	W/	With
EOP	End Of Project	PL	Property Line	W/O	Without
EP	Edge Of Pavement	POC	Point Of Connection	WL	Water Line
ER	End Curb Return	PP	Power Pole	WM	Water Meter
ESMT	Easement	PRC	Point Of Reverse Curve	**Y**	
EVC	End Vertical Curve	PRELIM	Preliminary	YD	Yard
EXTG	Existing	PRVC	Point Of Reverse Vertical Curve		

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CHECKED	EAP
DATE	10-18-2018

LEGEND

DD SUBMITTAL

C001

GENERAL NOTES:

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1. SURVEY DATA COLLECTED IN MAY 2018 BY OLSON ENGINEERING, INC., 222 E. EVERGREEN BOULEVARD, VANCOUVER, WA 98660, (360) 695-1385. TOPOGRAPHIC SURVEY PREPARED ON JUNE 11, 2018.

1.a. **BASIS OF BEARING:** CALCULATED BEARINGS FROM THE NE CORNER OF SECTION 2 TO THE SE CORNER OF SECTION 2 FROM HAGADORN SURVEY (7/33) REC. OCTOBER 1977.

1.b. **VERTICAL DATUM:** ELEVATIONS SHOWN HEREON ARE NGVD 1929 (ADJ. 1947), AKA CLARK COUNTY DATUM, BASED ON DIFFERENTIAL LEVEL PERFORMED FOR THE PATS OF SOUTHVIEW HEIGHTS.

2. THE WETLANDS AND STREAMS WERE FIELD TIED FROM A DELINEATION BY OLSON ENVIRONMENTAL. BUFFERS ON WETLAND AND STREAMS WERE ESTABLISHED PER THE OLSON ENVIRONMENTAL REPORT.

3. EXISTING UTILITIES SHOWN ON THE PLANS ARE PER SURFACE LOCATIONS AND RECORD DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION. IF CONFLICT EXISTS, NOTIFY THE ENGINEER AND UTILITY COMPANY. PROCEED ONLY AS DIRECTED AND PER STANDARD POLICY AND REGULATIONS (INCIDENTAL TO STORM SEWER PIPE AND OTHER UTILITY CONFLICTS).

4. ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF LA CENTER PUBLIC WORKS ENGINEERING STANDARDS FOR CONSTRUCTION.

5. BEFORE ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY, A PRE-CONSTRUCTION MEETING MUST BE HELD BETWEEN THE CITY, THE APPLICANT, THE APPLICANT'S CONSULTING ENGINEER AND CONSTRUCTION REPRESENTATIVES.

6. THE CONTRACTOR SHALL HAVE A COPY OF THESE PLANS, PROJECT SPECIFICATIONS, ADDENDA, CHANGE ORDERS AND SWPPP ON THE JOB SITE AT ALL TIMES. THE CONTRACTOR SHALL MAINTAIN AND UPDATE A FULL-SIZE SET OF AS-BUILTS AND THE SWPPP.

7. IN ACCORDANCE WITH LA CENTER MUNICIPAL CODE SECTION 9.14.010, HOURS OF PERMITTED CONSTRUCTION ARE LIMITED TO 7 A.M. AND 10 P.M. MONDAY THROUGH FRIDAY AND 9 A.M. TO 6 P.M. SATURDAY, SUNDAY AND CITY OBSERVED HOLIDAYS. EACH VIOLATION SHALL BE A CIVIL NOISE INFRACTION AND SHALL RESULT IN A $500 CIVIL FINE.

8. CALL 1-800-424-5555 (OR 811) FOR UTILITY LOCATES PRIOR TO ANY TRENCHING OPERATIONS. SEE SPECIFICATIONS.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MY INTERRUPT TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. SECTION 1-07.23 "TRAFFIC CONTROL" OF THE WSDOT STANDARD SPECIFICATIONS SHALL APPLY IN ITS ENTIRETY.

10. EXISTING UTILITIES SHOWN ON THE PLANS ARE PER SURFACE LOCATIONS AND RECORD DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION. IF CONFLICT EXISTS, NOTIFY THE ENGINEER AND UTILITY COMPANY. PROCEED ONLY AS DIRECTED AND PER STANDARD POLICY AND REGULATIONS (INCIDENTAL TO STORM SEWER PIPE AND OTHER UTILITY CONFLICTS).

11. AT THE END OF EACH DAY, THE CONTRACTOR SHALL CLEAN UP THE PROJECT AREA AND LEAVE IT IN A NEAT AND SECURED MANNER. UPON COMPLETION, THE CONTRACTOR SHALL LEAVE THE PROJECT FREE OF DEBRIS AND UNUSED MATERIAL.

12. IF EXISTING CURB AND SIDEWALK DESIGNATED TO REMAIN ARE DAMAGED, THE CURB AND/OR SIDEWALK SHALL BE REMOVED AND REPLACED TO THE ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

13. CONTRACTOR TO COORDINATE UTILITY CONNECTIONS AND RELOCATIONS WITH CLARK PUBLIC UTILITIES FOR POWER, CENTURY LINK FOR TELEPHONE, NW NATURAL FOR GAS AND COMCAST FOR CABLE TV.

14. CONTRACTOR SHALL MAINTAIN INGRESS/EGRESS FROM ALL PRIVATE PROPERTY DRIVEWAYS DURING CONSTRUCTION.

15. ALL TRENCHING EXCAVATION AND PIPE INSTALLATION SHALL CONFORM TO THE MOST CURRENT APWA/WSDOT STANDARD SPECIFICATIONS SECTION 7-08.3(1) AND SPECIAL PROVISIONS. ALL EXCESS MATERIAL FROM THE TRENCH EXCAVATION SHALL BE DISPOSED OF AT AN APPROVED SITE.

16. ALL EXISTING WATER VALVES TO BE OPERATED BY CLARK PUBLIC UTILITY PERSONNEL ONLY.

17. SHORING IS REQUIRED FOR ALL TRENCHES IN EXCESS OF 48-IN DEPTH.

18. IN THE EVENT ANY ARCHAEOLOGICAL OR HISTORIC MATERIALS ARE ENCOUNTERED DURING PROJECT ACTIVITY, WORK IN THE IMMEDIATE AREA (INITIALLY ALLOWING FOR A 100' BUFFER; THIS NUMBER MAY VARY BY CIRCUMSTANCE) MUST STOP IN ACCORDANCE WITH RCW 27.53.060, AND THE FOLLOWING ACTIONS TAKEN:

    A. ADVISE OWNER; AND

    B. IMPLEMENT REASONABLE MEASURES TO PROTECT THE DISCOVERY SITE, INCLUDING ANY APPROPRIATE STABILIZATION OR COVERING; AND

    C. TAKE REASONABLE STEPS TO ENSURE THE CONFIDENTIALITY OF THE DISCOVERY SITE; AND,

    D. TAKE REASONABLE STEPS TO RESTRICT ACCESS TO THE SITE OF DISCOVERY.

    E. THE CITY WILL NOTIFY THE CONCERNED TRIBES AND ALL APPROPRIATE COUNTY, STATE, AND FEDERAL AGENCIES, INCLUDING THE DEPARTMENT OF ARCHAEOLOGY AND HISTORIC RESERVATION.THE AGENCIES AND TRIBE(S) WILL DISCUSS POSSIBLE MEASURES TO REMOVE OR AVOID CULTURAL MATERIAL, AND WILL REACH AN AGREEMENT WITH THE PROJECT PROPONENT REGARDING ACTIONS TO BE TAKEN AND DISPOSITIONMATERIAL.IF HUMAN REMAINS ARE UNCOVERED, APPROPRIATE LAW ENFORCEMENT AGENCIES SHALL BE NOTIFIED FIRST, AND THE ABOVE STEPS FOLLOWED. IF THE REMAINS ARE DETERMINED TO BE NATIVE, CONSULTATION WITH THE AFFECTED TRIBES WILL TAKE PLACE IN ORDER TO MITIGATE THE FINAL DISPOSITION OF SAID REMAINS.SEE THE REVISED CODE OF WASHINGTON, CHAPTER 27.53, "ARCHAEOLOGICAL SITES AND RESOURCES," FOR APPLICABLE STATE LAWS AND STATUTES. SEE ALSO WASHINGTON STATE EXECUTIVE ORDER 05—05,"ARCHAEOLOGICAL AND CULTURAL RESOURCES." ADDITIONAL STATE AND FEDERAL LAW(S) MAY ALSO APPLY.

DEWATERING:

RELATIVELY SHALLOW GROUNDWATER WAS ENCOUNTERED THROUGHOUT THE SITE DURING THE GEOTECHNICAL EXPLORATIONS. DEWATERING MAY BE REQUIRED TO TEMPORARILY REDUCE THE GROUNDWATER ELEVATION TO ALLOW CONSTRUCTION OF PROPOSED BELOW-GRADE STRUCTURES, INSTALLATION OF UTILITIES, OR PLACEMENT OF STRUCTURAL FILLS.

THE CONTRACTOR SHALL FOLLOW ALL RECOMMENDATIONS IN THE GEOTECHNICAL REPORT REGARDING DEWATERING WHICH INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING: CONTRACTOR TO PREPARE AND PRESENT A DETAILED DEWATERING PLAN REVIEWED BY THE OWNER PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES REQUIRING DEWATERING. DEWATERING PLAN TO INCLUDE, AT A MINIMUM, WELL CONSTRUCTION DETAILS, PUMPING RATES, RADIUS OF INFLUENCE OF PUMPING WELLS, EFFLUENT FLOW RATES, WATER DISPOSAL LOCATIONS, OUTFALL SCOUR CONSIDERATIONS, AND ALL APPLICABLE ENVIRONMENTAL CONSIDERATIONS (SEE GEOTECHNICAL REPORT FOR FULL LIST OF RECOMMENDATIONS).

PLACEMENT OF LAYERS OF RIPRAP OR QUARRY SPALL IN LOCALIZED AREAS ON SHALLOW EXCAVATION SIDE SLOPES MAY BE REQUIRED TO LIMIT INSTABILITY.

OVER-EXCAVATION AND STABILIZATION OF PIPE TRENCHES OR OTHER EXCAVATIONS WITH IMPORTED CRUSHED AGGREGATE OR GABION ROCK MAY ALSO BE NECESSARY TO PROVIDE ADEQUATE SUBGRADE SUPPORT.

DEWATERING MAY BE MORE FEASIBLY CONDUCTED BY INSTALLING A SYSTEM OF TEMPORARY WELL POINTS AND PUMPS AROUND PROPOSED EXCAVATION AREA OR UTILITY TRENCHES. WELL PUMPS SHOULD REMAIN FUNCTIONING AT ALL TIMES DURING THE EXCAVATION AND CONSTRUCTION PERIOD. SUITABLE BACK-UP PUMPS AND POWER SUPPLIES SHOULD BE AVAILABLE TO PREVENT UNANTICIPATED SHUT-DOWN OF DEWATERING EQUIPMENT.

REVISIONS

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DRAWN	JAB/JRM
CHECKED	EAP
DATE	10-18-2018

GENERAL NOTES

DD SUBMITTAL

C002

NOTES:

THE LOCATION OF EXISTING UTILITY FACILITY HAS NOT BEEN RESEARCHED. UNDERGROUND UTILITIES SHOWN HEREON ARE FROM TIES TO UTILITY PAINT MARKS MADE IN RESPONSE TO "ONE-CALL CONCEPTS" UTILITY NOTIFICATION TICKET NO. 18203077 AND 18203068. THE SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES BY THE RESPECTIVE UTILITY OWNERS, NOR THE EXISTENCE OF BURIED OBJECTS WHICH ARE NOT SHOWN ON THIS PLAN.

UTILITIES ARE SHOWN AS MARKED BY THE ABOVE UTILITY COMPANIES.

THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE REPORT SO ALL EASEMENTS MAY NOT BE SHOWN.

FIELD WORK BY OLSON ENGINEERING, INC. FOR SURVEY WAS PREFORMED IN MAY, 2018.

SURVEY MONUMENTS – ALL SURVEY MONUMENTS SHOWN HEREON, INCLUDING BENCHMARKS SHALL BE PROTECTED FROM DISTURBANCE OR DESTRUCTION SUBJECT TO WAC 332-120 (SURVEY MONUMENTS – REMOVAL OR DESTRUCTION). IF THE CONSTRUCTION OF NEW FACILITIES CAUSES THE NEED FOR ANY MONUMENT TO BE REMOVED. THE CONTRACTOR, IS ADVISED TO CONTACT THE APPROPRIATE LAND SURVEYOR PRIOR TO CONSTRUCTION FOR PERPETUATION OF THE ORIGINAL POSITION SUBJECT TO WAC 332-120-060.

THE WETLANDS WERE DELINEATED BY OLSON ENVIRONMENTAL IN MARCH 2018 AND MAPPED BY OLSON ENGINEERING IN MAY OF 2018. THE NORTH WETLAND AREA IS 2373 +/- SQUARE FEET AND THE SOUTH IS 24709 +/- SQUARE FEET, WITHOUT BUFFERS. OLSON ENVIRONMENTAL PROVIDED THE RIPARIAN SETBACKS FROM THE CREEKS.

BASIS OF BEARINGS:

CALCULATED BEARINGS FROM THE NE CORNER OF SECTION 2 TO THE SE CORNER OF SECTION 2 FROM HAGADORN SURVEY (7/33) REC. OCTOBER 1977.

VERTICAL DATUM:

ELEVATIONS SHOWN HEREON ARE NGVD1929 (ADJ. 1947), AKA CLARK COUNTY DATUM, BASED ON DIFFERENTIAL LEVEL PREFORMED FOR THE PLATS OF SOUTHVIEW HEIGHTS.

BENCHMARK:

SITE BENCHMARK 1:
TBM 50
ELEVATION = 136.66'

SITE BENCHMARK 2:
TBM 54
ELEVATION = 129.85'

DEED REFERENCES

GRANTOR: MICHAEL MARUGG
GRANTEE: MYRON PROUTY
AFN NO.: 9702260226
DATE: FEBRUARY 2, 1997

GRANTOR: MICHAEL MARUGG
GRANTEE: MYRON PROUTY
AFN NO.: 9705017212
DATE: MAY 2, 1997

GRANTOR: M & S PROPERTIES, INC.
GRANTEE: MYRON PROUTY
AFN NO.: MAY 7, 2003

FOUND MONUMENT TABLE

ER522	FND 1/2" IR W/YPC "OLSON ENG. #9025"
ER527	FND 2" BRASS DISK "CLARK COUNTY BM #1903"
ER528	FND 1/2" IR W/YPC #32451
ER529	FND 1/2" IR W/YPC #32451
ER530	FND 3" BRASS DISK IN MONUMENT BOX #32451
ER549	FND 1/2" IR W/YPC #32451
BD121	FND 1/2" IR W/ YPC "MINISTER #12563"

STORM WATER STRUCTURES TABLE

ER590	STM CULVERT 15" CPP IE=139.36
ER511	STM CULVERT 15" CPP IE=143.00
ER508	STM CULVERT 15" CPP IE=143.00
ER510	STM CULVERT 15" CPP IE=143.53
ER509	STM CULVERT 15" CPP IE=143.54
ER521	STM CULVERT 24" CPP IE=144.38
ER520	STM CULVERT 18" DI IE=144.69
ER523	STM MH RIM=149.13 24" CPP (E) IE=144.38
ER447	STM CB RIM= 148.53 8" CPP (NE) IE=146.49
ER449	STM CI RIM= 148.97 8" CMP (W) IE=145.75
ER450	STM CB RIM= 148.65 8" CMP (NE) IE=146.70

SANITARY SEWER STRUCTURES TABLE

ER531	SAN MH RIM=149.64 8" PVC (N) IE=141.36 8" PVC (W) IE=140.98

BOUNDARY NOTE

THE SUBJECT PARCELS WERE ORIGINALLY DESCRIBED AND CONVEYED TO PROUTY USING THE CALCULATED SINGLE PROPORTION POSITION FOR THE SOUTH QUARTER CORNER OF SECTION 2 AS SHOWN ON THE SURVEY BY MINISTER GLAESER SURVEYING (33/144) REC. DEC. 1992. HAGEDORN, INC. AGAIN SURVEYED THE PARCELS AFTER A COURT CASE (62/52, REC. JULY 2012) WHICH DETERMINED THE WEST WESTERLY LINE OF SEPARATE PARCEL (OWNED BY PROUTY) AND NOTED THE COURT DETERMINED A DIFFERENT LOCATION FOR THE SOUTH QUARTER CORNER WHICH WOULD HAVE AFFECTED THE LOCATION OF THESE BOUNDARY LINES. HOWEVER, THE COURT JUDGMENT DOESN'T ACTUALLY NOTE ANY INFORMATION ABOUT THE LOCATION OF THE SOUTH QUARTER CORNER, ONLY A FENCE LINE APPROXIMATELY 1320 FEET WEST OF THE SUBJECT PARCELS. THEREFORE THE ORIGINAL LOCATION OF THE BOUNDARIES AS DETERMINED BY MINISTER GLAESER SURVEYING WAS HELD

C101
DD SUBMITTAL
EXISTING CONDITIONS

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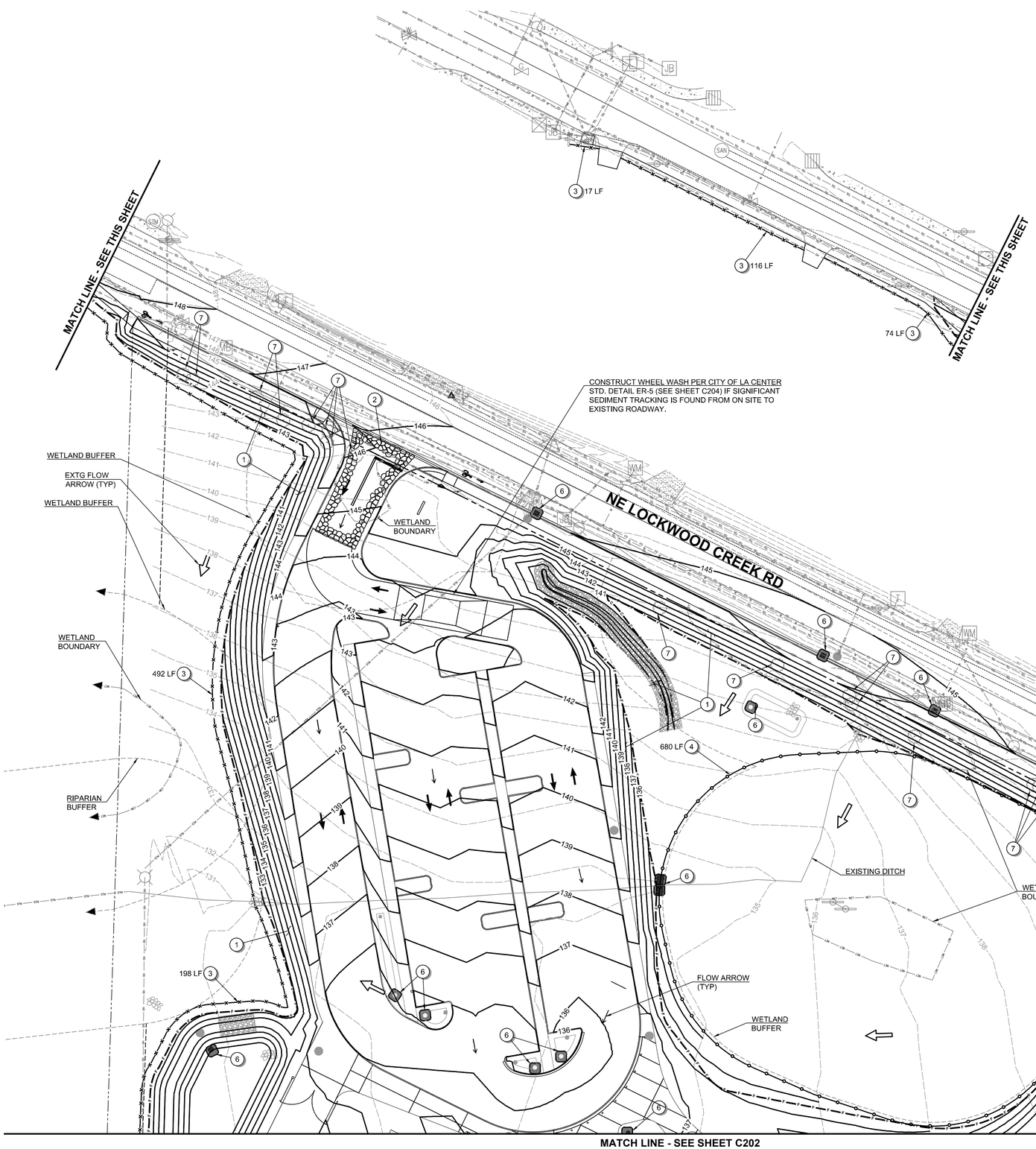
DESIGN DEVELOPMENT

REVISIONS



Unadjusted Earthwork Quantities
CUT: 31,200 CY**
FILL : 33,300 CY***

** *GRADING VOLUME INCLUDES ROADWAY EXCAVATION, AND STRIPPINGS FROM CLEARING AND GRUBBING. VOLUME DOES NOT INCLUDE TRENCH SPOILS.*

*** *GRADING VOLUME INCLUDES EMBANKMENT COMPACTION, VOLUME OF REUSED STRIPPINGS FROM CLEARING AND GRUBBING, AND PORT OF KALAMA DREDGE SAND, VOLUME DOES NOT INCLUDE TOPSOIL OR TRENCH SPOILS.*

Scale 1" = 30'

0 15 30 60

GENERAL NOTES

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2. APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD IMPROVEMENTS OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.)
3. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
4. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN (DENOTED BY CUT / FILL BOUNDARY LINES) SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
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EROSION CONTROL NOTES :

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2. STANDARD CONSTRUCTION ENTRANCE PER CITY OF LA CENTER STD. DETAIL ER-2 (MIN. 100 FT), SEE SHEET C204.
3. FILTER FABRIC FENCE PER CITY OF LA CENTER STD. DETAIL ER-3, SEE SHEET C204.
4. HIGH VISIBILITY ORANGE FILTER FABRIC FENCE PER CITY OF LA CENTER STD. DETAIL ER-3, SEE SHEET C204.
5. PLACE PLASTIC SHEETING OVER STOCKPILE PER CITY OF LA CENTER STD. DETAIL ER-6, SEE SHEET C204.
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LEGEND:

EXISTING CONTOUR	410
PROPOSED CONTOUR	410
FILTER FABRIC FENCE	
HIGH VISIBILITY ORANGE FILTER FABRIC FENCE	
STANDARD CONSTRUCTION ENTRANCE	
STOCKPILE AREA	
INLET PROTECTION	
CLEARING AND GRADING LIMITS (CUT / FILL)	

REVISIONS

DESIGN DEVELOPMENT

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PBS

BLISSA AKI PETERS STATE OF WASHINGTON 45380 REGISTERED PROFESSIONAL ENGINEER PRELIMINARY

LA CENTER SCHOOL DISTRICT

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LA CENTER School District

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NAC NO	121-18009
DRAWN	JAB/JRM
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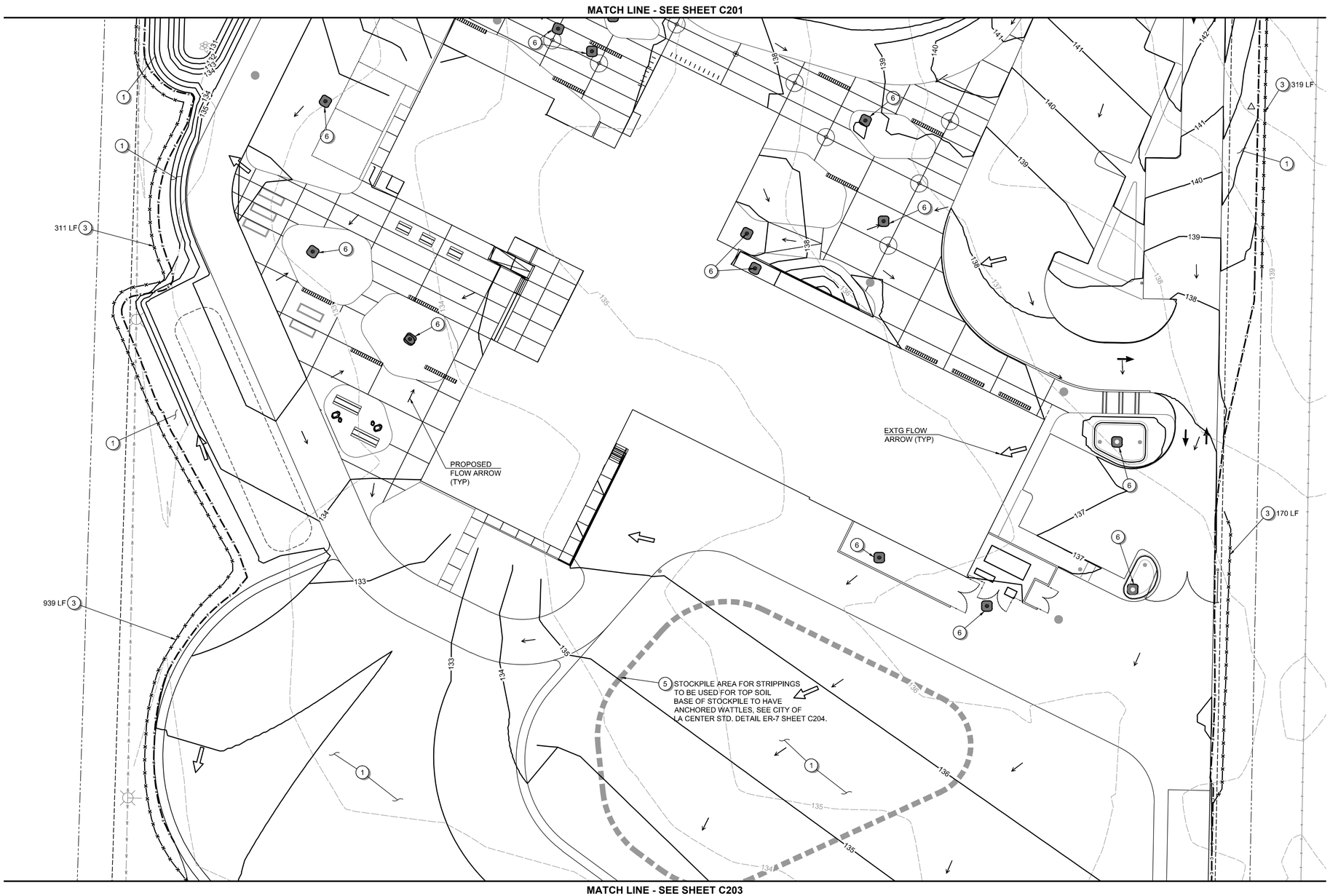
DATE	10-18-2018

EROSION CONTROL PLANS

DD SUBMITTAL

C201



Scale 1" = 30'

0 15 30 60

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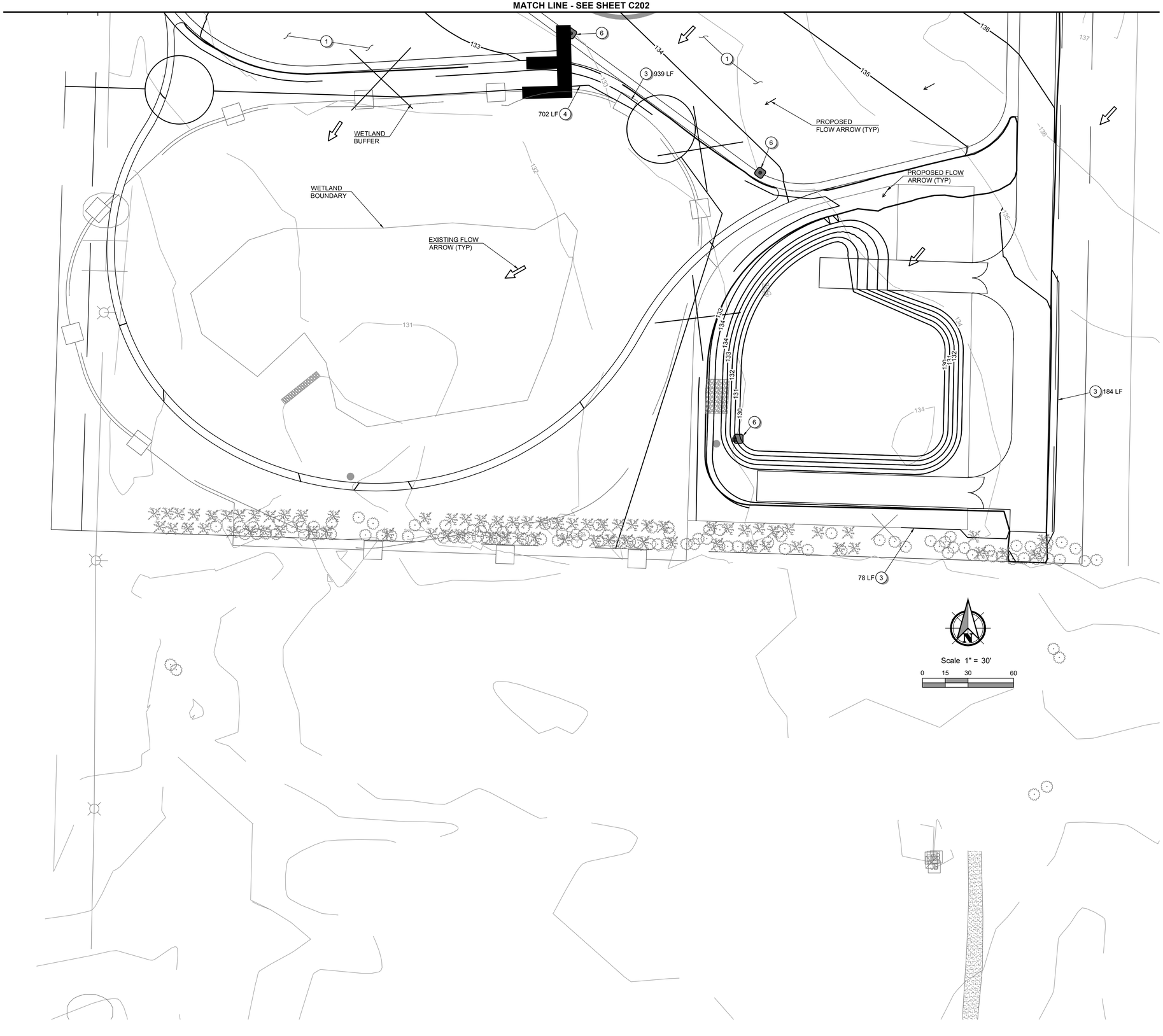
EROSION CONTROL PLANS

DD SUBMITTAL

C202



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EROSION CONTROL PLANS

DD SUBMITTAL

C203

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE AND IN WORKING CONDITION PRIOR TO ANY LAND DISTURBING ACTIVITY CAUSED BY CLEARING OR GRADING. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE APPROVED BY THE CITY PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR SHALL CALL FOR AN ON-SITE INSPECTION WHEN EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE AND PRIOR TO COMMENCEMENT OF WORK.

2. THE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE SITED, DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS IN THE CITY OF LA CENTER ENGINEERING STANDARDS FOR PUBLIC WORKS CONSTRUCTION.

3. THE DEVELOPER IS RESPONSIBLE FOR MAINTAINING EROSION PREVENTION AND SEDIMENT CONTROL MEASURES DURING AND AFTER INSTALLATION OF ALL UTILITY WORK ASSOCIATED WITH UTILITY TRENCHES.

4. PRIOR TO ANY SITE EXCAVATION, ALL STORM DRAINAGE INLETS SHALL BE PROTECTED DOWN SLOPE FROM ANY DISTURBED OR CONSTRUCTION AREAS PER THE STANDARD DETAILS TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAINAGE SYSTEM PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREAS. CLEAN THE FILTER FABRIC AS NECESSARY TO MAINTAIN DRAINAGE. REMOVE FILTER AND CLEAN CATCH BASINS FOLLOWING COMPLETION OF SITEWORK.

5. THE CONTRACTOR SHALL NOT ALLOW SEDIMENT OR DEBRIS TO ENTER NEW OR EXISTING PIPES, CATCH BASINS OR INFILTRATION SYSTEMS.

6. NEWLY CONSTRUCTED OR MODIFIED INLETS AND CATCH BASINS ARE TO BE PROTECTED IMMEDIATELY UPON INSTALLATION.

7. TEMPORARY SEEDING AND MULCHING OF FILL SLOPES AND DIVERSION DIKES SHALL BE COMPLETED WITHIN ONE WEEK AFTER ROUGH GRADING.

8. ALL EXPOSED AND UNWORKED SOILS SHALL BE STABILIZED BY THE APPROPRIATE BEST MANAGEMENT PRACTICES (BMPs). DURING THE PERIOD FROM OCTOBER 1 TO APRIL 30 NO SOIL SHALL BE EXPOSED FOR MORE THAN TWO (2) DAYS. FROM MAY 1 TO SEPTEMBER 30 NO SOIL SHALL BE EXPOSED FOR MORE THAN SEVEN (7) DAYS.

9. MATERIAL STOCKPILES ARE TO BE PROTECTED BY THE FOLLOWING MEANS:
   -TEMPORARY: COVER PILES WITH TARPS OR PLASTIC SHEETING WEIGHTED WITH CONCRETE BLOCKS, LUMBER OR TIRES.
   -PERMANENT: COVER PILES WITH TARPS OR PLASTIC, OR RESEED. PERIMETER AREAS AROUND PILES ARE TO BE SURROUNDED WITH EROSION CONTROL FILTER FABRIC FENCES UNTIL SOIL SURFACE IS STABILIZED WITH RESEEDING.

10. THE CONTRACTOR SHALL MAINTAIN ON SITE A WRITTEN DAILY LOG OF EROSION CONTROL BMP MAINTENANCE.

11. IF THE CITY INSPECTOR OR ENGINEER HAS EVIDENCE OF POOR CONSTRUCTION PRACTICES OR IMPROPER EROSION PREVENTION BMPs, CITATIONS AND/OR A STOP WORK ORDER SHALL BE ISSUED UNTIL PROPER MEASURES HAVE BEEN TAKEN AND APPROVED BY THE CITY OF LA CENTER. IF THE BMPs APPLIED TO A SITE ARE INSUFFICIENT TO PREVENT SEDIMENT FROM REACHING WATER BODIES, ADJACENT PROPERTIES, OR PUBLIC RIGHT-OF-WAY, THEN THE CITY SHALL REQUIRE ADDITIONAL BMPs.

12. ALTERNATIVE BMP'S NOT SHOWN IN THESE DETAILS ARE ACCEPTABLE PROVIDED THEY ARE PART OF ECOLOGY'S WESTERN WASHINGTON STORMWATER MANAGEMENT MANUAL AND THE CITY ENGINEER REVIEWS AND APPROVES THE ALTERNATIVE BMP'S AS PART OF THE EROSION CONTROL PLAN PRIOR TO THE START OF CONSTRUCTION.

EROSION CONTROL GENERAL NOTES I

PLAN #

CITY OF LA CENTER APPROVED

Barb Shipp, PE 7/23/09
CITY ENGINEER DATE

REVISIONS:	DATE:	DRAWN:	DESIGNED:

ER-1A

13. PROVIDE A 12-INCH DEEP PAD OF CRUSHED ROCK FOR A DISTANCE OF 100 FEET INTO THE SITE FOR ALL ACCESS POINTS UTILIZED BY CONSTRUCTION EQUIPMENT AND TRUCKS. WIDTH OF THE PAD SHALL BE A MINIMUM OF 20 FEET. ALL TRUCKS LEAVING THE SITE SHALL EGRESS ACROSS THE PAD. ACCUMULATED SOIL SHALL BE PERIODICALLY REMOVED, OR ADDITIONAL ROCK SHALL BE PLACED UPON THE PAD SURFACE. ROCK SHALL BE CLEAN 4 INCH TO 8 INCH QUARRY SPALLS. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

14. PAVEMENT SWEEPING AND SHOVELING IS REQUIRED. WASHING THE PAVEMENT INTO THE STORM SYSTEM IS NOT PERMITTED.

15. AT SITES WITH LESS THAN 1 ACRE OF EXPOSED SOIL, PAD LENGTH MAY BE REDUCED TO 50 FEET. SINGLE FAMILY LOT ENTRANCES MAY HAVE THE PAD LENGTH REDUCED TO 20 FEET.

16. INSTALL SEDIMENT FENCE IN ACCORDANCE WITH DETAIL ER-3 PRIOR TO BUILDING CONSTRUCTION AND/OR EXCAVATION TO PREVENT SILT INTRUSION UPON ADJACENT LOTS. IF CONSTRUCTION OCCURS SIMULTANEOUSLY ON ADJACENT LOTS AND THE LOTS HAVE THE SAME OWNER DURING CONSTRUCTION, THE SILT FENCE ALONG THE COMMON LOT LINE MAY BE ELIMINATED.

17. CONSTRUCTION ROADS AND PARKING AREAS SHALL BE STABILIZED WHEREVER THEY ARE CONSTRUCTED, WHETHER PERMANENT OR TEMPORARY, FOR THE USE OF CONSTRUCTION TRAFFIC.

18. MAINTAIN AND REMOVE ALL SEDIMENT CONTROLS AS SPECIFIED IN THE STANDARD DETAILS. THE CONTRACTOR SHALL REMOVE ALL ACCUMULATED SEDIMENT FROM THE CATCH BASINS, DRYWELLS, UTILITY TRENCHES AND STORM PIPES PRIOR TO ACCEPTANCE BY THE CITY.

19. SEDIMENT CONTROL BMPs SHALL BE INSPECTED WEEKLY AND AFTER ANY STORM EVENT PRODUCING RUNOFF. THE INSPECTION FREQUENCY FOR STABILIZED, INACTIVE SITES SHALL BE ONCE EVERY TWO WEEKS OR MORE FREQUENTLY AS DETERMINED BY THE LOCAL PERMITTING AUTHORITY BASED ON THE LEVEL OF SOIL STABILITY AND POTENTIAL FOR ADVERSE ENVIRONMENTAL IMPACTS.

20. ALL TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER SITE STABILIZATION IS ACHIEVED OR AFTER TEMPORARY BMPs ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHALL BE PERMANENTLY STABILIZED.

21. IN AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST ONE OR MORE OF THE FOLLOWING PREVENTATIVE MEASURES SHALL BE TAKEN FOR DUST CONTROL:
   -MINIMIZE THE PERIOD OF SOIL EXPOSURE THROUGH THE USE OF TEMPORARY GROUND COVER AND OTHER TEMPORARY STABILIZATION PRACTICES.
   -SPRINKLE THE SITE WITH WATER UNTIL THE SURFACE IS WET.
   -SPRAY EXPOSED SOIL AREAS WITH A DUST PALLIATIVE. NOTE: USE OF PETROLEUM PRODUCTS OR POTENTIALLY HAZARDOUS MATERIALS ARE PROHIBITED

22. EXPOSED SURFACES THAT WILL NOT BE BROUGHT TO FINAL GRADING OR GIVEN A PERMANENT COVER TREATMENT WITHIN 30 DAYS OF THE EXPOSURE SHALL HAVE SEED MIX AND MULCH PLACED TO STABILIZE THE SOIL AND REDUCE EROSION SEDIMENTATION. SEEDED AREAS SHALL BE CHECKED REGULARLY TO ASSURE A GOOD STAND OF GRASS IS BEING MAINTAINED. AREAS THAT FAIL TO ESTABLISH VEGETATION COVER ADEQUATE TO PREVENT EROSION WILL BE RESEEDED AS SOON AS SUCH AREAS ARE IDENTIFIED.

23. APPLY AN APPROVED TEMPORARY SEEDING MIXTURE TO THE PREPARED SEED BED AT A RATE OF 120 LBS/ACRE. NOTE: "HYDROSEEDING" APPLICATIONS WITH APPROVED SEED-MULCH-FERTILIZER MIXTURES MAY ALSO BE USED.

EROSION CONTROL GENERAL NOTES II

PLAN #

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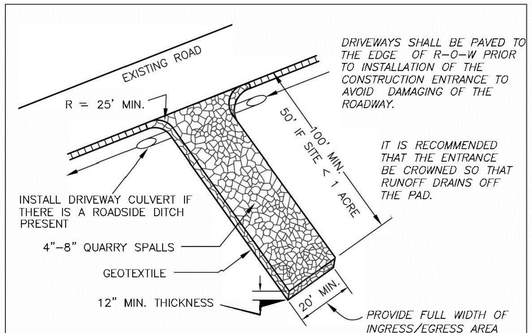
ER-1B



NOTES:

1. IF THE ENTRANCE SITS ON A SLOPE, PLACE A FILTER FABRIC FENCE DOWN GRADIENT.
2. TOP DRESS THE PAD WITH CLEAN 3" MINUS ROCK WHEN THE CONSTRUCTION ENTRANCE BECOMES CLOGGED WITH SEDIMENTS.
3. ANY SEDIMENT CARRIED FROM THE SITE ONTO THE STREET SHALL BE CLEANED UP IMMEDIATELY.
4. IF EQUIPMENT TRAVELS EXTENSIVELY ON UNSTABILIZED ROADS ON THE SITE, A TIRE AND VEHICLE UNDERCARRIAGE WASH NEAR THE ENTRANCE WILL BE NEEDED. PERFORM WASHING ON CRUSHED ROCK. WASH WATER WILL REQUIRE TREATMENT IN A SEDIMENT POND OR TRAP.

STANDARD CONSTRUCTION ENTRANCE

PLAN #

CITY OF LA CENTER APPROVED

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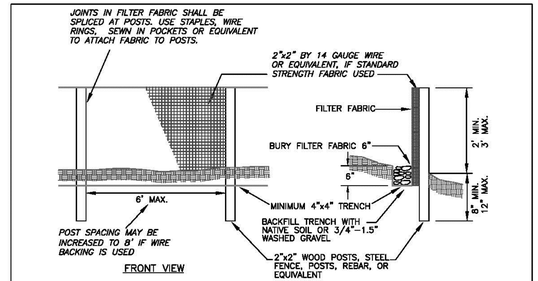
ER-2



NOTE: FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE

MAINTENANCE STANDARDS:

1. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT POND.
3. IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGNS OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCURS, REPLACE THE FENCE OR REMOVE THE TRAPPED SEDIMENT.
4. SEDIMENT DEPOSITS SHALL EITHER BE REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-THIRD THE HEIGHT OF THE SILT FENCE, OR A SECOND SILT FENCE SHALL BE INSTALLED.
5. SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED IMMEDIATELY.
6. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

FILTER FABRIC FENCE

PLAN #

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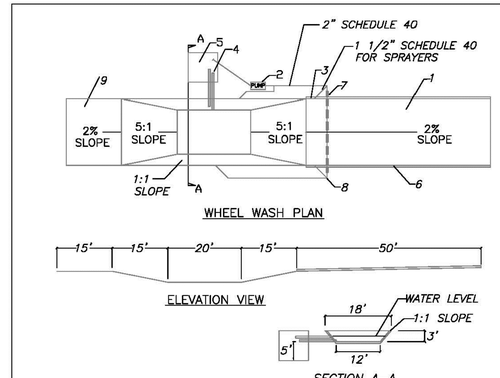
REVISIONS:	DATE:	DRAWN:	DESIGNED:

ER-3



LEGEND:

1. ASPHALT CONSTRUCTION ENTRANCE 6 IN. ASPHALT TREATED BASE (ATB).
2. 3 IN. TRASH PUMP WITH FLOATS ON THE SUCTION HOSE.
3. MIDPOINT SPRAY NOZZLES, IF NEEDED.
4. 6 IN. SEWER PIPE WITH BUTTERFLY VALVES. BOTTOM ONE IS A DRAIN. LOCATE TOP PIPE'S INVERT 1 FT. ABOVE BOTTOM OF WHEEL WASH.
5. 8 FT. X 8 FT. SUMP WITH 5 FT. OF CATCH. BUILD SO CAN BE CLEANED WITH TRACKHOE.
6. 6-IN. ASPHALT CURB ON THE LOW ROAD SIDE TO DIRECT WATER BACK TO POND.
7. 6-IN. SLEEVE UNDER ROAD.
8. BALL VALVES.
9. 15 FT. ATB APRON TO PROTECT GROUND FROM SPLASHING WATER.

WHEEL WASH

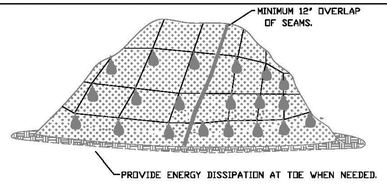
PLAN #

CITY OF LA CENTER APPROVED

Barb Shipp, PE 7/23/09
CITY ENGINEER DATE

REVISIONS:	DATE:	DRAWN:	DESIGNED:

ER-5



PLASTIC SHEETING

NOTES:

1. PLASTIC SHEETING IS USED TO PROVIDE IMMEDIATE PROTECTION TO SLOPES AND STOCKPILES.
2. DO NOT USE PLASTIC COVERING UPSLOPE OF AREAS SUCH AS STEEP AND/OR UNSTABLE SLOPES THAT MIGHT BE ADVERSELY AFFECTED BY CONCENTRATED RUNOFF.
3. WHEN POSSIBLE, INSTALL AN INTERCEPTOR DIKE AT THE TOP OF THE PLASTIC TO DIVERT FLOWS AWAY FROM THE PLASTIC.
4. TOE-IN THE TOP OF THE SHEETING IN A 6"x6" TRENCH BACKFILLED WITH COMPACTED NATIVE MATERIAL.
5. INSTALL A GRAVEL BERM, RIPRAP, OR OTHER SUITABLE PROTECTION AT THE TOP OF THE SLOPE IN ORDER TO DISSIPATE RUNOFF VELOCITY.
6. ANCHOR THE PLASTIC USING SANDBAGS OR OTHER SUITABLE TETHERED ANCHOR SYSTEM SPACED ON A 10' GRID SPACING IN ALL DIRECTIONS.
7. OVERLAP SEAMS 1-2', TAPE, ROLL AND STAKE THE SEAMS AND THEN WEIGH DOWN THE ENTIRE LENGTH.
8. PROVIDE ENERGY DISSIPATION AT TOE WHEN NEEDED.
9. REPLACE TORN SHEETS AND REPAIR OPEN SEAMS. COMPLETELY REMOVE AND REPLACE PLASTIC WHEN IT BEGINS TO DETERIORATE.

PLASTIC SHEETING

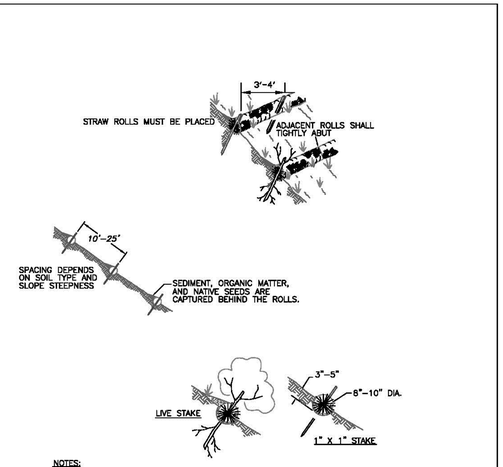
PLAN #

CITY OF LA CENTER APPROVED

Barb Shipp, PE 7/23/09
CITY ENGINEER DATE

REVISIONS:	DATE:	DRAWN:	DESIGNED:

ER-6



NOTES:
STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3"-5" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

STRAW WATTLES

STRAW WATTLES BARRIER

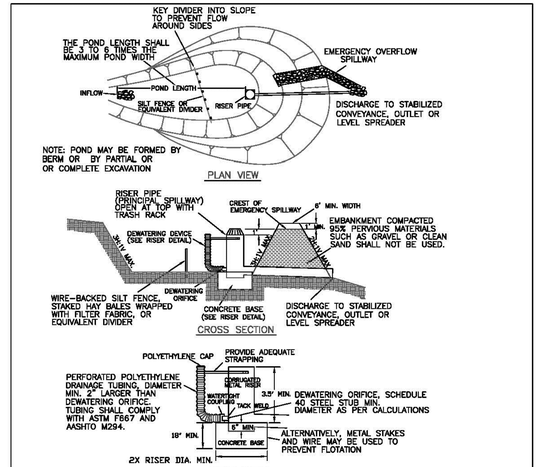
PLAN #

CITY OF LA CENTER APPROVED

Anthony Peelman 4-4-17
CITY ENGINEER DATE

REVISIONS:	DATE:	DRAWN:	DESIGNED:

ER-7



NOTES:

1. STRUCTURES HAVING A MAXIMUM STORAGE CAPACITY AT THE TOP OF THE DAM OF 10 ACRE-FT (435,600 FT^3) OR MORE ARE SUBJECT TO THE WASHINGTON DAM SAFETY REGULATIONS (CHAPTER 173-175 WAC).
2. GRADE BOTTOM OF BASIN AS LEVEL AS POSSIBLE.
3. SPILLWAY SHALL BE LINED WITH 2"-4" ROCKS.
4. ALL INLETS AND OUTLETS SHALL BE PROTECTED WITH RIPRAP.
5. IF THE POND POSES A SAFETY HAZARD, IT SHALL BE FENCED.
6. REMOVE SEDIMENT BEFORE 1-FOOT ACCUMULATES.

TEMPORARY SEDIMENT POND

PLAN #

CITY OF LA CENTER APPROVED

Barb Shipp, PE 7/23/09
CITY ENGINEER DATE

REVISIONS:	DATE:	DRAWN:	DESIGNED:

ER-9

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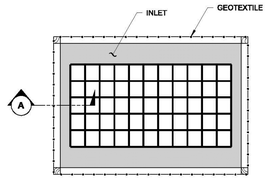
NAC NO	121-18009
DRAWN	JAB/JRM
CHECKED	EAP
DATE	10-18-2018

CITY OF LA CENTER EROSION CONTROL DETAILS

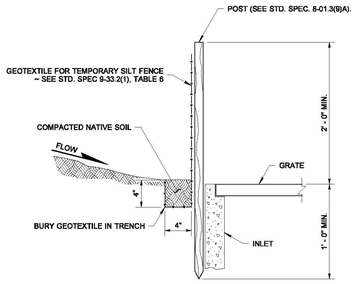
DD SUBMITTAL

C204

DRAWN BY: LISA CYFORD



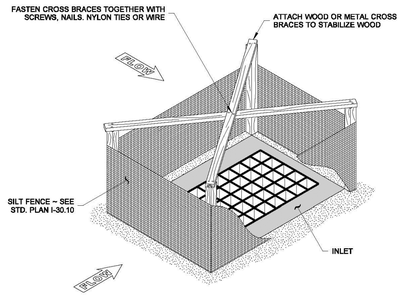
PLAN VIEW
(CROSS BRACES NOT SHOWN)



SECTION (A)

NOTES

1. Prefabricated units may be used in lieu of the design shown on this plan upon approval of the Engineer.
2. Structure shall be constructed such that geotextile material shall be fastened to posts creating a seam-less joint.
3. Ensure that ponding height of water does not cause flooding on adjacent roadways or private property.
4. Perform maintenance in accordance with Standard Specification 8-01.3(15).



ISOMETRIC VIEW
(ENTIRE FENCE NOT SHOWN
FOR ILLUSTRATIVE PURPOSES)

STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
MARK W. MAURER
CERTIFICATE NO. 000598

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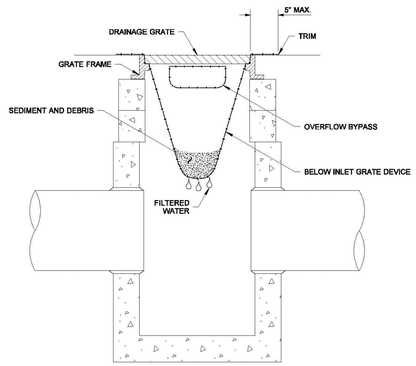
TEMPORARY SILT FENCE FOR INLET PROTECTION IN UNPAVED AREAS
STANDARD PLAN I-40.10-00

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Pasco Bakotich III 09-20-07
STATE DESIGN ENGINEER — DATE
Washington State Department of Transportation

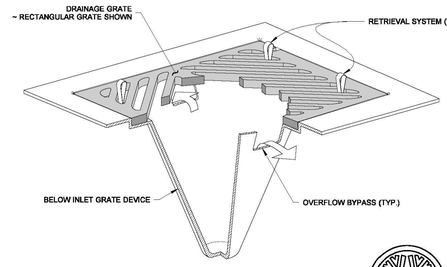
DRAWN BY: LISA CYFORD



SECTION VIEW
NOT TO SCALE

NOTES

1. Size the Below Inlet Grate Device (BIGD) for the storm water structure it will service.
2. The BIGD shall have a built-in high-flow relief system (overflow bypass).
3. The retrieval system must allow removal of the BIGD without spilling the collected material.
4. Perform maintenance in accordance with Standard Specification 8-01.3(15).



ISOMETRIC VIEW

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STORM DRAIN INLET PROTECTION
STANDARD PLAN I-40.20-00

SHEET 1 OF 1 SHEET

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STATE DESIGN ENGINEER — DATE
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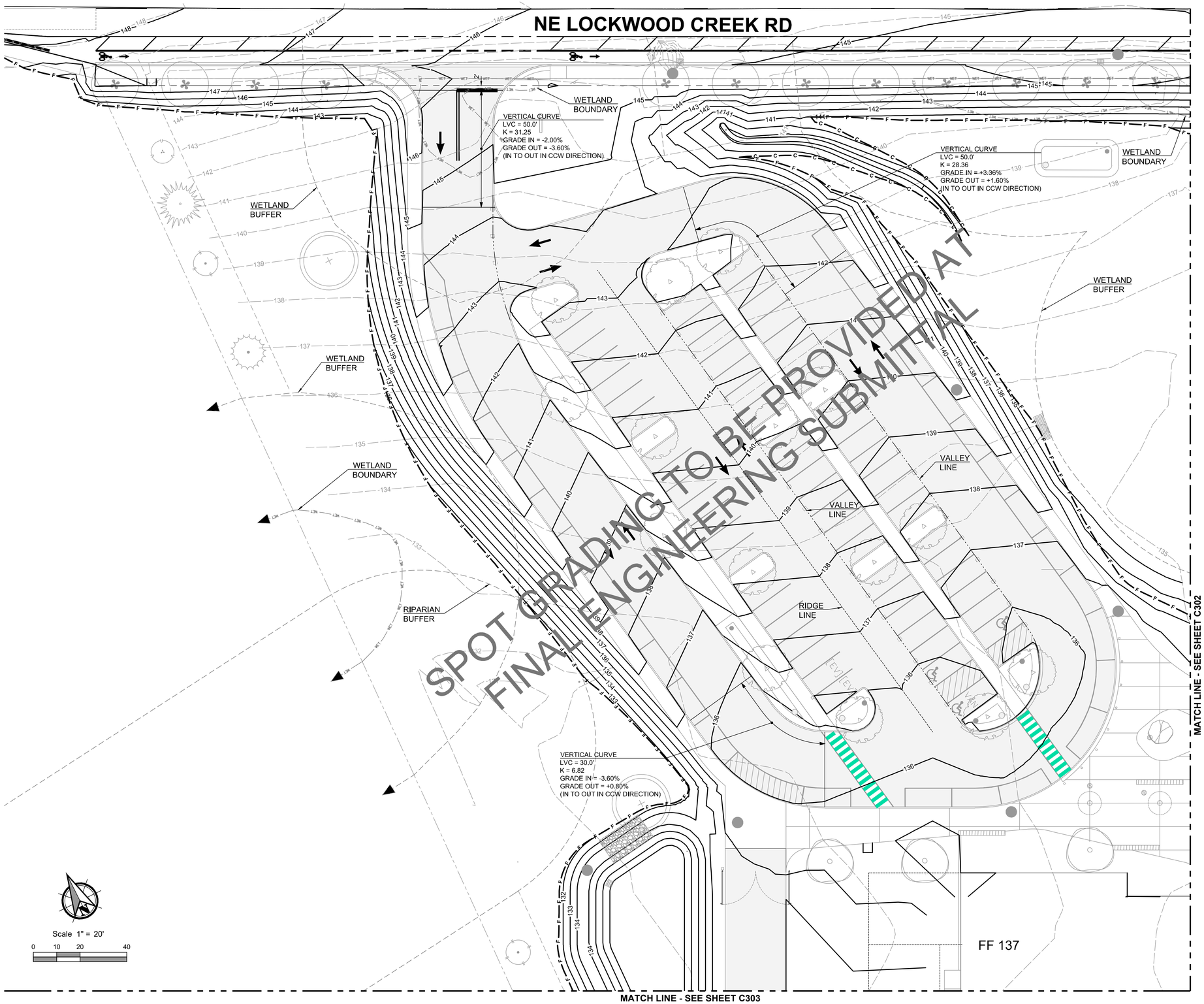
DRAWN	JAB/JRM
CHECKED	EAP
DATE	10-18-2018

WSDOT EROSION CONTROL DETAILS

DD SUBMITTAL

C205



GENERAL NOTES

1. SITE GRADING AND UTILITY CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2018 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION PREPARED BY WSDOT/APWA, AND THE LATEST STANDARDS FOR CITY OF LA CENTER.
2. ALL TRENCH BACKFILL MATERIAL SHALL BE IMPORTED CRUSHED SURFACING BASE COURSE PER WSDOT STANDARD SPECIFICATIONS SECTION 9-03.9(3).
3. CONTRACTOR TO BE FAMILIAR WITH AND FOLLOW RECOMMENDATIONS OF GEOTECHNICAL REPORTS PREPARED FOR THE PROJECT BY COLUMBIA WEST (GEOTECHNICAL FEASIBILITY ASSESSMENT, DATED MAY 17, 2018 AND GEOTECHNICAL SITE INVESTIGATION, DATED OCTOBER 3, 2018)
4. NO EXCAVATION ALLOWED WITHIN LIMITS OF ARCHEOLOGICAL FINDINGS.

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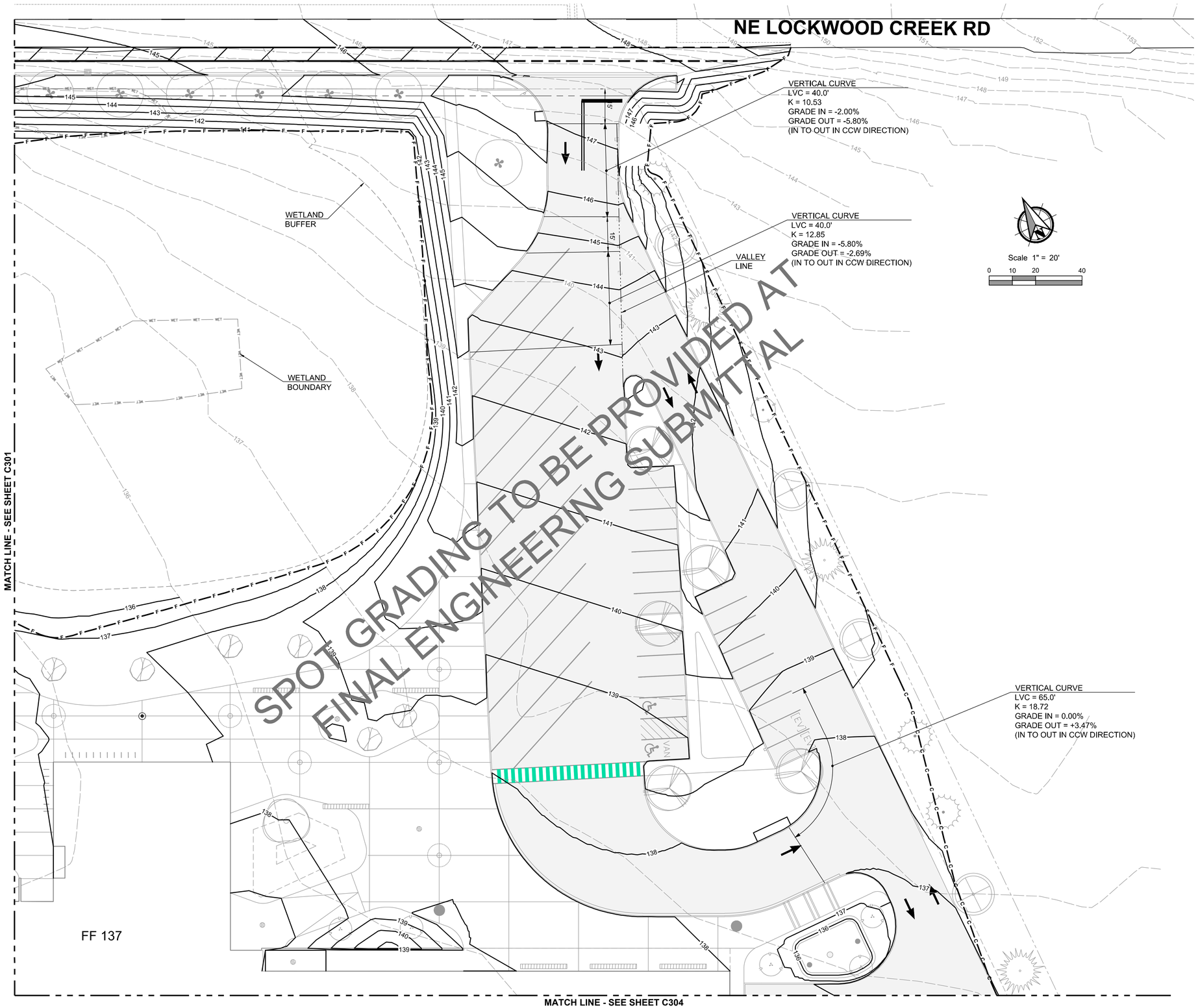
GRADING PLANS

DD SUBMITTAL

C301



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GRADING PLANS

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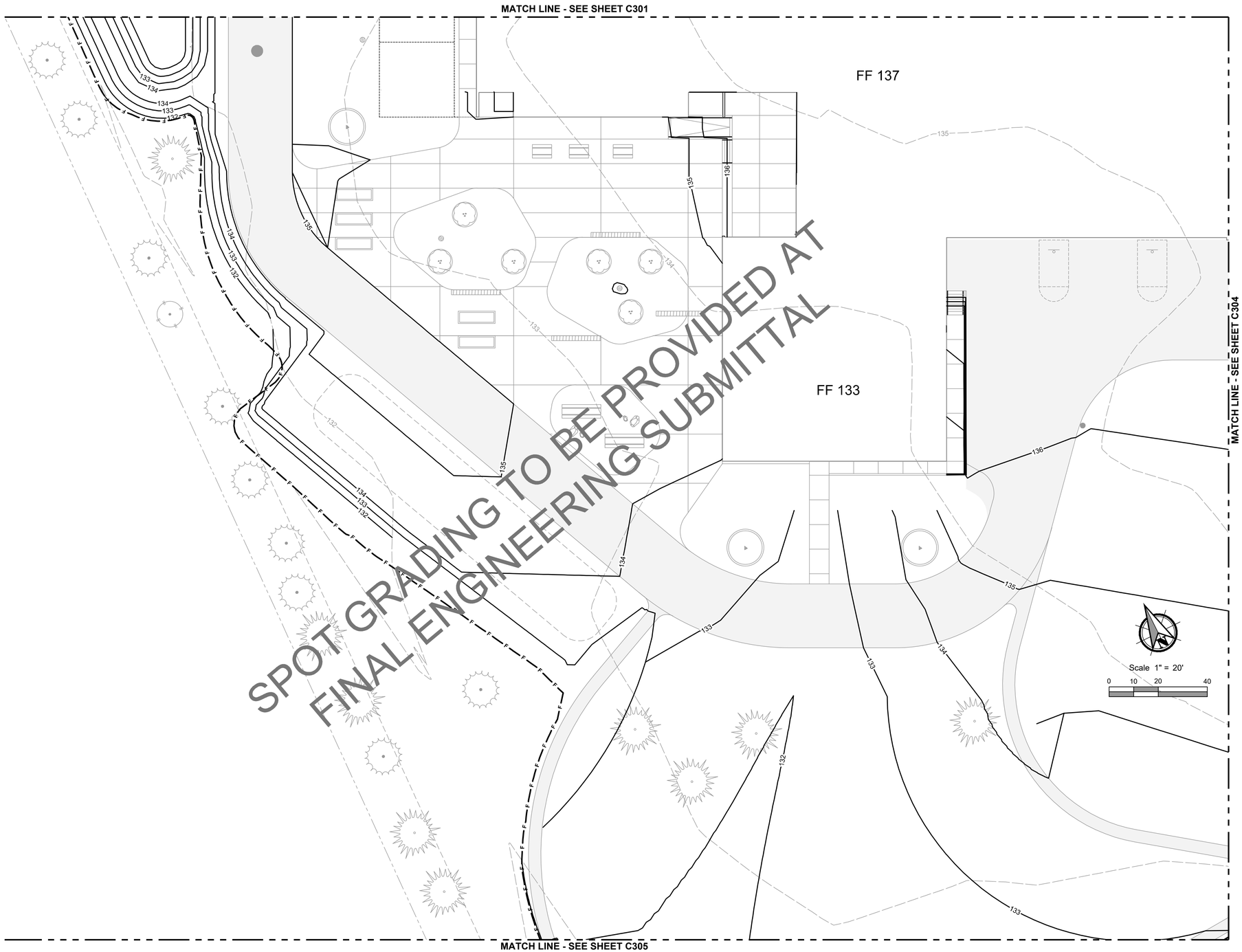
C302



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GRADING PLANS

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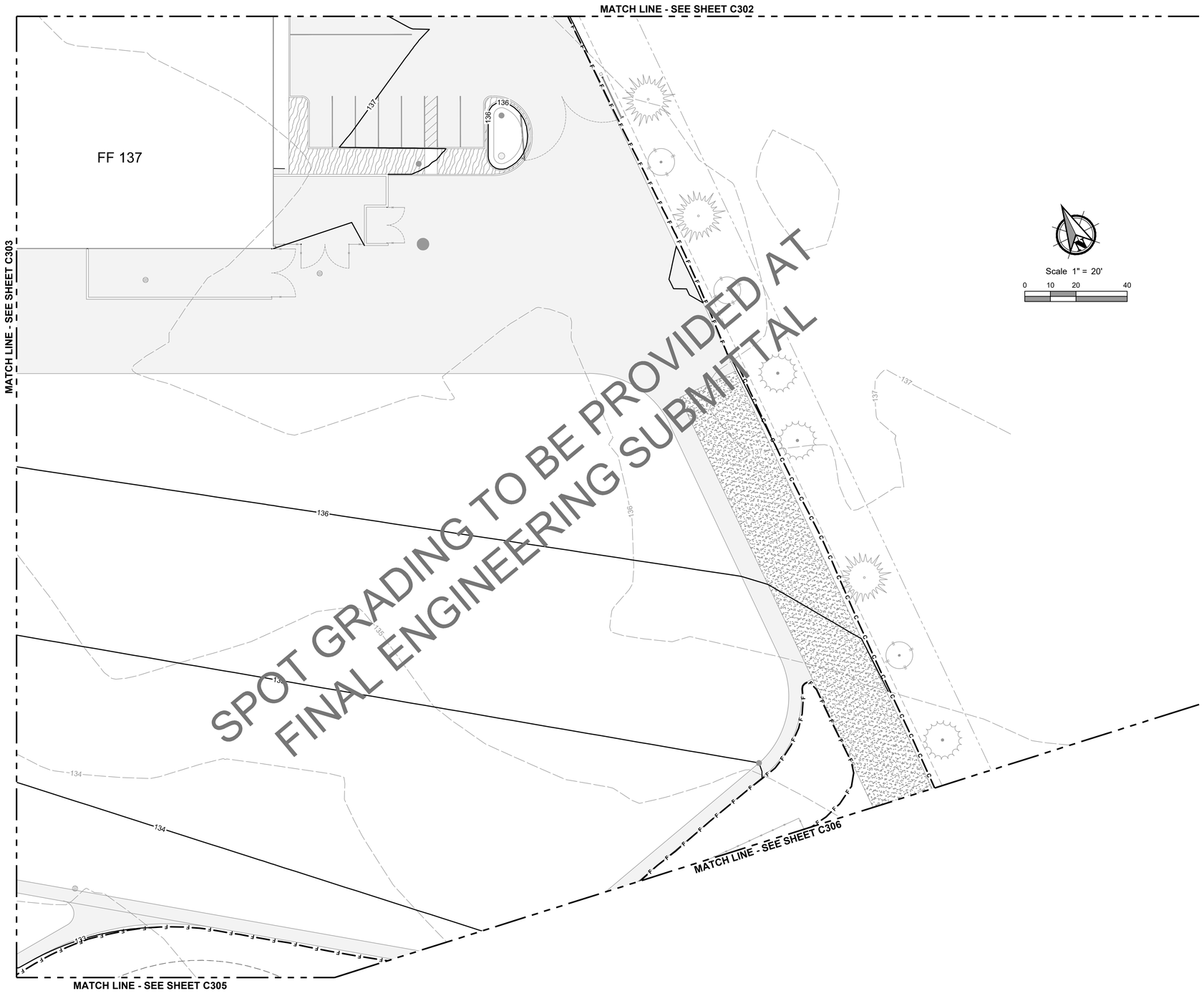
C303



Scale 1" = 20'

0 10 20 40

GENERAL NOTES

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GRADING PLANS

DD SUBMITTAL

C304

MATCH LINE - SEE SHEET C303

MATCH LINE - SEE SHEET C306

GENERAL NOTES

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GRADING PLANS

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C305

Scale 1" = 20'

0 10 20 40

GENERAL NOTES

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GRADING PLANS

DD SUBMITTAL

C306

GENERAL NOTES

1. SEE SHEET xxxxx FOR ABBRREVIATIONS AND MASTER LEGEND. SEE SHEET xxxxx FOR GENERAL NOTES.
2. CONTRACTOR TO COORDINATE ROOF DRAIN CONNECTIONS TO CONNECT TO STORM SYSTEM AT A MINIMUM 2% SLOPE.

STORM SEWER NOTES:

1. INSTALL 18" PVC CATCH BASIN WITH 18" DROP-IN GRATE, SEE DETAIL SHEET xxxxx.
2. INSTALL18" PVC CATCH BASIN WITH 18" DOME GRATE, SEE SHEET xxxxxx FOR STRUCTURE AND DOME DETAILS.
3. INSTALL 24" PVC CATCH BASIN WITH 24" NON-SLIP SOLID LID, SEE DETAIL SHEET xxxxxx.
4. INSTALL 48-IN STORM SEWER MANHOLE, SEE DETAIL SHEET xxxxx.
5. INSTALL STORM SEWER CLEANOUT, SEE DETAIL SHEET xxxx.
6. INSTALL CATCH BASIN TYPE 1 WITH RECTANGULAR HERRINGBONE GRATE, SEE DETAIL SHEET xxxx.
7. INSTALL DITCH INLET, SEE DETAIL SHEET xxxxx.
8. INSTALL FLOW CONTROL STRUCTURE, SEE DETAIL SHEET xxxxx.
9. CONSTRUCT GRAVEL OVERFLOW SPILLWAY, SEE POND DETAIL SHEET xxxxx FOR DETAILS.
10. INSTALL BIORETENTION FACILITY, SEE DETAIL SHEET xxxx.
11. DEPRESSED LANDSCAPE AREA (SEE LANDSCAPE PLANS).
12. STORMWATER DETENTION POND. SEE TYPICAL SECTION SHEET XX.
13. INSTALL SLOPED BYPASS INTAKE. SEE DETAIL SHEET xxxx.
14. OUTFALL PROTECTION, SEE DETAIL SHEET xxxx.
15. SEE FRONTAGE IMPROVEMENTS SHEETS C701 - C703.
16. ROOF DRAIN CONNECTION.
17. FRENCH DRAIN, SEE DETAIL SHEET xxxx.

9 LF 24" SD

MH-13
RIM 145.68
24" IE 139.01 IN (N)
24" IE 139.00 OUT (S)

33 LF 24" SD
@ S=0.0030

WETLAND BOUNDARY

CB-4
RIM 138.94
6" PERF IE 136.50 IN (E)
12" IE 136.50 OUT (SW)

EXISTING 15" PIPE
ABANDON IN PLACE

CULVERT OUTLET
24" IE 138.90 IN (N)

CO-1
RIM 138.88
6" PERF IE 136.50 OUT (W)

BIORETENTION
BOTTOM AREA 300 SQ FT

103 LF 12" SD @ S=0.0093

WETLAND BUFFER

EXTG DITCH

MH-1
RIM 140.15
12" IE 135.95 IN (NE)
12" IE 135.95 OUT (S)

WATER (TYP)
SEE SHEET C501

VAULT-1
RIM 135.06
36" IE 132.00 OUT (W)

117 LF 12" SD
@ S=0.0200

CO-2
RIM 136.00
6" PERF IE 132.50 OUT (S)

226 LF 36" SD @ S=0.0013

BIORETENTION
BOTTOM AREA
96 SQ FT

MH-9
RIM 135.86
12" IE 133.60 IN (N)
12" IE 133.60 OUT (S)

BIORETENTION
BOTTOM AREA
190 SQ FT

CO-5
RIM 135.20
6" PERF IE 132.70 OUT (S)

CO-3
RIM 135.00
6" PERF IE 132.50 OUT (W)

BIORETENTION
BOTTOM AREA
90 SQ FT

CB-9
RIM 135.70
6" PERF IE 132.70 IN (N)
6" IE 132.70 OUT (SW)

CB-10
RIM 133.52
6" PERF IE 132.50 IN (E)
6" IE 132.50 OUT (NW)

CB-5
RIM 135.60
12" IE 133.38 IN (N)
12" IE 133.38 OUT (SW)

95 LF 12" SD @ S=0.0400

16 LF 6" SD

CO-4
RIM 135.20
6" PERF IE 132.70 OUT (E)

24 LF 12" SD
@ S=0.0050

20 LF 6" SD

BIORETENTION
BOTTOM AREA 57 SQ FT

41 LF 8" SD
@ S=0.0030

CB-8
RIM 135.70
6" IE 132.70 IN (NE)
6" PERF IE 132.70 IN (W)
8" IE 132.70 OUT (S)

23 LF 12" SD
@ S=0.0125

83 LF 12" SD @ S=0.0050

RIPARIAN BUFFER

EXTG 12" CONC PIPE
IE 126.99

OF-2
RIM 133.86
36" IE 131.70 IN (E)

6 FOOT WIDE RIPRAP
LINED OVERFLOW
IE 133.20

CB-11
RIM 135.50
6" PERF IE 132.50 IN (N)
6" IE 132.50 IN (SE)
12" IE 132.50 OUT (SW)

MH-12
RIM 134.00
12" IE 131.30 OUT (SE)
12" IE 131.30 OUT (NW)

25 LF 12" SD
@ S=0.0280

117 LF 12" SD @ S=0.0030

35 LF 12" SD
@ S=0.0110

30 LF 12" SD
@ S=0.0000

CB-7
RIM 136.38
12" IE 132.97 IN (SE)
12" IE 132.97 OUT (W)

MH-10
RIM 135.65
12" IE 132.58 IN (E)
8" IE 132.58 IN (N)
12" IE 132.58 OUT (NW)

MH-11
RIM 136.29
12" IE 132.23 IN (SE)
12" IE 132.23 IN (NE)
12" IE 132.00 OUT (W)

CB-6
RIM 136.54
12" IE 133.26 IN (NE)
12" IE 133.26 OUT (NW)

OF-6
12" IE 131.30 IN (SE)

MAINTAIN 6" MIN. SOIL COVER OVER PIPE AND SEED PER LANDSCAPE PLANS

11 LF 12" SD
@ S=0.0000

STORM DETENTION
POND (NORTH)
STORAGE BOTTOM 131.30
TOP 134.00
BOTTOM AREA 2,170 SQ FT
VOL 0.166 AC-FT
3:1 SIDE SLOPES

CB-26
12" IE 131.30 IN (NW)

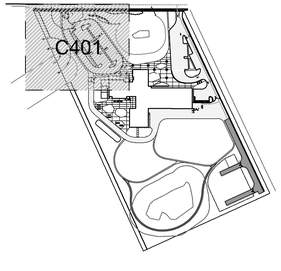
OF-4
12" IE 131.30 IN (E)

MATCH LINE - SEE SHEET C402

MATCH LINE - SEE SHEET C403

Scale 1" = 20'
0 10 20 40

KEYMAP



REVISIONS

DESIGN DEVELOPMENT

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NAC NO	121-18009
DRAWN	JAB/JRM
CHECKED	EAP
DATE	10-18-2018

STORMWATER PLANS

DD SUBMITTAL

C401

GENERAL NOTES

1. SEE SHEET xxxxx FOR ABBRREVIATIONS AND MASTER LEGEND. SEE SHEET xxxxx FOR GENERAL NOTES.
2. CONTRACTOR TO COORDINATE ROOF DRAIN CONNECTIONS TO CONNECT TO STORM SYSTEM AT A MINIMUM 2% SLOPE.

STORM SEWER NOTES:

1. INSTALL 18" PVC CATCH BASIN WITH 18" DROP-IN GRATE, SEE DETAIL SHEET xxxxx.
2. INSTALL18" PVC CATCH BASIN WITH 18" DOME GRATE, SEE SHEET xxxxxx FOR STRUCTURE AND DOME DETAILS.
3. INSTALL 24" PVC CATCH BASIN WITH 24" NON-SLIP SOLID LID, SEE DETAIL SHEET xxxxxx.
4. INSTALL 48-IN STORM SEWER MANHOLE, SEE DETAIL SHEET xxxxx.
5. INSTALL STORM SEWER CLEANOUT, SEE DETAIL SHEET xxxx.
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7. INSTALL DITCH INLET, SEE DETAIL SHEET xxxxx.
8. INSTALL FLOW CONTROL STRUCTURE, SEE DETAIL SHEET xxxxx.
9. CONSTRUCT GRAVEL OVERFLOW SPILLWAY, SEE POND DETAIL SHEET xxxxx FOR DETAILS.
10. INSTALL BIORETENTION FACILITY, SEE DETAIL SHEET xxxx.
11. DEPRESSED LANDSCAPE AREA (SEE LANDSCAPE PLANS).
12. STORMWATER DETENTION POND. SEE TYPICAL SECTION SHEET XX.
13. INSTALL SLOPED BYPASS INTAKE. SEE DETAIL SHEET xxxx.
14. OUTFALL PROTECTION, SEE DETAIL SHEET xxxx.
15. SEE FRONTAGE IMPROVEMENTS SHEETS C701 - C703.
16. ROOF DRAIN CONNECTION.
17. FRENCH DRAIN, SEE DETAIL SHEET xxxx.

Scale 1" = 20'

0 10 20 40

MATCH LINE - SEE SHEET C401

MATCH LINE - SEE SHEET C404

WETLAND BUFFER

WETLAND BOUNDARY

1 CB-17
RIM 138.21
12" IE 134.68 OUT (S)

59 LF 12" SD @ S=0.0220

CB-18 1
RIM 138.45
12" IE 133.38 IN (N)
12" IE 134.38 OUT (S)

3 MH-3
RIM 137.77
12" IE 133.59 IN (NW)
12" IE 133.59 OUT (SE)

BIORETENTION 10
BOTTOM AREA
480 SQ FT

CB-19 2
RIM 135.65
12" IE 133.49 IN (NW)
6" PERF IE 133.25 IN (W)
6" PERF IE 133.25 IN (E)
12" IE 133.49 OUT (S)

CO-7 5
RIM 135.65
6" PERF IE 133.25 OUT (W)

42 LF 12" SD
@ S=0.0025

SANITARY (TYP)
SEE SHEET C502

WATER (TYP)
SEE SHEET C502

76 LF 12" SD
@ S=0.0035

36 LF 12" SD
@ S=0.0110

128 LF 12" SD @ S=0.0030

1 CB-16
RIM 136.85
6" IE 134.51 IN (S)
12" IE 134.26 OUT (E)

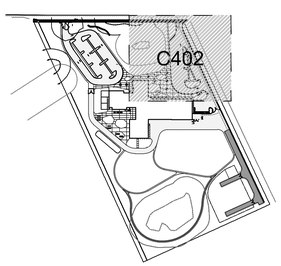
21 LF 6" SD
@ S=0.1050

1 CB-15
RIM 137.20
6" IE 136.68 OUT (N)

MH-2 3
RIM 137.92
12" IE 133.99 IN (W)
12" IE 133.98 IN (N)
12" IE 133.98 OUT (SE)

5 CO-6
RIM 136.92
6" PERF IE 135.40 OUT (E)

KEYMAP



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DD SUBMITTAL

C402

MATCH LINE - SEE SHEET C401

43 LF 6" SD @ S=0.0050

CB-12
RIM 134.40
6" IE 131.62 OUT (W)

MH-6
RIM 135.77
6" IE 131.40 IN (E)
12" IE 131.40 IN (S)
12" IE 131.40 OUT (NW)

27 LF 12" SD
@ S=0.0035

107 LF 12" SD @ S=0.0050

OF-3
12" IE 131.30 IN (SE)

75 LF 6" SD @ S=0.0050

CB-14
RIM 134.50
6" IE 131.21 IN (SE)
12" IE 131.72 OUT (N)

CB-13
RIM 134.45
6" IE 131.59 OUT (NW)

SANITARY (TYP)
SEE SHEET C503

CO-9
RIM 137.27
6" PERF IE 132.01 OUT (SW)

92 LF 6" SD PERF

WATER (TYP)
SEE SHEET C503

R60'

98 LF 6" SD PERF

62 LF 6" SD PERF

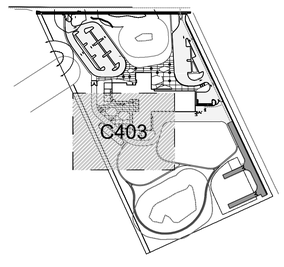
MATCH LINE - SEE SHEET C404

MATCH LINE - SEE SHEET C405

Scale 1" = 20'

0 10 20 40

KEYMAP



GENERAL NOTES

1. SEE SHEET xxxxx FOR ABBRREVIATIONS AND MASTER LEGEND. SEE SHEET xxxxx FOR GENERAL NOTES.
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15. SEE FRONTAGE IMPROVEMENTS SHEETS C701 - C703.
16. ROOF DRAIN CONNECTION.
17. FRENCH DRAIN, SEE DETAIL SHEET xxxx.

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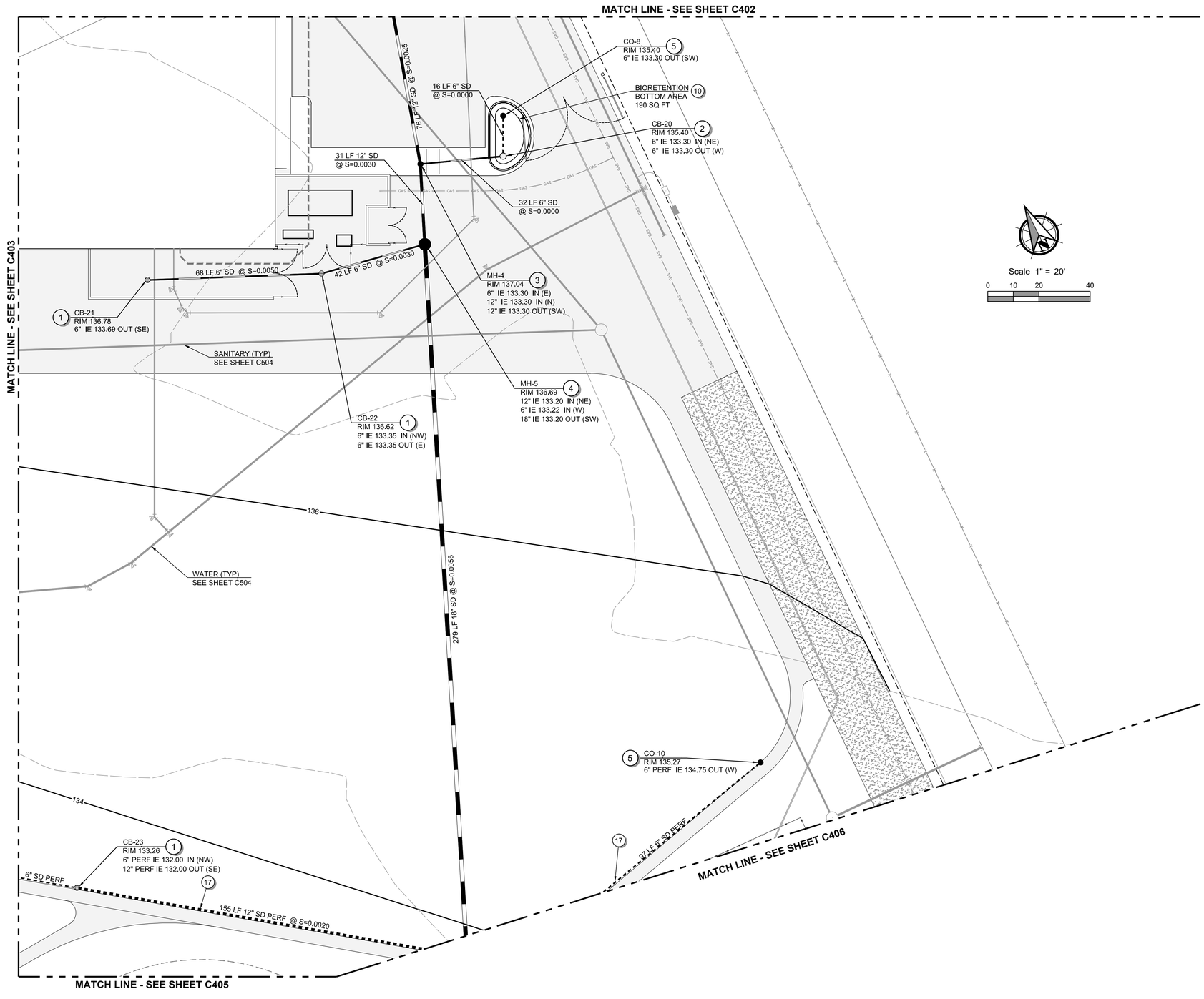
STORMWATER PLANS

DD SUBMITTAL

C403



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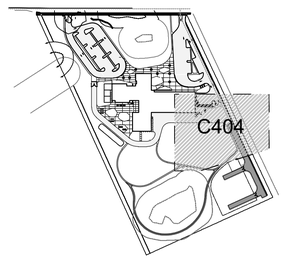
KEYMAP



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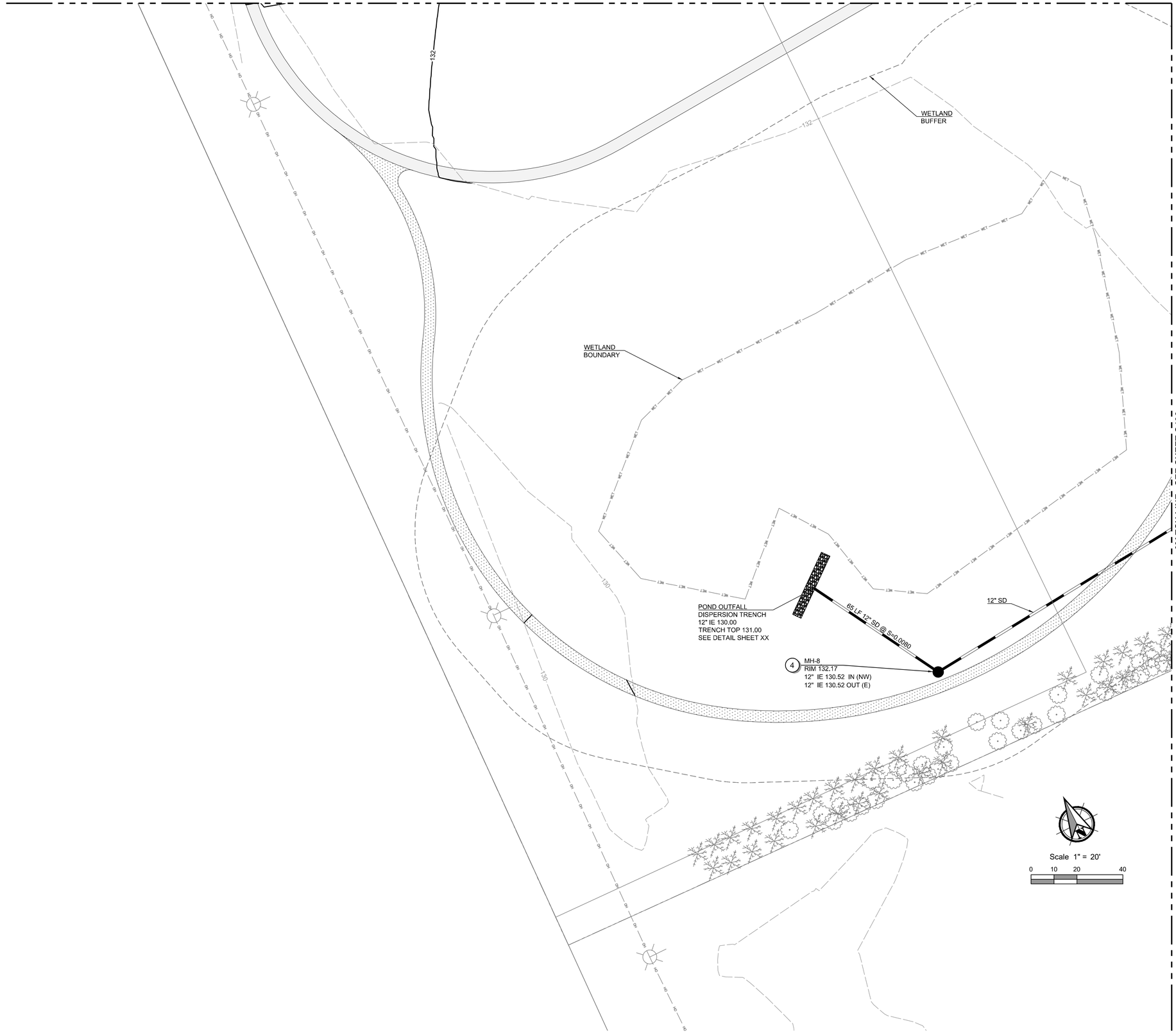
STORMWATER PLANS

DD SUBMITTAL

C404

MATCH LINE - SEE SHEET C404



MATCH LINE - SEE SHEET C406

GENERAL NOTES

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14. OUTFALL PROTECTION, SEE DETAIL SHEET xxxx.
15. SEE FRONTAGE IMPROVEMENTS SHEETS C701 - C703.
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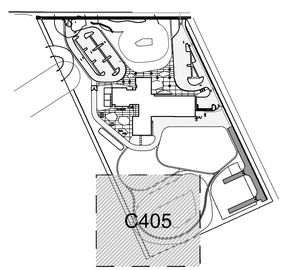
17. FRENCH DRAIN, SEE DETAIL SHEET xxxx.

KEYMAP



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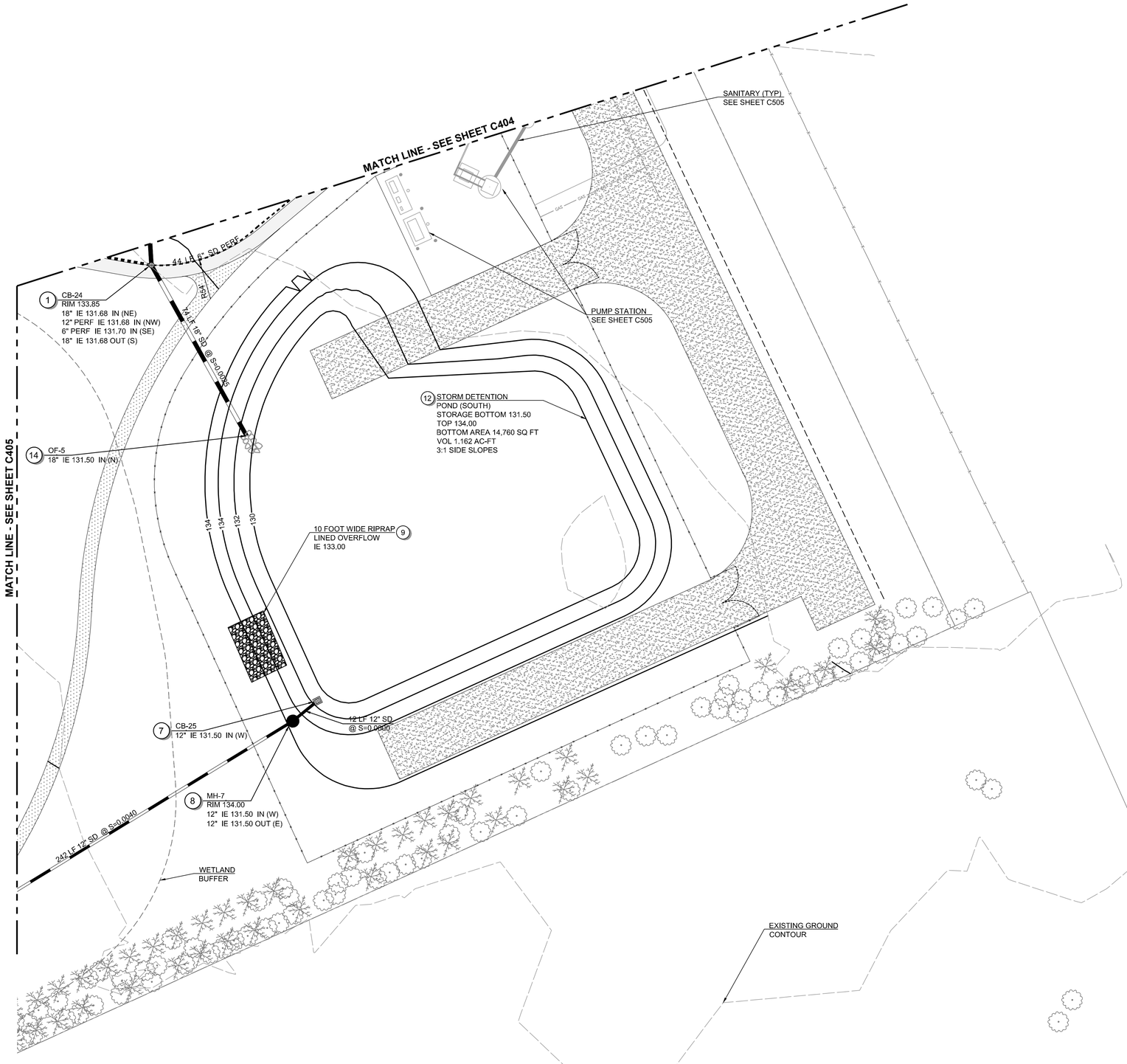
STORMWATER PLANS

DD SUBMITTAL

C405



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0 10 20 40

GENERAL NOTES

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17. FRENCH DRAIN, SEE DETAIL SHEET xxxx.

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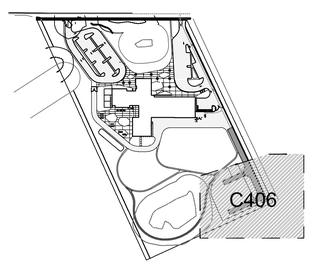

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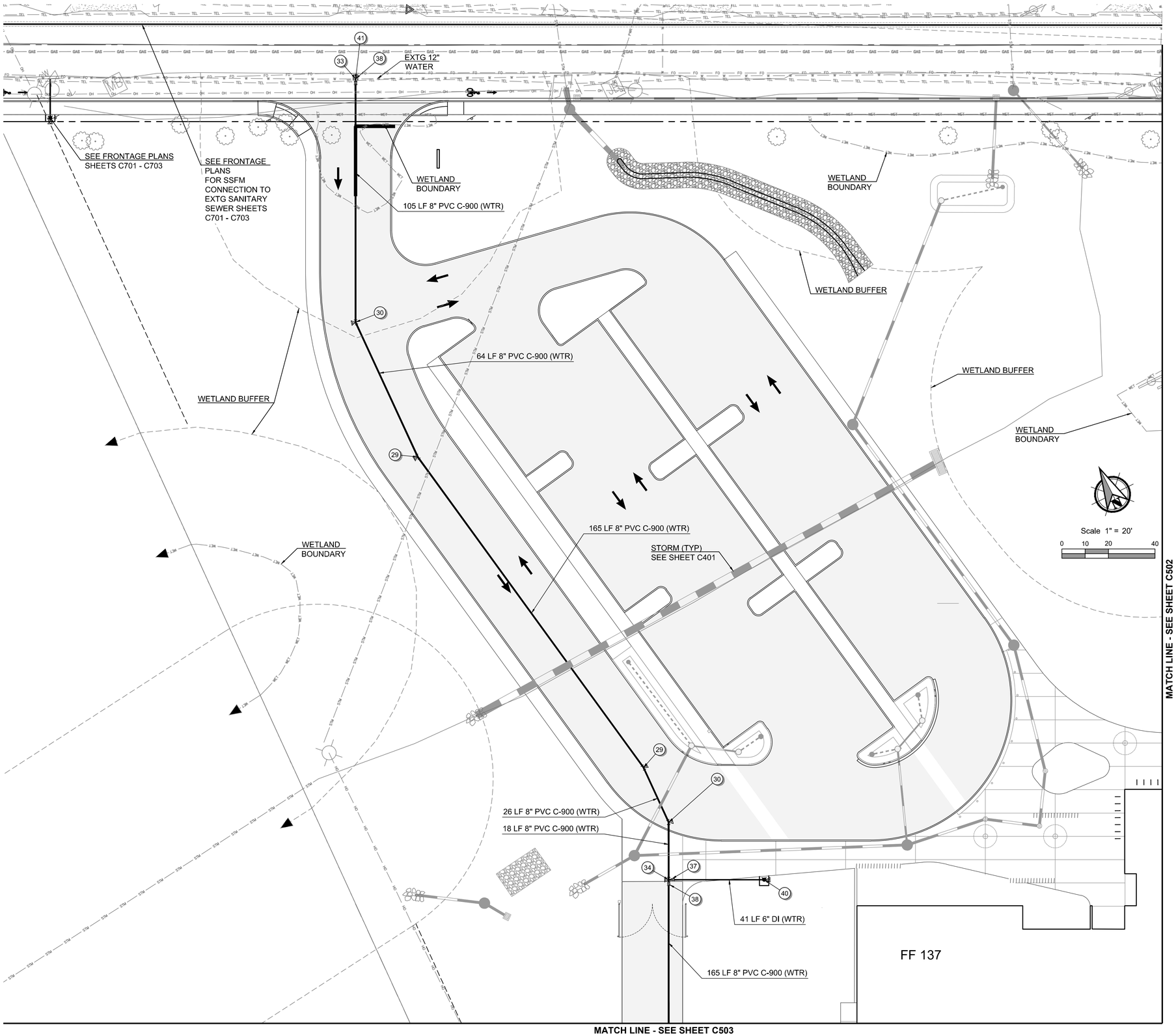
STORMWATER PLANS

DD SUBMITTAL

C406



GENERAL NOTES

1. SEE SHEET xxxxx FOR ABBRREVIATIONS AND MASTER LEGEND. SEE SHEET xxxxx FOR GENERAL NOTES.
2. SEE SHEET xxxx FOR RESTRAINT LENGTH TABLES AND DETAILS FOR THRUST BLOCKS.
3. SEE SHEET xxxx FOR CLARK PUD GENERAL WATER CONSTRUCTION NOTES.

WATER NOTES:

29. INSTALL 11-1/4° MJ BEND. RESTRAIN ALL JOINTS AND INSTALL THRUST BLOCK.
30. INSTALL 22-1/2° MJ BEND. RESTRAIN ALL JOINTS AND INSTALL THRUST BLOCK.
31. INSTALL 45° MJ BEND. RESTRAIN ALL JOINTS AND INSTALL THRUST BLOCK.
32. INSTALL 90° MJ BEND. RESTRAIN ALL JOINTS AND INSTALL THRUST BLOCK.
33. INSTALL 12" X 8" FLG X MJ TEE. RESTRAIN ALL JOINTS AND INSTALL THRUST BLOCK.
34. INSTALL 8" X 6" FLG X MJ TEE. RESTRAIN ALL JOINTS AND INSTALL THRUST BLOCK.
35. INSTALL 8" X 4" FLG X MJ TEE. RESTRAIN ALL JOINTS AND INSTALL THRUST BLOCK.
36. INSTALL 8" CAP. RESTRAIN ALL JOINTS AND INSTALL THRUST BLOCK.
37. INSTALL 6" FLG X MJ GATE VALVE.
38. INSTALL 8" FLG X MJ GATE VALVE.
39. INSTALL BLOW OFF ASSEMBLY, SEE DETAIL SHEET xxxx.
40. INSTALL STANDARD FIRE HYDRANT ASSEMBLY, SEE DETAIL SHEET xxxx.
41. AFTER TESTING AND APPROVAL, HOT TAP TO EXISTING 12" WATER MAIN. SEE SHEET XX.
42. CONNECT TO WATER INSIDE BUILDING. SEE PLUMBING PLANS. WA DOH APPROVED BACKFLOW DEVICE INSIDE BUILDING.
43. INSTALL 3" WATER METER BOX AND 3" METER, SEE DETAIL SHEET xxxx. COORDINATE WITH CITY OF LA CENTER FOR METER INSTALLATION.
44. INSTALL 8" X 8" FLG X MJ TEE. RESTRAIN ALL JOINTS AND INSTALL THRUST BLOCK.
45. INSTALL FDC, SEE DETAIL SHEET xxxx.
46. FDC CONNECTION, PER BIDDER DESIGN.
47. CONNECT TO WATER INSIDE BUILDING. SEE PLUMBING PLANS.
48. INSTALL 8" X 4" FLG X MJ REDUCER.
49. INSTALL 1" WATER METER, SEE DETAIL SHEET XX. COORDINATE WITH CITY OF LA CENTER FOR METER INSTALLATION.
50. INSTALL WA DOH APPROVED 1" BACKFLOW DEVICE. SEE DETAIL SHEET XXX.
51. TAP 8" DI WITH 1" HDPE

SANITARY SEWER NOTES:

70. INSTALL 48-IN SANITARY SEWER MANHOLE, SEE DETAIL SHEET xxxxx.
71. INSTALL LATERAL STUB MARKER, SEE DETAIL SHEET xxxx.
72. CONSTRUCT DUPLEX PUMP STATION, SEE DETAIL SHEETS xxxx-xxxx.
73. INSTALL RESTRAINED 11-1/4° BEND IN FORCE MAIN.
74. INSTALL RESTRAINED 45° BEND IN FORCE MAIN.
75. INSTALL RESTRAINED 90° BEND IN FORCE MAIN.
76. INSTALL 60-IN DIAM. WET WELL, SEE DETAIL SHEET xxxx.
77. 40 KW NATURAL GAS CONCRETE PAD-MOUNTED EMERGENCY GENERATOR. SEE STRUCTURAL PLANS FOR PAD AND ANCHORAGE DETAILS.
78. PUMP CONTROL PANEL, AUTOMATIC TRANSFER SWITCH, AND LOW VOLTAGE PANEL ON PRECAST CONCRETE PAD.
79. INSTALL 1,500 GALLON GREASE INTECEPTOR, SEE DETAIL SHEET xxxx.
80. INSTALL 24-IN SANITARY CLEANOUT, SEE DETAIL SHEET xxxxx.
81. SANITARY CONNECTION, PER BIDDER DESIGN

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725 HIGHLAND ROAD, LA CENTER, WA 98629

LA CENTER School District

NAC ARCHITECTURE
nacarchitecture.com
2025 FIRST AVENUE | SUITE 300
SEATTLE WA 98121
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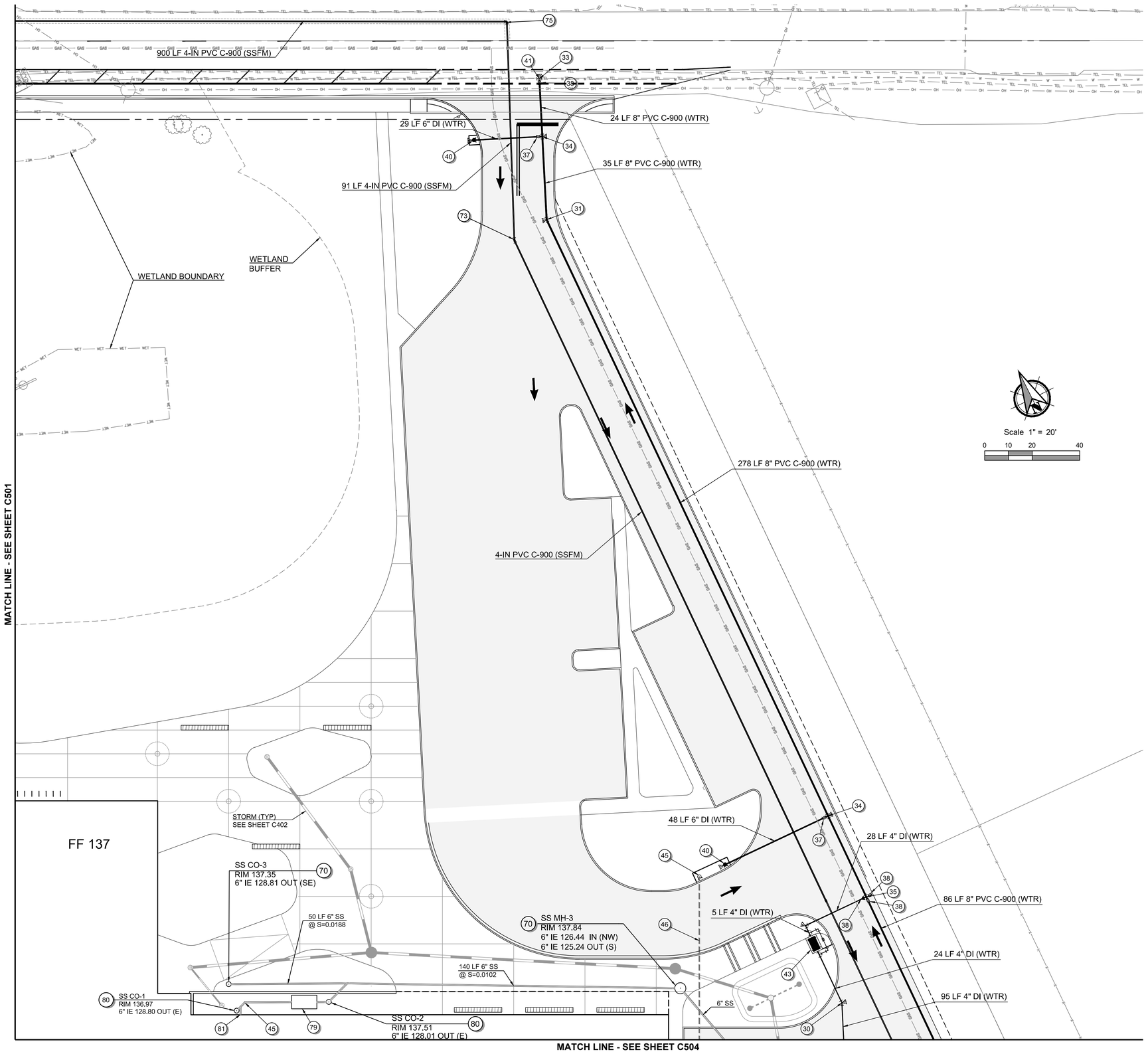
NAC NO	121-18009
DRAWN	JAB/JRM
CHECKED	EAP
DATE	10-18-2018

SANITARY SEWER AND WATER PLANS

DD SUBMITTAL

C501



GENERAL NOTES

1. SEE SHEET xxxxx FOR ABBRREVIATIONS AND MASTER LEGEND. SEE SHEET xxxxx FOR GENERAL NOTES.
2. SEE SHEET xxxx FOR RESTRAINT LENGTH TABLES AND DETAILS FOR THRUST BLOCKS.
3. SEE SHEET xxxx FOR CLARK PUD GENERAL WATER CONSTRUCTION NOTES.

WATER NOTES:

29 INSTALL 11-1/4º MJ BEND. RESTRAIN ALL JOINTS AND INSTALL THRUST BLOCK.

30 INSTALL 22-1/2º MJ BEND. RESTRAIN ALL JOINTS AND INSTALL THRUST BLOCK.

31 INSTALL 45º MJ BEND. RESTRAIN ALL JOINTS AND INSTALL THRUST BLOCK.

32 INSTALL 90º MJ BEND. RESTRAIN ALL JOINTS AND INSTALL THRUST BLOCK.

33 INSTALL 12" X 8" FLG X MJ TEE. RESTRAIN ALL JOINTS AND INSTALL THRUST BLOCK.

34 INSTALL 8" X 6" FLG X MJ TEE. RESTRAIN ALL JOINTS AND INSTALL THRUST BLOCK.

35 INSTALL 8" X 4" FLG X MJ TEE. RESTRAIN ALL JOINTS AND INSTALL THRUST BLOCK.

36 INSTALL 8" CAP. RESTRAIN ALL JOINTS AND INSTALL THRUST BLOCK.

37 INSTALL 6" FLG X MJ GATE VALVE.

38 INSTALL 8" FLG X MJ GATE VALVE.

39 INSTALL BLOW OFF ASSEMBLY, SEE DETAIL SHEET xxxx.

40 INSTALL STANDARD FIRE HYDRANT ASSEMBLY, SEE DETAIL SHEET xxxx.

41 AFTER TESTING AND APPROVAL, HOT TAP TO EXISTING 12" WATER MAIN. SEE SHEET XX.

42 CONNECT TO WATER INSIDE BUILDING. SEE PLUMBING PLANS. WA DOH APPROVED BACKFLOW DEVICE INSIDE BUILDING.

43 INSTALL 3" WATER METER BOX AND 3" METER, SEE DETAIL SHEET xxxx. COORDINATE WITH CITY OF LA CENTER FOR METER INSTALLATION.

44 INSTALL 8" X 8" FLG X MJ TEE. RESTRAIN ALL JOINTS AND INSTALL THRUST BLOCK.

45 INSTALL FDC, SEE DETAIL SHEET xxxx.

46 FDC CONNECTION, PER BIDDER DESIGN.

47 CONNECT TO WATER INSIDE BUILDING. SEE PLUMBING PLANS.

48 INSTALL 8" X 4" FLG X MJ REDUCER.

49 INSTALL 1" WATER METER, SEE DETAIL SHEET XX. COORDINATE WITH CITY OF LA CENTER FOR METER INSTALLATION.

50 INSTALL WA DOH APPROVED 1" BACKFLOW DEVICE. SEE DETAIL SHEET XXX.

51 TAP 8" DI WITH 1" HDPE

SANITARY SEWER NOTES:

70 INSTALL 48-IN SANITARY SEWER MANHOLE, SEE DETAIL SHEET xxxxx.

71 INSTALL LATERAL STUB MARKER, SEE DETAIL SHEET xxxx.

72 CONSTRUCT DUPLEX PUMP STATION, SEE DETAIL SHEETS xxxx-xxxx.

73 INSTALL RESTRAINED 11-1/4° BEND IN FORCE MAIN.

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75 INSTALL RESTRAINED 90° BEND IN FORCE MAIN.

76 INSTALL 60-IN DIAM. WET WELL, SEE DETAIL SHEET xxxx.

77 40 KW NATURAL GAS CONCRETE PAD-MOUNTED EMERGENCY GENERATOR. SEE STRUCTURAL PLANS FOR PAD AND ANCHORAGE DETAILS.

78 PUMP CONTROL PANEL, AUTOMATIC TRANSFER SWITCH, AND LOW VOLTAGE PANEL ON PRECAST CONCRETE PAD.

79 INSTALL 1,500 GALLON GREASE INTECEPTOR, SEE DETAIL SHEET xxxx.

80 INSTALL 24-IN SANITARY CLEANOUT, SEE DETAIL SHEET xxxxx.

81 SANITARY CONNECTION, PER BIDDER DESIGN

REVISIONS

DESIGN DEVELOPMENT

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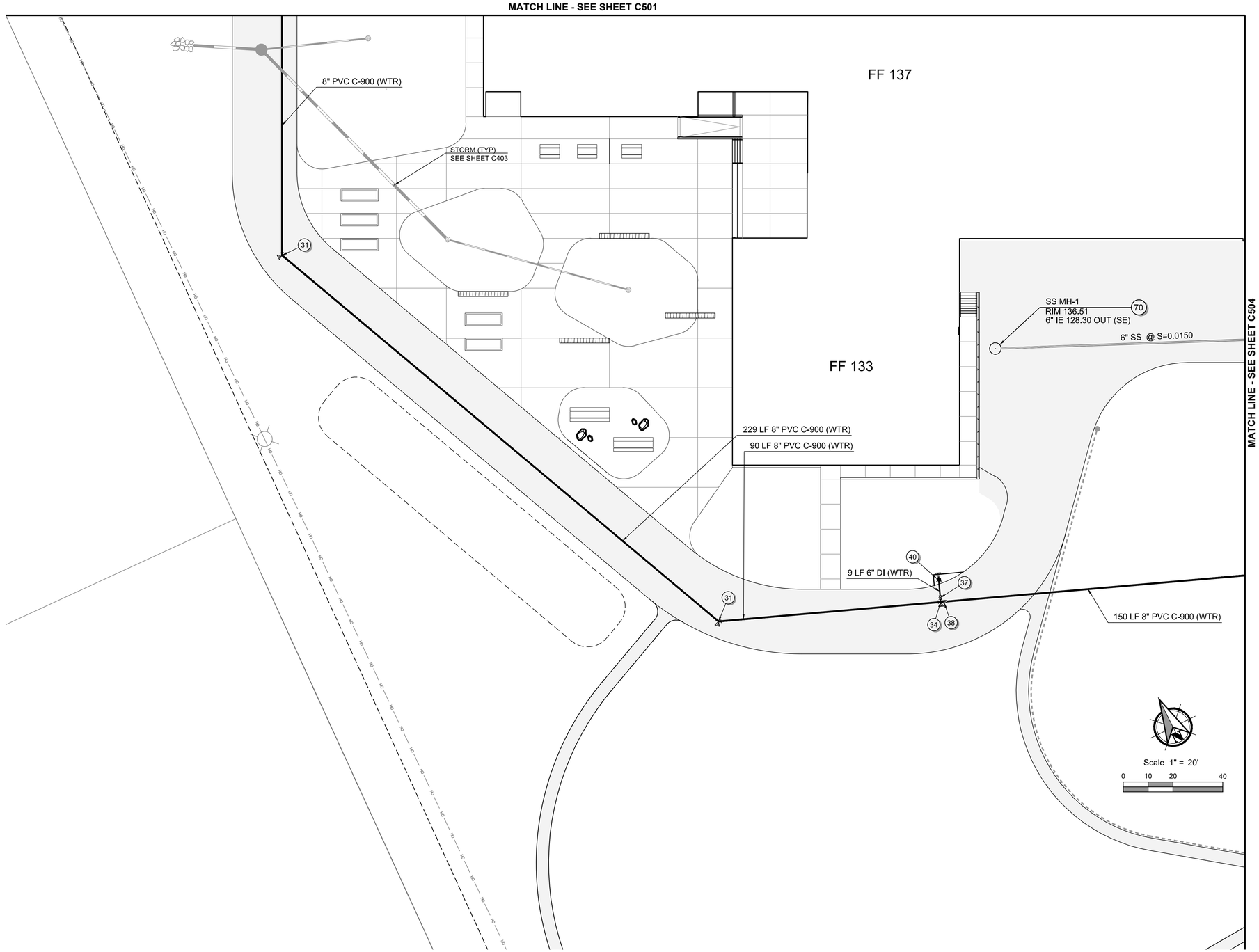
DD SUBMITTAL

C502



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(41) AFTER TESTING AND APPROVAL, HOT TAP TO EXISTING 12" WATER MAIN. SEE SHEET XX.

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(45) INSTALL FDC, SEE DETAIL SHEET xxxx.

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(50) INSTALL WA DOH APPROVED 1" BACKFLOW DEVICE. SEE DETAIL SHEET XXX.

(51) TAP 8" DI WITH 1" HDPE

SANITARY SEWER NOTES:

(70) INSTALL 48-IN SANITARY SEWER MANHOLE, SEE DETAIL SHEET xxxxx.

(71) INSTALL LATERAL STUB MARKER, SEE DETAIL SHEET xxxx.

(72) CONSTRUCT DUPLEX PUMP STATION, SEE DETAIL SHEETS xxxx-xxxx.

(73) INSTALL RESTRAINED 11-1/4° BEND IN FORCE MAIN.

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(78) PUMP CONTROL PANEL, AUTOMATIC TRANSFER SWITCH, AND LOW VOLTAGE PANEL ON PRECAST CONCRETE PAD.

(79) INSTALL 1,500 GALLON GREASE INTECEPTOR, SEE DETAIL SHEET xxxx.

(80) INSTALL 24-IN SANITARY CLEANOUT, SEE DETAIL SHEET xxxxx.

(81) SANITARY CONNECTION, PER BIDDER DESIGN

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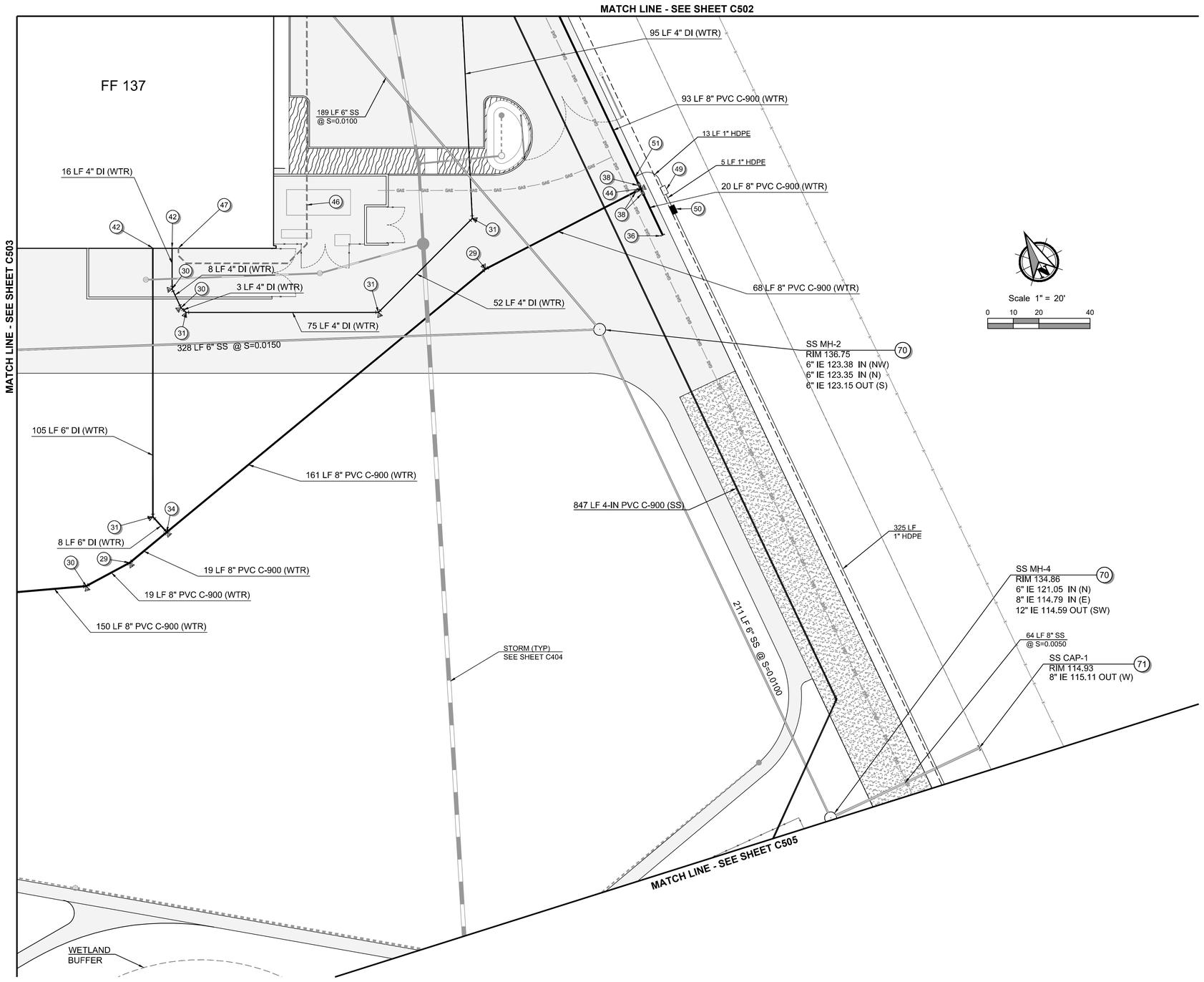
C503



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WATER NOTES:

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81. SANITARY CONNECTION, PER BIDDER DESIGN

REVISIONS

DESIGN DEVELOPMENT

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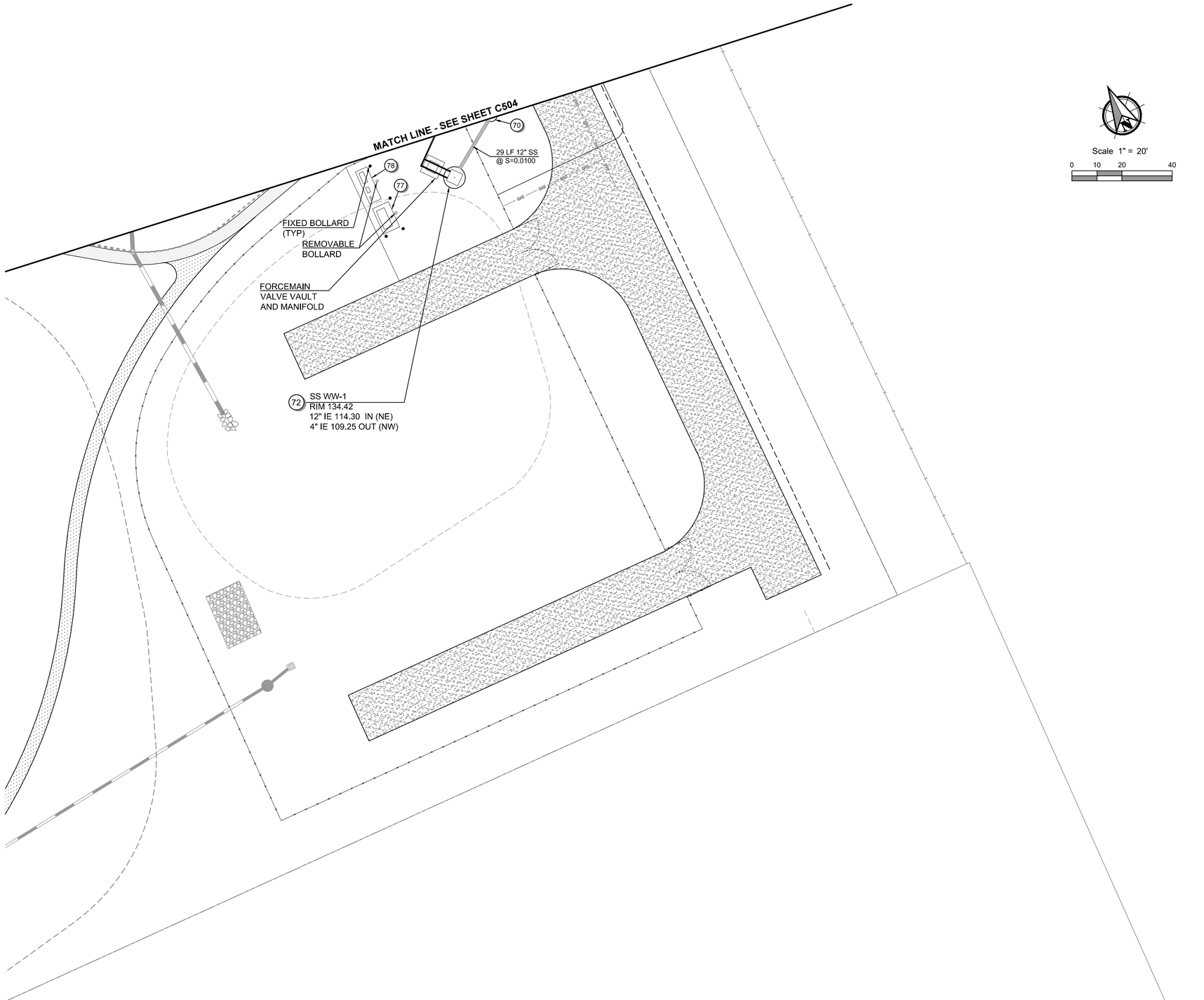
SANITARY SEWER AND WATER PLANS

DD SUBMITTAL

C504



Scale 1" = 20'

0 10 20 40

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REVISIONS

DESIGN DEVELOPMENT

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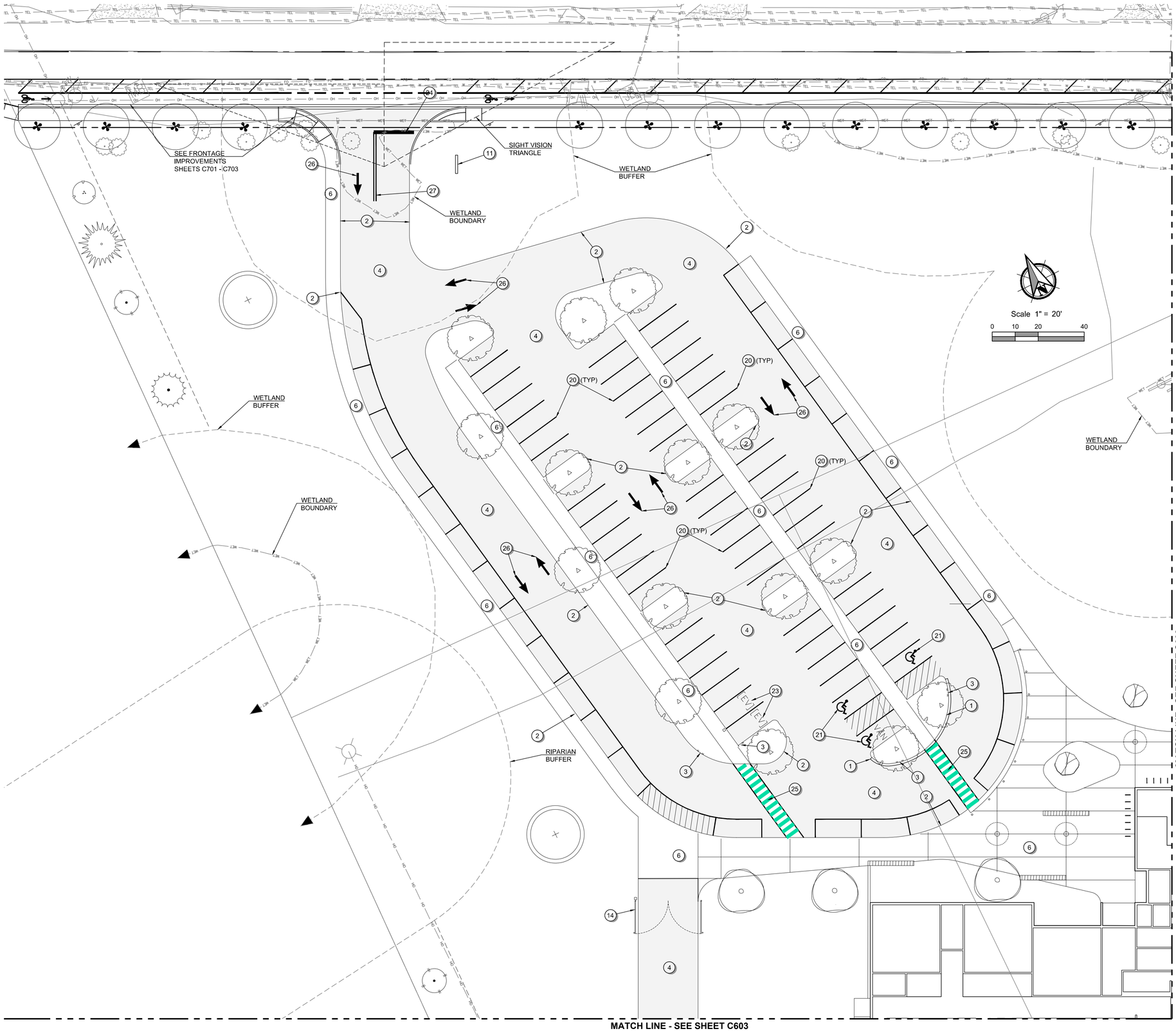

GENERAL NOTES

1. SEE SHEET C001 FOR ABBRREVIATIONS AND MASTER LEGEND. SEE SHEET C002 FOR GENERAL NOTES.
2. SEE SITE PLAN FOR DIMENSIONS.

STREET NOTES:

1. CONSTRUCT CEMENT CONCRETE CURB & GUTTER, SEE CITY OF LA CENTER STD. PLAN ST-5, SHEET xxxxx.
2. CONSTRUCT CEMENT CONCRETE TRAFFIC CURB, SEE DETAIL SHEET xxxxx.
3. CONSTRUCT CONCRETE CURB SCUPPER, SEE DETAIL SHEET xxxxx.
4. ASPHALT PAVING, SEE TYPICAL SECTION, SHEET xxxxx.
5. GRAVEL DRIVE, SEE TYPICAL SECTION, SHEET xxxx.
6. CEMENT CONCRETE SIDEWALK, SEE LANDSCAPE PLANS.
7. CONSTRUCT SINGLE DIRECTIONAL CURB RAMP, SEE DETAIL SHEET xxxx AND CITY OF LA CENTER STD. PLAN ST-7A SHEET xxxx.
8. INSTALL CONCRETE PAD FOR FIRE HYDRANT PER STANDARD FIRE HYDRANT DETAIL SHEET xxxxx.
9. CONSTRUCT SIDEWALK CROSS DRAIN, SEE DETAIL SHEET xxxxx.
10. WOODCHIP PATH. SEE LANDSCAPE PLANS
11. MONUMENT SIGN. SEE ARCHITECTURAL PLANS
12. ASPHALT PEDESTRIAN PATH. SEE TYPICAL SECTION SHEET xxxx
13. GRAVEL PEDESTRIAN PATH, SEE LANDSCAPE PLANS
14. FENCE/GATE, SEE LANDSCAPE PLANS

PAVEMENT MARKING NOTES:

20. STANDARD PARKING STALL PER DETAIL SHEET xxxx.
21. ADA PARKING STALL PER DETAIL SHEET xxxxx.
22. BUS PARKING, PER DETAIL SHEET xxxxx.
23. ELECTRIC VEHICLE PARKING STALL, PER DETAIL SHEET xxxxx.
24. INSTALL PAINTED 18" WHITE STOP LINE PER WSDOT STD PLAN M-24.60, SEE DETAIL SHEET xxxxx.
25. INSTALL PLASTIC CROSSWALK STRIPING PER WSDOT STD PLAN F-15.10, SEE DETAIL SHEET xxxxx.
26. INSTALL PLASTIC TYPE 1S TRAFFIC ARROW PER WSDOT STD PLAN M-24.40, SEE DETAIL SHEET xxxx.
27. INSTALL 4" WIDE PAINTED YELLOW CENTERLINE STRIPE PER WSDOT STD PLAN M-20.10, SEE DETAIL SHEET xxxx.

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ON-SITE STREET AND PARKING PLANS

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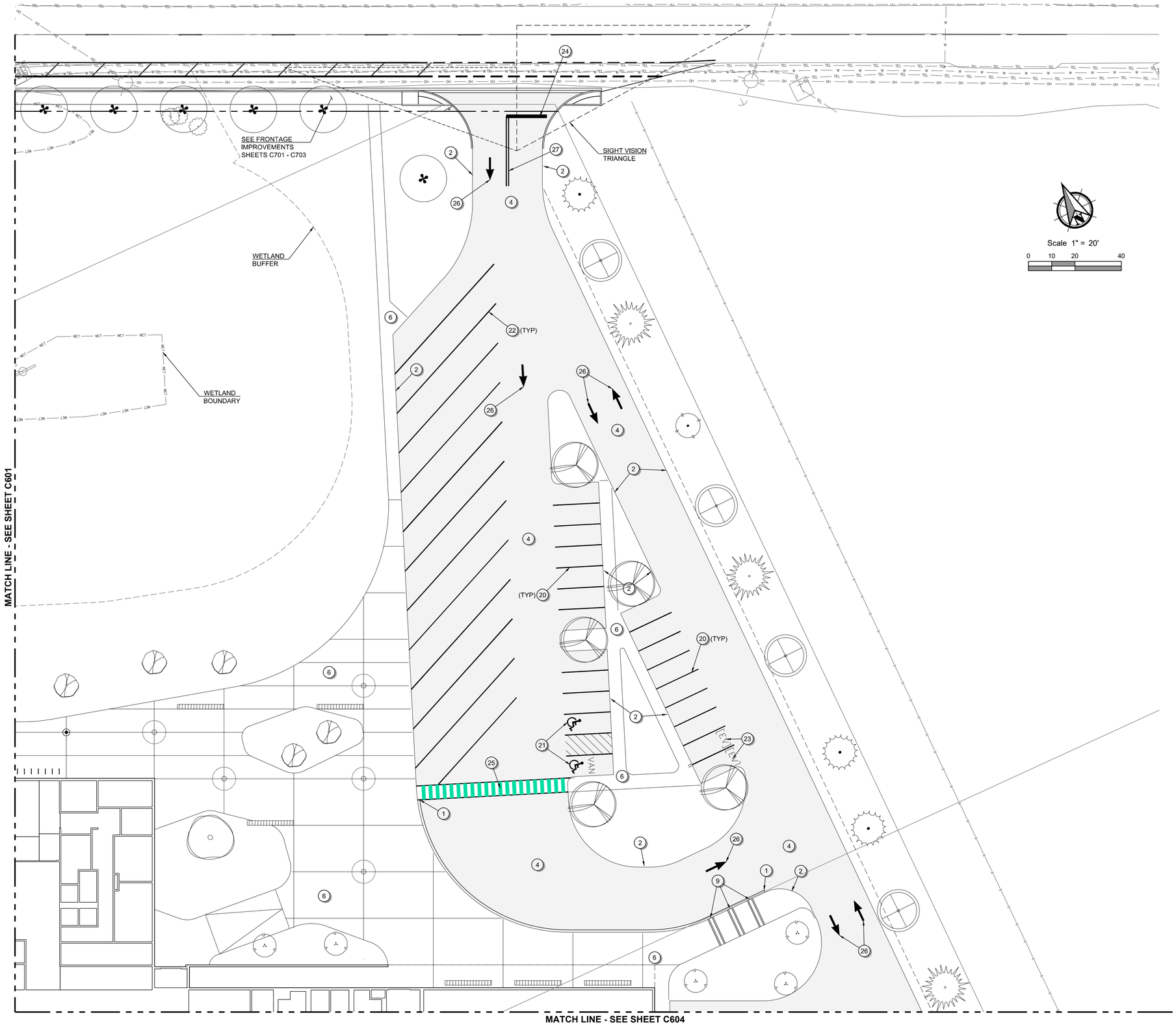
C601



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26. INSTALL PLASTIC TYPE 1S TRAFFIC ARROW PER WSDOT STD PLAN M-24.40, SEE DETAIL SHEET xxxx.
27. INSTALL 4" WIDE PAINTED YELLOW CENTERLINE STRIPE PER WSDOT STD PLAN M-20.10, SEE DETAIL SHEET xxxx.

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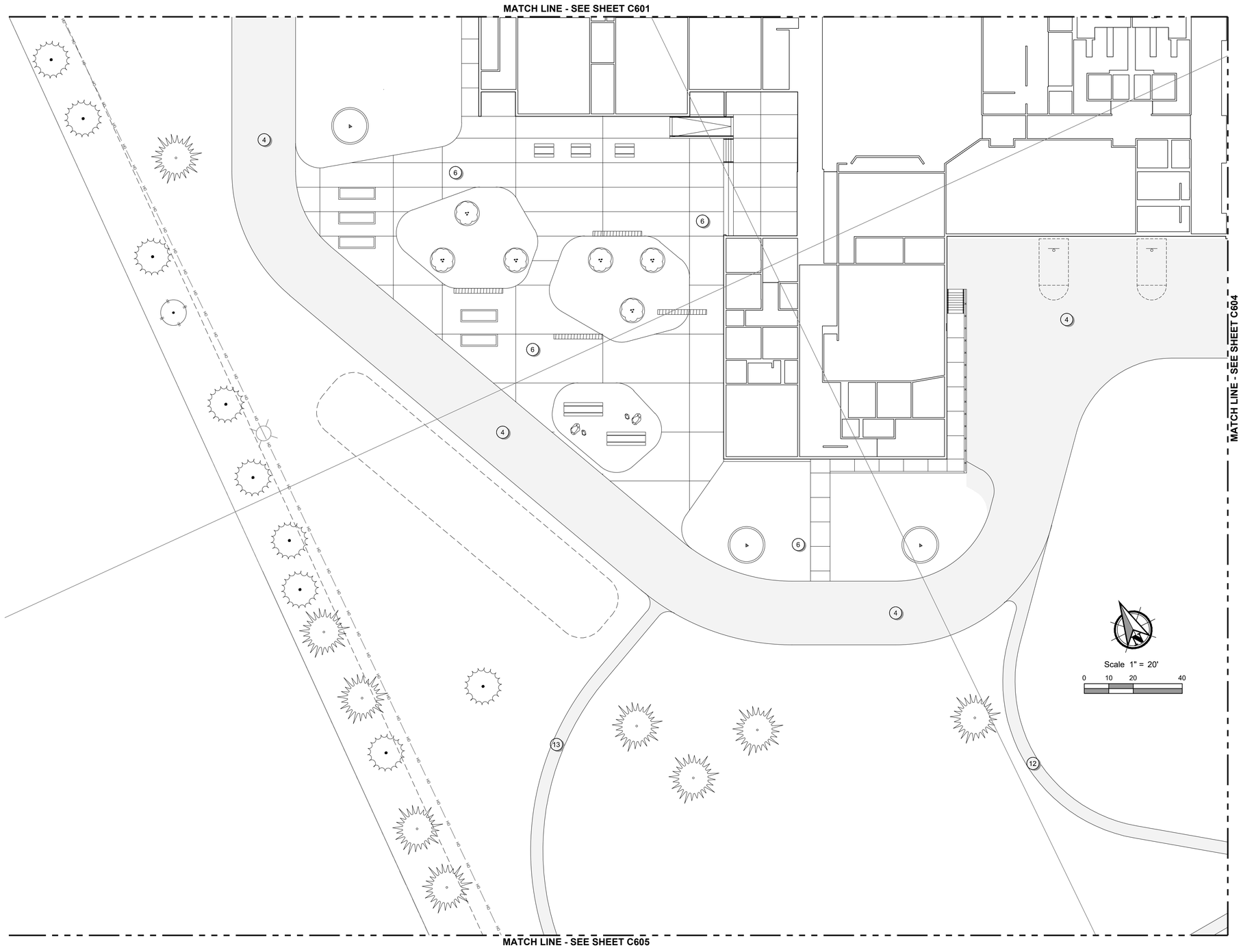
ON-SITE STREET AND PARKING PLANS

DD SUBMITTAL

C602



GENERAL NOTES

1. SEE SHEET C001 FOR ABBRREVIATIONS AND MASTER LEGEND. SEE SHEET C002 FOR GENERAL NOTES.
2. SEE SITE PLAN FOR DIMENSIONS.

STREET NOTES:

1. CONSTRUCT CEMENT CONCRETE CURB & GUTTER, SEE CITY OF LA CENTER STD. PLAN ST-5, SHEET xxxxx.
2. CONSTRUCT CEMENT CONCRETE TRAFFIC CURB, SEE DETAIL SHEET xxxxx.
3. CONSTRUCT CONCRETE CURB SCUPPER, SEE DETAIL SHEET xxxxx.
4. ASPHALT PAVING, SEE TYPICAL SECTION, SHEET xxxxx.
5. GRAVEL DRIVE, SEE TYPICAL SECTION, SHEET xxxx.
6. CEMENT CONCRETE SIDEWALK, SEE LANDSCAPE PLANS.
7. CONSTRUCT SINGLE DIRECTIONAL CURB RAMP, SEE DETAIL SHEET xxxx AND CITY OF LA CENTER STD. PLAN ST-7A SHEET xxxx.
8. INSTALL CONCRETE PAD FOR FIRE HYDRANT PER STANDARD FIRE HYDRANT DETAIL SHEET xxxxx.
9. CONSTRUCT SIDEWALK CROSS DRAIN, SEE DETAIL SHEET xxxxx.
10. WOODCHIP PATH. SEE LANDSCAPE PLANS
11. MONUMENT SIGN. SEE ARCHITECTURAL PLANS
12. ASPHALT PEDESTRIAN PATH. SEE TYPICAL SECTION SHEET xxxx
13. GRAVEL PEDESTRIAN PATH, SEE LANDSCAPE PLANS
14. FENCE/GATE, SEE LANDSCAPE PLANS

PAVEMENT MARKING NOTES:

20. STANDARD PARKING STALL PER DETAIL SHEET xxxx.
21. ADA PARKING STALL PER DETAIL SHEET xxxxx.
22. BUS PARKING, PER DETAIL SHEET xxxxx.
23. ELECTRIC VEHICLE PARKING STALL, PER DETAIL SHEET xxxxx.
24. INSTALL PAINTED 18" WHITE STOP LINE PER WSDOT STD PLAN M-24.60, SEE DETAIL SHEET xxxxx.
25. INSTALL PLASTIC CROSSWALK STRIPING PER WSDOT STD PLAN F-15.10, SEE DETAIL SHEET xxxxx.
26. INSTALL PLASTIC TYPE 1S TRAFFIC ARROW PER WSDOT STD PLAN M-24.40, SEE DETAIL SHEET xxxx.
27. INSTALL 4" WIDE PAINTED YELLOW CENTERLINE STRIPE PER WSDOT STD PLAN M-20.10, SEE DETAIL SHEET xxxx.

REVISIONS

DESIGN DEVELOPMENT

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LA CENTER NEW MIDDLE SCHOOL

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LA CENTER School District

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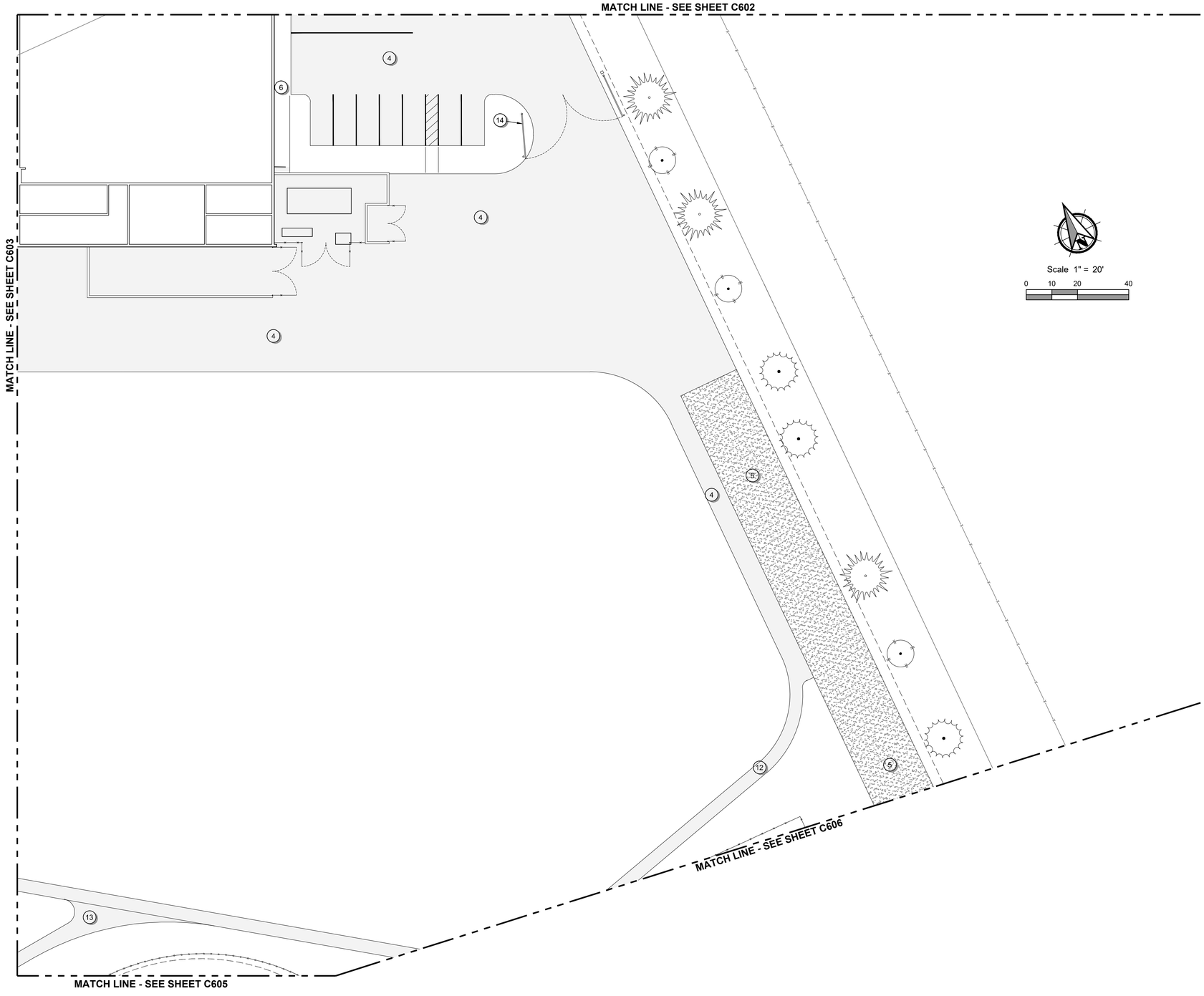
NAC NO	121-18009
DRAWN	JAB/JRM
CHECKED	EAP
DATE	10-18-2018

ON-SITE STREET AND PARKING PLANS

DD SUBMITTAL

C603



GENERAL NOTES

1. SEE SHEET C001 FOR ABBRREVIATIONS AND MASTER LEGEND. SEE SHEET C002 FOR GENERAL NOTES.
2. SEE SITE PLAN FOR DIMENSIONS.

STREET NOTES:

1. CONSTRUCT CEMENT CONCRETE CURB & GUTTER, SEE CITY OF LA CENTER STD. PLAN ST-5, SHEET xxxxx.
2. CONSTRUCT CEMENT CONCRETE TRAFFIC CURB, SEE DETAIL SHEET xxxxx.
3. CONSTRUCT CONCRETE CURB SCUPPER, SEE DETAIL SHEET xxxxx.
4. ASPHALT PAVING, SEE TYPICAL SECTION, SHEET xxxxx.
5. GRAVEL DRIVE, SEE TYPICAL SECTION, SHEET xxxx.
6. CEMENT CONCRETE SIDEWALK, SEE LANDSCAPE PLANS.
7. CONSTRUCT SINGLE DIRECTIONAL CURB RAMP, SEE DETAIL SHEET xxxx AND CITY OF LA CENTER STD. PLAN ST-7A SHEET xxxx.
8. INSTALL CONCRETE PAD FOR FIRE HYDRANT PER STANDARD FIRE HYDRANT DETAIL SHEET xxxxx.
9. CONSTRUCT SIDEWALK CROSS DRAIN, SEE DETAIL SHEET xxxxx.
10. WOODCHIP PATH. SEE LANDSCAPE PLANS
11. MONUMENT SIGN. SEE ARCHITECTURAL PLANS
12. ASPHALT PEDESTRIAN PATH. SEE TYPICAL SECTION SHEET xxxx
13. GRAVEL PEDESTRIAN PATH, SEE LANDSCAPE PLANS
14. FENCE/GATE, SEE LANDSCAPE PLANS

PAVEMENT MARKING NOTES:

20. STANDARD PARKING STALL PER DETAIL SHEET xxxx.
21. ADA PARKING STALL PER DETAIL SHEET xxxxx.
22. BUS PARKING, PER DETAIL SHEET xxxxx.
23. ELECTRIC VEHICLE PARKING STALL, PER DETAIL SHEET xxxxx.
24. INSTALL PAINTED 18" WHITE STOP LINE PER WSDOT STD PLAN M-24.60, SEE DETAIL SHEET xxxxx.
25. INSTALL PLASTIC CROSSWALK STRIPING PER WSDOT STD PLAN F-15.10, SEE DETAIL SHEET xxxxx.
26. INSTALL PLASTIC TYPE 1S TRAFFIC ARROW PER WSDOT STD PLAN M-24.40, SEE DETAIL SHEET xxxx.
27. INSTALL 4" WIDE PAINTED YELLOW CENTERLINE STRIPE PER WSDOT STD PLAN M-20.10, SEE DETAIL SHEET xxxx.

REVISIONS

DESIGN DEVELOPMENT

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ON-SITE STREET AND PARKING PLANS

DD SUBMITTAL

C604

MATCH LINE - SEE SHEET C603

GENERAL NOTES

1. SEE SHEET C001 FOR ABBRREVIATIONS AND MASTER LEGEND. SEE SHEET C002 FOR GENERAL NOTES.
2. SEE SITE PLAN FOR DIMENSIONS.

STREET NOTES:

1. CONSTRUCT CEMENT CONCRETE CURB & GUTTER, SEE CITY OF LA CENTER STD. PLAN ST-5, SHEET xxxxx.
2. CONSTRUCT CEMENT CONCRETE TRAFFIC CURB, SEE DETAIL SHEET xxxxx.
3. CONSTRUCT CONCRETE CURB SCUPPER, SEE DETAIL SHEET xxxxx.
4. ASPHALT PAVING, SEE TYPICAL SECTION, SHEET xxxxx.
5. GRAVEL DRIVE, SEE TYPICAL SECTION, SHEET xxxx.
6. CEMENT CONCRETE SIDEWALK, SEE LANDSCAPE PLANS.
7. CONSTRUCT SINGLE DIRECTIONAL CURB RAMP, SEE DETAIL SHEET xxx AND CITY OF LA CENTER STD. PLAN ST-7A SHEET xxxx.
8. INSTALL CONCRETE PAD FOR FIRE HYDRANT PER STANDARD FIRE HYDRANT DETAIL SHEET xxxxx.
9. CONSTRUCT SIDEWALK CROSS DRAIN, SEE DETAIL SHEET xxxxx.
10. WOODCHIP PATH. SEE LANDSCAPE PLANS
11. MONUMENT SIGN. SEE ARCHITECTURAL PLANS
12. ASPHALT PEDESTRIAN PATH. SEE TYPICAL SECTION SHEET xxxx
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14. FENCE/GATE, SEE LANDSCAPE PLANS

PAVEMENT MARKING NOTES:

20. STANDARD PARKING STALL PER DETAIL SHEET xxxx.
21. ADA PARKING STALL PER DETAIL SHEET xxxxx.
22. BUS PARKING, PER DETAIL SHEET xxxxx.
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24. INSTALL PAINTED 18" WHITE STOP LINE PER WSDOT STD PLAN M-24.60, SEE DETAIL SHEET xxxxx.
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26. INSTALL PLASTIC TYPE 1S TRAFFIC ARROW PER WSDOT STD PLAN M-24.40, SEE DETAIL SHEET xxxx.
27. INSTALL 4" WIDE PAINTED YELLOW CENTERLINE STRIPE PER WSDOT STD PLAN M-20.10, SEE DETAIL SHEET xxxx.

REVISIONS

DESIGN DEVELOPMENT

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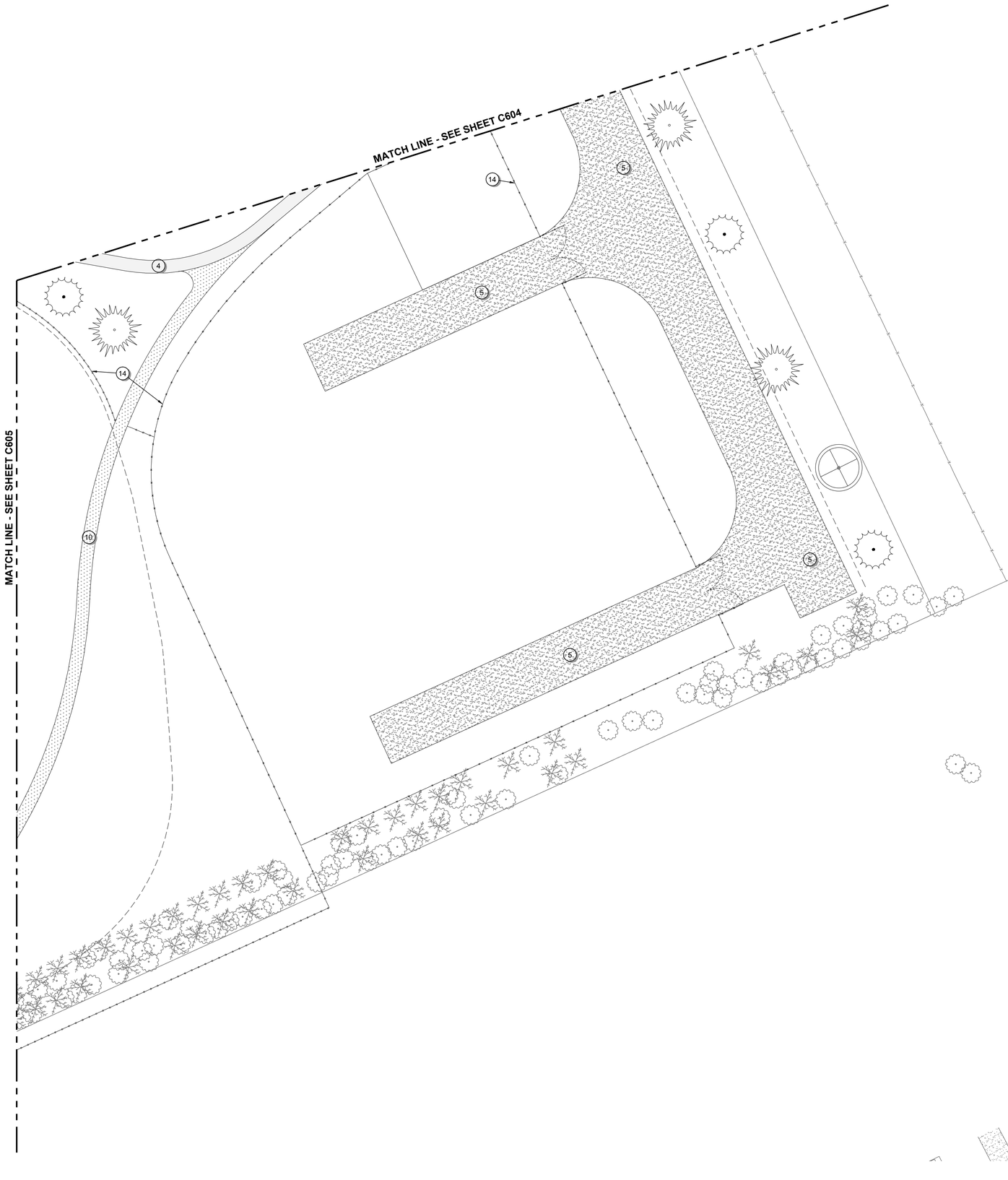
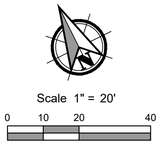
ON-SITE STREET AND PARKING PLANS

DD SUBMITTAL

C605





GENERAL NOTES

1. SEE SHEET C001 FOR ABBRREVIATIONS AND MASTER LEGEND. SEE SHEET C002 FOR GENERAL NOTES.
2. SEE SITE PLAN FOR DIMENSIONS.

STREET NOTES:

1. CONSTRUCT CEMENT CONCRETE CURB & GUTTER, SEE CITY OF LA CENTER STD. PLAN ST-5, SHEET xxxxx.
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3. CONSTRUCT CONCRETE CURB SCUPPER, SEE DETAIL SHEET xxxxx.
4. ASPHALT PAVING, SEE TYPICAL SECTION, SHEET xxxxx.
5. GRAVEL DRIVE, SEE TYPICAL SECTION, SHEET xxxx.
6. CEMENT CONCRETE SIDEWALK, SEE LANDSCAPE PLANS.
7. CONSTRUCT SINGLE DIRECTIONAL CURB RAMP, SEE DETAIL SHEET xxxx AND CITY OF LA CENTER STD. PLAN ST-7A SHEET xxxx.
8. INSTALL CONCRETE PAD FOR FIRE HYDRANT PER STANDARD FIRE HYDRANT DETAIL SHEET xxxxx.
9. CONSTRUCT SIDEWALK CROSS DRAIN, SEE DETAIL SHEET xxxxx.
10. WOODCHIP PATH. SEE LANDSCAPE PLANS
11. MONUMENT SIGN. SEE ARCHITECTURAL PLANS
12. ASPHALT PEDESTRIAN PATH. SEE TYPICAL SECTION SHEET xxxx
13. GRAVEL PEDESTRIAN PATH, SEE LANDSCAPE PLANS
14. FENCE/GATE, SEE LANDSCAPE PLANS

PAVEMENT MARKING NOTES:

20. STANDARD PARKING STALL PER DETAIL SHEET xxxx.
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23. ELECTRIC VEHICLE PARKING STALL, PER DETAIL SHEET xxxxx.
24. INSTALL PAINTED 18" WHITE STOP LINE PER WSDOT STD PLAN M-24.60, SEE DETAIL SHEET xxxxx.
25. INSTALL PLASTIC CROSSWALK STRIPING PER WSDOT STD PLAN F-15.10, SEE DETAIL SHEET xxxxx.
26. INSTALL PLASTIC TYPE 1S TRAFFIC ARROW PER WSDOT STD PLAN M-24.40, SEE DETAIL SHEET xxxx.
27. INSTALL 4" WIDE PAINTED YELLOW CENTERLINE STRIPE PER WSDOT STD PLAN M-20.10, SEE DETAIL SHEET xxxx.

REVISIONS

DESIGN DEVELOPMENT

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NAC NO	121-18009
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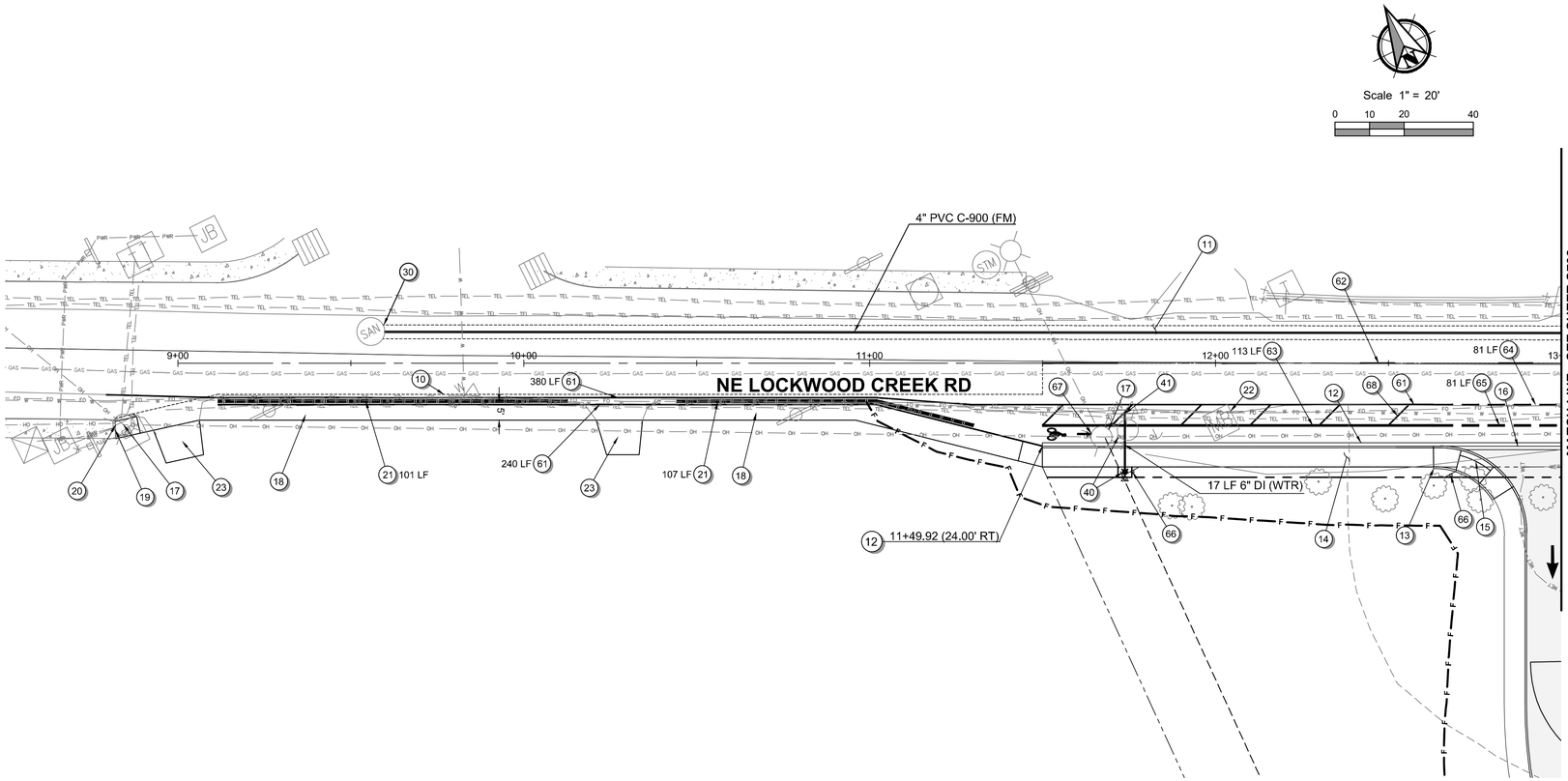
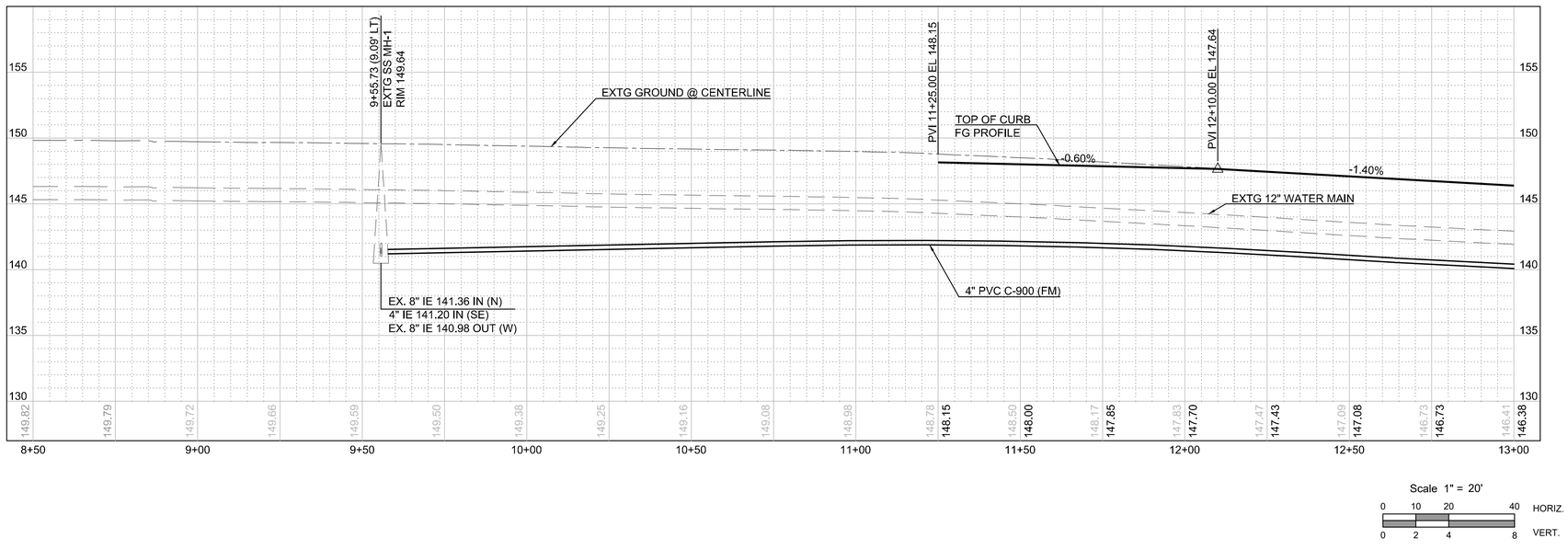
ON-SITE STREET AND PARKING PLANS

DD SUBMITTAL

C606





Scale 1" = 20'
0 10 20 40 HORIZ.
0 2 4 8 VERT.

GENERAL NOTES

1. SEE SHEET xxxxx FOR ABBRREVIATIONS AND MASTER LEGEND. SEE SHEET xxxxx FOR GENERAL NOTES.
2. SEE SHEET xxxxx FOR ROADWAY TYPICAL SECTIONS.
3. CONTRACTOR TO POTHOLE AND VERIFY LOCATION AND DEPTH OF EXISTING UTILITIES. CONTRACTOR TO NOTIFY ENGINEER IF EXISTING UTILITIES CONFLICT WITH DESIGN UTILITIES.

STREET NOTES:

10. SAWCUT EXISTING HMA AND MATCH EXISTING.
11. UTILITY TRENCH AND RESTORATION, SEE CITY OF LA CENTER STD. PLAN ST-17, SHEET xxxx.
12. CONSTRUCT CEMENT CONCRETE CURB & GUTTER, SEE CITY OF LA CENTER STD. PLAN ST-5, SHEET xxxxx.
13. CONSTRUCT CEMENT CONCRETE TRAFFIC CURB, SEE DETAIL SHEET xxxxx.
14. CEMENT CONCRETE SIDEWALK, SEE LANDSCAPE PLANS.
15. CONSTRUCT SINGLE DIRECTIONAL CURB RAMP, SEE DETAIL SHEET xxxx AND CITY OF LA CENTER STD. PLAN ST-7A SHEET xxxx.
16. VALLEY GUTTER, SEE DETAIL SHEET xxxxx.
17. POLE TO BE RELOCATED BY CPU. COORDINATE WITH STEVE LATTANZI (360-992-8771).
18. ASPHALT PAVING, SEE TYPICAL SECTION xxxx.
19. MATCH EXISTING EDGE OF SIDEWALK.
20. REMOVE EXISTING BARRICADE.
21. INSTALL TUFF CURB (OR APPROVED EQUAL) WITH DELINEATOR POSTS.
22. MAILBOX RELOCATION TO BE COORDINATED WITH POST MASTER.
23. REGRADE EXISTING DRIVEWAY.

SANITARY SEWER NOTES:

30. CONNECT TO EXISTING SANITARY MANHOLE. COAT INSIDE MANHOLE WITH RAVEN COATING OR APPROVED EQUIVALENT.

WATER NOTES:

40. RELOCATE EXISTING FIRE HYDRANT. INSTALL CONCRETE PAD PER STANDARD FIRE HYDRANT DETAIL SHEET xxxx.
41. AFTER TESTING AND APPROVAL, CONNECT TO EXISTING 6" GATE VALVE.

STORM SEWER NOTES:

50. INSTALL CATCH BASIN, SEE CITY OF LA CENTER STD. PLAN SM-5 SHEET xxxxx.
51. INSTALL COMBINATION CURB INLET, SEE CITY OF LA CENTER STD. PLAN SM-6 SHEET xxxx.
52. OUTFALL PROTECTION, SEE DETAIL SHEET xxxx.
53. INSTALL 48-INCH STORM SEWER MANHOLE, SEE DETAIL SHEET xxxx.

SIGNING AND STRIPING NOTES:

60. MATCH EXISTING STRIPE.
61. INSTALL 4" WIDE PAINTED WHITE LANE LINE PER WSDOT STANDARD PLAN M-20.10, SEE SHEET xxxx.
62. INSTALL 4" WIDE PAINTED YELLOW CENTERLINE WITH RPM'S PER WSDOT STANDARD PLAN M-20.30, SEE SHEET xxxx.
63. INSTALL 8" WIDE PAINTED WHITE LANE LINE PER WSDOT STANDARD PLAN M-20.10, SEE SHEET xxxx.
64. INSTALL 4" WIDE PAINTED WHITE DOTTED LANE LINE PER WSDOT STANDARD PLAN M-20.10, SEE SHEET xxxx.
62. INSTALL 8" WIDE PAINTED WHITE DOTTED LANE LINE PER WSDOT STANDARD PLAN M-20.10, SEE SHEET xxxx.
66. INSTALL NO PARKING SIGN (R7-1 OR R7-9) PER SIGN TABLE, SHEET xxxx.
67. INSTALL PLASTIC BICYCLE LANE SYMBOL PER WSDOT STANDARD PLAN M-9.50, SEE SHEET xxxx.

REVISIONS
68. INSTALL 4" WID
DETAIL SHEET:

DESIGN DEVELOPMENT

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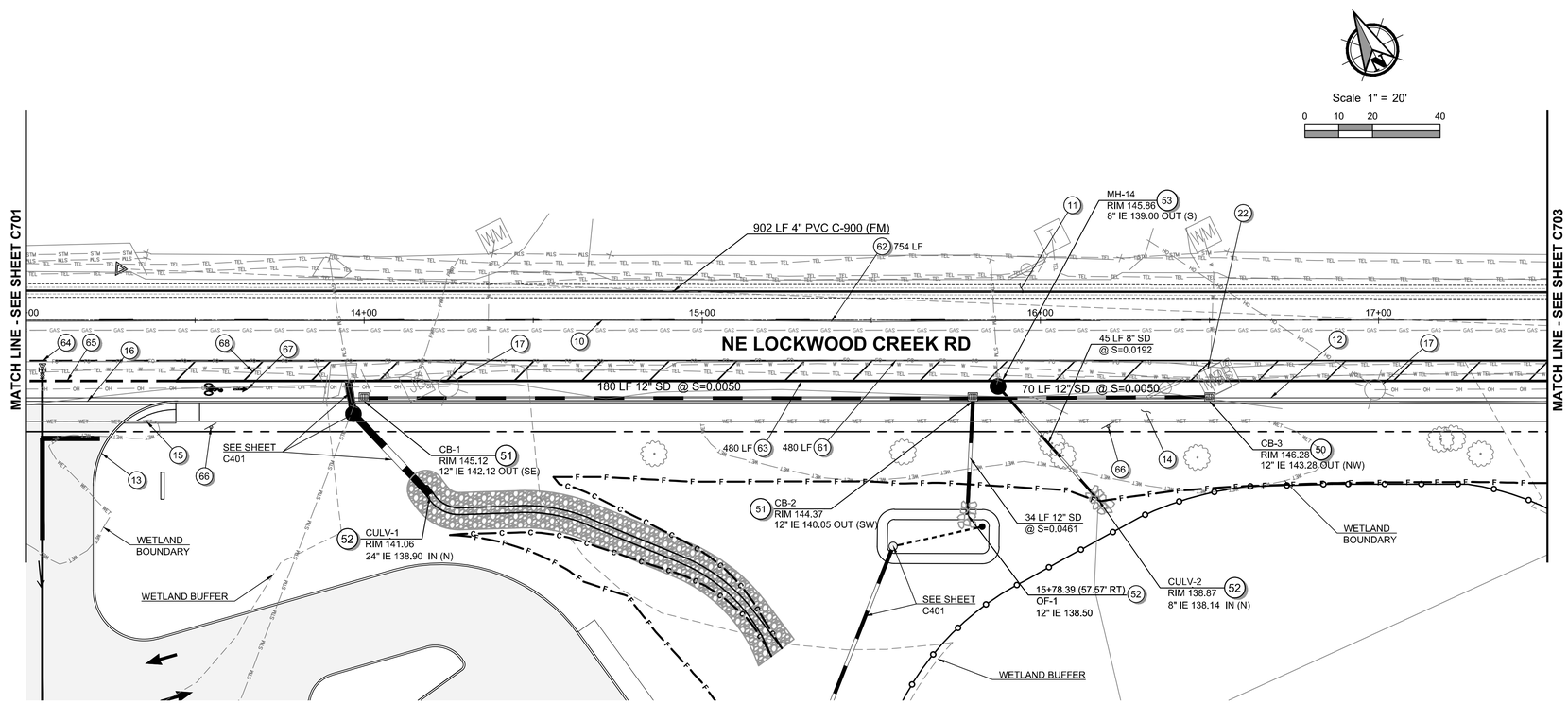
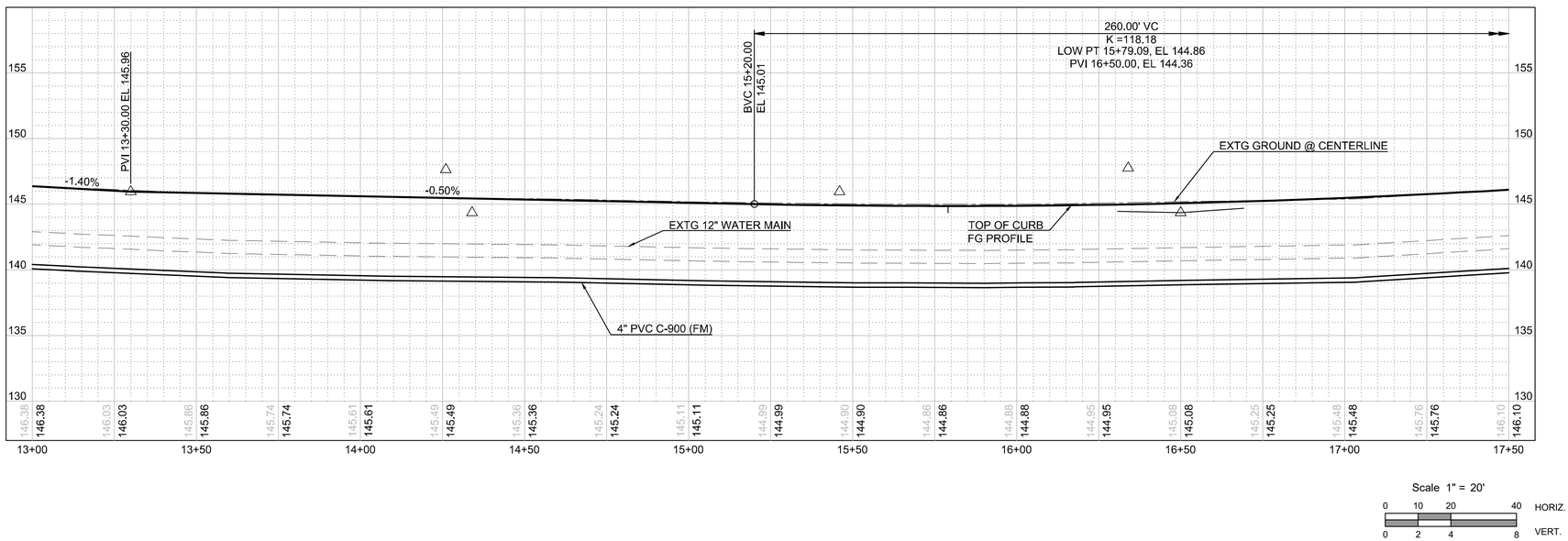
NAC NO	121-18009
DRAWN	JAB/JRM
CHECKED	EAP
DATE	10-18-2018

FRONTAGE IMPROVEMENTS

DD SUBMITTAL

C701





Scale 1" = 20'
0 10 20 40 HORIZ.
0 2 4 8 VERT.

GENERAL NOTES

1. SEE SHEET xxxxx FOR ABBRREVIATIONS AND MASTER LEGEND. SEE SHEET xxxxx FOR GENERAL NOTES.
2. SEE SHEET xxxxx FOR ROADWAY TYPICAL SECTIONS.
3. CONTRACTOR TO POTHOLE AND VERIFY LOCATION AND DEPTH OF EXISTING UTILITIES. CONTRACTOR TO NOTIFY ENGINEER IF EXISTING UTILITIES CONFLICT WITH DESIGN UTILITIES.

STREET NOTES:

10. SAWCUT EXISTING HMA AND MATCH EXISTING.
11. UTILITY TRENCH AND RESTORATION, SEE CITY OF LA CENTER STD. PLAN ST-17, SHEET xxxx.
12. CONSTRUCT CEMENT CONCRETE CURB & GUTTER, SEE CITY OF LA CENTER STD. PLAN ST-5, SHEET xxxxx.
13. CONSTRUCT CEMENT CONCRETE TRAFFIC CURB, SEE DETAIL SHEET xxxxx.
14. CEMENT CONCRETE SIDEWALK, SEE LANDSCAPE PLANS.
15. CONSTRUCT SINGLE DIRECTIONAL CURB RAMP, SEE DETAIL SHEET xxxx AND CITY OF LA CENTER STD. PLAN ST-7A SHEET xxxx.
16. VALLEY GUTTER, SEE DETAIL SHEET xxxxx.
17. POLE TO BE RELOCATED BY CPU. COORDINATE WITH STEVE LATTANZI (360-992-8771).
18. ASPHALT PAVING, SEE TYPICAL SECTION xxxx.
19. MATCH EXISTING EDGE OF SIDEWALK.
20. REMOVE EXISTING BARRICADE.
21. INSTALL TUFF CURB (OR APPROVED EQUAL) WITH DELINEATOR POSTS.
22. MAILBOX RELOCATION TO BE COORDINATED WITH POST MASTER.
23. REGRADE EXISTING DRIVEWAY.

SANITARY SEWER NOTES:

30. CONNECT TO EXISTING SANITARY MANHOLE. COAT INSIDE MANHOLE WITH RAVEN COATING OR APPROVED EQUIVALENT.

WATER NOTES:

40. RELOCATE EXISTING FIRE HYDRANT. INSTALL CONCRETE PAD PER STANDARD FIRE HYDRANT DETAIL SHEET xxxx.
41. AFTER TESTING AND APPROVAL, CONNECT TO EXISTING 6" GATE VALVE.

STORM SEWER NOTES:

50. INSTALL CATCH BASIN, SEE CITY OF LA CENTER STD. PLAN SM-5 SHEET xxxxx.
51. INSTALL COMBINATION CURB INLET, SEE CITY OF LA CENTER STD. PLAN SM-6 SHEET xxxx.
52. OUTFALL PROTECTION, SEE DETAIL SHEET xxxx.
53. INSTALL 48-INCH STORM SEWER MANHOLE, SEE DETAIL SHEET xxxx.

SIGNING AND STRIPING NOTES:

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62. INSTALL 4" WIDE PAINTED YELLOW CENTERLINE WITH RPM'S PER WSDOT STANDARD PLAN M-20.30, SEE SHEET xxxx.
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66. INSTALL NO PARKING SIGN (R7-1 OR R7-9) PER SIGN TABLE, SHEET xxxx.
67. INSTALL PLASTIC BICYCLE LANE SYMBOL PER WSDOT STANDARD PLAN M-9.50, SEE SHEET xxxx.

REVISIONS
68. INSTALL 4" WIDE
DETAIL SHEET:

DESIGN DEVELOPMENT

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FRONTAGE IMPROVEMENTS

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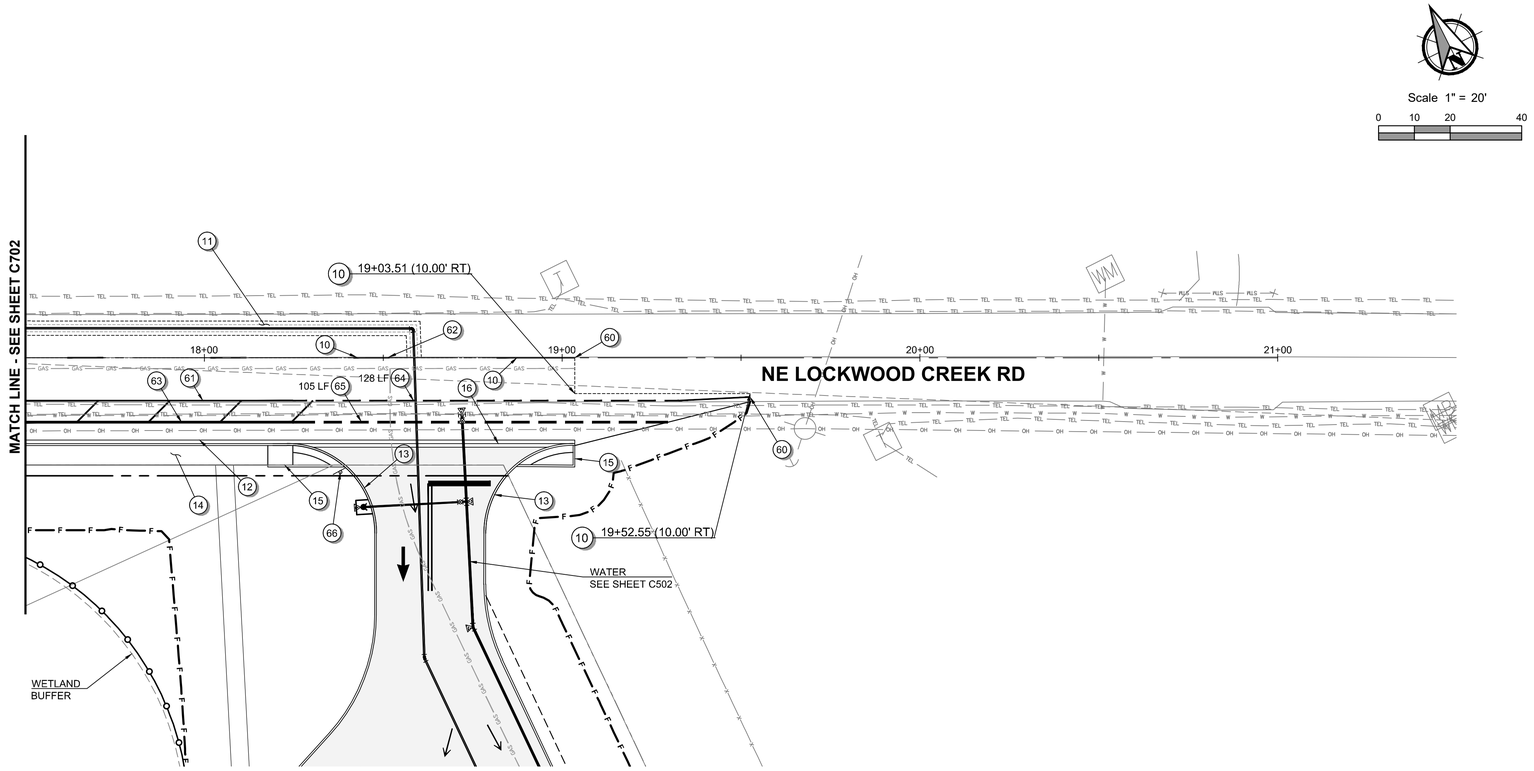
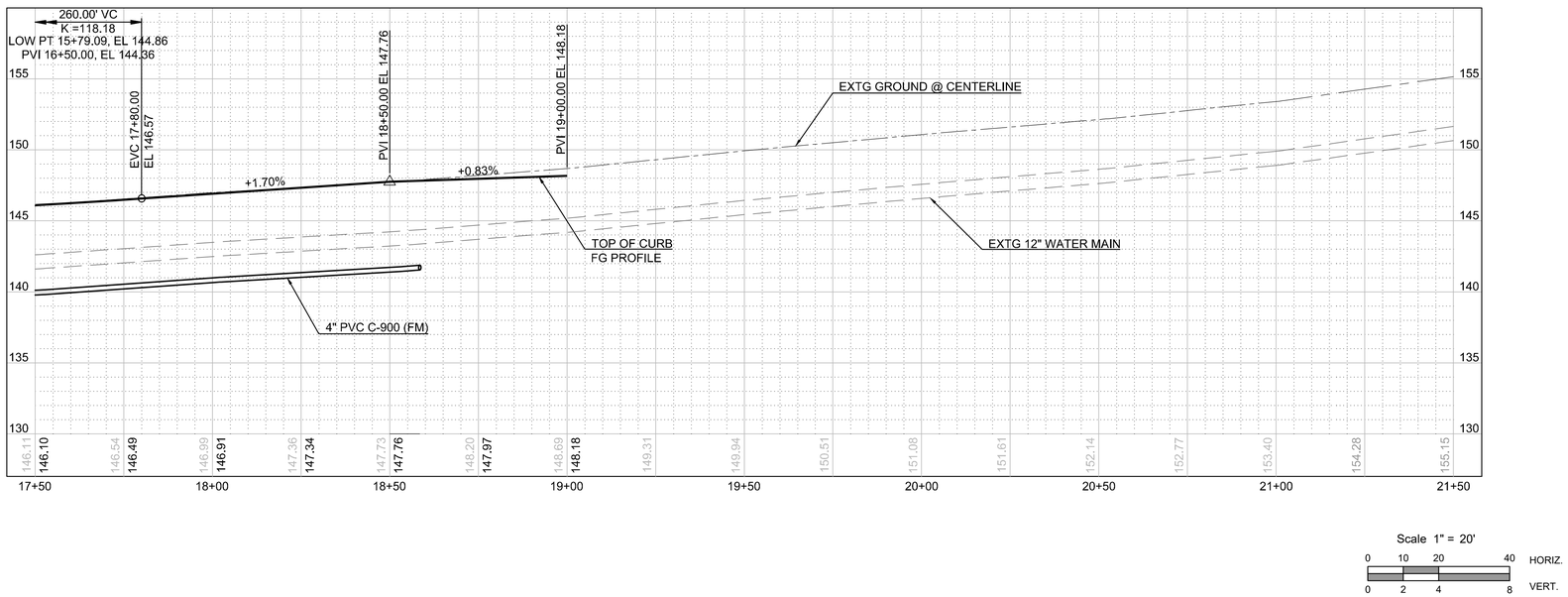
C702





GENERAL NOTES

1. SEE SHEET xxxxx FOR ABBRREVIATIONS AND MASTER LEGEND. SEE SHEET xxxxx FOR GENERAL NOTES.
2. SEE SHEET xxxxx FOR ROADWAY TYPICAL SECTIONS.
3. CONTRACTOR TO POTHOLE AND VERIFY LOCATION AND DEPTH OF EXISTING UTILITIES. CONTRACTOR TO NOTIFY ENGINEER IF EXISTING UTILITIES CONFLICT WITH DESIGN UTILITIES.

STREET NOTES:

10 SAWCUT EXISTING HMA AND MATCH EXISTING.

11 UTILITY TRENCH AND RESTORATION, SEE CITY OF LA CENTER STD. PLAN ST-17, SHEET xxxx.

12 CONSTRUCT CEMENT CONCRETE CURB & GUTTER, SEE CITY OF LA CENTER STD. PLAN ST-5, SHEET xxxxx.

13 CONSTRUCT CEMENT CONCRETE TRAFFIC CURB, SEE DETAIL SHEET xxxxx.

14 CEMENT CONCRETE SIDEWALK, SEE LANDSCAPE PLANS.

15 CONSTRUCT SINGLE DIRECTIONAL CURB RAMP, SEE DETAIL SHEET xxxx AND CITY OF LA CENTER STD. PLAN ST-7A SHEET xxxx.

16 VALLEY GUTTER, SEE DETAIL SHEET xxxxx.

17 POLE TO BE RELOCATED BY CPU. COORDINATE WITH STEVE LATTANZI (360-992-8771).

18 ASPHALT PAVING, SEE TYPICAL SECTION xxxx.

19 MATCH EXISTING EDGE OF SIDEWALK.

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23 REGRADE EXISTING DRIVEWAY.

SANITARY SEWER NOTES:

30 CONNECT TO EXISTING SANITARY MANHOLE. COAT INSIDE MANHOLE WITH RAVEN COATING OR APPROVED EQUIVALENT.

WATER NOTES:

40 RELOCATE EXISTING FIRE HYDRANT. INSTALL CONCRETE PAD PER STANDARD FIRE HYDRANT DETAIL SHEET xxxx.

41 AFTER TESTING AND APPROVAL, CONNECT TO EXISTING 6" GATE VALVE.

STORM SEWER NOTES:

50 INSTALL CATCH BASIN, SEE CITY OF LA CENTER STD. PLAN SM-5 SHEET xxxxx.

51 INSTALL COMBINATION CURB INLET, SEE CITY OF LA CENTER STD. PLAN SM-6 SHEET xxxx.

52 OUTFALL PROTECTION, SEE DETAIL SHEET xxxx.

53 INSTALL 48-INCH STORM SEWER MANHOLE, SEE DETAIL SHEET xxxx.

SIGNING AND STRIPING NOTES:

60 MATCH EXISTING STRIPE.

61 INSTALL 4" WIDE PAINTED WHITE LANE LINE PER WSDOT STANDARD PLAN M-20.10, SEE SHEET xxxx.

62 INSTALL 4" WIDE PAINTED YELLOW CENTERLINE WITH RPM'S PER WSDOT STANDARD PLAN M-20.30, SEE SHEET xxxx.

63 INSTALL 8" WIDE PAINTED WHITE LANE LINE PER WSDOT STANDARD PLAN M-20.10, SEE SHEET xxxx.

64 INSTALL 4" WIDE PAINTED WHITE DOTTED LANE LINE PER WSDOT STANDARD PLAN M-20.10, SEE SHEET xxxx.

62 INSTALL 8" WIDE PAINTED WHITE DOTTED LANE LINE PER WSDOT STANDARD PLAN M-20.10, SEE SHEET xxxx.

66 INSTALL NO PARKING SIGN (R7-1 OR R7-9) PER SIGN TABLE, SHEET xxxx.

67 INSTALL PLASTIC BICYCLE LANE SYMBOL PER WSDOT STANDARD PLAN M-9.50, SEE SHEET xxxx.

REVISIONS

68 INSTALL 4" WIDE
DETAIL SHEET:

DESIGN DEVELOPMENT

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LA CENTER NEW MIDDLE SCHOOL
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La Center School District

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nacarchitecture.com
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DRAWN	JAB/JRM
CHECKED	EAP
DATE	10-18-2018

FRONTAGE IMPROVEMENTS

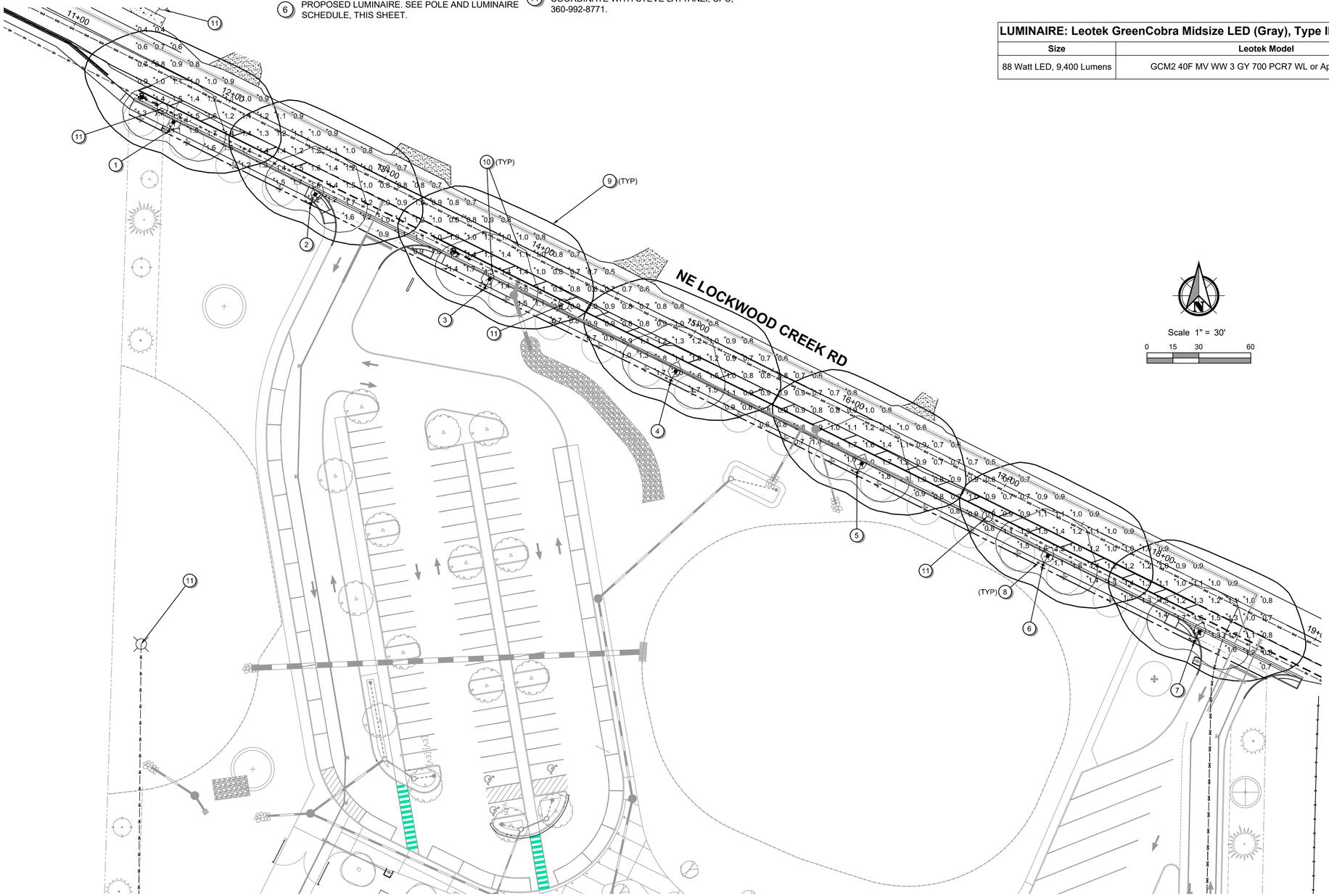
DD SUBMITTAL

C703

ILLUMINANCE STATISTICS					
ZONE	**AVERAGE (FC)**	**MAXIMUM (FC)**	**MINIMUM (FC)**	**MAX/MIN RATIO**	**AVG/MIN RATIO**
STANDARDS FOR MINOR ARTERIALS (PER CITY OF LA CENTER ENGINEERING STANDARDS, TABLE 2.6, FOR MINOR ARTERIALS.)	*1.0*	*N/A*	*N/A*	*N/A*	*3.0:1*
NE LOCKWOOD CREEK RD	1.0	1.8	0.4	4.5:1	2.5:1

STREET LIGHTING PLAN NOTES

1. PROPOSED LUMINAIRE. SEE POLE AND LUMINAIRE SCHEDULE, THIS SHEET.
2. PROPOSED LUMINAIRE. SEE POLE AND LUMINAIRE SCHEDULE, THIS SHEET.
3. PROPOSED LUMINAIRE. SEE POLE AND LUMINAIRE SCHEDULE, THIS SHEET.
4. PROPOSED LUMINAIRE. SEE POLE AND LUMINAIRE SCHEDULE, THIS SHEET.
5. PROPOSED LUMINAIRE. SEE POLE AND LUMINAIRE SCHEDULE, THIS SHEET.
6. PROPOSED LUMINAIRE. SEE POLE AND LUMINAIRE SCHEDULE, THIS SHEET.
7. PROPOSED LUMINAIRE. SEE POLE AND LUMINAIRE SCHEDULE, THIS SHEET.
8. JUNCTION BOX, PER CPU APPROVED EQUIPMENT LIST.
9. ISOLUMEN LINE REPRESENTING 0.5 FC
10. ISOLUMEN LINE REPRESENTING 1.0 FC
11. EXISTING CPU POLE TO BE RELOCATED. COORDINATE WITH STEVE LATTANZI, CPU, 360-992-8771.



POLE AND LUMINAIRE SCHEDULE														
						Luminaire*						Mounting Height (feet)	Mast Arm Length (feet)	Options
#	**Pole Type**	**Installation**	Alignment	**Station**	**Offset****	Manufacturer & Series*	Lamp Watts	Initial Lumens	Light Loss Factor (LLF)	Line Volt	B-U-G*** Rating			
1	Fiberglass	Direct-Buried	NE Lockwood Creek Rd	11+76	31.50' RT	Leotk GreenCobra Midsize LED	88	9,400	0.85	120V-277V	2-0-2	24	6	ANSI 7-wire photocontrol receptacle (PCR7), utility wattage label (WL)
2				12+68	32.50' RT									
3				13+80	31.50' RT									
4				15+00	31.50' RT									
5				16+20	31.50' RT									
6				17+40	31.50' RT									
7				18+38	32' RT									

* See approved luminaire table, this sheet, for specifications or model options.

** Offset is measured between roadway construction centerline and the center of the pole.

*** B = backlight, U = uplight, G = glare

SELECTED CPU-APPROVED LUMINAIRES FOR NE LOCKWOOD CREEK RD

LUMINAIRE: Leotek GreenCobra Midsize LED (Gray), Type III	
Size	**Leotek Model**
88 Watt LED, 9,400 Lumens	GCM2 40F MV WW 3 GY 700 PCR7 WL or Approved Equal

STREET LIGHTING GENERAL NOTES

1. POWER SOURCE LOCATIONS TO BE DETERMINED BY CLARK PUBLIC UTILITIES (CPU). ALL LIGHT POLE POWER SOURCES SHALL BE VERIFIED WITH CPU PLANS. CHANGES IN POWER SOURCE LOCATIONS WILL REQUIRE AS-BUILT DRAWINGS.
2. CALL CPU AT 360-992-3000 FOR UTILITY COORDINATION ON STREET LIGHTS.
3. THE CONTRACTOR SHALL INSTALL ALL POLES, JUNCTION BOXES, CONDUITS, CONDUIT WIRING, LUMINAIRE ASSEMBLIES, AND LUMINAIRE WIRING. CPU SHALL ENERGIZE AT POWER SOURCE.
4. STREET LIGHTING MATERIALS AND INSTALLATIONS ALONG ARTERIALS SHALL CONFORM TO CITY OF LA CENTER AND CPU STANDARDS AND THE CONTRACT PLANS. MATERIALS AND INSTALLATIONS SHALL BE APPROVED BY CPU UNLESS NOTED OTHERWISE.
5. ALL ELECTRICAL EQUIPMENT SHALL CONFORM TO THE CURRENT STANDARDS OF THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) AND THE UNDERWRITERS LABORATORY (UL) WHEREVER APPLICABLE. IN ADDITION TO THE REQUIREMENTS OF THE PLANS, STANDARD SPECIFICATIONS, AND SPECIAL PROVISIONS, ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CURRENT REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC), THE NATIONAL ELECTRICAL SAFETY CODE, THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AND ANY APPLICABLE LOCAL ORDINANCES.
6. THE LOCATION OF JUNCTION BOXES ARE SCHEMATIC, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO AVOID UNDERGROUND UTILITIES.
7. THIS PLAN DEPICTS THE MINIMUM AT- OR ABOVE-GRADE EQUIPMENT REQUIRED FOR STREET LIGHTING. POWER SOURCE, CONDUIT, AND WIRING DESIGNS WILL BE PREPARED BY CPU.

REVISIONS

1 1-DESCR 1-

2 2-DESCR 2-

3 3-DESCR 3-

4 4-DESCR 4-

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ILLUMINATION PLANS

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C801

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ILLUMINATION PLANS

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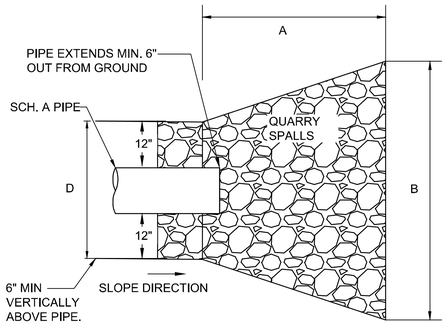
ILLUMINATION PLANS

DD SUBMITTAL

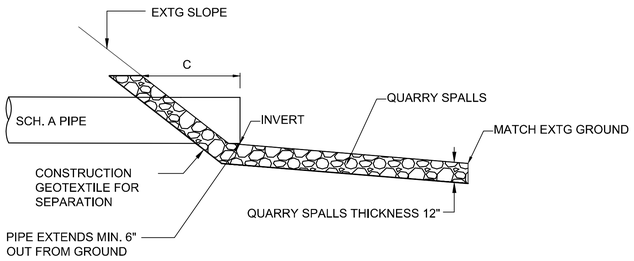
C803

DIMENSIONING TABLE

LOCATION	DIM (A)	DIM (B)	DIM (C)	DIM (D)
XXX	XX FT	XX FT	XX FT	XX FT



PLAN



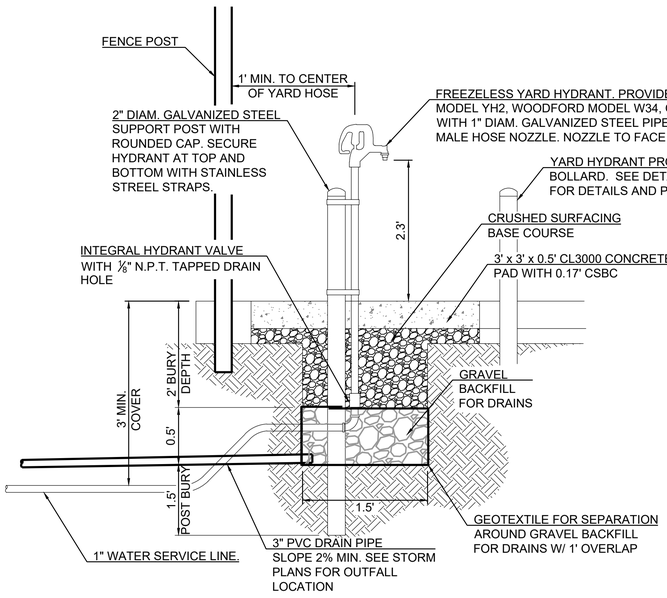
SECTION

NOTES:

1. SEE DIMENSIONING TABLE ABOVE FOR LOCATIONS AND VARIABLE DIMENSIONS A-D.

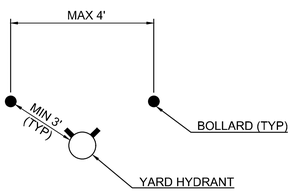
Outfall Protection Detail

NTS



Yard Hydrant Detail

NTS



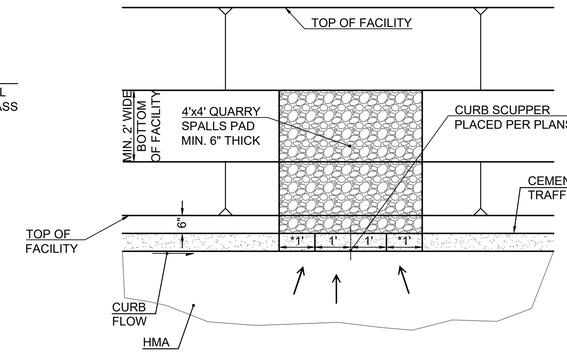
NOTES:

BOLLARD REQUIREMENTS INCLUDE:

A. MIN. 4" STEEL FILLED WITH CONCRETE.
B. MIN. 3' DEEP IN CONCRETE THAT IS AT LEAST 15" DIAMETER.
C. MIN. 3' ABOVE GROUND.
D. MIN. 3' FROM FDC/YARD HOSE.
E. SPACED NO MORE THAN 4' ON CENTER.

Yard Hydrant Bollard Detail

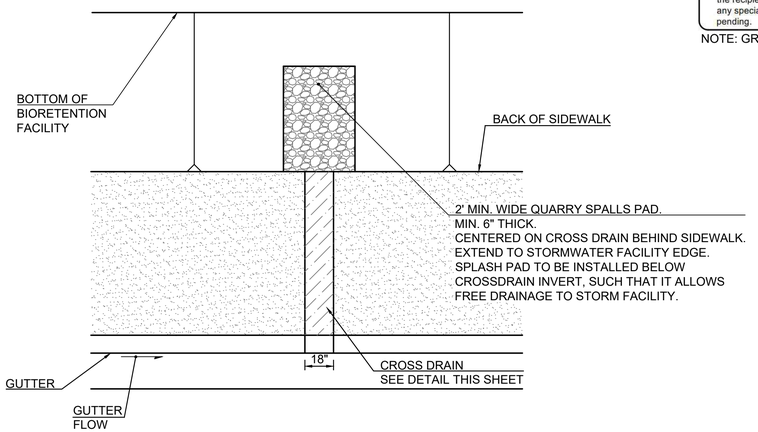
NTS



* TRANSITION TOP OF CURB TO CURB SCUPPER FLOW LINE

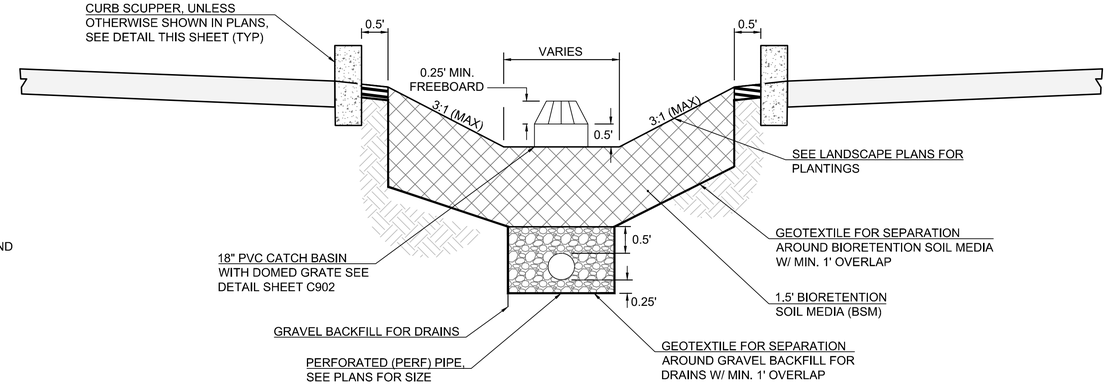
Typical Curb Scupper

NTS



Cross Drain Outfall Splash Pad

NTS

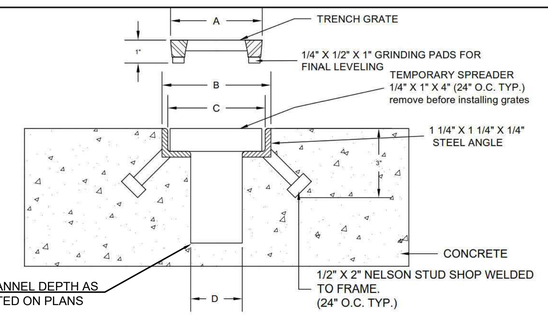


* SEE PLANS FOR DIMENSIONS AND REQUIRED BOTTOM OF FACILITY AREAS.

Bioretention Facility

NTS

(SEE NOTE BELOW)



A		B		C		D		Catalog#
Standard	Metric	Standard	Metric	Standard	Metric	Standard	Metric	
4"	102mm	4 5/8"	117mm	4 1/8"	105mm	2 1/8"	54mm	9000F-4
6"	152mm	6 5/8"	168mm	6 1/8"	156mm	4 1/8"	105mm	9000F-6
8"	203mm	8 5/8"	219mm	8 1/8"	206mm	6 1/8"	156mm	9000F-8
12"	305mm	12 5/8"	321mm	12 1/8"	308mm	10 1/8"	257mm	9000F-12
18"	457mm	18 5/8"	473mm	18 1/8"	460mm	16 1/8"	410mm	9000F-18

PROPOSED SIZE

Frame widths not listed follow the same pattern

9000F-X
Pedestrian Trench Grate Frame Detail #1

Installation in new concrete

Finish Options:
No Finish or Galvanized or Powder Coated.

Specify finish and color when ordering.

Temporary spreader bars are tack welded to frames and must be removed after frames are set and concrete has cured.

Frames are ordered by the Linear Foot. Frames are made in sections such that no length is greater than 10ft. or shorter than 24".

Please specify if multiple run lengths are required to avoid field modification.

IRONSMITH
41-701 Corporate Way #3
Palm Desert, CA 92260
(800) 338-4766
(760) 776-5080 Fax

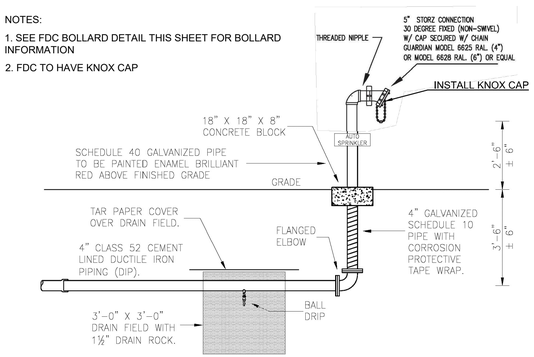
NOTE: GRATE TO BE OLYMPIAN STYLE IRONSMITH WITH BLACK POWDER COAT FINISH AND 'PILFER RESISTANT" SCREWS.

Sidewalk Cross Drain Detail

NTS

NOTES:

1. SEE FDC BOLLARD DETAIL THIS SHEET FOR BOLLARD INFORMATION
2. FDC TO HAVE KNOX CAP



FDC Detail

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MISCELLANEOUS DETAILS

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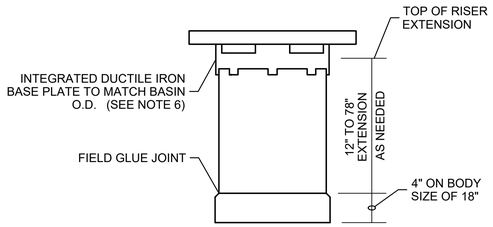
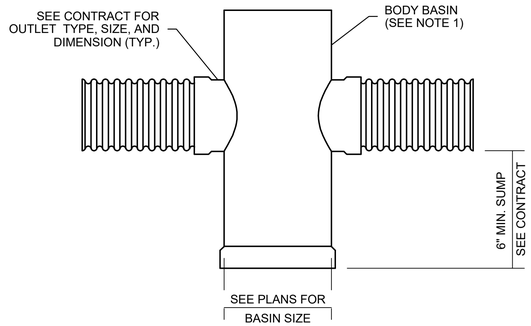
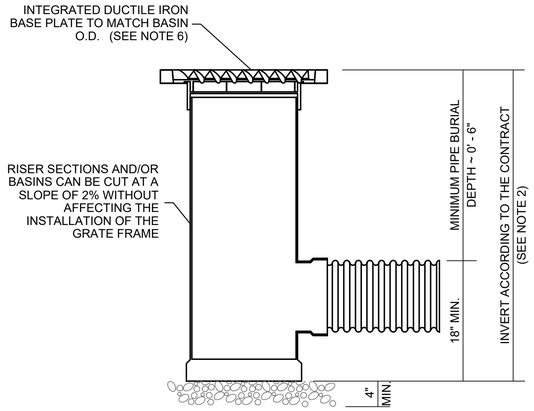


RISER EXTENSION



SECTION (A)

BASIN BODY



ELEVATION VIEW

NOTES

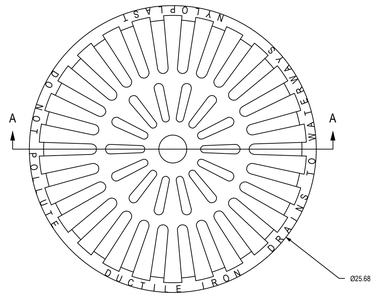
1. DRAIN BASIN TO BE NYLOPLAST DRAIN BASIN OR APPROVED EQUAL.
2. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. VARIABLE INVERT, SUMP, AND BASIN BODY HEIGHT AVAILABLE. RISERS ARE NEEDED FOR BASINS OVER 84" (IN) DUE TO SHIPPING RESTRICTIONS. THE MAXIMUM DEPTH FROM FINISHED GRADE TO THE LOWEST INVERT SHALL BE 8' (FT).
3. DRAINAGE CONNECTIONS STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE AND PVC SEWER (4" (IN) - 24" (IN)).
4. RISERS CAN BE TRIMMED DOWN TO 3" (IN) EXTENSION WITHOUT INTERFERING WITH THE INSTALLATION OF THE FRAME.
5. THE MAXIMUM DEPTH FROM FINISHED GRADE TO THE LOWEST INVERT SHALL BE 8' (FT).
6. GRATE TYPES SHALL BE AS SPECIFIED IN THE PLANS.
7. DUCTILE IRON CASTINGS FOR PVC CATCH BASINS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A536, GRADE 70-50-05, AND SHALL MEET THE PROOF LOAD TESTING REQUIREMENTS OF AASHTO M 306.

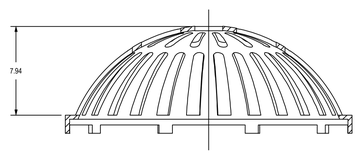
PVC Catch Basin Detail

NTS

2499CGD

APPROX. DRAIN AREA = 270.64 SQ IN
APPROX. WEIGHT = 53.00 LBS





SECTION A-A

DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST

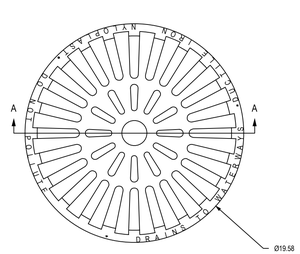
DRAWN BY	EBC	MATERIAL	DUCTILE IRON
DATE	3-8-06		
REVISED BY	EBC	PROJECT NO./NAME	
DATE	3-24-11		
DWG SIZE	A	SCALE 1:6	SHEET 1 OF 1

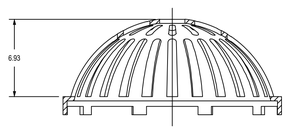
Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: 24 IN DOME GRATE
DWG NO. 7001-110-219 REV D

1899CGD

APPROX. DRAIN AREA = 175.59 SQ IN
APPROX. WEIGHT = 32.00 LBS





SECTION A-A

DIMENSIONS ARE FOR REFERENCE ONLY
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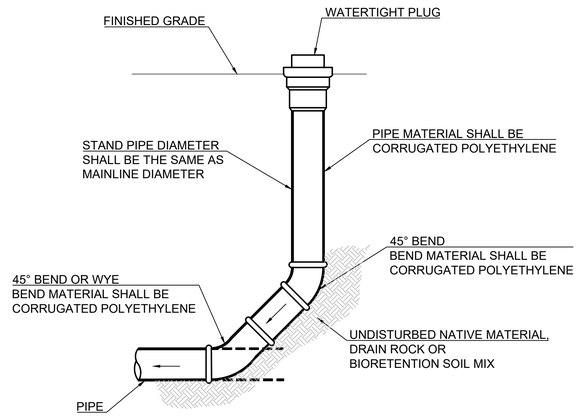
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST

DRAWN BY	EBC	MATERIAL	DUCTILE IRON
DATE	3-8-06		
REVISED BY	EBC	PROJECT NO./NAME	
DATE	3-24-11		
DWG SIZE	A	SCALE 1:6	SHEET 1 OF 1

Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: 18 IN DOME GRATE
DWG NO. 7001-110-215 REV D



Storm Cleanout Detail

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MISCELLANEOUS DETAILS

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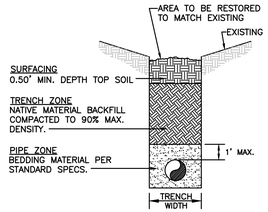
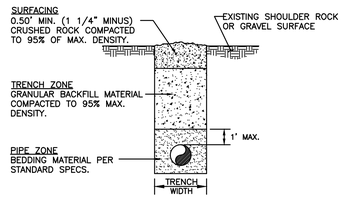
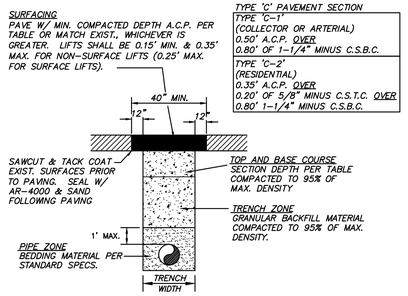


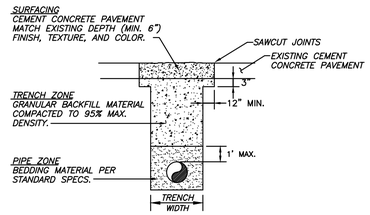
NATIVE BACKFILL
–OUTSIDE ROADWAY PRISM–
–11W–
(TYPE 'A' RESTORATION)



ROADWAY SHOULDERS,
GRAVEL SURFACE
–12W–
(TYPE 'B' RESTORATION)



ASPHALT CONCRETE PAVEMENT
(TYPE 'C-1' & 'C-2' RESTORATION)



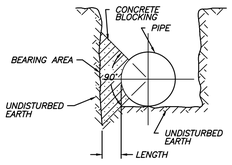
CEMENT CONCRETE PAVEMENT
(TYPE 'E' RESTORATION)

TRENCHING NOTES:

1. SEE CLARK COUNTY OR WSDOT UTILITY PERMIT, WHICHEVER IS APPLICABLE, FOR ADDITIONAL TRENCH BACKFILL AND SURFACING REQUIREMENTS.
2. NATIVE MATERIALS MAY BE SUBSTITUTED FOR IMPORTED GRANULAR MATERIAL PROVIDING IT IS PRE-APPROVED BY THE COUNTY ENGINEER OR AUTHORIZED REPRESENTATIVE.
3. TRENCH EXCAVATION, BEDDING, AND BACKFILL FOR WATER MAINS SHALL BE IN ACCORDANCE WITH SECTION 7-10 OF THE MOST CURRENT STANDARD SPECIFICATIONS. BED PIPE PER SECTION 7-10.3(9) OF THE STANDARD SPECIFICATIONS.
4. IN THE TRENCH ZONE, USE METHOD C COMPACTION PER SECTION 2-03.3(14).

PIPE SIZE	HORIZ. FITTINGS (BENDS)	BEARING AREA (SF)	MINIMUM BLOCK SIZE (FT.)	VOL. OF BLOCKING (CF)	MINIMUM LENGTH OF BLOCKING (FT.-IN.)
4"	TEE	1.2	1.0' x 1.0'	0.3	0'-6"
	90°	1.7	1.5' x 1.5'	0.6	0'-6"
	45°	0.9	1.0' x 1.0'	0.3	0'-6"
	22-1/2°	0.5	1.0' x 1.0'	0.3	0'-6"
6"	TEE	2.4	1.5' x 1.5'	0.6	0'-6"
	90°	3.4	2.0' x 2.0'	1.4	0'-8"
	45°	1.9	1.5' x 1.5'	0.6	0'-6"
	22-1/2°	1.0	1.0' x 1.0'	0.3	0'-6"
	11-1/4°	0.5	1.0' x 1.0'	0.3	0'-6"
8"	TEE	4.0	2.0' x 2.0'	1.5	0'-8"
	90°	5.6	2.5' x 2.5'	2.8	0'-10"
	45°	3.1	2.0' x 2.0'	1.5	0'-8"
	22-1/2°	1.6	1.5' x 1.5'	0.7	0'-6"
	11-1/4°	0.8	1.0' x 1.0'	0.3	0'-6"
10"	TEE	6.2	2.5' x 2.5'	3.0	0'-10"
	90°	8.7	3.0' x 3.0'	4.5	1'-0"
	45°	4.8	2.5' x 2.5'	2.5	0'-8"
	22-1/2°	2.5	2.0' x 2.0'	1.4	0'-6"
	11-1/4°	1.3	1.5' x 1.5'	0.8	0'-6"
12"	TEE	8.6	3.0' x 3.0'	5.0	1'-0"
	90°	12.2	3.5' x 3.5'	7.8	1'-3"
	45°	6.6	2.5' x 2.5'	3.0	0'-9"
	22-1/2°	3.4	2.0' x 2.0'	1.5	0'-6"
	11-1/4°	1.7	1.5' x 1.5'	0.8	0'-6"
16"	TEE	15.2	4.0' x 4.0'	12	1'-3"
	90°	21.4	4.5' x 4.5'	17	1'-6"
	45°	11.6	3.5' x 3.5'	7.5	1'-0"
	22-1/2°	5.9	2.5' x 2.5'	2.7	0'-6"
	11-1/4°	3.0	2.0' x 2.0'	1.7	0'-6"
18"	TEE	19.1	4.0' x 4.0'	12	1'-3"
	90°	27.1	5.0' x 5.0'	23	1'-9"
	45°	14.7	4.0' x 4.0'	12	1'-2"
	22-1/2°	7.5	3.0' x 3.0'	4.7	0'-8"
	11-1/4°	3.8	2.0' x 2.0'	1.9	0'-6"

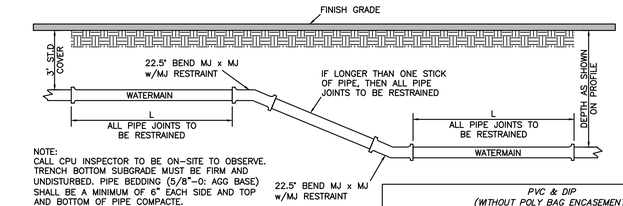
SOIL BEARING = 2000 LB/SQFT 11/98



THRUST BLOCK NOTES:

1. POURED BLOCKING SHALL BE POURED IN PLACE WITHOUT DIRECT CONTACT TO THE PIPE OR FITTINGS. SOME PROTECTIVE MATERIAL SUCH AS PLASTIC SHALL BE PLACED BETWEEN THE CONCRETE AND PIPE OR FITTING.
2. POURED BLOCKING SHALL BE POURED AGAINST FIRM UNDISTURBED SOIL.
3. CONCRETE FOR ALL BLOCKING SHALL HAVE A 28-DAY MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI
4. CONCRETE BLOCKING FOR VERTICAL BENDS SHALL BE PER APWA STD. PLAN NO. 8-22.
5. LAYOUT TO BE APPROVED BY THE CPU INSPECTOR PRIOR TO AND AFTER CONCRETE POUR.
6. ALL PRE-CAST THRUST BLOCKS SHALL BE PLACED IN CENTER OF TEE OR BEND.

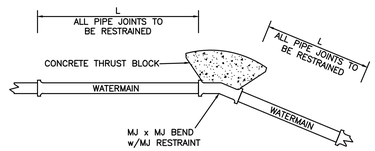
STANDARD THRUST BLOCK



PVC & DIP (WITHOUT POLY BAG ENCASEMENT)				
FITTING	6" DIA PIPE L	8" DIA PIPE L	12" DIA PIPE L	16" DIA PIPE L
11-1/4° BEND	10'	10'	12'	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

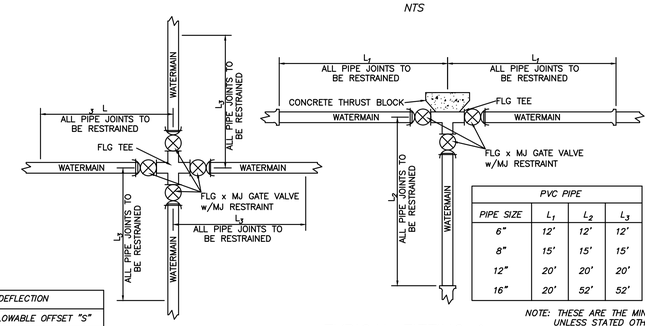


PVC PIPE				
FITTING	6" DIA PIPE L	8" DIA PIPE L	12" DIA PIPE L	16" DIA PIPE L
11-1/4° BEND	10'	10'	10'	10'
22-1/2° BEND	10'	10'	10'	12'
45° BEND	10'	10'	13'	24'
90° BEND	24'	32'	45'	60'

DIP PIPE (WITHOUT POLY BAG ENCASEMENT)				
FITTING	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

PIPE HORIZONTAL
BEND INSTALLATION DETAIL
NTS



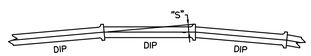
PVC PIPE			
PIPE SIZE	L_1	L_2	L_3
6"	12'	12'	12'
8"	15'	15'	15'
12"	20'	20'	20'
16"	20'	52'	52'

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

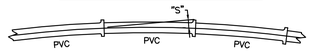
ALLOWABLE DIP JOINT DEFLECTION			
PIPE SIZE	ALLOWABLE DEFLECTION ANGLE	ALLOWABLE OFFSET "S"	
		PIPE L=18'	PIPE L=20'
6"	3°	11"	12"
8"	3°	11"	12"
12"	3°	11"	12"



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

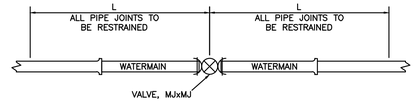
DUCTILE PIPE
DEFLECTION DETAIL
NTS

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		



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

PVC PIPE BEND DETAIL
NTS



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'

L_1: REQUIRED LENGTH WHEN PIPE JOINT RESTRAINT IS ONLY EFFECTIVE IN TENSION (SUCH AS FIELD-LOK GASKETS OR OTHER SIMILAR RESTRAINT SYSTEMS)

L_2: 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

REVISIONS

DESIGN DEVELOPMENT

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PBS

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LA CENTER School District

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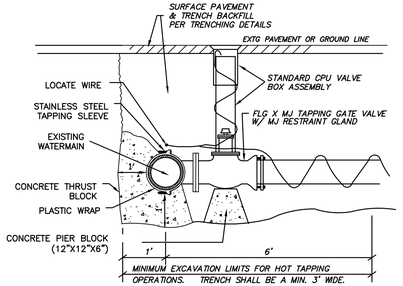
NAC NO	121-18009
DRAWN	JAB/JRM
CHECKED	EAP
DATE	10-18-2018

CPU WATER STANDARD DETAILS

DD SUBMITTAL

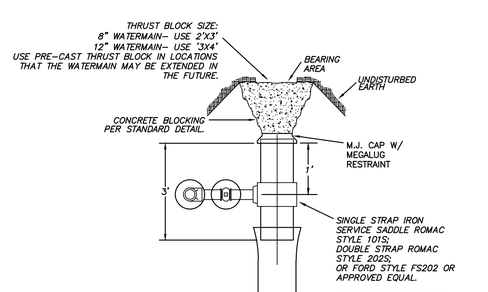
C903

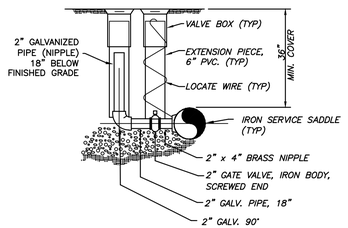


NOTES

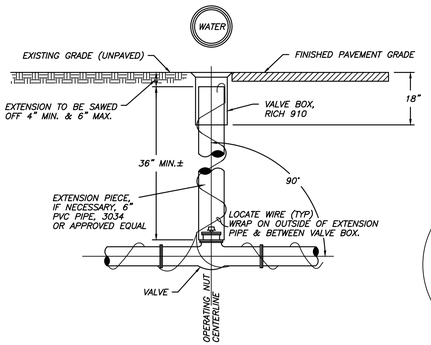
1. LAYOUT AND TAP LOCATION SHALL BE APPROVED BY THE CPU INSPECTOR PRIOR TO EXCAVATING. CONTACT THE CPU INSPECTOR 2 DAYS IN ADVANCE PRIOR TO SCHEDULING THE HOT TAP.
2. HOT TAPS MAY ONLY BE DONE BY A CPU APPROVED TAPPING CONTRACTOR
3. THE CPU INSPECTOR SHALL BE AT THE WORKSITE DURING TAPPING OPERATIONS.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

STANDARD HOT TAP

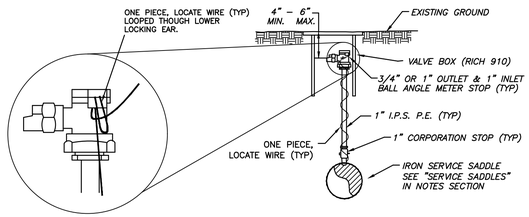




STANDARD BLOW–OFF ASSEMBLY (PERMANENT)

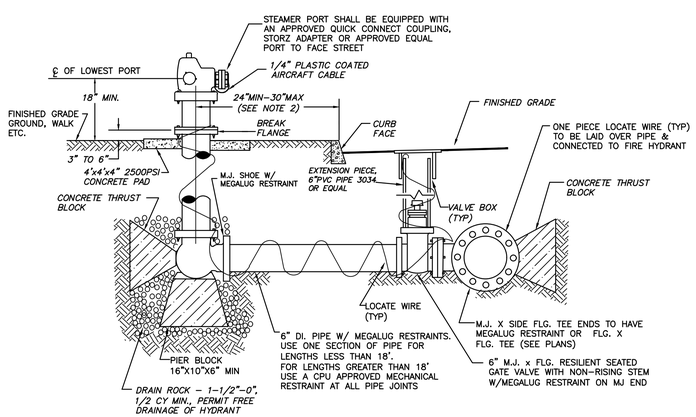


STANDARD VALVE BOX ASSEMBLY



1. ALL COMPRESSION FITTINGS TO HAVE STAINLESS STEEL INSERTS.

STANDARD MANUAL AIR RELEASE VALVE



FIRE HYDRANT NOTES:

1. FIRE HYDRANT INSTALLATIONS SHALL BE INSPECTED PRIOR TO BACKFILLING.
2. WHERE HYDRANTS ARE SET BEHIND SIDEWALK, DISTANCE FROM BACK OF SIDEWALK TO HYDRANT C/L SHALL BE 18" MIN., 24" MAX.
3. FIRE HYDRANTS SHALL BE SHOP PAINTED PRIOR TO INSTALLATION W/STANDARD A.W.W.A, GLOSS B, YELLOW

APPROVED HYDRANTS

WATEROUS	—	W867–90 AND/OR –250
MUELLER	—	CENTURION
CLOW	—	MEDALLION
M&H	—	929
KENNEDY	—	K 81 D
AVK	—	SERIES 29
EJ	—	7352D

STANDARD FIRE HYDRANT ASSEMBLY

GENERAL INSTALLATION NOTES:

1. INSTALL WATER MAIN WITH 3.0 FEET OF MINIMUM COVER UNLESS OTHERWISE NOTED. DEPTH MAY INCREASE AT UTILITY AND CULVERT CROSSINGS.
2. LOCATE WIRE SHALL BE COATED (BLUE INSULATED), NO. 14 GA. SOFT DRAWN SOLID COPPER. USE WATERPROOF CONNECTORS AT ALL WIRE SPLICES.
3. DRY CALCIUM HYPO CHLORIDE IN TABLET FORM, FAST DISSOLVING, WITH 65% MIN. AVAILABLE CHLORINE SHALL BE USED TO CHLORINATE ALL NEW MAINS. THE DOSAGE RATE SHALL BE A MINIMUM OF 25mg/L. THE NUMBER OF 5–g TABLETS TO BE APPLIED PER 20 FOOT LENGTH OF PIPE SHALL BE AS FOLLOWS:

PIPE SIZE	NUMBER OF TABLETS
4"	1
6"	1
8"	2
10"	3
12"	4

4. WHENEVER A PIPE IS CUT AND NOT RECONNECTED, THE CUT ENDS SHALL BE CAPPED OR PLUGGED, AS DIRECTED BY THE CPU INSPECTOR.
5. ALL WATER SERVICES, BLOW–OFF ASSEMBLIES, AIR RELEASE VALVES, FIRE HYDRANT ASSEMBLIES, VALVE BOXES AND THRUST BLOCKING SHALL BE INSTALLED PER THE STANDARD SPECIFICATIONS AND DETAILS.
6. WATER MAINS BEING INSTALLED NEAR TELEPHONE/CABLE COMMUNICATIONS SHALL HAVE A MINIMUM 12" HORIZONTAL AND 6" VERTICAL CLEARANCE.
7. WATER MAINS BEING INSTALLED NEAR UNDERGROUND POWERLINES SHALL HAVE A MINIMUM 48" (MAYBE REDUCED TO 24" FOR SHORT DISTANCES) HORIZONTAL AND 6" VERTICAL CLEARANCE.
8. REQUIRED SEPARATION BETWEEN WATER LINES AND SANITARY SEWER LINES SHALL BE AS FOLLOWS:

HORIZONTAL SEPARATIONS (PARALLEL)
A MINIMUM SEPARATION OF TEN (10) FEET (MEASURED EDGE TO EDGE) BETWEEN SANITARY SEWER LINES AND WATER LINES SHALL BE MAINTAINED WHENEVER POSSIBLE. WHEN CONDITIONS PREVENT THE MINIMUM TEN (10) FOOT HORIZONTAL SEPARATION THE ENGINEER SHALL BE NOTIFIED.

VERTICAL SEPARATION (PERPENDICULAR)
WATER LINES CROSSING SANITARY SEWER LINES SHALL BE LAID ABOVE THE SEWER LINES TO PROVIDE A SEPARATION OF AT LEAST 18" BETWEEN THE INVERT OF THE WATER PIPE AND THE CROWN OF THE SANITARY SEWER PIPE. A LENGTH OF WATER PIPE SHALL BE CENTERED AT THE POINT OF CROSSING AND SHALL BE THE LONGEST STANDARD LENGTH AVAILABLE FROM THE MANUFACTURER.

9. THE CONTRACTOR SHALL USE CONSTRUCTION METHODS THAT PROTECT THE PIPE INTERIORS, FITTINGS AND VALVES AGAINST CONTAMINATION.
10. ANY PIPE, FITTINGS OR VALVES THAT CANNOT BE DISINFECTED WITH THE MAIN LINE BY CHLORINE FOR 24 HOURS SHALL HAVE THE INTERIORS SWABBED WITH A 1% HYPOCHLORITE SOLUTION BEFORE INSTALLATION.
11. CONCRETE THRUST BLOCKS SHALL BE CONSTRUCTED AT ALL TEES, BENDS, BLOW–OFFS, DEAD ENDS AND WHERE INDICATED ON THE PLANS.
12. ALL MJ FITTINGS SHALL BE RESTRAINED USING MJ MECHANICAL RESTRAINT FOLLOWER GLANDS.
13. 6" WATER PIPE LEADING TO FIRE HYDRANTS SHALL BE DIP AND SHALL BE ONE CONTINUOUS PIECE OF PIPE. IF THE RUN IS LONGER THAN ONE PIECE OF PIPE, THEN ALL PIPE JOINTS SHALL BE MECHANICALLY RESTRAINED WITH "FIELD–LOK" GASKETS OR OTHER CPU APPROVED RESTRAINTS.

EROSION CONTROL NOTES:

1. CONSTRUCTION EROSION CONTROL SHALL BE AS REQUIRED AND CONFORMING WITH THE CLARK COUNTY DRAINAGE AND EROSION CONTROL ORDINANCE. REFER TO THE CLARK COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD EROSION CONTROL DETAILS.
2. ALL EXPOSED SOILS SHALL BE STABILIZED, IN A TIMELY MANNER, BY THE APPLICATION OF BEST MANAGEMENT PRACTICES, INCLUDING BUT NOT LIMITED TO SOD, SEED, OR OTHER VEGETATION, PLASTIC COVERINGS, MULCHING, OR APPLICATION OF CRUSHED AGGREGATE ON THOSE AREAS TO BE PAVED.
3. WHEN EXCAVATION OCCURS IN ROADSIDE DITCHES, EXCAVATE AND KEY INTO DITCH ONE BIOFILTER BAG CHECK DAM PER 100' OF DITCH, OR WHERE NOTED ON THE PLANS. REMOVE SILT WHEN IT IS EVEN WITH THE TOP OF THE CHECK DAM. REPLACE OR ADD BIOFILTER BAGS AS NECESSARY TO PROPERLY FILTER THE STORM WATER.
4. INSTALL BIOFILTER BAGS (POLYESTER FABRIC PILLOW (ASTM–D191 OR EQUAL)FILLED W/ 15–16 LBS. OF WOOD CHIPS) AT EACH INLET. REMOVE SILT AND ADD BIOFILTER BAGS AS NECESSARY TO PROPERLY FILTER STORM WATER.
5. IF SEDIMENT IS TRANSPORTED ONTO THE ROAD SURFACE, THE ROADS SHALL BE CLEANED THOROUGHLY AT THE END OF THE WORKDAY, OR MORE IF NECESSARY. SIGNIFICANT SOIL DEPOSITS SHALL BE REMOVED FROM THE ROAD BY SHOVELING OR SWEEPING.
6. THE LENGTH OF THE TRENCH OPEN AT ONE TIME SHALL BE MINIMIZED AND WHERE CONSISTENT WITH SAFETY AND SPACE CONSIDERATION, EXCAVATED MATERIALS SHALL BE PLACED ON THE UPHILL SIDE OF THE TRENCH.

MAIN LINE PIPE MATERIAL:

UNLESS OTHERWISE STATED ON THE PLAN, ALL MAIN LINE PIPE SHALL BE EITHER DUCTILE IRON PIPE (DIP) OR POLYVINYL CHLORIDE PIPE (PVC).

A. DUCTILE IRON PIPE SHALL MEET THE FOLLOWING REQUIREMENTS:

1. PIPE.

A. DUCTILE IRON PIPE SHALL CONFORM TO ANSI A21.51 OR AWWA C151. USE PUSH–ON JOINTS EXCEPT WHERE OTHER JOINT TYPES ARE NOTED ON THE CONTRACT DRAWINGS. ALL DUCTILE IRON PIPE SHALL BE GAUGED FOR DIP 12" DIAMETER AND SMALLER. UNLESS SPECIFICALLY NOTED ON THE CONTRACT DRAWINGS, 3"–12" PIPE SHALL BE PRESSURE CLASS 350. PIPE SIZES GREATER THAN 12" DIAMETER SHALL BE THICKNESS CLASS 52, UNLESS OTHERWISE NOTED ON THE DRAWINGS.

B. POLYVINYL CHLORIDE (PVC) PRESSURE PIPE (4"–30"). PROVIDE UN–PLASTICIZED PVC PLASTIC PIPE WITH INTEGRAL BELL AND SPIGOT JOINTS. PIPE SHALL BE SUITABLE FOR POTABLE WATER SERVICE. PVC PIPE SHALL MEET THE FOLLOWING REQUIREMENTS:

1. PIPE.

A. LARGE DIAMETER PIPE (14"–30"). PIPE SHALL MEET THE REQUIREMENTS OF AWWA C905. PROVIDE PIPE MEETING THE REQUIREMENTS OF DR 18, UNLESS OTHERWISE NOTED ON THE DRAWING. USE PUSH–ON JOINTS EXCEPT WHERE OTHER JOINT TYPES ARE NOTED ON THE CONTRACT DRAWINGS.

B. SMALL DIAMETER PIPE (4"–12"). PIPE SHALL MEET THE REQUIREMENTS OF AWWA C900. PROVIDE PIPE MEETING THE REQUIREMENTS OF DR 18, UNLESS OTHERWISE NOTED ON THE DRAWINGS. USE PUSH–ON JOINTS EXCEPT WHERE OTHER JOINT TYPES ARE NOTED ON THE CONTRACT DRAWINGS.

FITTING & VALVE SPECIFICATIONS:

1. PIPE FITTINGS SHALL BE GRAY–IRON OR DUCTILE IRON AND SHALL CONFORM TO AWWA STANDARD C110. DUCTILE IRON (COMPACT) FITTINGS CONFORMING TO AWWA STANDARD C153 MAY BE SUBSTITUTED IN LIEU OF AWWA C110 FITTINGS FOR FITTING SIZES 3–INCHES THROUGH 24–INCHES IN DIAMETER. FITTINGS SHALL BE MECHANICAL JOINT OR FLANGED AS REQUIRED AND SHOWN ON THE PLANS.
2. DUCTILE IRON AND GREY IRON MECHANICAL JOINT FITTINGS SHALL BE PRESSURE RATED FOR 350 PSI. DUCTILE IRON AND GREY IRON FLANGED JOINT FITTINGS SHALL BE PRESSURE RATED FOR 250 PSI.
3. FITTINGS SHALL BE MORTAR LINED AND SEAL COATED.
4. BELOW GROUND USE FLANGE ADAPTERS – THE FLANGE ADAPTER TO CONNECT PLAIN END PVC PIPE OR DIP TO FLANGED FITTINGS SHALL BE A DUCTILE IRON FITTING CONFORMING TO ANSI/AWWA C153/A21.53. FITTING SHALL BE MECHANICAL JOINT ON ONE END AND FLANGED ON THE OPPOSITE END.
5. DUCTILE IRON AND GREY IRON SOLID SLEEVES SHALL BE OF THE LONG BODY DESIGN AND BOTH ENDS MECHANICAL JOINT.
6. GASKETS FOR FLANGED JOINTS SHALL BE FULL FACED, RED RUBBER, AND 1/8" THICK.
7. MECHANICAL JOINT GASKETS SHALL BE STANDARD STYRENE BUTADIENE RUBBER (SBR) GASKETS
8. BOLTS AND NUTS SHALL BE CARBON STEEL AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM A307 OR ASTM A193 GRADE B7 WITH ASTM A194 GRADE 2H HEAVY HEX NUTS.
9. GATE VALVES (4" AND LARGER) – GATE VALVES FOR BURIED SERVICE SHALL BE THE RESILIENT–SEAT TYPE, WITH AN IRON BODY, NON–RISING STEM, BOLTED BONNET, LEFT OPENING AND SHALL CONFORM TO AWWA STANDARD C509 AND C515. THE WEDGE SHALL BE TOTALLY ENCAPSULATED WITH RUBBER. ALL GATE VALVES SHALL BE RATED AT 250 PSI FOR AWWA SERVICE. THE INTERIOR AND EXTERIOR SHALL BE FUSION–BONDED EPOXY AND ALL COATINGS AND/OR LININGS SHALL CONFORM TO AWWA STANDARD C550 AND SHALL BE SUITABLE FOR POTABLE WATER SERVICE AND NSF CERTIFIED.
10. BUTTERFLY VALVES – BUTTERFLY VALVES SHALL BE SHORT BODY CLASS 250 VALVES CONFORMING TO THE REQUIREMENTS OF AWWA STANDARD C504. BUTTERFLY VALVES SHALL BE RUBBER SEATED AND TIGHT CLOSING. VALVE BODIES SHALL BE HIGH STRENGTH CAST IRON OR HIGH STRENGTH DUCTILE IRON. VALVE INTERIOR AND EXTERIOR SURFACES SHALL BE COATED WITH EPOXY IN ACCORDANCE WITH AWWA C504 AND SHALL BE SUITABLE FOR POTABLE WATER SERVICE AND NSF 61 CERTIFIED.

GENERAL NOTES:

1. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CLARK PUBLIC UTILITIES (CPU) WATER CONSTRUCTION SPECIFICATIONS, STANDARD DETAILS AND THE MOST CURRENT EDITION OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" PUBLISHED BY WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT).
2. A CPU WATER UTILITY INSPECTOR SHALL BE AT THE JOB SITE DURING CONSTRUCTION OF ALL WATER FACILITIES. CONTACT 360–992–8019 TWO WORKING DAYS PRIOR TO COMMENCING WORK.
3. WORK WITHIN COUNTY RIGHT–OF–WAY SHALL CONFORM WITH CLARK COUNTY PUBLIC WORKS UTILITY PERMIT REQUIREMENTS AND DETAILS. WORK WITHIN STATE RIGHT–OF–WAY SHALL CONFORM TO WSDOT UTILITY PERMIT REQUIREMENTS AND DETAILS.
4. VALVE SHALL BE 2" SQUARE OPERATING NUT OR AS SPECIFIED ON PLANS.
5. THE LOCATION OF THE UTILITIES SHALL BE VERIFIED IN ADVANCE TO ALLOW FOR ALIGNMENT ADJUSTMENTS. CALL UTILITY LOCATES TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION (1–800–424–5555).
6. ONLY TAPPING COMPANIES APPROVED BY CLARK PUBLIC UTILITIES SHALL BE USED TO MAKE ALL TAPS.
7. ACTUAL ROAD ALIGNMENTS MAY VARY FROM RIGHT–OF–WAY INDICATED. THE CONTRACTOR SHALL VERIFY THE PROPOSED PIPE ALIGNMENT AND REPORT DIFFERENCES TO THE CPU INSPECTOR. ALL ALIGNMENT CHANGES MUST BE APPROVED BY THE CPU INSPECTOR PRIOR TO INSTALLATION.
8. DRIVEWAYS DISTURBED BY CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO "LIKE" OR BETTER CONDITION. REFER TO PLAN FOR APPROXIMATE LOCATIONS AND TYPES.
9. CONTRACTOR SHALL VERIFY EXISTING UTILITY CULVERTS, CONDUITS AND LINE LOCATION PRIOR TO CONSTRUCTION. DUE TO FIELD CONDITIONS, THE CONTRACTOR SHALL FIELD ADJUST THE VERTICAL AND HORIZONTAL ALIGNMENT OF THE WATER MAIN TO CLEAR THE UTILITY IN CONFLICT AND PROVIDE THE MIN. 3.0 FEET OF COVER AS APPROVED BY THE CPU INSPECTOR. ALL CULVERTS WHICH ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIFICATIONS.
10. FENCES DISTURBED BY CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO "LIKE" OR BETTER CONDITION.
11. CONTRACTOR SHALL VERIFY EXISTING SIGN AND MAILBOX LOCATIONS PRIOR TO CONSTRUCTION. SIGNS & MAILBOXES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RELOCATED BACK FROM EDGE OF PAVEMENT, 1.0 FEET CLEAR OF WATER MAIN. ANY SIGNS OR MAILBOXES DAMAGED SHALL BE REPAIRED OR REPLACED AS PER THE SPECIFICATIONS.
12. THE LOCATIONS OF ALL EXISTING UTILITIES ARE FOR INFORMATIONAL PURPOSES ONLY. MANY LOCATIONS ARE PER SCHEMATIC RECORD DRAWINGS. THE CURRENT AND EXACT LOCATIONS OF FACILITIES MUST BE VERIFIED PRIOR TO CONSTRUCTION. THE CONTRACTOR PERFORMING THE WORK SHALL COMPLY WITH THE PROVISIONS OF FACILITIES AT LEAST 48 BUSINESS DAY HOURS PRIOR TO EXCAVATION. CALL 1–800–553–4344 FOR UTILITY LOCATE SERVICE.
13. THE WATER FACILITIES SHALL BECOME THE PROPERTY OF CLARK PUBLIC UTILITIES AFTER A SATISFACTORY BACTERIA AND PRESSURE TEST HAVE BEEN PERFORMED BY THE UTILITY. ALL MATERIALS AND WORKMANSHIP ARE SUBJECT TO A ONE YEAR WARRANTY, COMMENCING AT ACCEPTANCE OF FINAL TESTING. REPLACEMENT AND/OR REPAIRS OF DEFECTIVE MATERIALS SHALL BE THE DEVELOPERS/OWNERS RESPONSIBILITY.
14. WHEN ASBESTOS CONCRETE PIPE IS ENCOUNTERED, THE CONTRACTOR SHALL SUPPLY WORKERS WHO ARE CERTIFIED TO WORK ON ASBESTOS CONCRETE PIPE.
15. THE CONTRACTOR SHALL TRANSFER AND/OR ABANDON EXISTING SERVICES AS DIRECTED BY THE INSPECTOR.
16. THE INSTALLED WATER MAIN SHALL BE PRESSURE TESTED AT A MINIMUM OF 150 PSI OR 1.5 TIMES THE WORKING PRESSURE, WHICHEVER IS GREATER. THE TEST WILL BE PERFORMED BY THE CLARK PUBLIC UTILITIES INSPECTOR. THE CONTRACTOR SHALL PROVIDE ASSISTANCE AS NEEDED.
17. THE INSTALLED WATER MAIN SHALL BE THOROUGHLY DISINFECTED AND FLUSHED IN ACCORDANCE WITH THE CLARK PUBLIC UTILITIES STANDARDS AND REQUIREMENTS. ONLY CLARK PUBLIC UTILITIES EMPLOYEES ARE PERMITTED TO FILL AND FLUSH THE WATER MAIN. THE CONTRACTOR SHALL PROVIDE ASSISTANCE AS NEEDED. IN AREAS WHERE THE DE–CHLORINATION OF FLUSHED WATER IS NOT POSSIBLE, THE CONTRACTOR SHALL PROVIDE WATER TRUCKS TO FLUSH INTO.
18. PRIOR TO ACCEPTING THE SYSTEM OR ALLOWING THE MAIN TO BE PUT IN SERVICE, A WATER SAMPLE SHALL BE TAKEN BY THE CLARK PUBLIC UTILITIES INSPECTOR AND A TEST PERFORMED BY AN ACCREDITED LAB TO INSURE NO HAZARD EXISTS.

MECHANICAL JOINT & PIPE JOINT RESTRAINT SPECIFICATIONS:

MECHANICAL JOINT RESTRAINT SPECIFICATIONS

1. MECHANICAL JOINT RESTRAINT SHALL BE ACCOMPLISHED BY A RESTRAINT DEVICE CONSISTING OF A FOLLOWER GLAND UTILIZING MULTIPLE GRIPPING WEDGES. GLAND BODY AND WEDGES SHALL BE DUCTILE IRON AND EPOXY COATED.
2. T–BOLTS AND NUTS SHALL BE HIGH STRENGTH LOW ALLOY STEEL T–BOLTS AND STEEL SHALL MEET AWWA C111 COMPOSITION SPECIFICATIONS.
3. RESTRAINT GLAND SHALL UTILIZE A STANDARD MECHANICAL JOINT GASKET.
4. THE FOLLOWNG IS THE APPROVED LIST OF RESTRAINED JOINT SYSTEMS FOR MECHANICAL JOINTS AND DIP:
   - 4.1 "ROMAGRIP", ROMAC INDUSTRIES.
   - 4.2 "SERIES 1000 TUFGRIP", TYLER UNION.
   - 4.3 "MEGALUG", EBAA IRON, INC.
   - 4.4 APPROVED EQUIVALENT
5. THE FOLLOWNG IS THE APPROVED LIST OF RESTRAINED JOINT SYSTEMS FOR MECHANICAL JOINTS AND PVC:
   - 5.1 "ROMAGRIP FOR PVC", ROMAC INDUSTRIES.
   - 5.2 "SERIES 2000 FOR PVC TUFGRIP", TYLER UNION.
   - 5.3 "MEGALUG SERIES 2000 PV", EBAA IRON, INC.
   - 5.4 APPROVED EQUIVALENT

DUCTILE IRON PIPE RESTRAINED JOINT SPECIFICATIONS

1. PIPE JOINT RESTRAINT FOR DIP SHALL BE ACCOMPLISHED WITH A PIPE BELL/SPIGOT INTEGRAL LOCK MECHANISM.
2. AS AN ALTERNATIVE AND WHERE ALLOWED BY CLARK PUBLIC UTILITIES, A BOLTLESS RESTRAINING GASKETS FOR DIP TYTON JOINT STYLE PIPE MAY BE USED. THE RESTRAINT GASKET SHALL BE A BOLTLESS GASKET WITH INTEGRAL RESTRAINING SYSTEM UTILIZING STAINLESS STEEL PARTS AND SHALL BE PRESSURE RATED FOR 350 PSI. THE GASKETS SHALL BE IN CONFORMANCE WITH ANSI/AWWA C111/A21.11 AND CERTIFIED TO NSF/ANSI 6. THE FOLLOWNG IS THE APPROVED LIST OF DIP PIPE JOINT RESTRAINED GASKET SYSTEMS:
   - 2.1 "FIELD LOK 350 GASKET", U.S. PIPE AND FOUNDRY CO.
   - 2.2 "GRIPPER GASKET", GRIPPER GASKET LLC.
   - 2.3 APPROVED EQUIVALENT

PVC PIPE RESTRAINED JOINT SPECIFICATIONS

1. PVC PIPE JOINT RESTRAINT FOR MAY BE ACCOMPLISHED BY UTILIZING A PROPRIETARY PVC PIPE WHICH UTILIZES A PIPE BELL/SPIGOT INTEGRAL JOINT RESTRAINT MECHANISM. THE FOLLOWNG IS THE APPROVED LIST OF PROPRIETARY PVC C–900 PIPE JOINT RESTRAINED SYSTEMS:
   - 1.1 "EAGLE LOC 900", JM EAGLE
   - 1.2 "CERTA–LOK C900/RJ", CERTAINTEED
   - 1.3 "DIAMOND LOK–21", DIAMOND PLASTICS INC.
   - 1.4 APPROVED EQUIVALENT
2. AS AN ALTERNATIVE, PVC PIPE MAY BE COUPLED TO CREATE A RESTRAINED JOINT BY UTILIZING A GREY IRON OR DUCTILE IRON MECHANICAL JOINT LONG PATTERN SLEEVE WITH A RESTRAINT FOLLOWER GLAND UTILIZING MULTIPLE GRIPPING WEDGES.

REVISIONS

DESIGN DEVELOPMENT

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PRELIMINARY

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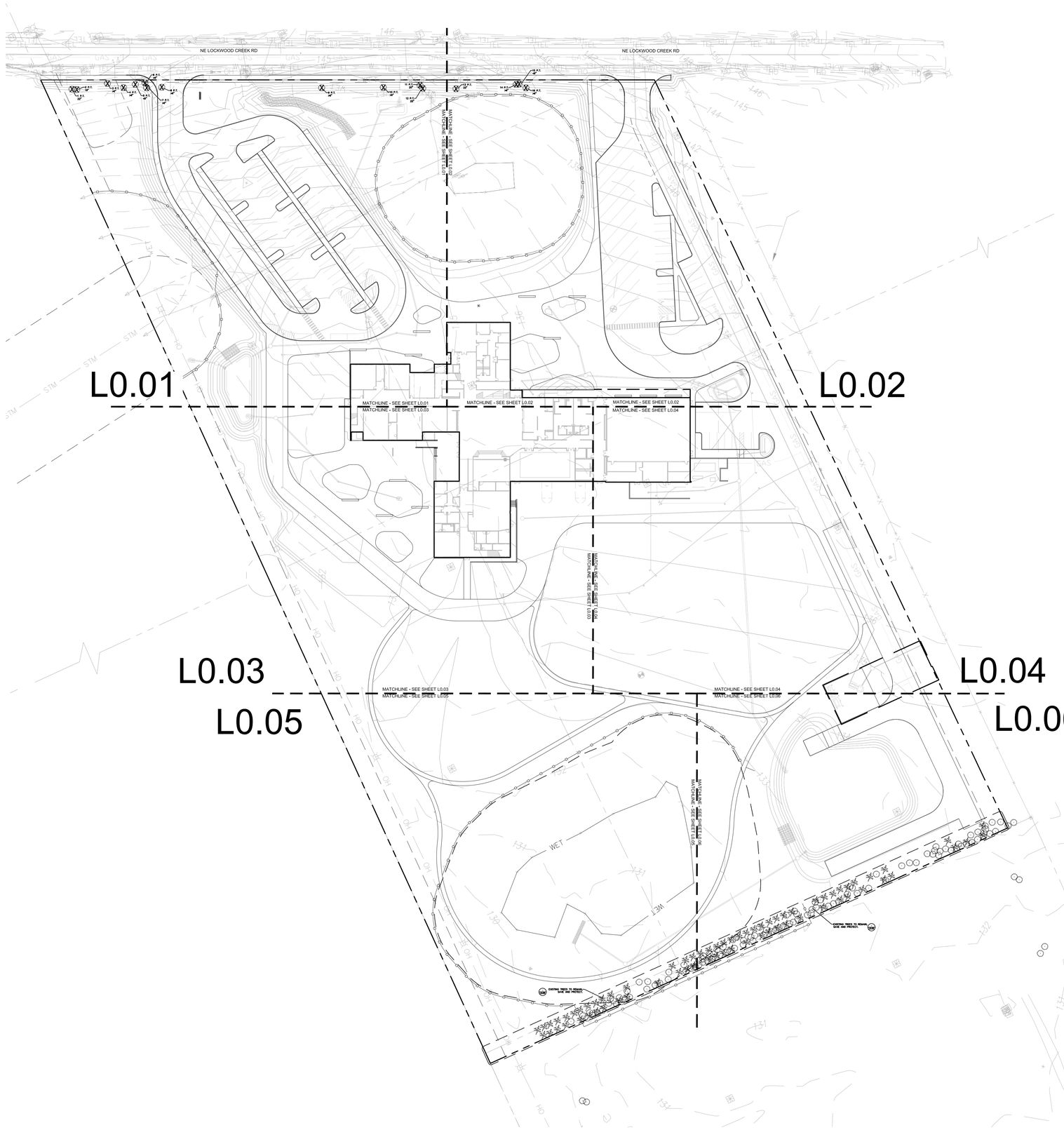
DATE	10-18-2018

CPU WATER STANDARD DETAILS

DD SUBMITTAL

C904



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OVERALL TREE PROTECTION PLAN

L0.00

TREE PROTECTION LEGEND

EXISTING TREE TO REMAIN — SEE SITE PLAN FOR LOCATIONS, SAVE AND PROTECT, SEE DETAIL (1 / L0.05)

EXISTING TREES TO BE REMOVED — SEE SITE PLAN FOR LOCATIONS

TREE TABLE

INFORMATION BASED ON TREE REPORT DATED 9/5/2018, PREPARED BY KEITH L. BLOOM. SEE REPORT FOR ADDITIONAL INFORMATION.

Tree #	Species ID	Condition (see tree report)	DBH inches	Proposed Action		Reason for Removal
				Ret.	Remove	
1	Black Cottonwood/ Populus trichocarpa	appear structurally healthy and properly shaped, some limp breakage	22		1	road improvement
2	Black Cottonwood/ Populus trichocarpa	appear structurally healthy and properly shaped	19		1	road improvement
3	Black Cottonwood/ Populus trichocarpa	appear structurally healthy and properly shaped	<6		1	road improvement
4	Black Cottonwood/ Populus trichocarpa	appear structurally healthy and properly shaped	>6		1	road improvement
5	Black Cottonwood/ Populus trichocarpa	appear structurally healthy and properly shaped	>6		1	road improvement
6	Black Cottonwood/ Populus trichocarpa	appear structurally healthy and properly shaped	>6		1	road improvement
7	Black Cottonwood/ Populus trichocarpa	appear structurally healthy and properly shaped	>6		1	road improvement
8	Black Cottonwood/ Populus trichocarpa	appear structurally healthy and properly shaped	>6		1	road improvement
9	Black Cottonwood/ Populus trichocarpa	appear structurally healthy and properly shaped	>6		1	road improvement
10	Black Cottonwood/ Populus trichocarpa	appear structurally healthy and properly shaped	>6		1	road improvement
11	Black Cottonwood/ Populus trichocarpa	appear structurally healthy and properly shaped	20		1	road improvement
12	Black Cottonwood/ Populus trichocarpa	appear structurally healthy and properly shaped	25		1	road improvement
13	Black Cottonwood/ Populus trichocarpa	appear structurally healthy and properly shaped	22		1	road improvement
14	Black Cottonwood/ Populus trichocarpa	appear structurally healthy and properly shaped	>6		1	road improvement
15	Black Cottonwood/ Populus trichocarpa	appear structurally healthy and properly shaped	<6		1	road improvement
16	Black Cottonwood/ Populus trichocarpa	appear structurally healthy and properly shaped	>6		1	road improvement

0 16

SCALE: 1"=20'-0"

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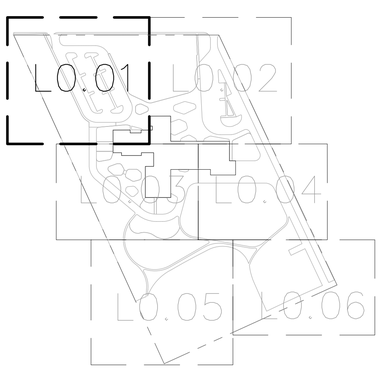

NE LOCKWOOD CREEK RD

1 P.T. 22"
2 P.T. 19"
3 P.T. >6"
4 P.T. >6"
5 P.T. <6"
6 P.T. >6"
7 P.T. >6"
8 P.T. >6"
9 P.T. >6"
10 P.T. >6"
11 P.T. 20"
12 P.T. 25"

MATCHLINE - SEE SHEET L0.02

MATCHLINE - SEE SHEET L0.01

MATCHLINE - SEE SHEET L0.01

MATCHLINE - SEE SHEET L0.03

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TREE PROTECTION PLAN ENLARGEMENT

L0.01

TREE PROTECTION LEGEND

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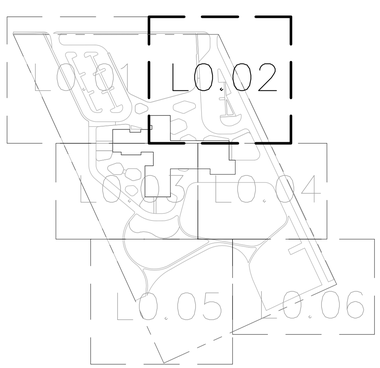

NE LOCKWOOD CREEK RD

13 P.T. 22"

14 P.T. >6"

15 P.T. <6"

16 P.T. >6"

MATCHLINE - SEE SHEET L0.02

MATCHLINE - SEE SHEET L0.01

MATCHLINE - SEE SHEET L0.02

MATCHLINE - SEE SHEET L0.02

MATCHLINE - SEE SHEET L0.04

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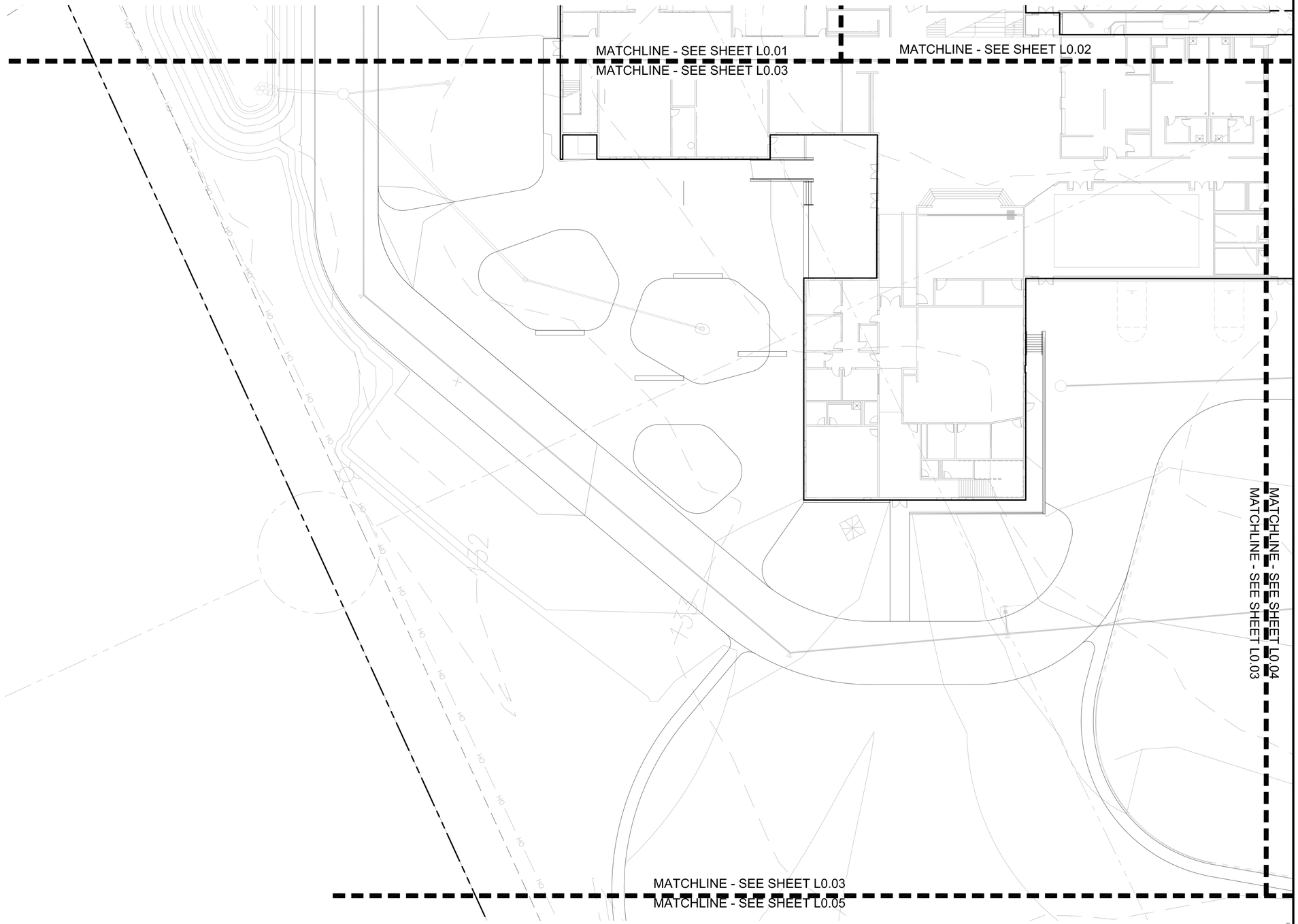
TREE PROTECTION PLAN ENLARGEMENT

L0.02



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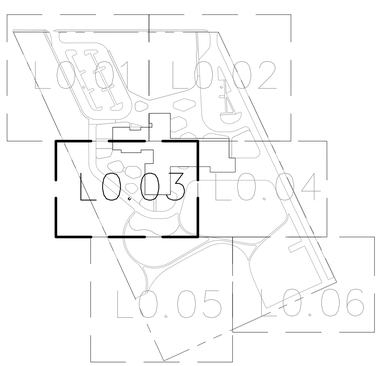

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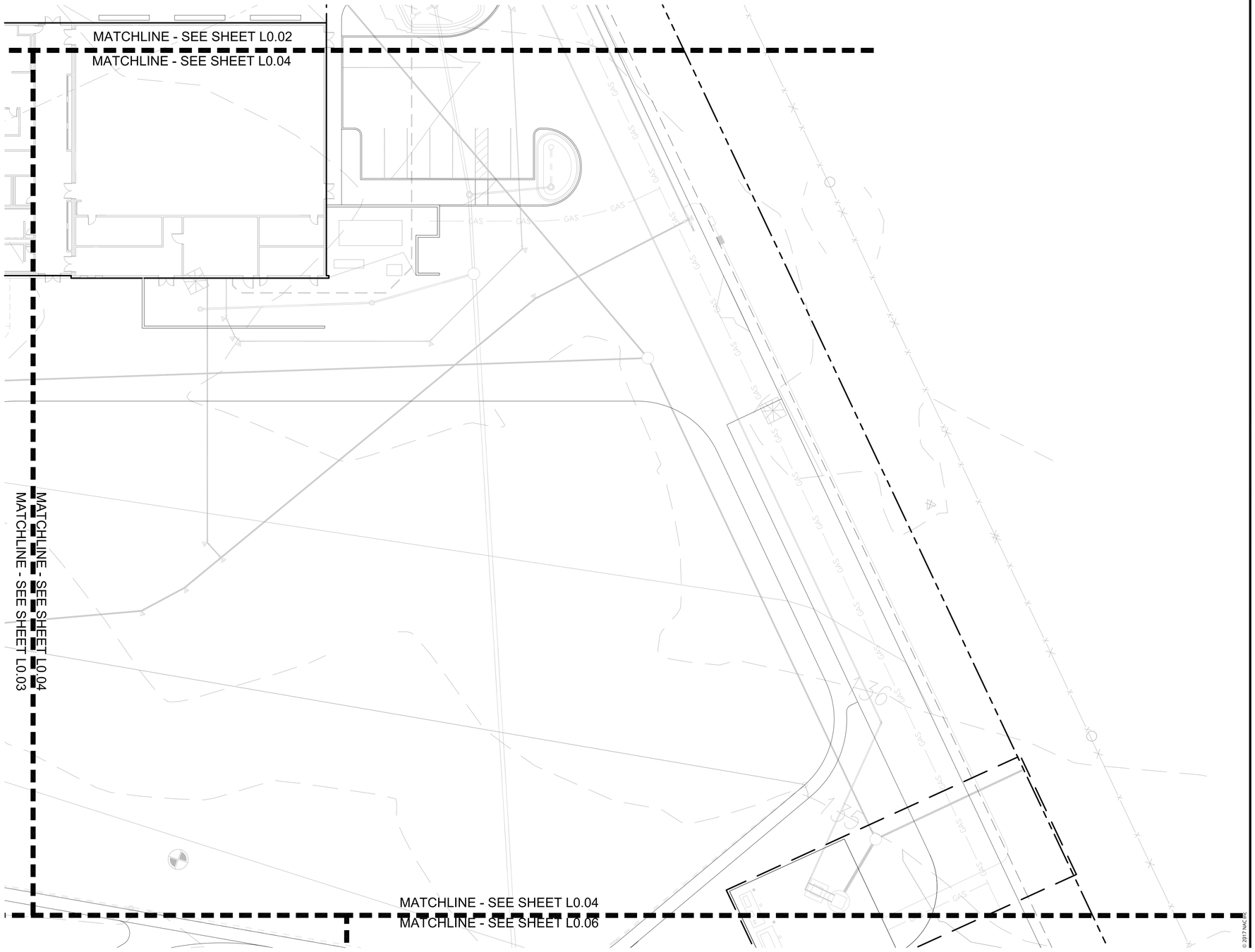
TREE PROTECTION PLAN ENLARGEMENT

L0.03



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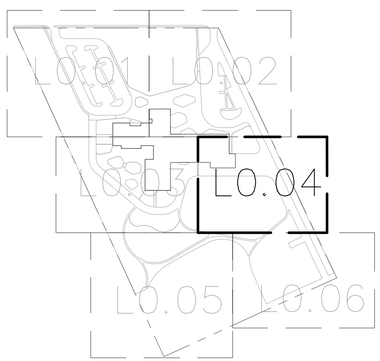

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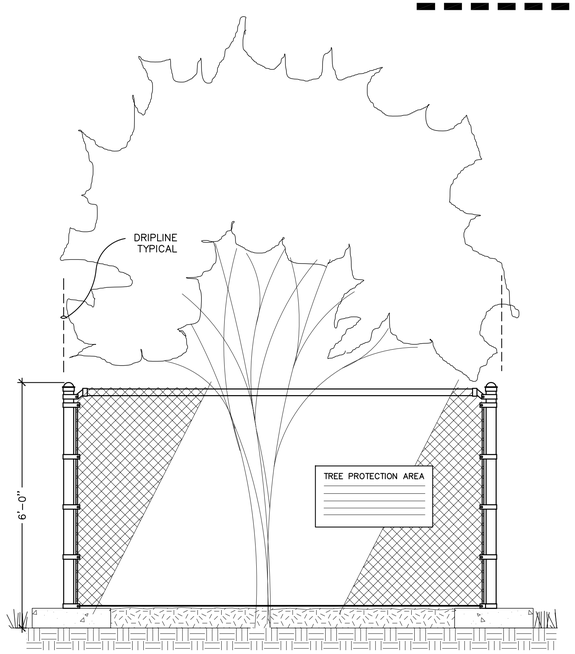
TREE PROTECTION PLAN ENLARGEMENT

L0.04



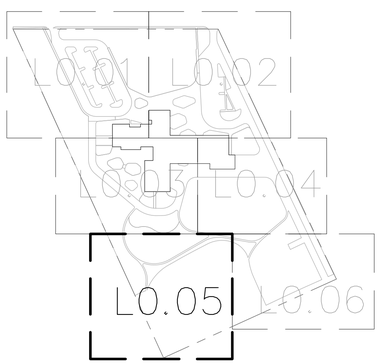
NOTES:

1. A 6-FOOT HIGH TEMPORARY CHAIN LINK FENCE MUST BE PLACED OUTSIDE THE DRIPLINE OF TREES PRIOR TO THE COMMENCEMENT OF DEMO & EARTHWORK. PLANNING DEPARTMENT MUST INSPECT AND SIGNOFF THAT TREE PROTECTION IS ADEQUATE PRIOR TO INITIATING DEMO AND EARTHWORK.
2. ADD A MINIMUM OF 4" OF MULCH TO THE BASE OF PROTECTED TREES INSIDE TEMPORARY FENCE AREA.
3. SIGNAGE NOTING THAT TREES WITHIN THE FENCING ARE TO BE SAVED, AND THAT NO MATERIAL STORAGE IS ALLOWED WITHIN THE FENCING SHALL BE PLACED ON THE FENCE IN A CONSPICUOUS LOCATION.
4. NO STOCKPILING OF MATERIAL AND NO VEHICULAR TRAFFIC ARE ALLOWED WITHIN THE LIMITS OF THE TEMPORARY FENCING. ONLY LIMITED INTRUSION INTO TREE DRIP ZONES WILL BE ALLOWED AS SHOWN ON THE APPROVED PLANS. FILLING, EXCAVATING, AND CLEARING MUST BE ACCOMPLISHED BY HAND METHODS ONLY.
5. ROOTS OF TREES TO BE SAVED WHICH ARE DAMAGED DURING CONSTRUCTION WILL BE TREATED IN THE FOLLOWING WAY:
   - FOR DAMAGED ROOTS OVER 1" IN DIAMETER, MAKE A CLEAN, STRAIGHT CUT TO REMOVE THE DAMAGED PORTION OF THE ROOT. ALL EXPOSED ROOTS WILL BE TEMPORARILY COVERED WITH DAMP BURLAP OR WOOD SHAVING TO PREVENT DRYING AND COVERED WITH EARTH AS SOON AS POSSIBLE.
6. SEE PLAN FOR LOCATION OF EXISTING TREES TO RECEIVE TEMPORARY FENCING.

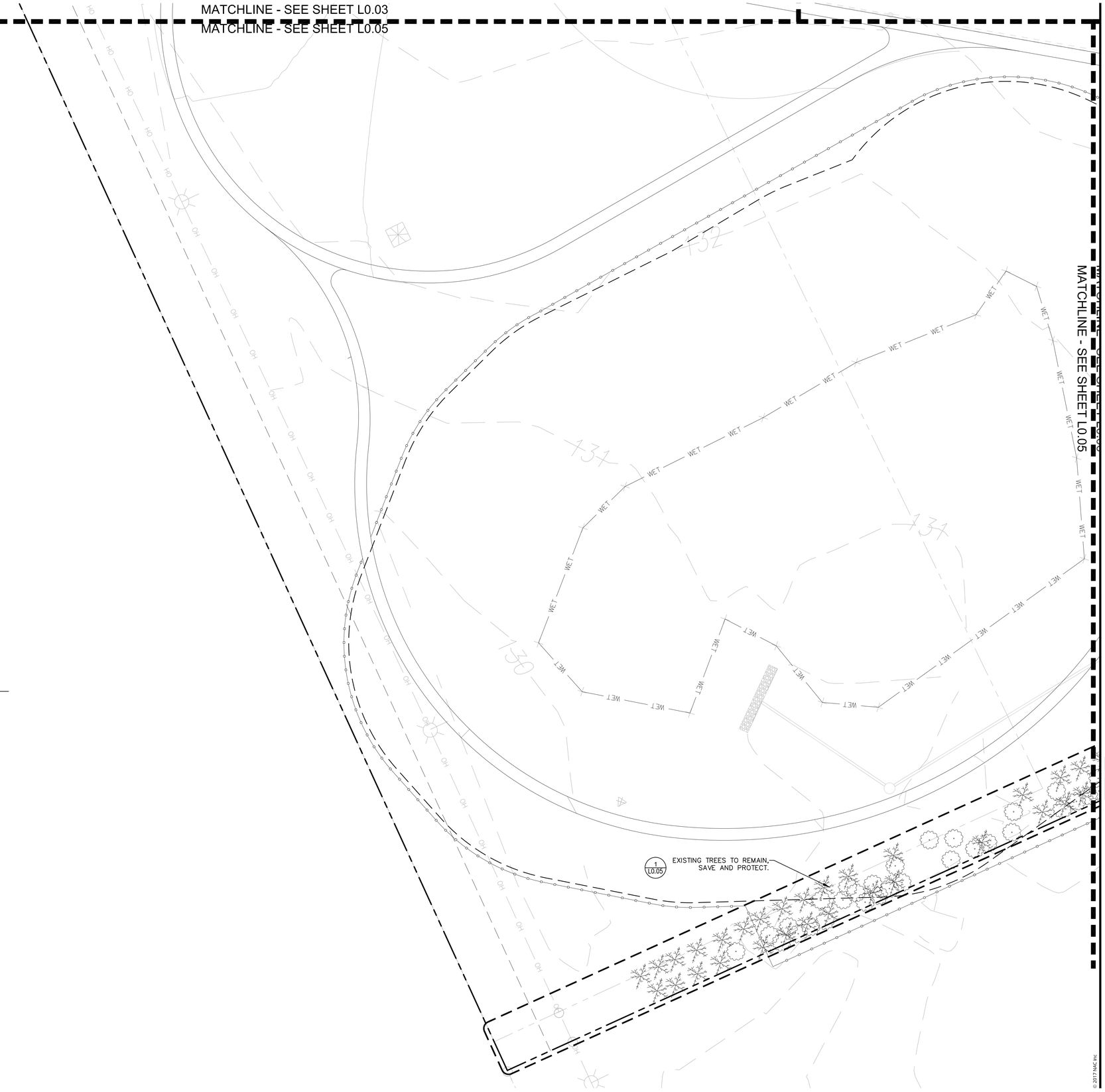
1 TREE PROTECTION
NTS

SCALE: 1"=20'-0"

0' 10' 20' 40' 80'



MATCHLINE - SEE SHEET L0.03
MATCHLINE - SEE SHEET L0.05



MATCHLINE - SEE SHEET L0.05

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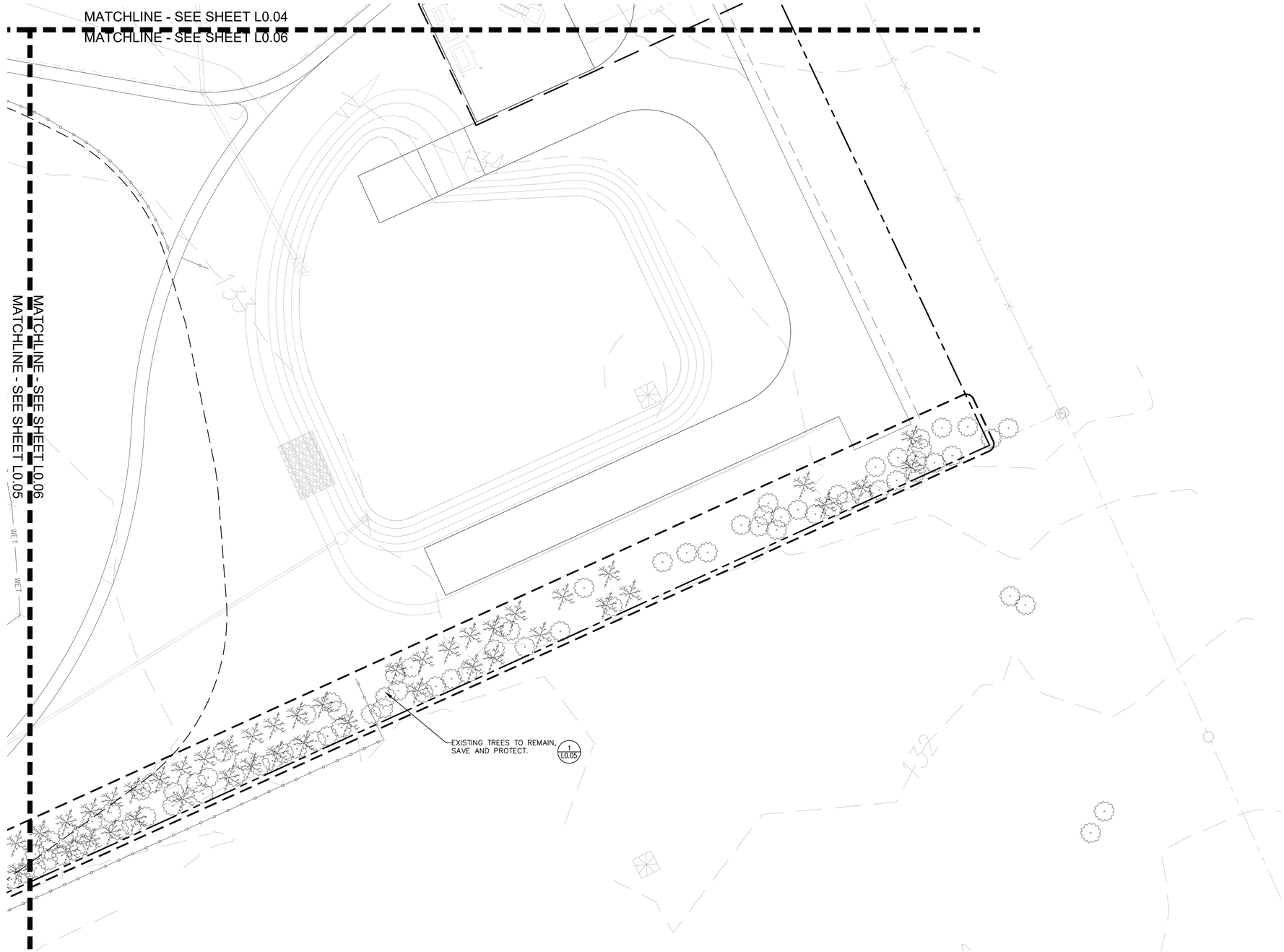
TREE PROTECTION PLAN ENLARGEMENT

L0.05



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0' 10' 20' 40' 80'

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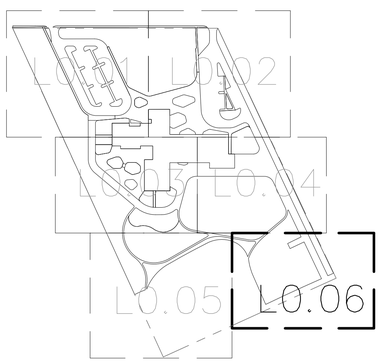

REVISIONS

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LANDSCAPE CONSULTANT
2323 E MADISON ST
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STATE OF WASHINGTON
RAWEN J RASMUSSEN
LANDSCAPE ARCHITECT
No. 799 EXP. 8/26/2019

LA CENTER SCHOOL DISTRICT

LA CENTER NEW MIDDLE SCHOOL

725 HIGHLAND ROAD, LA CENTER, WA 98629

LA CENTER School District

NAC ARCHITECTURE
nacarchitecture.com
2025 FIRST AVENUE | SUITE 300
SEATTLE WA 98121
P:206.441.4522

NAC NO	121-18009
DRAWN	AL
CHECKED	AR
DATE	10-22-2018

TREE PROTECTION PLAN ENLARGEMENT

L0.06

IMPERVIOUS SURFACE / COVERAGE

TOTAL GROSS AREA	=	754,617 sf	17.32 acres	(+/-)
TOTAL RIGHT OF WAY AREA	=	1,730 sf	0.04 acres	(+/-)
TOTAL PROTECTED WETLAND AREA	=	28,751 sf	0.66 acres	(+/-)
TOTAL PROTECTED WETLAND BUFFER AREA (INC. PROTECTED WETLAND AREA)	=	148,733 sf	3.42 acres	(+/-)
TOTAL LANDSCAPING AREA (NOT INC PROTECTED WETLAND/BUFFER)	=	328,680 sf	7.55 acres	(+/-)
TOTAL STUDENTS	=	550		
TOTAL EMPLOYEES	=	41		
TOTAL PARKING SPACES	=	157		
STAFF	=	21		
VISITOR	=	62		
EVENT	=	38		
TOTAL BICYCLE PARKING SPACES	=	36		
PROPOSED IMPERVIOUS SURFACE AREA (MAX 50% ALLOWED)	=	32% (242,683)sf	5.57 acres	(+/-)
BLDG. LOT COVERAGE (1st Floor Bldg./Lot Area) (MAX 35% ALLOWED)	=	7% (53,048 sf)	1.22 acres	(+/-)
BUILDING SQUARE FOOTAGE (all floors)	=	77,275 sf		

BUILDING SETBACKS

FRONT SETBACK	20 FEET REQUIRED	-	289'-8" PROVIDED
SIDE SETBACK - EAST	7.5 FEET REQUIRED	-	123'-5" PROVIDED
SIDE SETBACK - WEST	7.5 FEET REQUIRED	-	157'-6" PROVIDED
REAR SETBACK	20 FEET REQUIRED	-	540'-7" PROVIDED
STREET SETBACK	10 FEET REQUIRED	-	289'-8" PROVIDED

LEGAL DESCRIPTION

Perimeter of Assessor's Parcel No. 209064-000

A parcel of land in a portion of the Southwest quarter of the Northeast quarter of Section 2, Township 4 North, Range 1 East of the Willamette Meridian, Clark County, Washington, more particularly described as follows:
Beginning at the Southwest comer of said Northeast quarter as shown in the Survey recorded in Book 33 of Surveys at page 144, records of Clark County Washington;
Thence North 01°49'28" East, along the West line of said Northeast quarter as shown in said survey 336.30 feet, to the Southwest comer of that tract of land conveyed to Gravitate Capital, LLC by deed recorded under Auditors File NO. 5354714, records of Clark County, Washington said point being the TRUE POINT OF BEGINNING;
Thence South 88°10'32" East, along the South line of said Gravitate Capital, LLC parcel perpendicular to said West line of the Northeast quarter, 624.28 feet; to the Southeast comer thereof, being on the Southerly Right-of-Way line of NE Lockwood Creek Road as shown in said Minister Survey;
Thence North 63°36'37" West, along said Southerly Right-of-way line, 686.41 feet, to the West line of said Northeast quarter as shown in said Minister Survey;
Thence South 01°49'28" West, along said West line of the Northeast quarter 285.36 feet, to the TRUE POINT OF BEGINNING.

Perimeter of Assessor's Parcel No. 209118-000

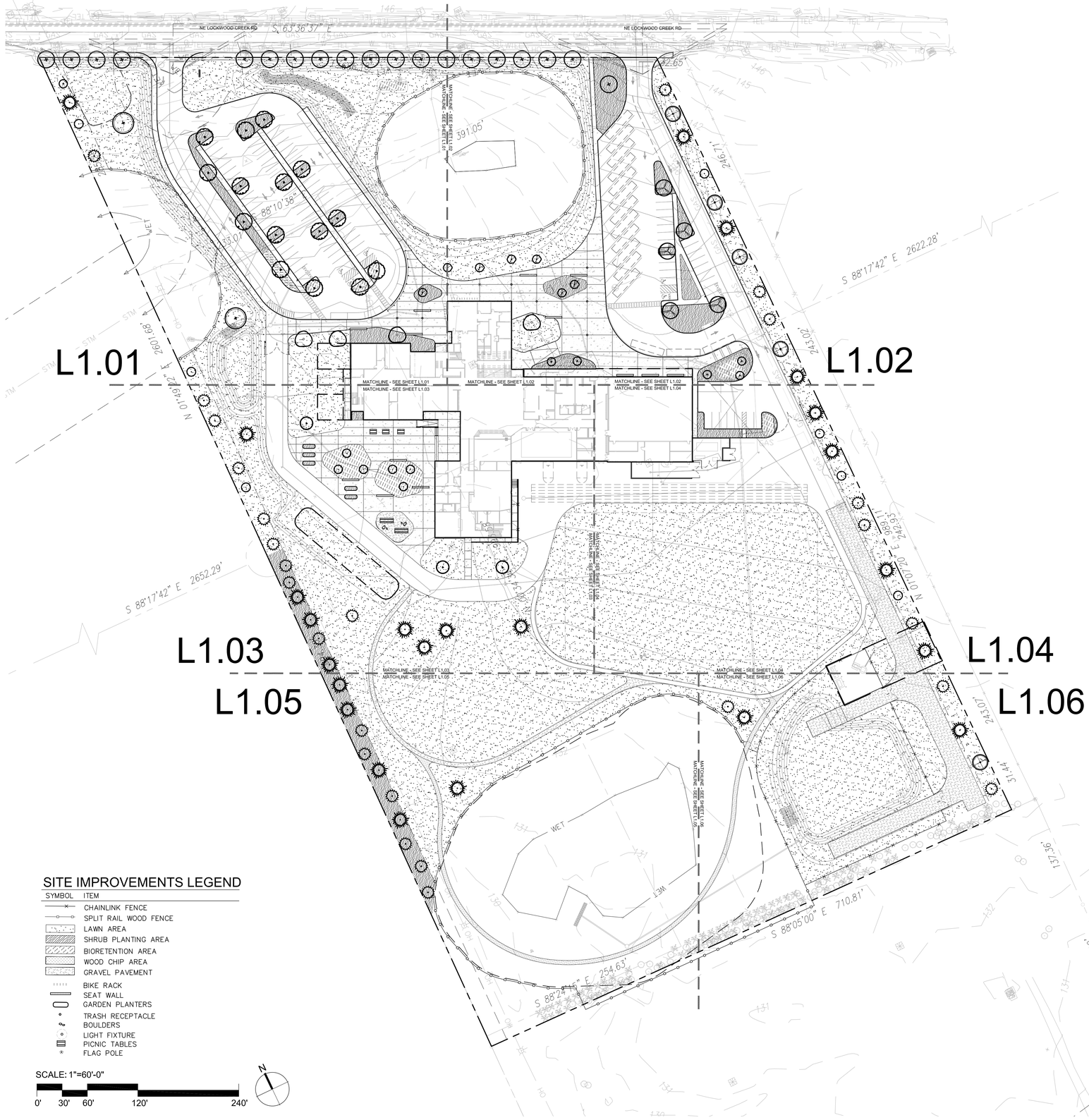
BEGINNING at a point 300.96 feet South of the center of County Road No. 42 on the East line of the Northwest quarter, in Section 2, Township 4 North, Range I East, of the Willamette Meridian, Clark County, Washington, said point being the Southeast corner of that property conveyed to David T. Meechan as recorded under Auditor's File No. 8911290124, records of Clark County, Washington; thence South 979.03 feet to a point 515 feet North of the Northwest corner of that property conveyed to Bluford W. Birdsong as recorded under Auditor's File No. 9212180144, records of Clark County, Washington; thence East 254.63 feet; thence Northwesterly to a point 233.01 feet east of the point of beginning; thence West 233.01 feet to the point of beginning.

Perimeter of Assessor's Parcel No. 209120-000

That portion of the East half of Section 2, Township 4 North, Range I East, Willamette Meridian, Clark County, Washington, described as follows;

BEGINNING at the Southwest corner of the Northeast quarter of Section 2; thence North 01° 49' 28" East, along the West line of the Northeast quarter of said Section 2, a distance of 366.30 feet to the Southeast corner of that certain tract of land conveyed to David T. Meehan by deed recorded under Auditor's File No. 8911290124, records of Clark County, Washington, said point being the Northwest corner of that certain tract of land conveyed to Myron Prouty et ux, by deed recorded under Auditor's File No. 9702260226,records of said county; thence North 88° 10' 32" East, along the North line of said Prouty tract, 233.01 feet to the Northeast corner thereof and the True Point of

THENCE South 01° 34' 45" West, along the East line of said Prouty tract, 994,86 feet to the Southeast corner thereof; thence North 88° 10' 32" West, along the South line of said Prouty tract, 254,63 feet to the Southwest corner thereof; thence South 01° 49' 28" West, along the West line of the Southeast quarter of said Section 2, a distance of 13.32 feet to the Northwest corner of that certain tract of land conveyed to M & S Properties, Inc,, by deed recorded under Auditor's File No, 9702250071, records of Clark County, Washington; thence South 88° 05' 00" East along the North line of said M & S Properties, Inc, tract, 976.37 feet; thence North 01° 07' 20" East, 989.48 feet to a point 30.00 feet from as measured at right angles to the centerline of County Road No, 42; thence North 63° 36' 37" West, parallel to said centerline, a distance of 47.23 feet; thence North 88° 10' 32" West, 39L28 feet to the Northwest corner of aforementioned Prouty tract and the True Point of Beginning,



SITE IMPROVEMENTS LEGEND

SYMBOL	ITEM
	CHAINLINK FENCE
	SPLIT RAIL WOOD FENCE
	LAWN AREA
	SHRUB PLANTING AREA
	BIORETENTION AREA
	WOOD CHIP AREA
	GRAVEL PAVEMENT
	BIKE RACK
	SEAT WALL
	GARDEN PLANTERS
	TRASH RECEPTACLE
	BOULDERS
	LIGHT FIXTURE
	PICNIC TABLES
	FLAG POLE

SCALE: 1"=60'-0"

0' 30' 60' 120' 240'

N

REVISIONS

CUP SUBMITTAL

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No 339 EXP 9/20/2019

LA CENTER SCHOOL DISTRICT
LA CENTER NEW MIDDLE SCHOOL
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LA CENTER School District

NAC ARCHITECTURE
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CHECKED	AR
DATE	10-22-2018

OVERALL SITE PLAN

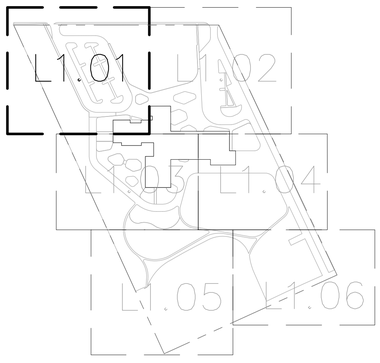
L1.00

SITE IMPROVEMENTS LEGEND

SYMBOL	ITEM
	CHAINLINK FENCE
	SPLIT RAIL WOOD FENCE
	LAWN AREA
	SHRUB PLANTING AREA
	BIORETENTION AREA
	WOOD CHIP AREA
	GRAVEL PAVEMENT
	BIKE RACK
	SEAT WALL
	GARDEN PLANTERS
	TRASH RECEPTACLE
	BOULDERS
	LIGHT FIXTURE
	PICNIC TABLES
	FLAG POLE

SCALE: 1"=20'-0"

0' 10' 20' 40' 80'



NE LOCKWOOD CREEK RD

CENTER LINE ROAD

PROPERTY LINE

3' ROW DEDICATION

CENTERLINE TO PROPERTY LINE 30'

6'

5'-6"

3'

MONUMENT SIGN, SEE ARCH.

WETLAND

50' WETLAND BUFFER

ARCHAEOLOGICAL SITE BOUNDARY

SITE ZONE: LDR-7.5 LOW DENSITY RESIDENTIAL

LANDSCAPE BUFFER, TYPE L1 20' WIDTH, 2840 SF,

1 TREE PER 800 SF, 2 HIGH SHRUBS PER 400 SF, (4) TREES, (8) SHRUBS REQUIRED, (4) TREES, (8) SHRUBS PROVIDED (SEE LANDSCAPE PLAN)

ASPHALT PAVING, TYP. SEE CIVIL

CONCRETE PAVING, SEE CIVIL, TYP.

DROP-OFF QUEUE LENGTH: 612'

80' WETLAND BUFFER

STUDENT DROP-OFF / EVENT PARKING (29 STALLS)

3-RAIL WOOD FENCE WITH WETLAND AND BUFFER SIGNS EVERY 100 FT.

PARKING ISLAND, TYP.

VISITOR PARKING (62 STALLS)

FLAG

BOLLARD, TYP.

DETECTABLE PAVING, TYP.

STUB-OUT FOR FUTURE EV CHARGING STATION

BIORETENTION AREA

ADA DROP-OFF

BIKE PARKING, SEE DETAIL 1, SHEET L1.02

ASPHALT PAVING, TYP. SEE CIVIL

CONCRETE PAVING AT CROSSWALK, SEE CIVIL

ENTRY PLAZA

CONCRETE PAVING, TYP. SEE CIVIL

FIRE HYDRANT

3-RAIL WOOD FENCE WITH RIPARIAN AND BUFFER SIGNS EVERY 100 FT.

75' RIPARIAN BUFFER

KNOX BOX

VEHICLE PIPE GATE

VEHICLE GATE HOLD OPEN POST, TYP.

RESERVED FOR FUTURE DEVELOPMENT: 3590 SQ FT

CONCRETE SEAT WALL, TYP

CONCRETE MOW STRIP

STORM POND

MATCHLINE - SEE SHEET L1.02

MATCHLINE - SEE SHEET L1.01

MATCHLINE - SEE SHEET L1.01

MATCHLINE - SEE SHEET L1.03

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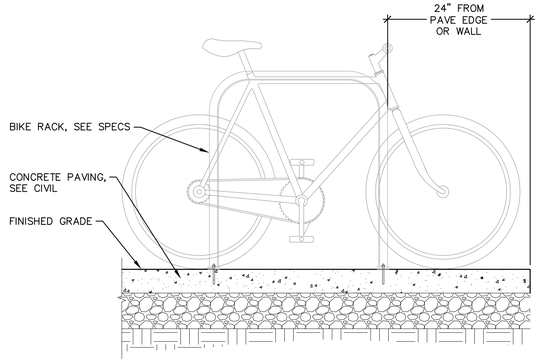
SITE PLAN ENLARGEMENT

L1.01

GENERAL NOTES:

1. SUBMIT COLOR PHOTOS REPRESENTATIVE OF PROPOSED NURSERY STOCK FOR EACH PLANT SPECIES AND VARIETY LISTED IN LANDSCAPE SCHEDULE. FINAL APPROVAL OF PLANT MATERIAL WILL NOT BE PROVIDED UNTIL DELIVERY AND REVIEW ON SITE.
2. CONTAINERIZED TREES ARE STRONGLY DISCOURAGED. TREES WITH LARGE CIRCLING ROOTS OR TOO DEEP ROOT SYSTEMS WILL BE REJECTED.
3. ALL ROOT PACKAGES MUST BE FREE OF ANY WEEDS.
4. TREE STAKING REQUIREMENTS WILL BE DETERMINED BY LANDSCAPE ARCHITECT AT THE TIME OF PLANTING. PROPERLY PROPORTIONED AND PLANTED TREES WITH HEALTHY ROOT PACKAGES MAY NOT REQUIRE STAKING.
5. ALL TREE STAKES MUST BE REMOVED BY THE CONTRACTOR BY THE END OF THE FIRST FULL GROWING SEASON.
6. AT THE DIRECTION OF THE LANDSCAPE ARCHITECT, PRUNING MAY BE REQUIRED TO REMOVE DAMAGED, CROSSING, MISSHAPEN OR LOW BRANCHING LIMBS. TREES SHOULD NOT REQUIRE SIGNIFICANT PRUNING TO CORRECT HEALTH OR AESTHETIC DEFICIENCIES.
7. INSTALL 3" DEPTH SPECIFIED MULCH IN ALL LANDSCAPE AREAS.
8. INSTALL 8" DEPTH SPECIFIED TOPSOIL IN ALL LANDSCAPE AREAS.
9. PROVIDE A 4' DIAMETER MULCH CIRCLE AROUND ALL TREES PLANTED IN LAWN AREAS.
10. REFER TO CIVIL DEMOLITION DRAWINGS AND SPECIFICATIONS FOR REMOVAL REQUIREMENTS AND PROTECTION FENCING AROUND EXISTING VEGETATION.
11. REFER TO TREE PRESERVATION PLANS FOR SCHEDULE OF EXISTING TREES TO BE SAVED OR REMOVED.
12. REFER TO CIVIL PLANS FOR UTILITY WORK. CONTRACTOR RESPONSIBLE FOR PATCH AND REPAIR OF ALL EXISTING LANDSCAPE AREAS DISTURBED BY CONSTRUCTION WORK UNDER THIS CONTRACT.
13. REFER TO PLANTING AND SEEDING SPECIFICATION FOR ADDITIONAL REQUIREMENTS, INCLUDING EXTENDED MAINTENANCE REQUIREMENTS.
14. ALL NEW LANDSCAPE AREAS WILL BE WATERED WITH A PERMANENT, AUTOMATIC, WATER EFFICIENT IRRIGATION SYSTEM. PROVIDE IRRIGATION SYSTEM COMPONENTS INCLUDING ALL HEADS, PIPING, VALVES, VALVE BOXES, CONTROLLERS, WIRING AND BACKFLOW PREVENTION. RAINBIRD AND/OR HUNTER POP-UP SPRAY HEAD, STREAM ROTOR AND GEAR DRIVE ROTOR IRRIGATION HEADS. CLASS 200 PVC LATERAL PIPE, SCHEDULE 40 MAINLINES, RAINBIRD AUTOMATIC CONTROL VALVES, TIME CLOCK, AND RAIN SENSOR.
15. A CONSERVATION COVENANT SHALL BE RECORDED IN A FROM APPROVED BY THE CITY ATTORNEY AS ADEQUATE TO INCORPORATE THE RESTRICTIONS OF THE CITY CODE AND TO GIVE NOTICE OF THE REQUIREMENT TO OBTAIN A WETLAND PERMIT PRIOR TO ENGAGING IN REGULATED ACTIVITIES WITHIN A WETLAND OR ITS BUFFER.



NOTES:

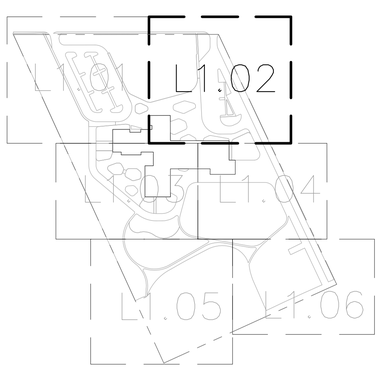
1. SPORTWORKS "TOFINO NO SCRATCH" BIKE RACK BY SPORTWORKS NORTHWEST, SURFACE MOUNTED WITH CONCRETE WEDGE ANCHORS, SEE SPECS.
2. INSTALL BIKE RACK PLUMB AND LEVEL.
3. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURE'S SPECIFICATIONS.

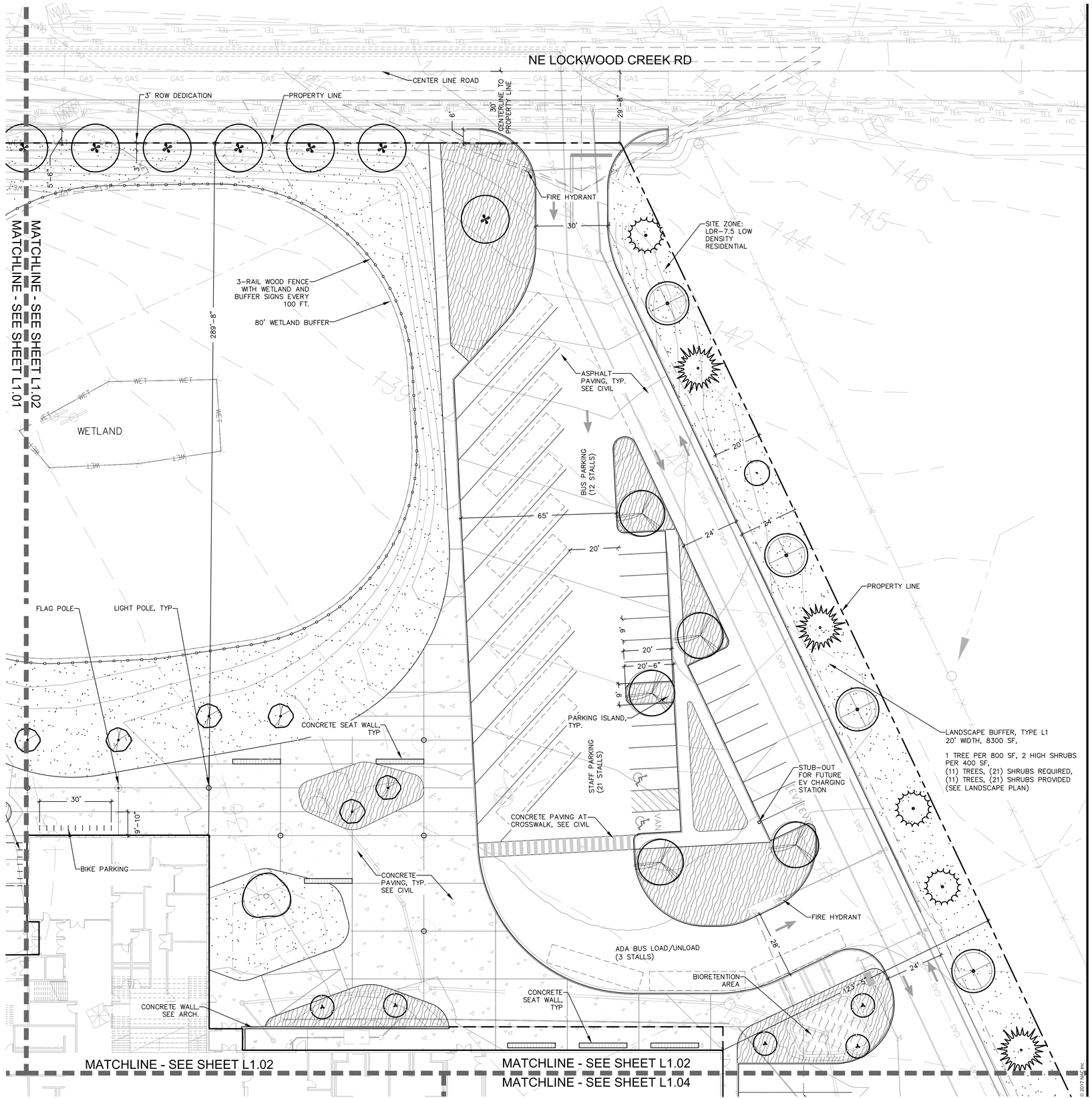
1 BIKE RACK

Scale: 1"=1'-0"

SCALE: 1"=20'-0"

0' 10' 20' 40' 80'





REVISIONS

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No. 739 EXP. 6/29/2019

LA CENTER SCHOOL DISTRICT

LA CENTER NEW MIDDLE SCHOOL

725 HIGHLAND ROAD, LA CENTER, WA 98629

LA CENTER School District

NAC ARCHITECTURE
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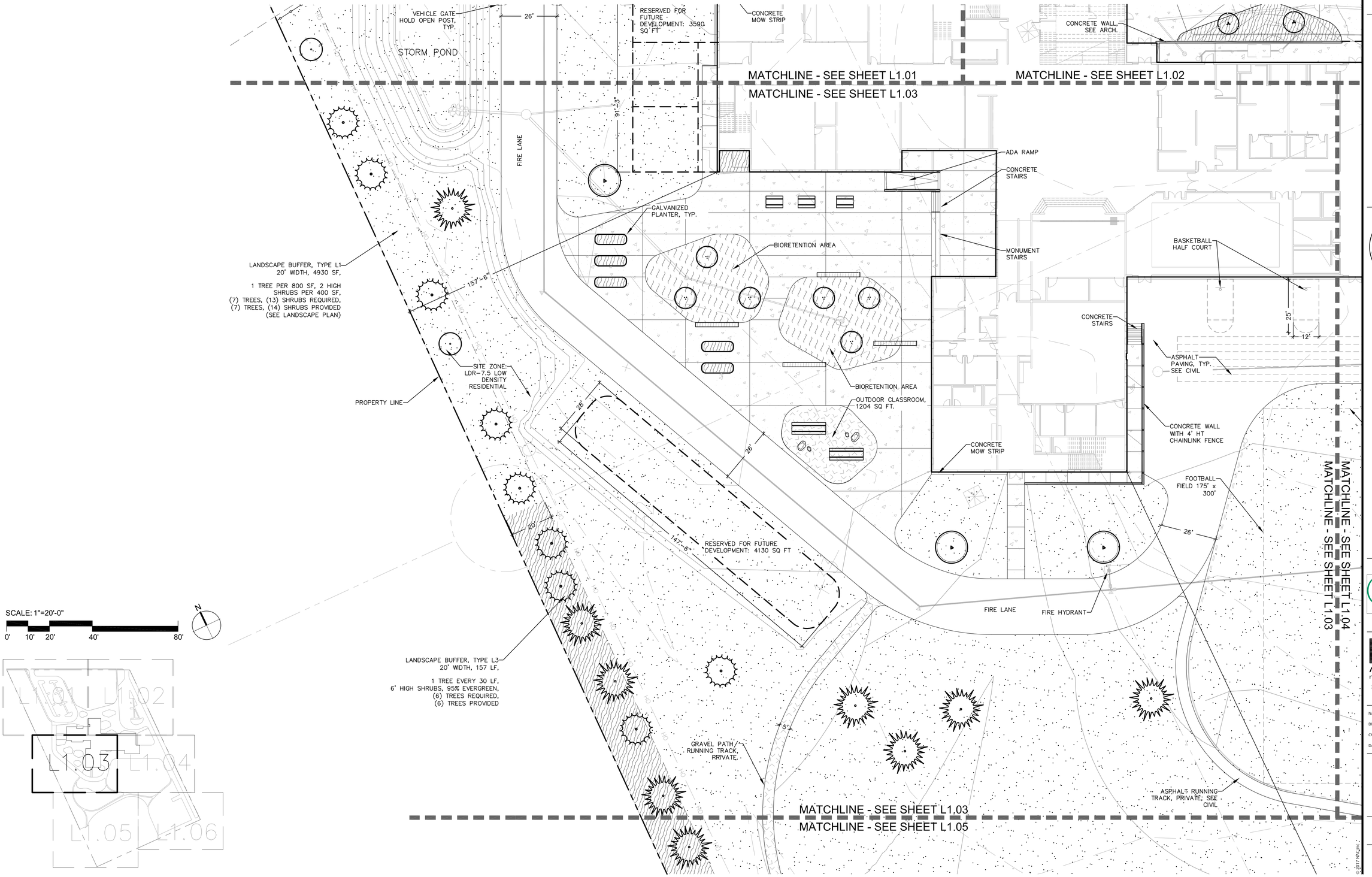
SITE PLAN ENLARGEMENT

L1.02



SCALE: 1"=20'-0"

0' 10' 20' 40' 80'

N

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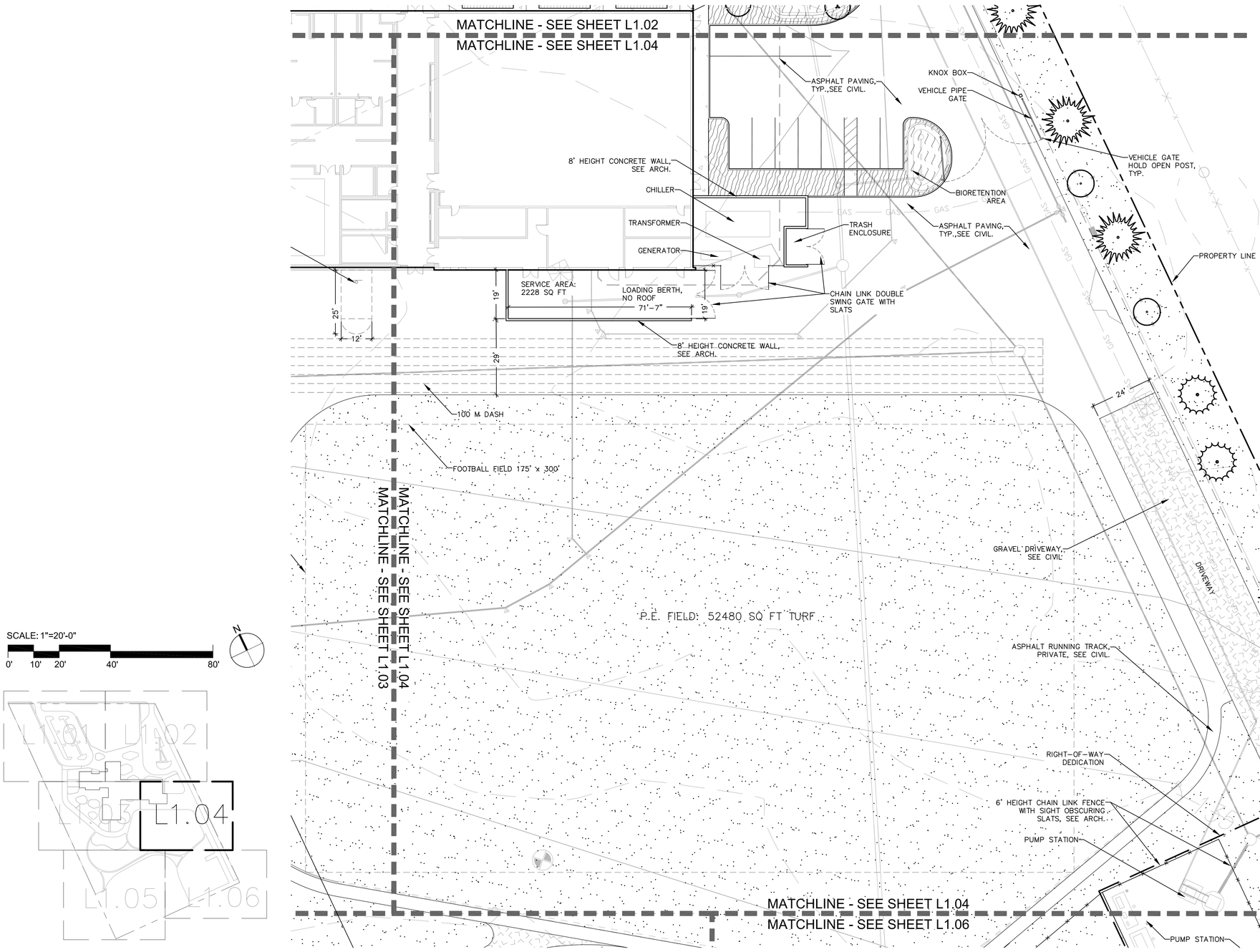
SITE PLAN ENLARGEMENT

L1.03



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STATE OF WASHINGTON
ANDREW J RASMUSSEN
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LANDSCAPE ARCHITECT

LA CENTER SCHOOL DISTRICT

LA CENTER NEW MIDDLE SCHOOL

725 HIGHLAND ROAD, LA CENTER, WA 98629

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SITE PLAN ENLARGEMENT

L1.04

MATCHLINE - SEE SHEET L1.03

MATCHLINE - SEE SHEET L1.05

TRACK, PRIVATE; SEE CIVIL

+5%

GRAVEL PATH / RUNNING TRACK, PRIVATE

80' WETLAND BUFFER

3-RA WITH BUFFE

LANDSCAPE BUFFER, TYPE L3
20' WIDTH, 290 LF,

1 TREE EVERY 30 LF,
6' HIGH SHRUBS, 95% EVERGREEN,
(10) TREES REQUIRED,
(10) TREES PROVIDED

SITE ZONE: LDR-7.5 LOW DENSITY RESIDENTIAL

3-RAIL WOOD FENCE WITH WETLAND AND BUFFER SIGNS EVERY 100 FT.

540' +/-

MATCHLINE - SEE SHEET L1.06

MATCHLINE - SEE SHEET L1.05

WET

WETLAND

20'

PROPERTY LINE

NO LANDSCAPE BUFFER IN WETLAND BUFFER AREA AND UNDISTURBED AREAS,

PRIVATE WOOD CHIP PATH, NON-MOTORIZED, TYPE 3 RUSTIC TRAIL, 6" DEPTH WOOD CHIPS

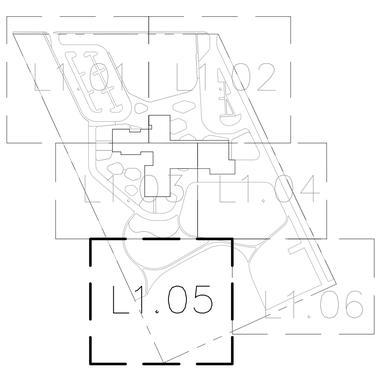
3-RAIL WOOD FENCE WITH WETLAND AND BUFFER SIGNS EVERY 100 FT.

EXISTING LANDSCAPE BUFFER, 20' WIDE

SCALE: 1"=20'-0"

0' 10' 20' 40' 80'

N



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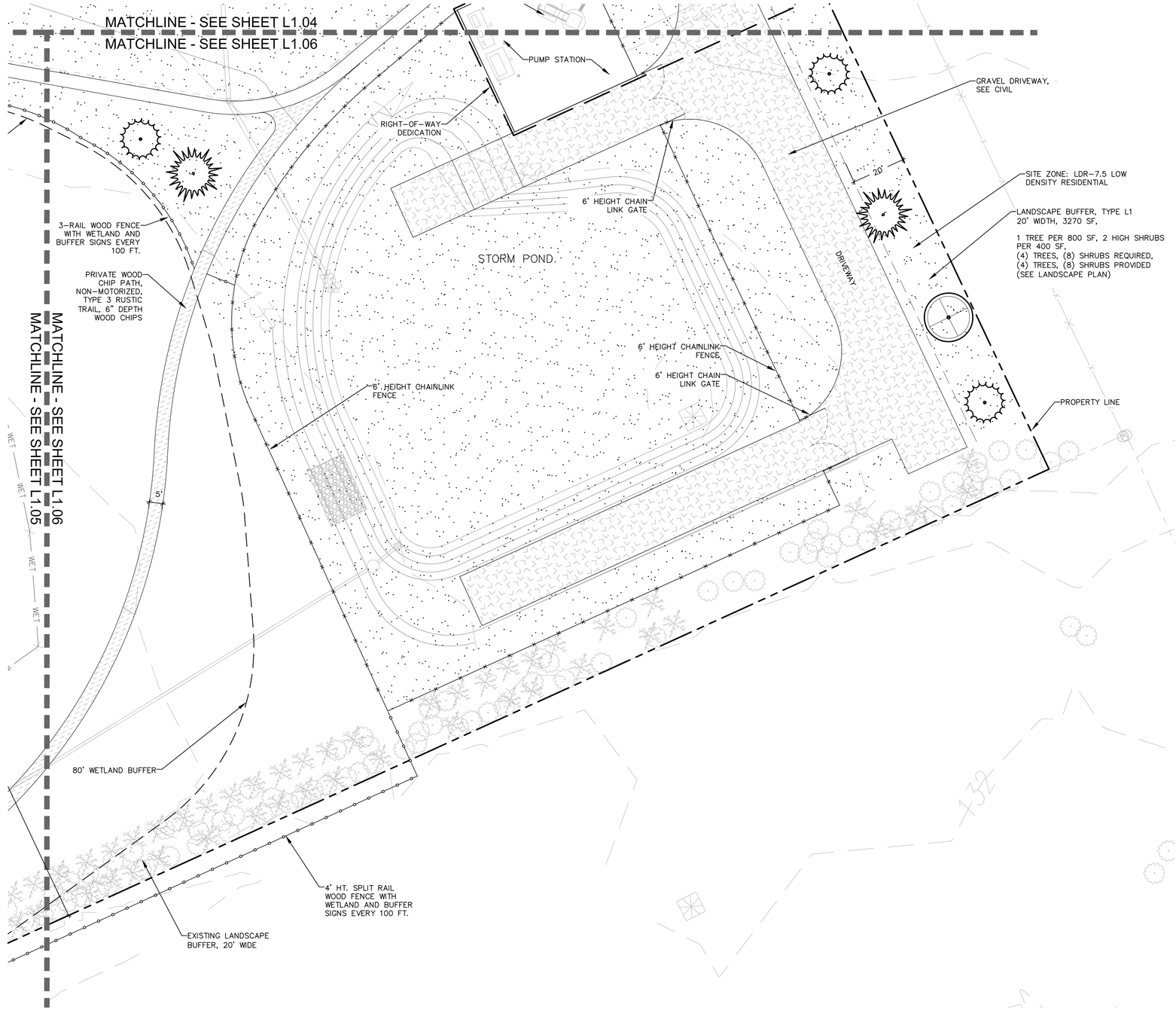
SITE PLAN ENLARGEMENT

L1.05



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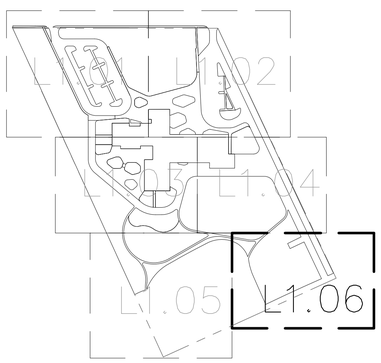

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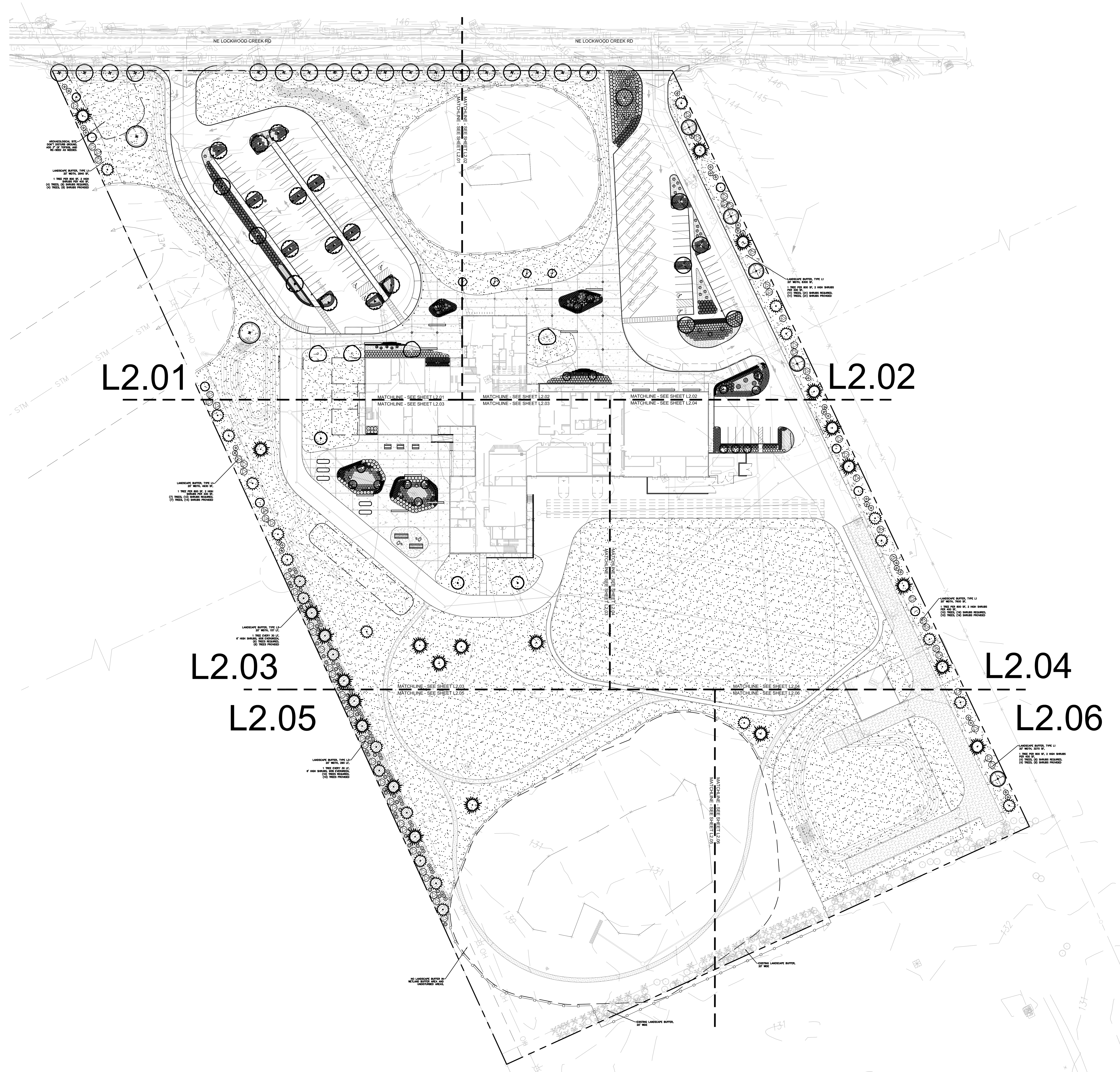

SCALE: 1"=60'-0"

0' 30' 60' 120' 240'

N

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OVERALL
LANDSCAPE PLAN

L2.00

NE LOCKWOOD CREEK RD

30' TYP.

30' TYP.

ARCHAEOLOGICAL SITE, DON'T DISTURB GROUND, ADD 3" OF TOPSOIL AND RE-SEED AS NEEDED.

LANDSCAPE BUFFER, TYPE L1
20' WIDTH, 2840 SF.

1 TREE PER 800 SF, 2 HIGH SHRUBS PER 400 SF,
(4) TREES, (8) SHRUBS REQUIRED,
(4) TREES, (8) SHRUBS PROVIDED

PARKING ISLAND, TYP.

20'

8' TYP.

MATCHLINE - SEE SHEET L2.02

MATCHLINE - SEE SHEET L2.01

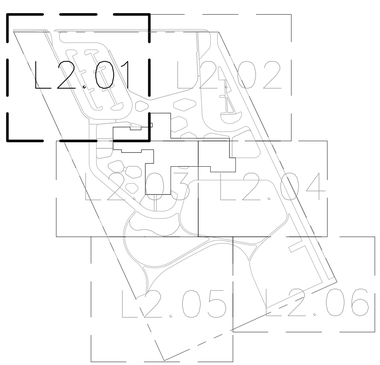
MATCHLINE - SEE SHEET L2.01

MATCHLINE - SEE SHEET L2.03

SCALE: 1"=20'-0"

0' 10' 20' 40' 80'

N



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LA CENTER School District

NAC ARCHITECTURE
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2025 FIRST AVENUE | SUITE 300
SEATTLE WA 98121
P:206.441.4522

NAC NO	121-18009
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LANDSCAPE PLAN ENLARGEMENT

L2.01

NE LOCKWOOD CREEK RD

MATCHLINE - SEE SHEET L2.02
MATCHLINE - SEE SHEET L2.01

30'
TYP.

WETLAND

PARKING ISLAND,
TYP.

20'
TYP.

LANDSCAPE BUFFER, TYPE L1
20' WIDTH, 8300 SF,

1 TREE PER 800 SF, 2 HIGH SHRUBS PER 400 SF,
(11) TREES, (21) SHRUBS REQUIRED,
(11) TREES, (21) SHRUBS PROVIDED

MATCHLINE - SEE SHEET L2.02

MATCHLINE - SEE SHEET L2.02

SCALE: 1"=20'-0"

0' 10' 20' 40' 80'

N

L2.01 L2.02
L2.03 L2.04
L2.05 L2.06

REVISIONS

CUP SUBMITTAL

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LANDSCAPE CONSULTANT
2239 E MADISON ST
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STATE OF WASHINGTON
ANDREW J RASMUSSEN
LANDSCAPE ARCHITECT
No. 739 EXP. 6/29/2019

LA CENTER SCHOOL DISTRICT

LA CENTER NEW MIDDLE SCHOOL

725 HIGHLAND ROAD, LA CENTER, WA 98629

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LANDSCAPE PLAN ENLARGEMENT

L2.02

MATCHLINE - SEE SHEET L2.01
MATCHLINE - SEE SHEET L2.03

MATCHLINE - SEE SHEET L2.02
MATCHLINE - SEE SHEET L2.03

LANDSCAPE BUFFER, TYPE L1
20' WIDTH, 4930 SF,

1 TREE PER 800 SF, 2 HIGH SHRUBS PER 400 SF,
) TREES, (13) SHRUBS REQUIRED,
) TREES, (14) SHRUBS PROVIDED

LANDSCAPE BUFFER, TYPE L3
20' WIDTH, 157 LF,

1 TREE EVERY 30 LF,
6' HIGH SHRUBS, 95% EVERGREEN,
(6) TREES REQUIRED,
(6) TREES PROVIDED

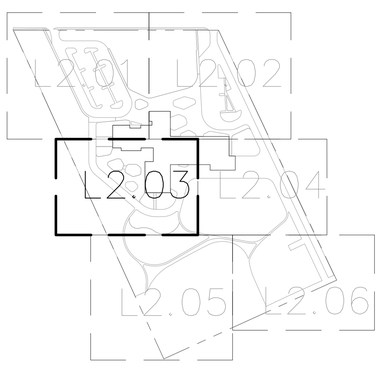
MATCHLINE - SEE SHEET L2.04
MATCHLINE - SEE SHEET L2.03

MATCHLINE - SEE SHEET L2.03
MATCHLINE - SEE SHEET L2.05

SCALE: 1"=20'-0"

0' 10' 20' 40' 80'

N



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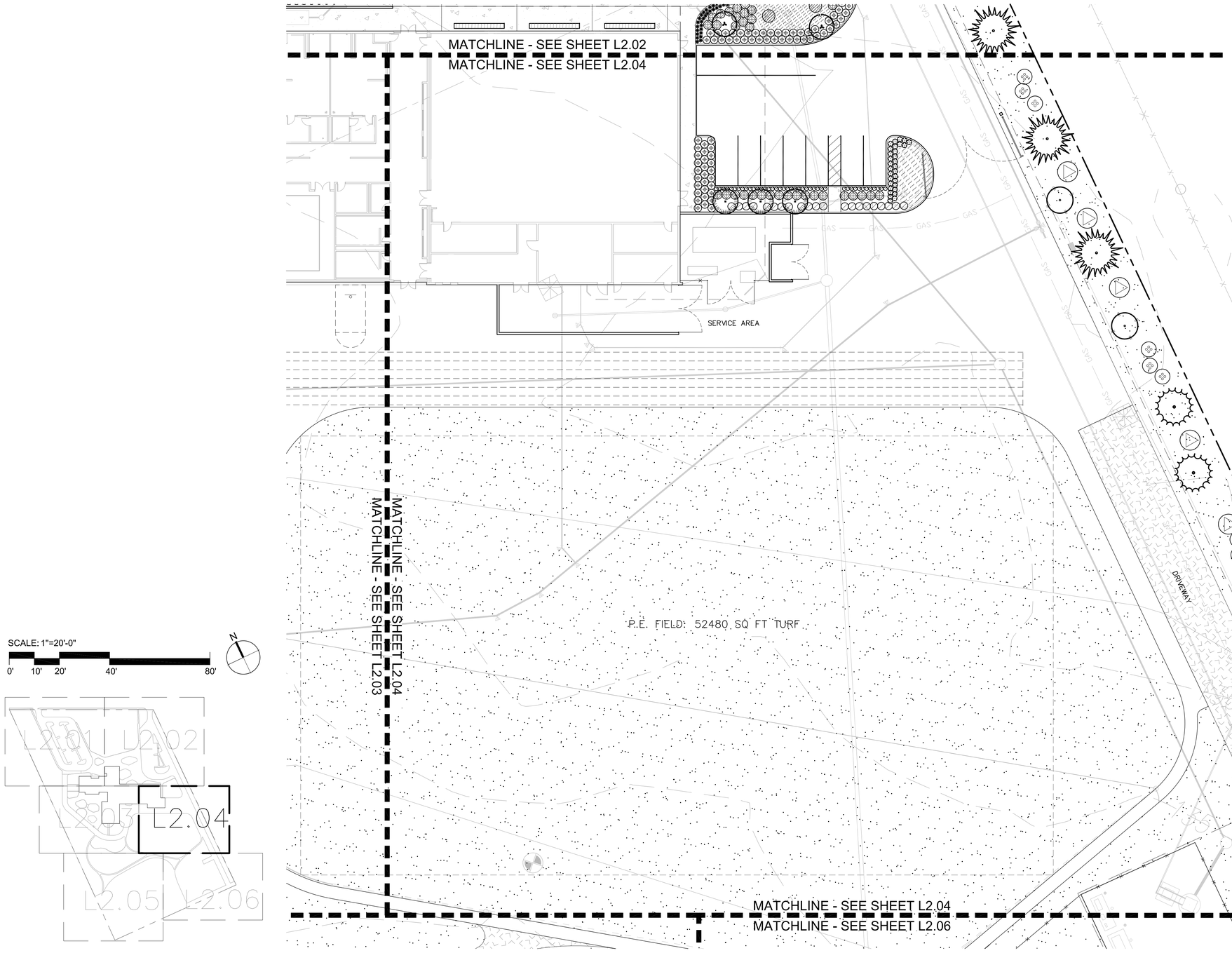
LANDSCAPE PLAN ENLARGEMENT

L2.03



SCALE: 1"=20'-0"

0' 10' 20' 40' 80'

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LANDSCAPE PLAN
ENLARGEMENT

L2.04

MATCHLINE - SEE SHEET L2.03
MATCHLINE - SEE SHEET L2.05

LANDSCAPE BUFFER, TYPE L3
20' WIDTH, 290 LF,

1 TREE EVERY 30 LF,
6' HIGH SHRUBS, 95% EVERGREEN,
(10) TREES REQUIRED,
(10) TREES PROVIDED

WETLAND

MATCHLINE - SEE SHEET L2.06
MATCHLINE - SEE SHEET L2.05

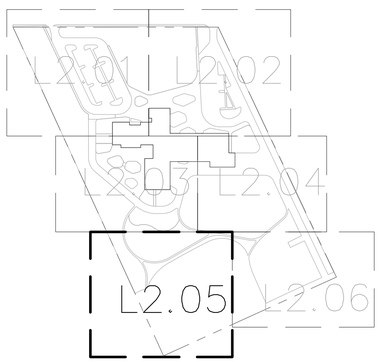
NO LANDSCAPE BUFFER IN WETLAND BUFFER AREA AND UNDISTURBED AREAS,

EXISTING LANDSCAPE BUFFER,
20' WIDE

SCALE: 1"=20'-0"

0' 10' 20' 40' 80'

N



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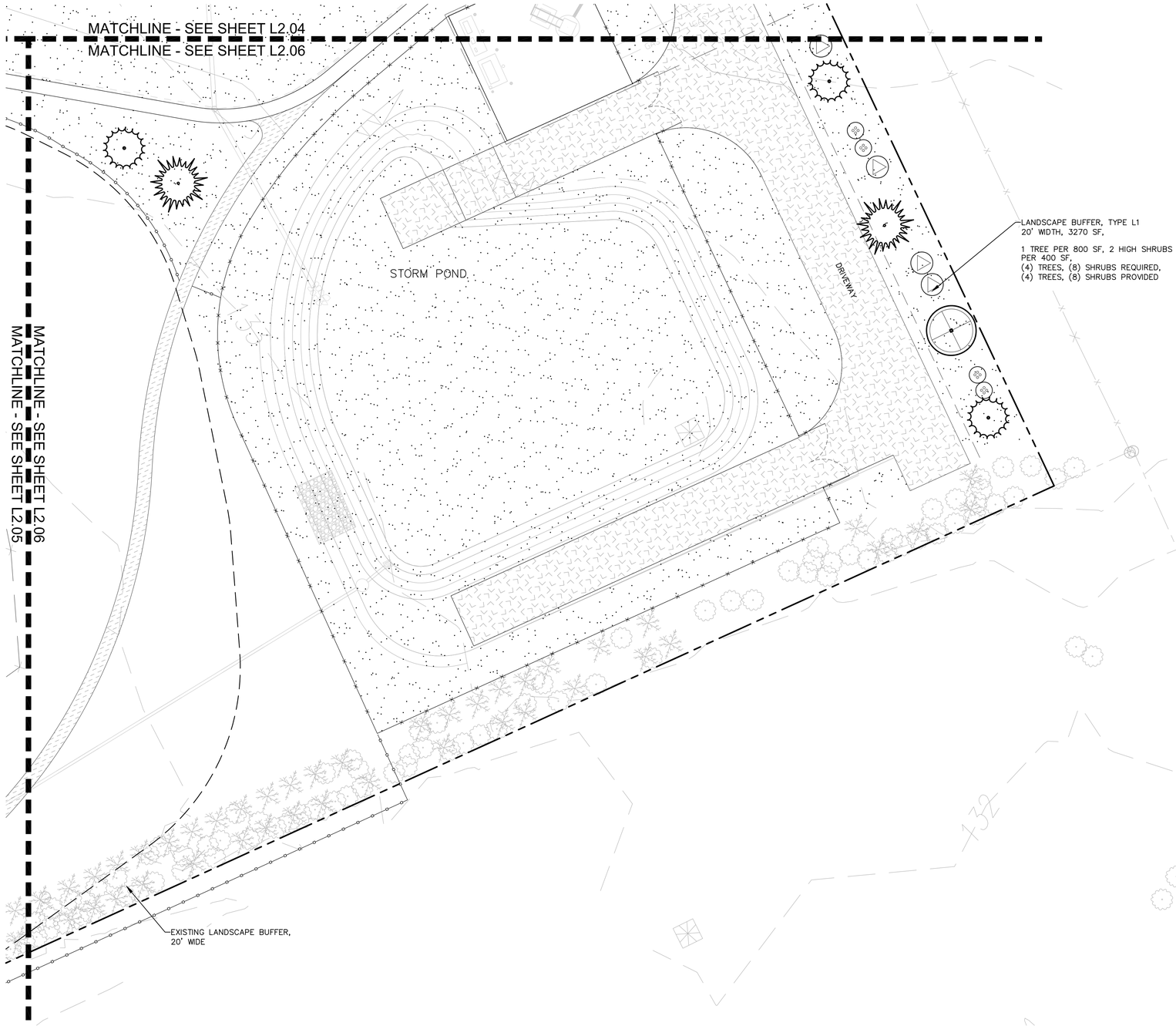
LANDSCAPE PLAN ENLARGEMENT

L2.05



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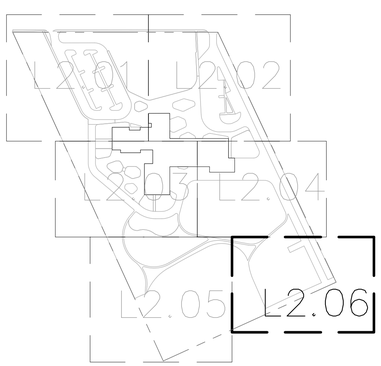

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LANDSCAPE PLAN ENLARGEMENT

L2.06

PLANT_SCHEDULE

DECIDUOUS TREES	BOTANICAL NAME	SIZE/CONDITION/REMARKS
	ACER X FREEMANII `AUTUMN FANTASY` FREEMAN MAPLE	2" CAL., 10-12` HT., MATCHED, B&B OR CONT., WELL-BRANCHED ABOVE 6` HT.
	FRAXINUS LATIFOLIA OREGON ASH	2" CAL., 10-12` HT., MATCHED, B&B OR CONT.
	NYSSA SYLVATICA `BLACK TUPELO` SOUR GUM	2" CAL., 10-12` HT., MATCHED, B&B OR CONT., WELL-BRANCHED ABOVE 6` HT.
	QUERCUS COCCINEA SCARLET OAK	2" CAL., 10-12` HT., MATCHED, B&B OR CONT., WELL-BRANCHED ABOVE 6` HT.

EVERGREEN TREES	BOTANICAL NAME	SIZE/CONDITION/REMARKS
	PICEA OMORIKA SERBIAN SPRUCE	6-8` HT., FULL & BUSHY, B&B
	PSEUDOTSUGA MENZIESII DOUGLAS FIR	6-8` HT., FULL & BUSHY, B&B
	THUJA PLICATA WESTERN RED CEDAR	6-8` HT., FULL & BUSHY, B&B

SMALL ACCENT TREES	BOTANICAL NAME	SIZE/CONDITION/REMARKS
	ACER CIRCINATUM (MULTI-STEM) VINE MAPLE	(3) 1" CAL, TRUNKS MIN, 8-10` HT, WELL -BRANCHED, FULL & BUSHY, B&B OR CONT.
	MAACKIA AMURENSIS AMUR MAACKIA	1.5" CAL., 8-10` HT., WELL-BRANCHED, MATCHED, B&B OR CONT.
	PARROTIA PERSICA `RUBY VASE` RUBY VASE PERSIAN PARROTIA	1.5" CAL., 8-10` HT., WELL-BRANCHED, MATCHED, B&B OR CONT.
	PRUNUS EMARGINATA BITTER CHERRY	1.5" CAL., 8-10` HT., WELL-BRANCHED, MATCHED, B&B OR CONT.
	RHAMNUS PURSHIANA CASCARA	1.5" CAL., 8-10` HT., WELL-BRANCHED, MATCHED, B&B OR CONT.

SHRUBS	BOTANICAL NAME	SIZE/CONDITION/REMARKS
	ARBUTUS UNEDO `COMPACTA` DWARF STRAWBERRY TREE	30-36" HT./SPD., FULL & BUSHY, CONT., SPACING PER PLAN
	CISTUS X SKANBERGII CORAL ROCKROSE	18-24" HT./SPD., FULL & BUSHY, CONT., SPACING PER PLAN
	CORNUS SERICEA `CARDINAL` `CARDINAL` RED-TWIG DOGWOOD	30-36" HT./SPD., FULL & BUSHY, CONT., SPACING PER PLAN
	CORNUS STOLONIFERA `KELSEYI` KELSEY DOGWOOD	12-15" HT./SPD., FULL & BUSHY, CONT., SPACING PER PLAN
F	FORSYTHIA X `FIESTA` FIESTA FORSYTHIA	24-30" HT./SPD., FULL & BUSHY, CONT., SPACING PER PLAN
	GARRYA ELLIPTICA `JAMES ROOF` COAST SILK TASSEL	24-30" HT./SPR., FULL & BUSHY, CONT., SPACING PER PLAN
	HOLODISCUS DISCOLOR OCEAN-SPRAY	30-36" HT./SPD., FULL & BUSHY, CONT., SPACING PER PLAN
	LONICERA PILEATA PRIVET HONEYSUCKLE	2 GAL. POTS, FULL AND BUSHY, SPACING AS SHOWN ON PLAN
	MAHONIA AQUIFOLIUM OREGON GRAPE	24-30" HT./SPD., FULL & BUSHY, CONT. OR B&B, SPACING PER PLAN
	MAHONIA AQUIFOLIUM `COMPACTA` COMPACT OREGON GRAPE	18-24" HT./SPD., FULL & BUSHY, CONT., SPACING PER PLAN
	MAHONIA REPENS CREEPING MAHONIA	1 GAL. POTS, FULL AND BUSHY, SPACING AS SHOWN ON PLAN
	MYRICA CALIFORNICA PACIFIC WAX MYRTLE	30-36" HT./SPD., FULL & BUSHY, CONT., SPACING PER PLAN
	PODOCARPUS LAWRENCEI `BLUE GEM` BLUE GEM MOUNTAIN PLUM PINE	MIN. 5 GAL. CONT., 18" HT / SPR. MIN., FULL & BUSHY, SPACING PER PLAN
	POTENTILLA FRUTICOSA `CORONATION TRIUMPH` CORONATION TRIUMPH POTENTILLA	15-18" HT./SPD., FULL & BUSHY, CONT., SPACING PER PLAN
	PRUNUS LAUROCERASUS `MOUNT VERNON` MOUNT VERNON LAUREL	1 GAL. POTS MIN., FULL & BUSHY, 12" O.C. TRIANG. SPAC., START FIRST ROW 8" FROM EDGE
	RHODODENDRON LUTEUM `GOLDTOPAS` YELLOW AZALEA	24-30" HT./SPR., FULL & BUSHY, CONT., SPACING PER PLAN
	RUBUS SPECTABILIS SALMONBERRY	24-30" HT./SPR., FULL & BUSHY, CONT., SPACING PER PLAN
	SALVIA NEMOROSA `MAY NIGHT` MAY NIGHT SAGE	2 GAL. POTS, FULL AND BUSH, CONT., SPACING AS SHOWN ON PLAN
	SARCOCOCCA HOOKERIANA HUMILIS SWEET BOX	1 GAL. POTS, FULL AND BUSHY, CONT., SPACING AS SHOWN ON PLAN
	SPIRAEA BETULIFOLIA `TOR` BIRCHLEAF SPIREA	18-24" HT./SPD., FULL & BUSHY, CONT., SPACING PER PLAN

FERNS	BOTANICAL NAME	SIZE/CONDITION/REMARKS
	POLYSTICHUM MUNITUM WESTERN SWORD FERN	1 GAL. POTS, FULL AND BUSHY, SPACING AS SHOWN ON PLAN

GRASSES	BOTANICAL NAME	SIZE/CONDITION/REMARKS
	CAREX TESTACEA CAREX	1 GAL. POTS, FULL AND BUSHY, SPACING AS SHOWN ON PLAN
	LUZULA SYLVATICA `AUREA` GOLDEN WOODRUSH	1 GAL. POTS, FULL AND BUSHY, SPACING AS SHOWN ON PLAN
	MISCANTHUS SINENSIS `YAKU JIMA` YAKU JIMA DWARF MAIDEN GRASS	2 GAL. POTS, FULL AND BUSHY, SPACING AS SHOWN ON PLAN

GROUND COVERS	BOTANICAL NAME	SIZE/CONDITION/REMARKS
	GAULTHERIA SHALLON SALAL	1 GAL. POTS MIN., FULL & BUSHY, 18" O.C. TRIANG. SPAC., START FIRST ROW 12" FROM EDGE
	JUNCUS PATENS `ELK BLUE` SPREADING RUSH	10" PLUGS AT 8" O.C. TRIANG. SPAC., START FIRST ROW 8" FROM EDGE
	MAHONIA REPENS CREEPING MAHONIA	1 GAL. POTS MIN., FULL & BUSHY, 12" O.C. TRIANG. SPAC., START FIRST ROW 8" FROM EDGE
	SYMPHORICARPOS ALBUS COMMON WHITE SNOWBERRY	18-24" HT./SPD., FULL & BUSHY, 30" O.C. TRIANG. SPAC., START FIRST ROW 18" FROM EDGE

LAWN, TURF, AND MEADOW	BOTANICAL NAME	SIZE/CONDITION/REMARKS
	SEEDED LAWN	SEE SPECIFICATION

RAIN GARDEN MIX	BOTANICAL NAME	SIZE/CONDITION/REMARKS
	30% CAREX OBNUPTA SLOUGH SEDGE	10" PLUGS AT 8" O.C. TRIANG. SPAC., START FIRST ROW 8" FROM EDGE

GENERAL NOTES:

1. SUBMIT COLOR PHOTOS REPRESENTATIVE OF PROPOSED NURSERY STOCK FOR EACH PLANT SPECIES AND VARIETY LISTED IN LANDSCAPE SCHEDULE. FINAL APPROVAL OF PLANT MATERIAL WILL NOT BE PROVIDED UNTIL DELIVERY AND REVIEW ON SITE.
2. CONTAINERIZED TREES ARE STRONGLY DISCOURAGED. TREES WITH LARGE CIRCLING ROOTS OR TOO DEEP ROOT SYSTEMS WILL BE REJECTED.
3. ALL ROOT PACKAGES MUST BE FREE OF ANY WEEDS.
4. TREE STAKING REQUIREMENTS WILL BE DETERMINED BY LANDSCAPE ARCHITECT AT THE TIME OF PLANTING. PROPERLY PROPORTIONED AND PLANTED TREES WITH HEALTHY ROOT PACKAGES MAY NOT REQUIRE STAKING.
5. ALL TREE STAKES MUST BE REMOVED BY THE CONTRACTOR BY THE END OF THE FIRST FULL GROWING SEASON.
6. AT THE DIRECTION OF THE LANDSCAPE ARCHITECT, PRUNING MAY BE REQUIRED TO REMOVE DAMAGED, CROSSING, MISSHAPEN OR LOW BRANCHING LIMBS. TREES SHOULD NOT REQUIRE SIGNIFICANT PRUNING TO CORRECT HEALTH OR AESTHETIC DEFICIENCIES.
7. INSTALL 3" DEPTH SPECIFIED MULCH IN ALL LANDSCAPE AREAS.
8. INSTALL 8" DEPTH SPECIFIED TOPSOIL IN ALL LANDSCAPE AREAS.
9. PROVIDE A 4' DIAMETER MULCH CIRCLE AROUND ALL TREES PLANTED IN LAWN AREAS.
10. REFER TO CIVIL DEMOLITION DRAWINGS AND SPECIFICATIONS FOR REMOVAL REQUIREMENTS AND PROTECTION FENCING AROUND EXISTING VEGETATION.
11. REFER TO TREE PRESERVATION PLANS FOR SCHEDULE OF EXISTING TREES TO BE SAVED OR REMOVED.
12. REFER TO CIVIL PLANS FOR UTILITY WORK. CONTRACTOR RESPONSIBLE FOR PATCH AND REPAIR OF ALL EXISTING LANDSCAPE AREAS DISTURBED BY CONSTRUCTION WORK UNDER THIS CONTRACT.
13. REFER TO PLANTING AND SEEDING SPECIFICATION FOR ADDITIONAL REQUIREMENTS, INCLUDING EXTENDED MAINTENANCE REQUIREMENTS.

SCALE: 1"=20'-0"

0' 10' 20' 40' 80'

N

REVISIONS

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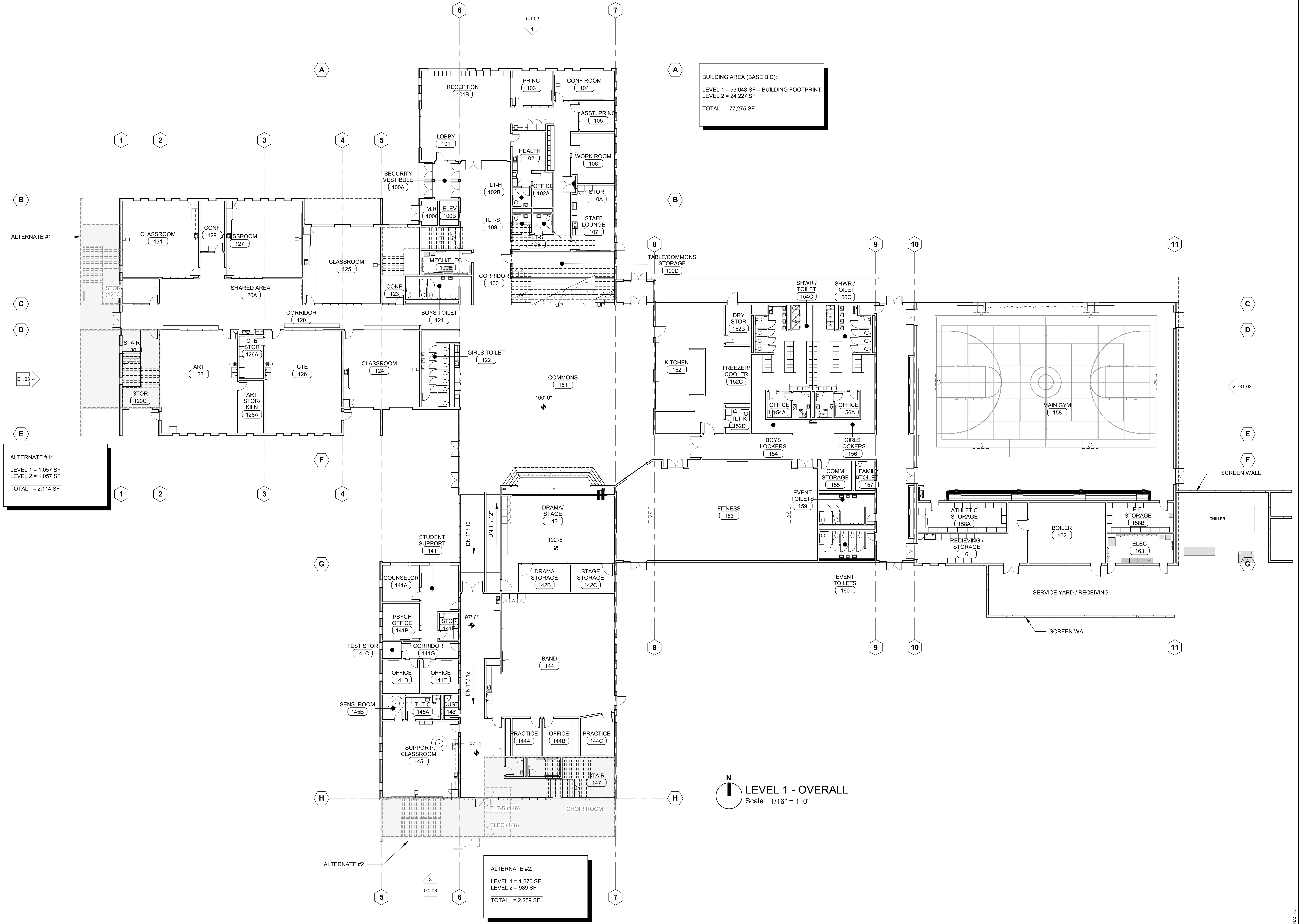
LANDSCAPE SCHEDULE & NOTES

L2.07



RECEPTION 101B
PRINC 103
CONF ROOM 104
ASST. PRINC 105
LOBBY 101
HEALTH 102
WORK ROOM 106
SECURITY VESTIBULE 100A
TLT-H 102B
OFFICE 102A
STOR 110A
M.R. 100C
ELEV 100B
TLT-S 109
STAFF LOUNGE 107
TLT-S 108
CLASSROOM 131
CONF 129
CLASSROOM 127
CLASSROOM 125
MECH/ELEC 100E
TABLE/COMMONS STORAGE 100D
CORRIDOR 100
CONF 123
STOR 120C
SHARED AREA 120A
BOYS TOILET 121
CORRIDOR 120
SHWR / TOILET 154C
SHWR / TOILET 156C
DRY STOR 152B
STAIR 130
CTE STOR 126A
GIRLS TOILET 122
ART 128
CTE 126
CLASSROOM 124
COMMONS 151
KITCHEN 152
FREEZER/ COOLER 152C
STOR 120C
ART STOR/ KILN 128A
100'-0"
OFFICE 154A
OFFICE 156A
TLT-K 152D
MAIN GYM 158
BOYS LOCKERS 154
GIRLS LOCKERS 156
ALTERNATE #1
COMM STORAGE 155
FAMILY TOILET 157
SCREEN WALL
DRAMA/ STAGE 142
FITNESS 153
EVENT TOILETS 159
ATHLETIC STORAGE 158A
P.E. STORAGE 158B
CHILLER
102'-6"
BOILER 162
RECIEVING / STORAGE 161
ELEC 163
STUDENT SUPPORT 141
DRAMA STORAGE 142B
STAGE STORAGE 142C
EVENT TOILETS 160
COUNSELOR 141A
SERVICE YARD / RECEIVING
PSYCH OFFICE 141B
STOR 141F
97'-6"
SCREEN WALL
TEST STOR 141C
CORRIDOR 141G
BAND 144
OFFICE 141D
OFFICE 141E
SENS. ROOM 145B
TLT-C 145A
CUST 143
PRACTICE 144A
OFFICE 144B
PRACTICE 144C
SUPPORT CLASSROOM 145
96'-0"
STAIR 147
TLT-S (146)
CHOIR ROOM
ELEC (148)
ALTERNATE #2
DN 1" / 12"
UP

BUILDING AREA (BASE BID):

LEVEL 1 = 53,048 SF = BUILDING FOOTPRINT
LEVEL 2 = 24,227 SF

TOTAL = 77,275 SF

ALTERNATE #1:

LEVEL 1 = 1,057 SF
LEVEL 2 = 1,057 SF

TOTAL = 2,114 SF

ALTERNATE #2:

LEVEL 1 = 1,270 SF
LEVEL 2 = 989 SF

TOTAL = 2,259 SF

LEVEL 1 - OVERALL

Scale: 1/16" = 1'-0"

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DATE	10-18-2018

OVERALL FLOOR PLAN - LEVEL 1

A1.00

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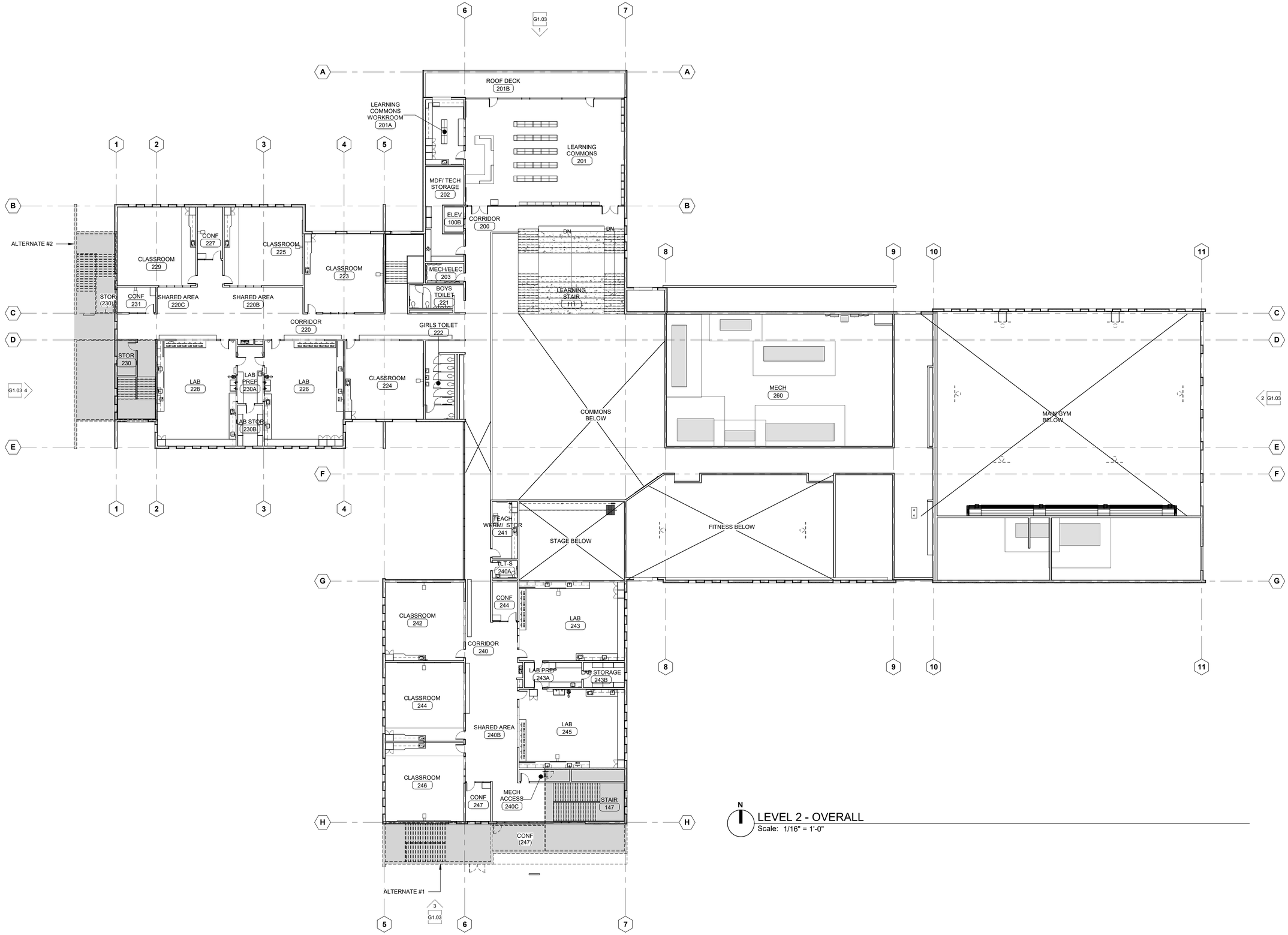

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LEVEL 2 - OVERALL

Scale: 1/16" = 1'-0"

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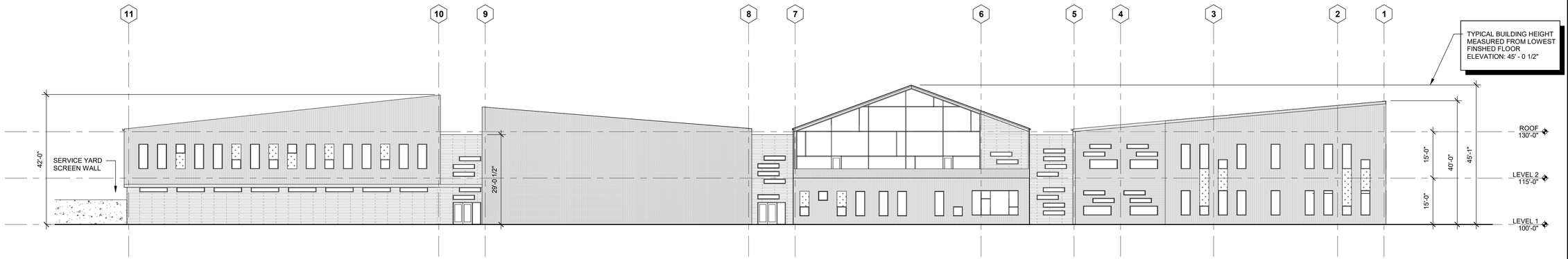
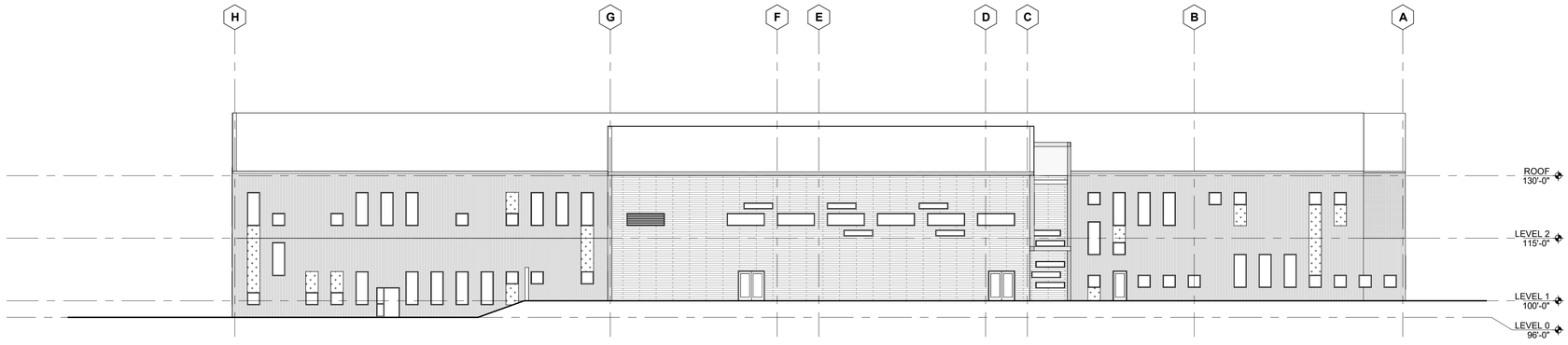
OVERALL FLOOR PLAN - LEVEL 2

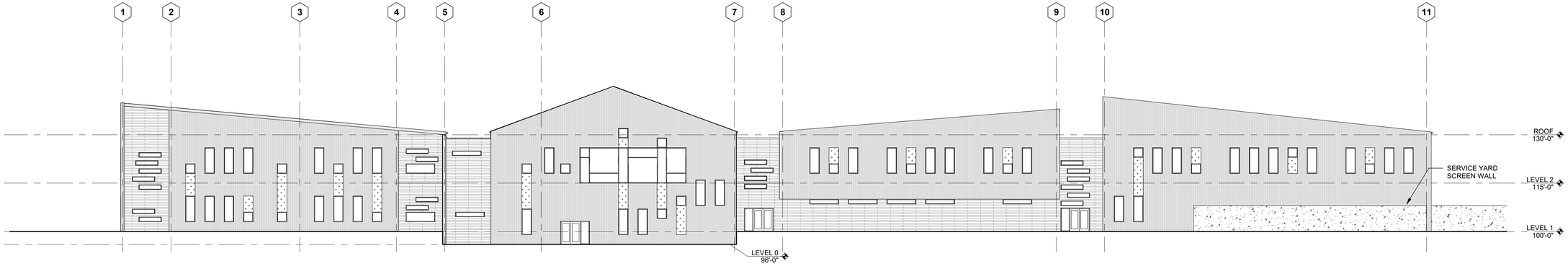
A1.01



1 * NORTH ELEVATION
Scale: 1/16" = 1'-0"



2 * EAST ELEVATION
Scale: 1/16" = 1'-0"



3 * SOUTH ELEVATION
Scale: 1/16" = 1'-0"

MATERIALS LEGEND

- VERTICAL METAL SIDING
- HORIZONTAL METAL SIDING
- CHARRED WOOD PLANK SIDING
- VERTICAL, PERFORATED METAL SIDING
- CEMENT FIBER BOARD PANEL

NOTE: THIS LEGEND DOES NOT INCLUDE ALL MATERIALS. SEE NOTES & REFERENCED DETAILS FOR ADDITIONAL INFORMATION.

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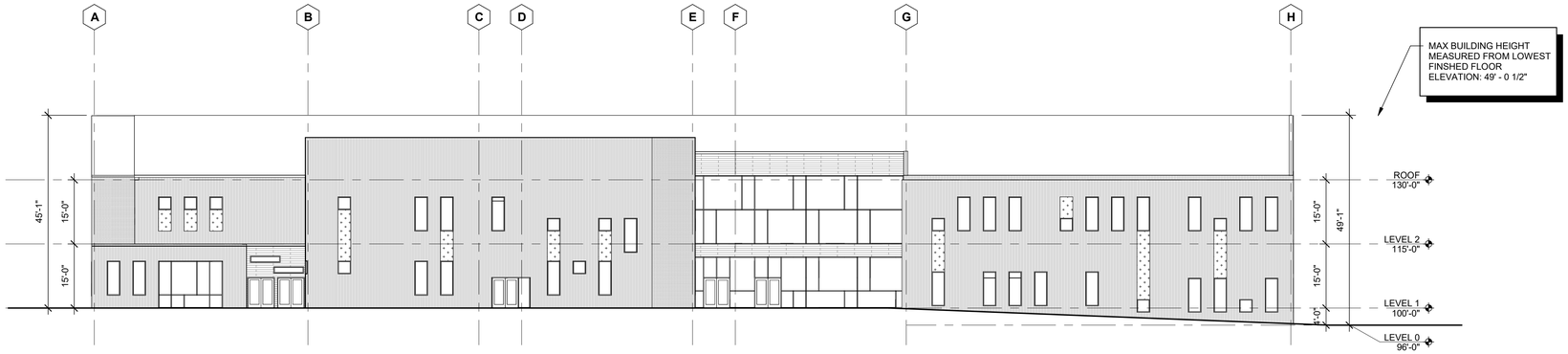
EXTERIOR ELEVATIONS

A1.02

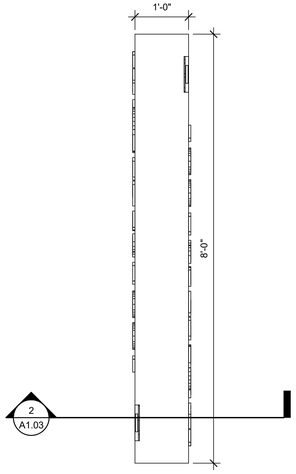


4 * WEST ELEVATION
Scale: 1/16" = 1'-0"

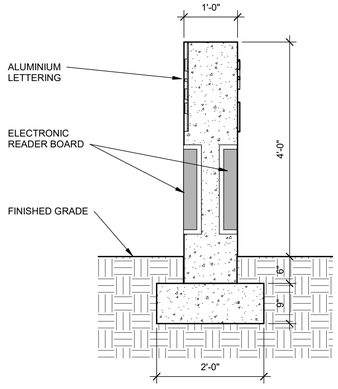
MATERIALS LEGEND

- VERTICAL METAL SIDING
- HORIZONTAL METAL SIDING
- CHARRED WOOD PLANK SIDING
- VERTICAL, PERFORATED METAL SIDING
- CEMENT FIBER BOARD PANEL

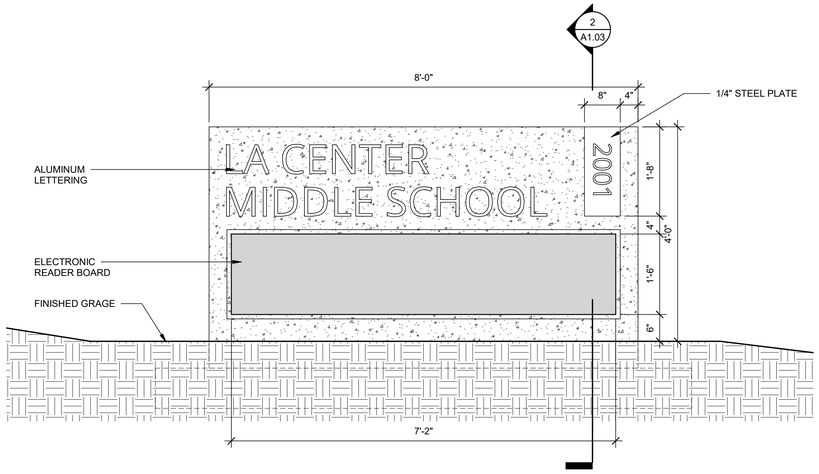
NOTE: THIS LEGEND DOES NOT INCLUDE ALL MATERIALS. SEE NOTES & REFERENCED DETAILS FOR ADDITIONAL INFORMATION.



1 * MONUMENT SIGN - PLAN
Scale: 3/4" = 1'-0"



2 * MONUMENT SIGN - SECTION
Scale: 3/4" = 1'-0"



3 * MONUMENT SIGN - WEST / EAST ELEVATION
Scale: 3/4" = 1'-0"

REVISIONS

CUP SUBMITTAL

LA CENTER SCHOOL DISTRICT
LA CENTER NEW MIDDLE SCHOOL
2001 E LOCKWOOD CREEK ROAD, LA CENTER, WA 98629

LA CENTER School District

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SEATTLE WA 98121
P:206.441.4522

NAC NO	121-18009
DRAWN	Author
CHECKED	Checker
DATE	10-18-2018

EXTERIOR ELEVATIONS / MONUMENT SIGN

A1.03

N

ELECTRICAL SITE PLAN

Scale 1" = 50'-0"

- EXTERIOR LUMINAIRE SCHEDULE - CUP SUBMITTAL

TYPE	MANUFACTURER	CATALOG #	ACCESSORIES	APPROVED MANUFACTURERS	VOLTAGE	VA	WATTS	DELIVERED LUMENS	K TEMP	CRI	DISTRIBUTION TYPE	NOTES
Z01	MCGRAW-EDISON	GLEON-AF-01-LED-E1-5MQ-8030			277 V	59	59	5342	3000		V SQUARE WIDE	-
Z01A	MCGRAW-EDISON	GLEON-AF-01-LED-E1-SL2-8030-HSS			277 V	59	59	4212	3000		II SPILL CONTROL	-
Z01B	MCGRAW-EDISON	GLEON-AF-01-LED-E1-5MQ-8030			277 V	59	59	5342	3000		V SQUARE WIDE	12' POLE WITH FLUSH BASE

REVISIONS

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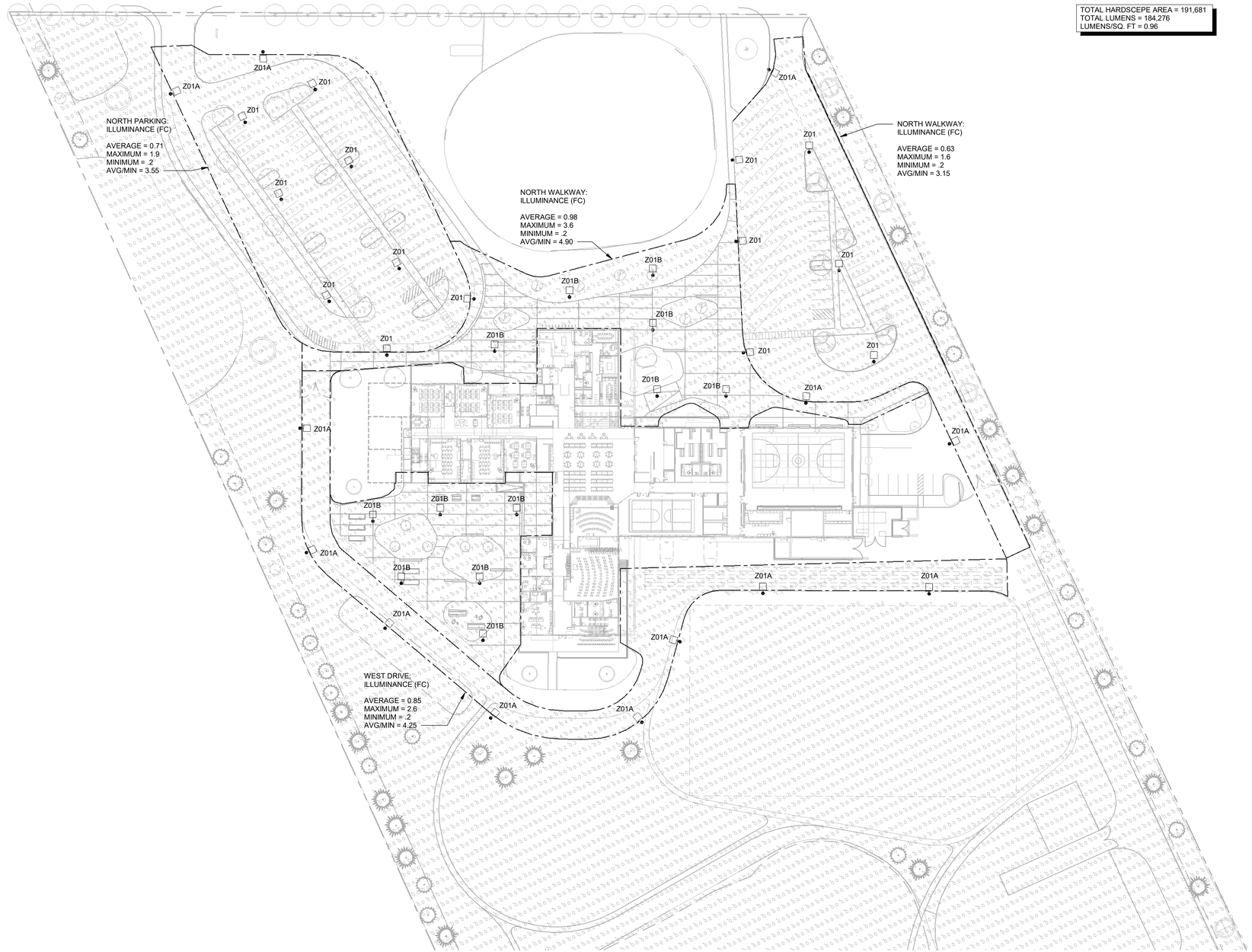
CHECKED	MAM
DATE	10-23-2018

ELECTRICAL SITE PLAN

E1.01A



N

SITE PHOTOMETRIC PLAN

Scale 1" = 50'-0"

REVISIONS

CUP SUBMITTAL

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SITE PHOTOMETRIC PLAN

E1.02A