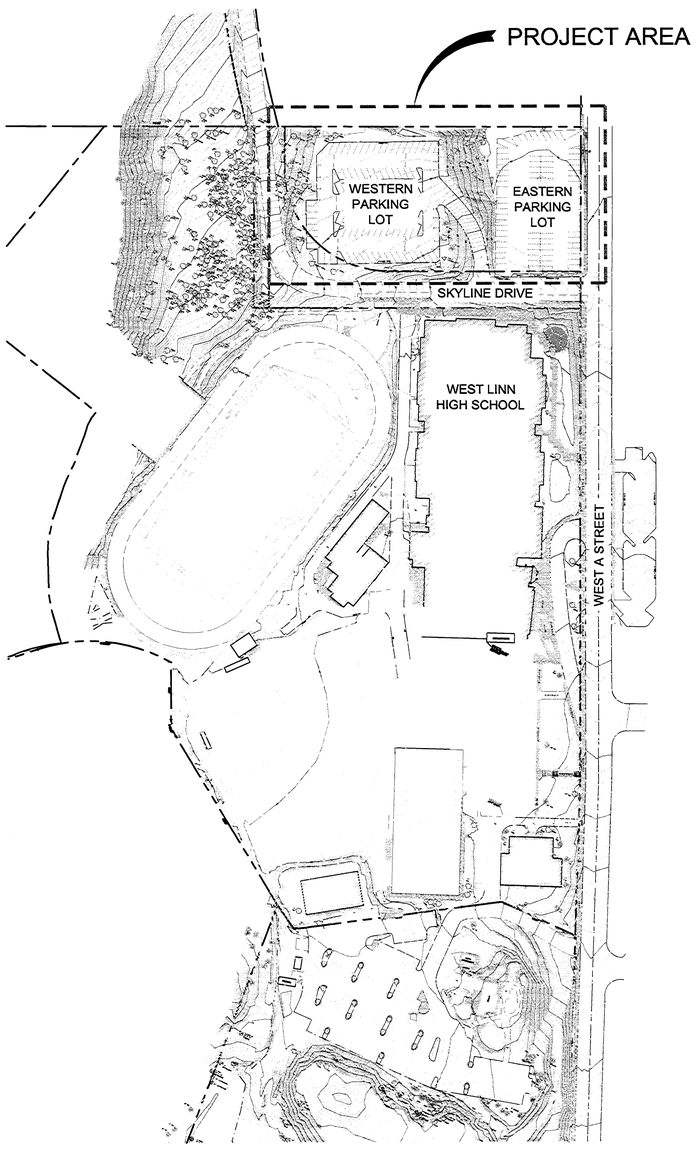
STUDENT PARKING LOT IMPROVEMENT PLANS FOR
WEST LINN HIGH SCHOOL
CITY OF WEST LINN, OREGON
PERMIT DRAWINGS

2013 WEST LINN HIGH SCHOOL PARKING LOT IMPROVEMENT



1 C1.1 | C1.1 SITE MAP
SCALE: 1"=100'-0"

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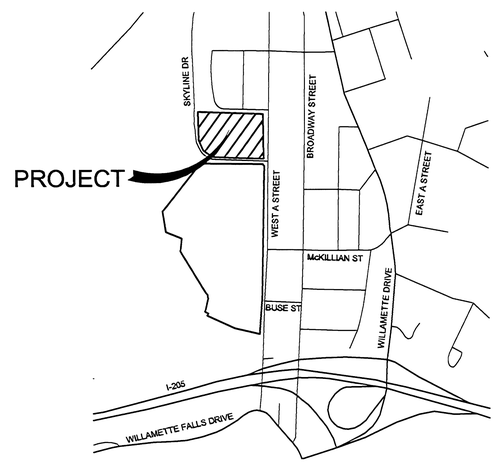
LOCAL AGENCY EROSION CONTROL NOTES:

1. ALL EROSION, SEDIMENT, AND POLLUTION CONTROL PLAN (ESPCP) MEASURES SHALL BE INSTALLED AS PER THE DETAIL DRAWINGS IN THE CITY OF WEST LINN EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
2. PRIOR TO ISSUANCE OF A SITE GRADING DEVELOPMENT PERMIT TEMPORARY ESCP MEASURES SHALL BE INSTALLED, INSPECTED, AND APPROVED BY A CITY OF WEST LINN INSPECTOR BEFORE STARTING GROUND DISTURBING ACTIVITIES. CONTACT THE CITY AT 503-722-5509 24 HOURS IN ADVANCE FOR AN INSPECTION.
3. ESCP MEASURES SHALL NOT BE REMOVED UNTIL PERMANENT LANDSCAPING HAS BEEN INSTALLED AND FINAL INSPECTION HAS BEEN REQUESTED AND APPROVED BY A CITY OF WEST LINN INSPECTOR.
4. INSPECTIONS MAY BE REQUESTED BY TELEPHONING CITY OF WEST LINN ONE DAY PRIOR TO THE TIME OF INSPECTION.
5. APPROVAL OF THIS ESCP PLAN DOES NOT CONSTITUTE APPROVAL OF PERMANENT OR DRAINAGE DESIGN (I.E. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.)
6. THE IMPLEMENTATION OF THIS ESCP AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESCP FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
7. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
8. THE BOUNDARIES OF THE CLEARING LIMITS SHALL BE CLEARLY FLAGGED IN THE FIELD AND MARKED WITH SIGNS 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 THE CONSTRUCTION.
9. THE ESCP FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESCP FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
10. THE ESCP FACILITIES SHALL BE INSPECTED DAILY BETWEEN OCTOBER 1 AND APRIL 30 BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. ALL INSPECTIONS SHALL BE NOTED IN AN INSPECTION LOG WHICH SHALL BE MADE AVAILABLE TO THE CITY OF WEST LINN INSPECTOR UPON REQUEST.
11. ESCP FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF EVERY TWO WEEKS OR WITHIN 24 HOURS FOLLOWING A STORM EVENT.
12. A SIGN WITH THE CITY OF WEST LINN'S EROSION CONTROL HOTLINE NUMBER, PROJECT ADDRESS, AND PERMIT NUMBER SHALL BE POSTED AT A LOCATION CLEARLY VISIBLE FROM THE RIGHT OF WAY AND MAINTAINED UNTIL PROJECT COMPLETION.
13. EXPOSED SOILS THAT REMAIN UNWORKED FOR 14 DAYS OR MORE SHALL BE IMMEDIATELY PROTECTED BY APPROPRIATE GROUND COVER. DISTURBED LAND THAT WILL REMAIN UNWORKED FOR 2 MONTHS OR LONGER SHALL ALSO BE SEEDED WITH AN APPROVED SEED MIXTURE.
14. PUBLIC STREETS WILL BE SWEPT DAILY, IF NECESSARY, TO ALLEVIATE SEDIMENT DISCHARGE TO THE STORM WATER MANAGEMENT SYSTEM. UNFILTERED WASH WATER CANNOT BE DISCHARGED TO STORM DRAINS.
15. ALL EROSION CONTROL SEEDING FOR SITE STABILIZATION WILL BE PERFORMED NO LATER THAN SEPTEMBER 1ST TO ALLOW TIME FOR VEGETATIVE ESTABLISHMENT PRIOR TO THE ONSET OF THE WET WEATHER SEASON.
16. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THEY ARE NO LONGER NEEDED.
17. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHALL BE REPAIRED AND PROTECTED WITH ADEQUATE GROUND COVER (2" STRAW, COMPOST, MULCH, ETC.).
18. SEEDING SHALL BE SUPPLIED WITH ADEQUATE MOISTURE. SUPPLY WATER AS NEEDED. WATER SHOULD BE CONTROLLED TO PREVENT RUNOFF. AREAS WHICH FAIL TO ESTABLISH VEGETATIVE COVER ADEQUATE TO PREVENT EROSION SHALL BE RESEEDED AS SOON AS AREAS ARE IDENTIFIED.
19. DISTURBED AREAS OF SLOPE GREATER THAN 2:1 WILL BE STABILIZED THROUGH SEEDING AND THE INSTALLATION OF NORTH AMERICAN GREEN S150BN MATTING OR EQUIVALENT PRODUCT.
20. THE PROPOSED EROSION CONTROL MEASURES ARE A MINIMUM BEST MANAGEMENT PRACTICE. THE CONTRACTOR MAY BE REQUIRED TO MAKE ADDITIONAL EROSION CONTROL MEASURES TO ENSURE THAT NO SEDIMENT LADEN WATER EXITS THE SITE OR ENTERS THE EXISTING STORMWATER SYSTEM.
21. IN THE CASE OF STABILIZATION SEEDING AND PLANTINGS FOR SWALES & SLOPES, IT IS THE CONTRACTORS RESPONSIBILITY TO SEQUENCE THE WORK SUCH THAT THE PLANTINGS ARE ESTABLISHED AS FAR AS POSSIBLE PRIOR TO OCTOBER 1.
22. CONTRACTOR SHALL DESIGNATE AN ONSITE EROSION & SEDIMENT CONTROL INSPECTOR AND SHALL SUBMIT THE NAME TO THE OWNER'S REPRESENTATIVE FOR SUBMITTAL TO DEQ AS PART OF THE DEQ 1200-C PERMIT REQUIREMENTS.
23. AN EROSION AND SEDIMENT CONTROL PERMIT HAS BEEN APPLIED FOR THROUGH THE OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ 1200-C PERMIT). CONTRACTOR IS RESPONSIBLE FOR ADMINISTRATION AND CONFORMANCE OF ALL EROSION AND SEDIMENT CONTROL REQUIREMENTS STIPULATED IN THIS PERMIT INCLUDING MAINTENANCE & MONITORING.



VICINITY MAP

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OWNER
WEST LINN-WILSONVILLE SCHOOL DISTRICT
2755 SW BORLAND ROAD
TUALATIN, OR 97062
(503) 673-7976

CIVIL ENGINEER
GHD INC.
15575 SW SEQUOIA PARKWAY, SUITE 140
PORTLAND, OR 97224
(503) 226-3921

LANDSCAPE ARCHITECT
WALKER-MACY
111 SW OAK STREET, SUITE 200
PORTLAND, OR 97204
(503) 228-3122

STRUCTURAL ENGINEER
DAVID BUGNI & ASSOCIATES
30625 SE KOWALL RD
ESTACADA, OR 97023
(503) 630-3506

ELECTRICAL ENGINEER
PAE CONSULTING ENGINEERS, INC.
808 SW 3RD STREET, SUITE 300
PORTLAND, OR 97204
(503) 226-2521

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CIVIL ABBREVIATIONS

AC	ASPHALT CONCRETE
EG	EXISTING GROUND
CL	CENTER LINE
FG	FINISHED GROUND
FL	FLOW LINE
FS	FINISHED SURFACE
G	GUTTER / GAS
H	HORIZONTAL
IE	INVERT ELEVATION
L	LENGTH
LF	LINEAL FEET
NTS	NOT TO SCALE
S	SLOPE
SD	STORM DRAIN
SDCB	STORM DRAIN CATCH BASIN
SDMH	STORM DRAIN MANHOLE
TC	TOP OF CURB
TF	TOP OF FOOTING
TP	TOP OF PIPE
TW	TOP OF WALL
TYP	TYPICAL
V	VERTICAL
W	WATER

GENERAL GRADING NOTES
1. SURVEY OF EXISTING CONDITIONS PREPARED BY COMPASS ENGINEERING. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL SURVEY DATA. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING RIGHT-OF-WAY LINES, SLOPE EASEMENTS, AND ALL HORIZONTAL AND VERTICAL CONTROL PRIOR TO CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING AND SHALL ARRANGE FOR STAKING WITH A LICENSED SURVEYOR. STAKING WILL BE REVIEWED BY OWNER FOR CONFORMATION TO DESIGN PRIOR TO CONSTRUCTION.
3. ALL GRADES BETWEEN SPOT ELEVATIONS SHALL HAVE UNIFORM SLOPE UNLESS OTHERWISE INDICATED. MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDING WALLS AND DOORS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL CONSTRUCTION. ADEQUATE SHORING BRACING, TIES, AND SUPPORTS SHALL BE USED TO PROVIDE PROPER TEMPORARY INTEGRITY DURING ALL PHASES OF CONSTRUCTION.
5. ALL EXISTING LANDSCAPED AND UNPAVED AREAS WHICH ARE DISTURBED BY CONSTRUCTION OR EARTHWORK OPERATIONS SHALL BE HAND RAKED SMOOTH AND RETURNED TO ORIGINAL EXISTING CONDITIONS. DISTURBED LANDSCAPED AREAS SHALL RECEIVE BARK DUST AND REPLACEMENT PLANTINGS. DISTURBED NATURAL AREAS SHALL BE HYDROSEEDED TO REPLACE NATIVE COVER. DISTURBED GRAVEL AREAS SHALL RECEIVE REPLACEMENT GRAVEL OR CRUSHED ROCK SURFACING.
6. ALL DITCHES, SWALES, GUTTERS, ETC. SHOULD BE CONSIDERED ACTIVE STORM CONVEYANCES UNLESS OTHERWISE INDICATED. CONTRACTOR IS RESPONSIBLE FOR ADDRESSING STORM WATER DRAINAGE AND DEWATERING OF WORK AREAS DURING CONSTRUCTION.
7. DURING WET WEATHER PERIODS, CONTRACTOR IS RESPONSIBLE FOR SEQUENCING CONSTRUCTION IN A MANNER TO MINIMIZE IMPACT ON OPEN EARTHWORK AND COMPACTION OPERATIONS.
8. ALL EXISTING MONUMENTS SHALL BE PROTECTED DURING CONSTRUCTION. IF ANY MONUMENTS ARE DISTURBED OR DESTROYED DURING CONSTRUCTION, CONTRACTOR SHALL RETAIN THE SERVICES OF A REGISTERED LAND SURVEYOR TO RESTORE THE MONUMENT TO ITS ORIGINAL CONDITION AND FILE THE NECESSARY SURVEYS AS REQUIRED BY STATE LAW.
9. COMPLETELY COVER ANY SOIL STOCKPILES WITH 6 MIL BLACK PLASTIC AND PROVIDE RESTRAINTS TO HOLD PLASTIC IN PLACE. MONITOR PLASTIC COVER AS PART OF CONTINUOUS EROSION CONTROL PLAN. PLACE SILT FENCE COMPLETELY AROUND STOCKPILE.
10. A GRADING PERMIT MUST BE OBTAINED PRIOR TO ANY GRADING ACTIVITIES TAKING PLACE.

GENERAL EROSION CONTROL NOTES
1. THE PROPOSED EROSION CONTROL MEASURES ARE A MINIMUM BEST MANAGEMENT PRACTICE. THE CONTRACTOR MAY BE REQUIRED TO TAKE ADDITIONAL EROSION CONTROL MEASURES TO ENSURE THAT NO SEDIMENT LADEN WATER EXITS THE SITE OR ENTERS THE EXISTING STORMWATER SYSTEMS. THE CONTRACTOR MAY ALSO BE DIRECTED BY THE CITY ENGINEER, CITY INSPECTOR, OR PROJECT ENGINEER TO CONTROL DUST AND AIRBORNE EROSION.
2. PRIOR TO COMMENCEMENT OF GRADING ACTIVITY AND AFTER INSTALLATION OF EROSION CONTROL MEASURES, CONTRACTOR IS TO CONTACT THE CITY OF WEST LINN FOR THEIR SITE REVIEW AND APPROVAL.
3. ALL EROSION CONTROL PERMITS MUST BE OBTAINED PRIOR TO ANY GRADING ACTIVITIES TAKING PLACE.

GENERAL DEMOLITION NOTES
1. DEMOLITION REQUIREMENTS SHOWN ON THESE DRAWINGS ARE INTENDED TO ILLUSTRATE THE GENERAL SCOPE OF DEMOLITION AND ARE GENERALLY DIAGRAMMATIC. THEY DO NOT IDENTIFY EVERY ELEMENT TO BE REVISED. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING A DETAILED SCOPE OF DEMOLITION FROM OWNER AND FROM EXAMINATION OF EXISTING SITE CONDITIONS.
2. CONTRACTOR SHALL SUBMIT A DEMOLITION PLAN, PRIOR TO CONSTRUCTION, OUTLINING ALL ITEMS TO BE REMOVED.
3. DEMOLISHED ITEMS SHALL BE REMOVED FROM THE SITE EXCEPT THOSE ITEMS IDENTIFIED AS "TO REMAIN", "SAVE AND PROTECT", OR "SALVAGE FOR OWNER".
4. ALL LINES THAT ARE CUT AT THE LIMITS OF DEMOLITION OR POINT OF DISCONNECTION WITHIN THE WORK AREA SHALL BE CAPPED OR PLUGGED WATER TIGHT TO CITY'S OR OWNER'S APPROVAL.
5. DEMOLITION PERMIT MUST BE OBTAINED AND APPROPRIATE EROSION CONTROL MEASURES IN PLACE PRIOR TO ANY DEMOLITION ACTIVITIES TAKING PLACE.

ATTENTION EXCAVATORS
OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS BEFORE COMMENCING ANY EXCAVATION, CALL 503-246-6699.

GENERAL SITE NOTES
1. CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND BECOMING FAMILIAR WITH THE SITE CONDITIONS PRIOR TO BIDDING. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE.
2. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THAT NEW FEATURES TIE INTO EXISTING SITE DEVELOPMENT, PAVEMENT JOINTS MATCH CORRECTLY, AND THAT GENERAL DESIGN ELEVATIONS FOR NEW CONSTRUCTION PROVIDE PROPER PAVEMENT AND DRAINAGE SLOPES FROM EXISTING TIE-IN POINTS. REPORT DISCREPANCIES TO OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
3. IN AREAS WHERE ASPHALT PAVING IS BEING REWORKED, PROVIDE NEW PAINT STRIPING FOR ALL REVISED PAVING WORK AND PARKING STALLS. EXISTING STRIPING TO BE BLACKENED OUT IN RECONFIGURED AREAS AS REQUIRED.
4. ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH CITY INSPECTOR(S). CONTRACTOR SHALL NOTIFY CITY INSPECTOR(S) 48 HOURS PRIOR TO START OF CONSTRUCTION.
5. DURING CONSTRUCTION, THE CONTRACTOR AND/OR SUBCONTRACTORS SHALL HAVE A MINIMUM OF ONE (1) SET OF PERMIT APPROVED PLANS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.
6. UPON COMPLETION OF THE CONSTRUCTION PROJECT, THE CONTRACTOR SHALL LEAVE THE PROJECT AREA FREE OF DEBRIS AND UNUSED MATERIAL. ALL DAMAGE CAUSED BY THE CONTRACTOR SHALL BE RESTORED TO AN "AS GOOD OR BETTER" CONDITION.
7. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO CITY OF WEST LINN STANDARDS AND SPECIFICATIONS.

GENERAL UTILITY NOTES
1. LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE PLOTTED FROM RECORD DRAWINGS AND INTERPOLATION OF PHYSICAL EVIDENCE ON THE SITE AND ARE SUBJECT TO FIELD VERIFICATION BY THE CONTRACTOR.
2. ALL LOCATIONS FOR WORK SHALL BE CHECKED AND COORDINATED WITH EXISTING CONDITIONS IN THE FIELD BEFORE BEGINNING CONSTRUCTION UNDER THIS SECTION OR ANY OTHER SECTION.
3. THE WORKING DRAWINGS ARE GENERALLY DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW REQUIRED FOR INSTALLATION IN THE SPACE PROVIDED. THEY DO NOT SHOW EVERY DIMENSION, COMPONENT PIECE, OR FITTING REQUIRED TO COMPLETE THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND WORKING SYSTEM.
4. CONTRACTOR SHALL COORDINATE A UTILITY LOCATE 48 HOURS PRIOR TO BEGINNING ANY UTILITY CONSTRUCTION FOR LOCATION MARK-UP OF ALL EXISTING UTILITIES BOTH IN THE RIGHT-OF-WAY AND ON PRIVATE PROPERTY. CONTRACTOR SHALL COORDINATE THE UTILITY LOCATE WITH MUNICIPALITY HAVING JURISDICTION FOR ALL UTILITY WORK WITHIN A PUBLIC RIGHT-OF-WAY. INFORM ENGINEER IMMEDIATELY IF LOCATE INDICATES THAT EXISTING UTILITIES ARE DIFFERENT THAN SHOWN ON DRAWINGS. PRE-SURVEY LOCATING REQUESTS SHALL BE 14 DAYS IN ADVANCE.
5. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES, FEATURES, AND STRUCTURES LOCATED ON THE SITE. LOCATE, PROTECT, AND AVOID DISRUPTION OF ALL ABOVE AND BELOW GRADE UTILITIES DURING CONSTRUCTION.
6. ALL UTILITY CONSTRUCTION ON PRIVATE PROPERTY SHALL CONFORM TO THE LATEST EDITION OF THE OREGON PLUMBING SPECIALTY CODE. ALL UTILITY CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE STANDARD REQUIREMENTS OF THE MUNICIPALITY HAVING JURISDICTION.
7. ALL BURIED LINES TO HAVE 2 FEET MINIMUM COVER, UNLESS NOTED OTHERWISE.
8. DOWNSPOUT AND BUILDING UTILITY CONNECTIONS TO BE SHOWN ON BUILDING PLUMBING DRAWINGS. REFER TO PLUMBING DRAWINGS FOR CONTINUATION OF UTILITY LINES INTO BUILDING.
9. THRUST RESTRAINTS IS REQUIRED ON ALL PRESSURE LINE BENDS AND FITTINGS.
10. SEE LANDSCAPE DRAWINGS FOR IRRIGATION LINES.
11. ALL EXISTING UTILITIES AND TIE-IN POINTS SHOULD BE CONSIDERED ACTIVE UTILITIES UNLESS OTHERWISE INDICATED.
12. CONFIRM FIRE HYDRANT TYPE, NOZZLE SIZES, AND THREAD CONFIGURATIONS WITH LOCAL MUNICIPALITY HAVING JURISDICTION PRIOR TO CONSTRUCTION.
13. CONFIRM ALL UTILITY VALVE VAULTS, VALVES, METERS, BACKFLOW PREVENTION ASSEMBLIES, AND OTHER PUBLIC UTILITY APPURTENANCES IN THE RIGHT-OF-WAY WITH THE MUNICIPALITY HAVING JURISDICTION.

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RECORD DRAWING
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BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

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MARK	DATE	DESCRIPTION
	10/30/2013	RECORD DRAWING

ISSUE

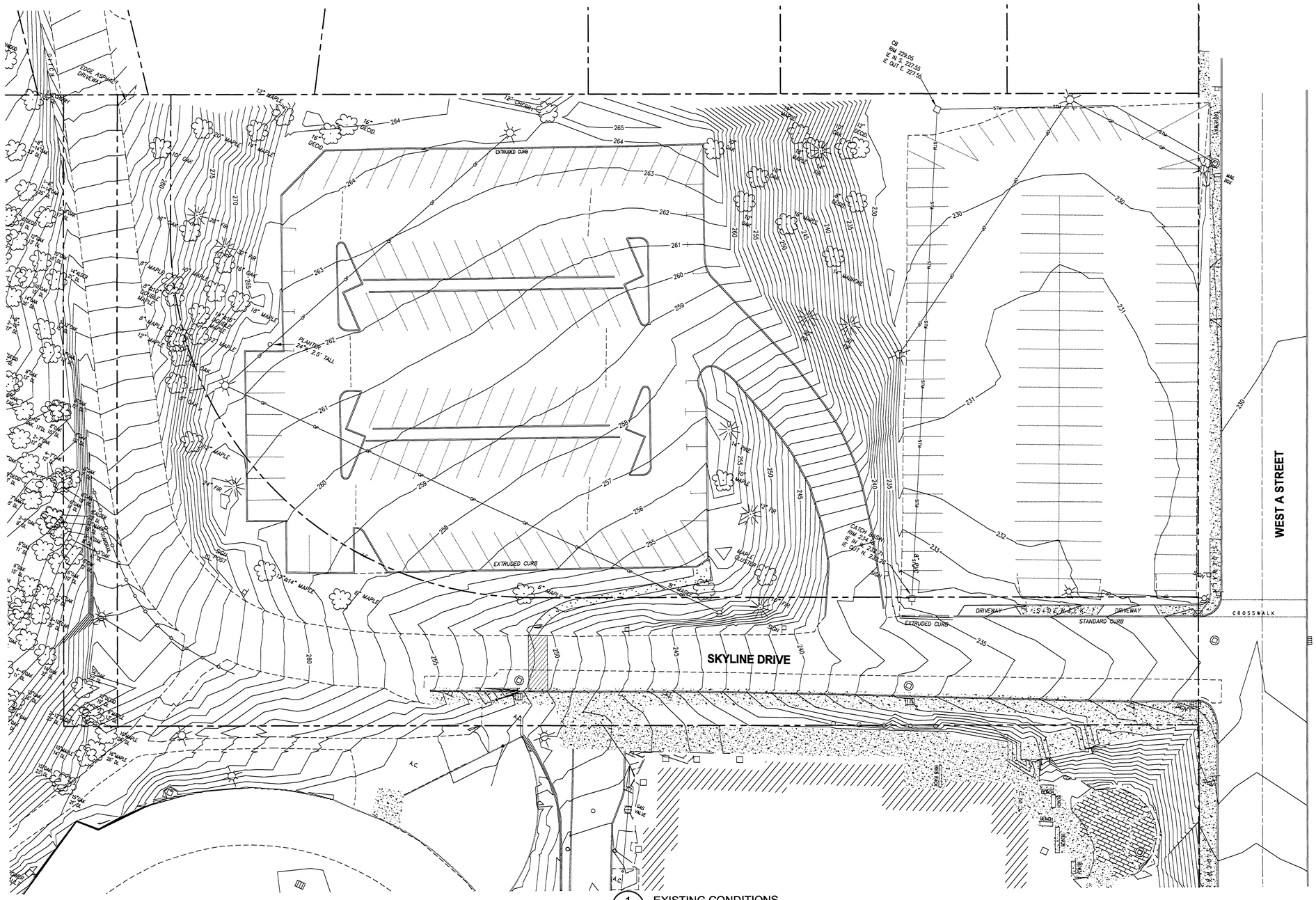
WEST LINN WILSONVILLE SCHOOL DISTRICT
WEST LINN HIGH SCHOOL
STUDENT PARKING LOT IMPROVEMENTS

COVER SHEET

PROJ NO: 11456-11009
DRWN: PRK CHKD: STS

C1.1

SHEET OF



1 EXISTING CONDITIONS
C1.2 C1.2 SCALE: 1"=20'-0"

N

SURVEY NOTES

1. TOPOGRAPHIC FEATURES SHOWN ON THIS MAP WERE LOCATED USING STANDARD PRECISION TOPOGRAPHIC MAPPING PROCEDURES. THIRD PARTY USERS OF DATA FROM THIS MAP PROVIDED VIA AUTOCAD DRAWING FILES OR DATA EXCHANGE FILES SHOULD NOT RELY ON ANY AUTOCAD GENERATED INFORMATION WHICH IS BEYOND THE LIMITS OF PRECISION OF THIS MAP. THIRD PARTIES, USING DATA FROM THIS MAP IN AN AUTOCAD FORMAT, SHOULD VERIFY ANY ELEMENTS REQUIRING PRECISE LOCATIONS PRIOR TO COMMENCEMENT OF ANY CRITICAL DESIGN OR CONSTRUCTION. CONTACT COMPASS ENGINEERING FOR FURTHER INFORMATION. FURTHERMORE, COMPASS ENGINEERING WILL NOT BE RESPONSIBLE NOR HELD LIABLE FOR ANY DESIGN OR CONSTRUCTION RELATED PROBLEMS THAT ARISE OUT OF THIRD PARTY USAGE OF THIS MAP (IN AUTOCAD OR OTHER FORMAT) FOR ANY PURPOSE OTHER THAN SPECIFICALLY STATED HEREIN. THIS STATEMENT IS AN OFFICIAL PART OF THIS MAP.

2. THE LOCATION OF UTILITIES (SANITARY SEWER, WATER, NATURAL GAS, AND ELECTRICITY) SERVING THIS PROPERTY ARE BASED UPON FIELD MARKINGS MADE BY THE LOCAL UTILITY AGENTS AND RECORD INFORMATION THEY HAVE PROVIDED. COMPASS CORPORATION MAKES NO WARRANTIES WITH REGARDS TO THE ACCURACY OR COMPLETENESS OF DATA SHOWN. ADDITIONAL UTILITIES MAY EXIST.

3. THE STORM SEWER FEATURES (MANHOLES, CATCH BASINS AND DRAINS) WERE FIELD TIED. THE UNDERGROUND PIPELINES CONNECTING THESE FEATURES WERE DRAWN USING FIELD DATA.

4. THE LOCATION OF BUILDINGS SHOWN ON THIS SURVEY ARE BASED UPON FIELD MEASUREMENTS TAKEN AT THE BUILDING FACE.

5. CONTOUR INTERVALS ARE 1 FOOT.

6. BOUNDARY IS PER P.S. 17363 AND P.S. 17653, CLACKAMAS COUNTY SURVEY RECORDS. BASIS OF BEARINGS FOR THIS PROJECT ARE ASSUMED "NORTH" FROM POINT NUMBER 4 TO POINT NUMBER 1.

SURVEY LEGEND

CATCH BASIN	CURB
CLEANOUT	OVERHEAD POWER
FIRE HYDRANT	EDGE OF PAVEMENT
LIGHT POLE	FENCE, CHAIN LINK UNLESS NOTED OTHERWISE
POWER POLE	EDGE OF GRAVEL
STM MH	STORM LINE
WATER METER	GAS LINE
WATER VALVE	SANITARY SEWER LINE
SPRINKLER	UNDERGROUND POWER

COMPASS ENGINEERING

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SURVEYING — www.compass-engineering.com
PLANNING — (503) 653-9060 PHONE, (503) 653-9065 FAX

1" = 20'-0" 20' 0 20' 40' 60'

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SURVEY PROVIDED BY OWNER

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

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	10/30/2013	RECORD DRAWING

ISSUE

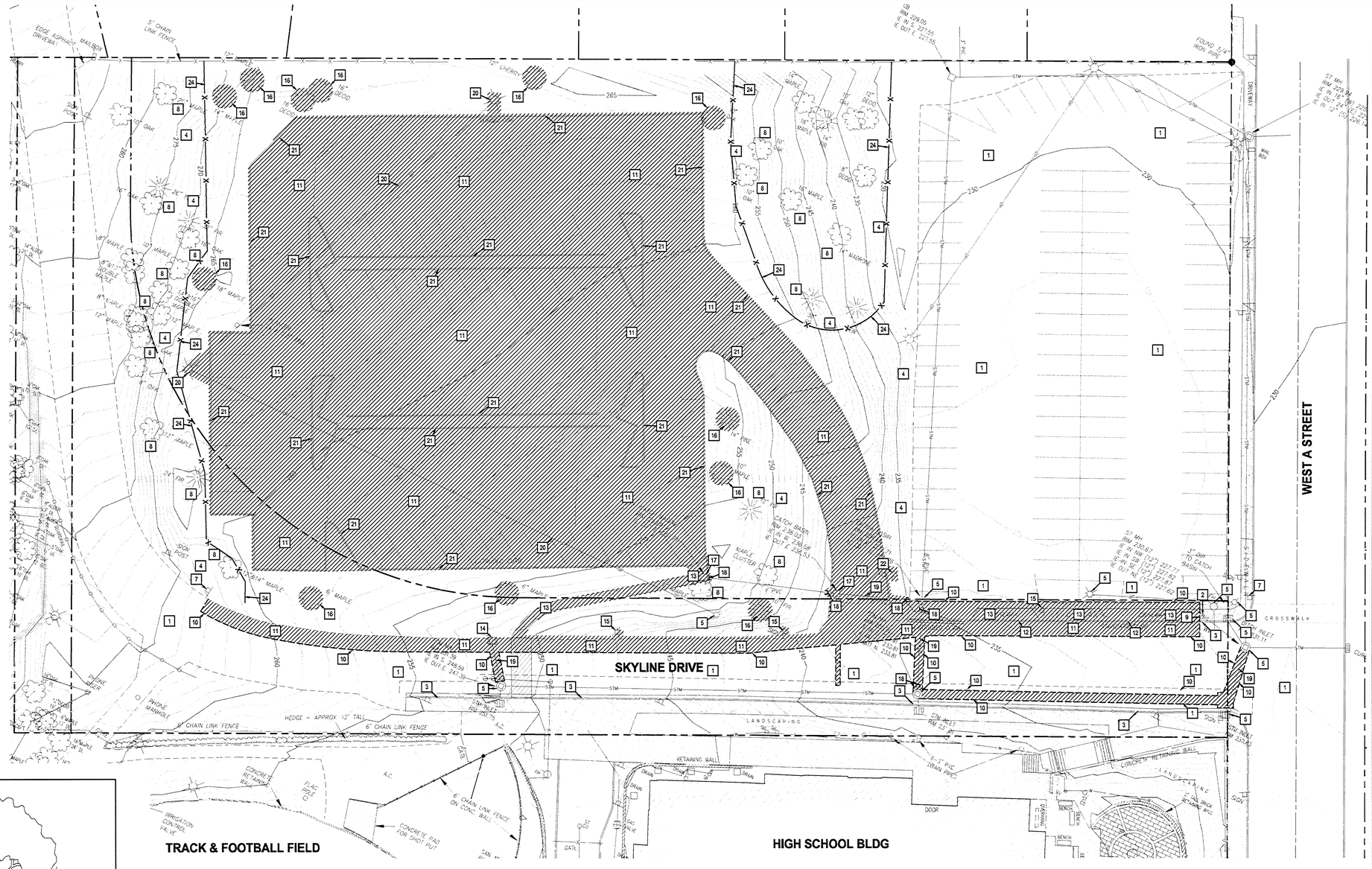
WEST LINN WILSONVILLE SCHOOL DISTRICT
WEST LINN HIGH SCHOOL
STUDENT PARKING LOT IMPROVEMENTS

EXISTING CONDITIONS

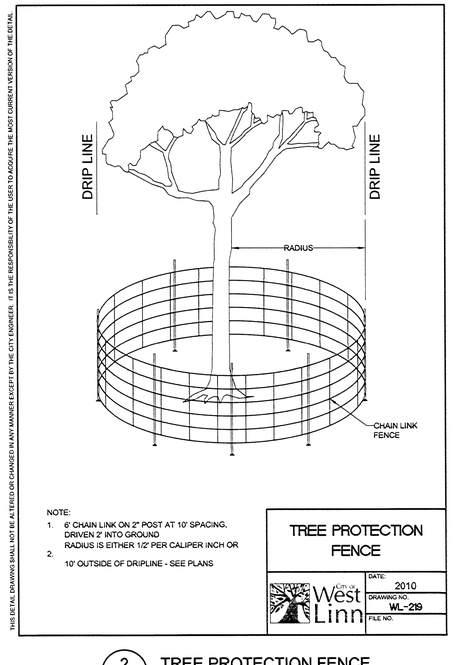
PROJ NO: 11456-11009
DRWN: CHKD:

C1.2

SHEET OF



1 C2.1 C2.1 DEMOLITION PLAN
SCALE: 1"=20'-0"



2 C2.1 C2.1 TREE PROTECTION FENCE
SCALE: NTS

THIS DETAIL DRAWING SHALL NOT BE ALTERED OR CHANGED IN ANY MANNER EXCEPT BY THE CITY ENGINEER. IT IS THE RESPONSIBILITY OF THE USER TO ACQUIRE THE MOST CURRENT VERSION OF THE DETAIL.

DEMOLITION NOTES

1. SAVE AND PROTECT EXISTING ASPHALT THROUGHOUT CONSTRUCTION ACTIVITIES.
2. SAVE AND PROTECT EXISTING CONCRETE THROUGHOUT CONSTRUCTION ACTIVITIES.
3. SAVE AND PROTECT EXISTING CURB THROUGHOUT CONSTRUCTION ACTIVITIES.
4. SAVE AND PROTECT EXISTING LANDSCAPING THROUGHOUT CONSTRUCTION ACTIVITIES.
5. SAVE AND PROTECT EXISTING UTILITY THROUGHOUT CONSTRUCTION ACTIVITIES.
6. REMOVE EXISTING STORM PIPE.
7. SAVE AND PROTECT EXISTING SIGN THROUGHOUT CONSTRUCTION ACTIVITIES.
8. SAVE AND PROTECT EXISTING TREE DURING CONSTRUCTION.
9. SAWCUT EXISTING CONCRETE.
10. SAWCUT EXISTING A.C. PAVING.
11. DEMOLISH AND REMOVE EXISTING ASPHALT PAVING SECTION. EXCAVATE TO ADEQUATE SUBGRADE TO PROVIDE COMPLETE NEW PAVING SECTION AS DETAILED. REMOVE ALL ASPHALT WITHIN DEMOLITION LIMITS AND DISPOSE OF OFF-SITE.
12. DEMOLISH AND REMOVE EXISTING CONCRETE CURB & GUTTER AND DISPOSE OF OFF-SITE.
13. DEMOLISH AND REMOVE EXISTING CONCRETE SIDEWALK AND DISPOSE OF OFF-SITE.
14. REMOVE EXISTING CATCH BASIN AND DISPOSE OF OFF-SITE. SAVE AND PROTECT EXISTING STORM PIPE FOR CONNECTION TO NEW CATCH BASIN.
15. REMOVE EXISTING SIGN. SALVAGE SIGN FOR RE-INSTALLATION.
16. REMOVE EXISTING TREE AND DISPOSE OF OFF-SITE.
17. REMOVE EXISTING CATCH BASIN AND DISPOSE OF OFF-SITE.
18. CUT AND CAP EXISTING STORM LINE.
19. REMOVE EXISTING STORM PIPE AND DISPOSE OF OFF-SITE.
20. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL COMPONENTS.
21. REMOVE EXISTING EXTRUDED CURB AND DISPOSE OF OFF-SITE.
22. REMOVE EXISTING SIGN AND DISPOSE OF OFF-SITE.
23. REMOVE EXISTING MAILBOX. SALVAGE MAILBOX FOR RE-INSTALLATION.
24. INSTALL TREE PROTECTION FENCING. — 2 C2.1 C2.1

– ELEMENTS TO BE DEMOLISHED AND REMOVED

GENERAL NOTE
ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE CITY OF WEST LINN PUBLIC WORKS STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS.

1" = 20'-0" 20' 0 20' 40' 60'

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	10/30/2013	RECORD DRAWING	

WEST LINN WILSONVILLE SCHOOL DISTRICT
WEST LINN HIGH SCHOOL
STUDENT PARKING LOT IMPROVEMENTS

DEMOLITION PLAN

PROJ NO: 11456-11009
DRWN: CHKD:

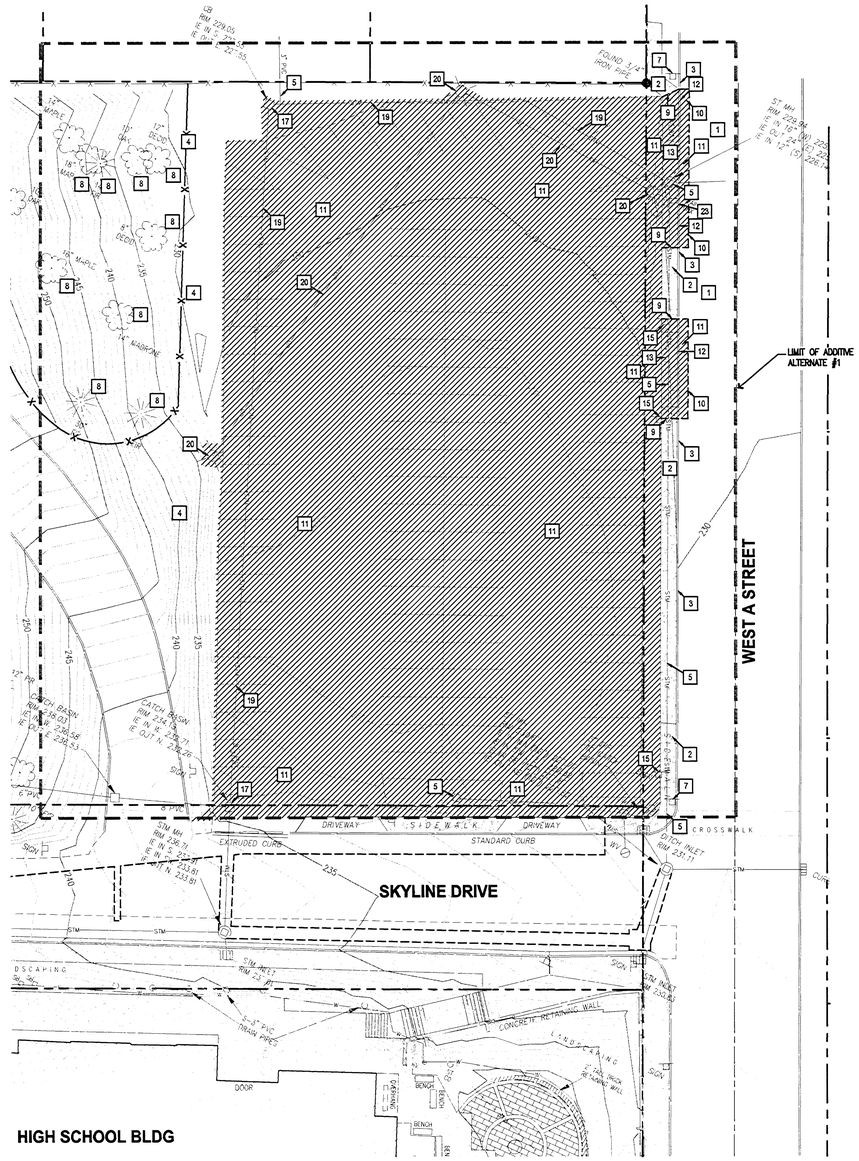
C2.1

SHEET OF

DEMOLITION NOTES

1. SAVE AND PROTECT EXISTING ASPHALT THROUGHOUT CONSTRUCTION ACTIVITIES.
2. SAVE AND PROTECT EXISTING CONCRETE THROUGHOUT CONSTRUCTION ACTIVITIES.
3. SAVE AND PROTECT EXISTING CURB THROUGHOUT CONSTRUCTION ACTIVITIES.
4. SAVE AND PROTECT EXISTING LANDSCAPING THROUGHOUT CONSTRUCTION ACTIVITIES.
5. SAVE AND PROTECT EXISTING UTILITY THROUGHOUT CONSTRUCTION ACTIVITIES.
6. REMOVE EXISTING STORM PIPE.
7. SAVE AND PROTECT EXISTING SIGN THROUGHOUT CONSTRUCTION ACTIVITIES.
8. SAVE AND PROTECT EXISTING TREE DURING CONSTRUCTION.
9. SAWCUT EXISTING CONCRETE.
10. SAWCUT EXISTING A.C. PAVING.
11. DEMOLISH AND REMOVE EXISTING ASPHALT PAVING SECTION. EXCAVATE TO ADEQUATE SUBGRADE TO PROVIDE COMPLETE NEW PAVING SECTION AS DETAILED. REMOVE ALL ASPHALT WITHIN DEMOLITION LIMITS AND DISPOSE OF OFF-SITE.
12. DEMOLISH AND REMOVE EXISTING CONCRETE CURB & GUTTER AND DISPOSE OF OFF-SITE.
13. DEMOLISH AND REMOVE EXISTING CONCRETE SIDEWALK AND DISPOSE OF OFF-SITE.
14. REMOVE EXISTING CATCH BASIN AND DISPOSE OF OFF-SITE. SAVE AND PROTECT EXISTING STORM PIPE FOR CONNECTION TO NEW CATCH BASIN.
15. REMOVE EXISTING SIGN. SALVAGE SIGN FOR RE-INSTALLATION.
16. REMOVE EXISTING TREE AND DISPOSE OF OFF-SITE.
17. REMOVE EXISTING CATCH BASIN AND DISPOSE OF OFF-SITE.
18. CUT AND CAP EXISTING STORM LINE.
19. REMOVE EXISTING STORM PIPE AND DISPOSE OF OFF-SITE.
20. SEE ELECTRICAL PLANS FOR DEMOLITION OF ELECTRICAL COMPONENTS.
21. REMOVE EXISTING EXTRUDED CURB AND DISPOSE OF OFF-SITE.
22. REMOVE EXISTING SIGN AND DISPOSE OF OFF-SITE.
23. REMOVE EXISTING MAILBOX. SALVAGE MAILBOX FOR RE-INSTALLATION.
24. INSTALL TREE PROTECTION FENCING. — 2 / C2.1 C2.1

– ELEMENTS TO BE DEMOLISHED AND REMOVED



1 / C2.2 C2.2 ADDITIVE ALTERNATE #1 DEMOLITION PLAN
SCALE: 1"=20'-0"

N

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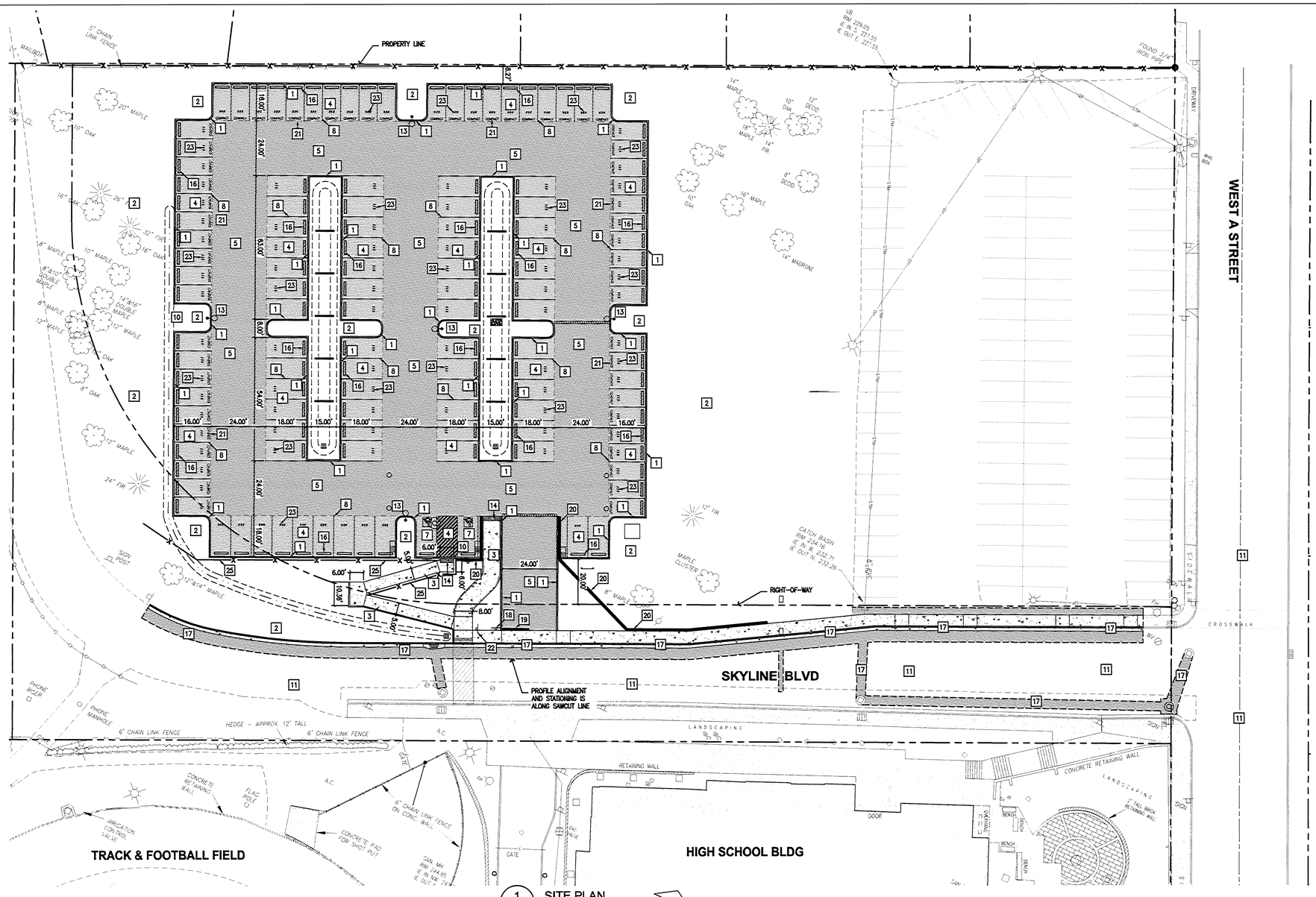
WEST LINN HIGH SCHOOL
STUDENT PARKING LOT IMPROVEMENTS

DEMOLITION PLAN

PROJ NO: 11456-11009
DRWN: CHKD:

C2.2

SHEET OF



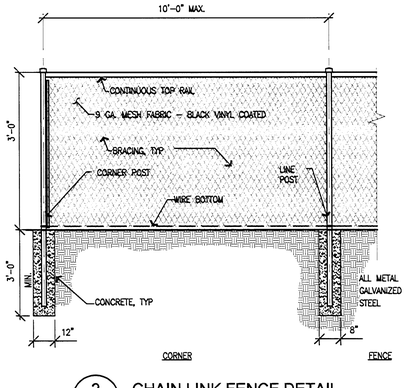
1 C3.1 C3.1 SITE PLAN
SCALE: 1"=20'-0"

N

SITE CONSTRUCTION NOTES

(NOTE: NOT ALL NOTES USED ON THIS PLAN)

1. CONSTRUCT STANDARD CURB. — 1 C3.1 C6.3
2. SEE LANDSCAPE DRAWINGS FOR PLANTINGS.
3. CONSTRUCT CONCRETE SIDEWALK. — 5 C3.1 C6.4
4. CONSTRUCT LIGHT ASPHALT PAVEMENT SECTION. — 3 C3.1 C6.3
5. CONSTRUCT HEAVY ASPHALT PAVEMENT SECTION. — 2 C3.1 C6.3
6. CONSTRUCT CONCRETE DRIVEWAY. — 3 C3.1 C6.4
7. INSTALL ACCESSIBLE PARKING SPACE. — 11 C3.1 C6.3
8. INSTALL 3" WIDE PARKING STRIPING - WHITE (TYPICAL).
9. INSTALL CURB AND GUTTER PER CITY OF WEST LINN STANDARDS. — 1 C3.1 C6.4
10. CONSTRUCT 6' WIDE OPENING IN CURB.
11. CONTRACTOR SHALL PATCH & REPAIR ALL EXISTING ASPHALT PAVING USED FOR STAGING AREAS AND CONSTRUCTION TRUCK ROUTES. DAMAGED PAVING AREAS MARKED BY THE CITY OF WEST LINN STAFF SHALL BE REMOVED AND REPLACED WITH MATCHING PAVEMENT SECTION.
12. INSTALL AC PAVING PATCH, PROVIDE TACK COAT AT JOINT. — 4 C3.1 C3.3
13. NEW LIGHT POLE - SEE ELECTRICAL SITE PLAN.
14. INSTALL 24" WIDE ADA COMPLIANT TRUNCATED DOME WARNING SURFACE.
15. INSTALL CROSSWALK STRIPING. — 5 C3.2 C6.3
16. INSTALL PRECAST CONCRETE WHEEL STOP. (TYPICAL) — 8 C3.1 C6.3
17. SEE SHEET C3.3 FOR IMPROVEMENTS IN SKYLINE BLVD.
18. INSTALL "STOP" SIGN. — 9 C3.1 C6.3
19. INSTALL 12" WIDE WHITE STOP BAR. — 4 C3.1 C6.3
20. INSTALL RETAINING WALL - SEE GRADING PLANS.
21. INSTALL "COMPACT" PAVEMENT MARKING (WHITE) TO DENOTE COMPACT PARKING SPACE.
22. INSTALL SALVAGED SIGN. — 2 C3.1 C6.4
23. INSTALL PAINTED PARKING SPACE NUMBER MARKING (TYPICAL). NUMBERS TO BE PROVIDED BY OWNER.
24. INSTALL SALVAGED MAILBOX.
25. INSTALL 3' TALL BLACK VINYL COATED CHAIN LINK FENCE. — 2 C3.1 C3.1



2 C3.1 C3.1 CHAIN LINK FENCE DETAIL
C3.2
SCALE: NONE

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WEST LINN WILSONVILLE SCHOOL DISTRICT
WEST LINN HIGH SCHOOL
STUDENT PARKING LOT IMPROVEMENTS

SITE PLAN

PROJ NO: 11456-11009
DRWN: CHKD:

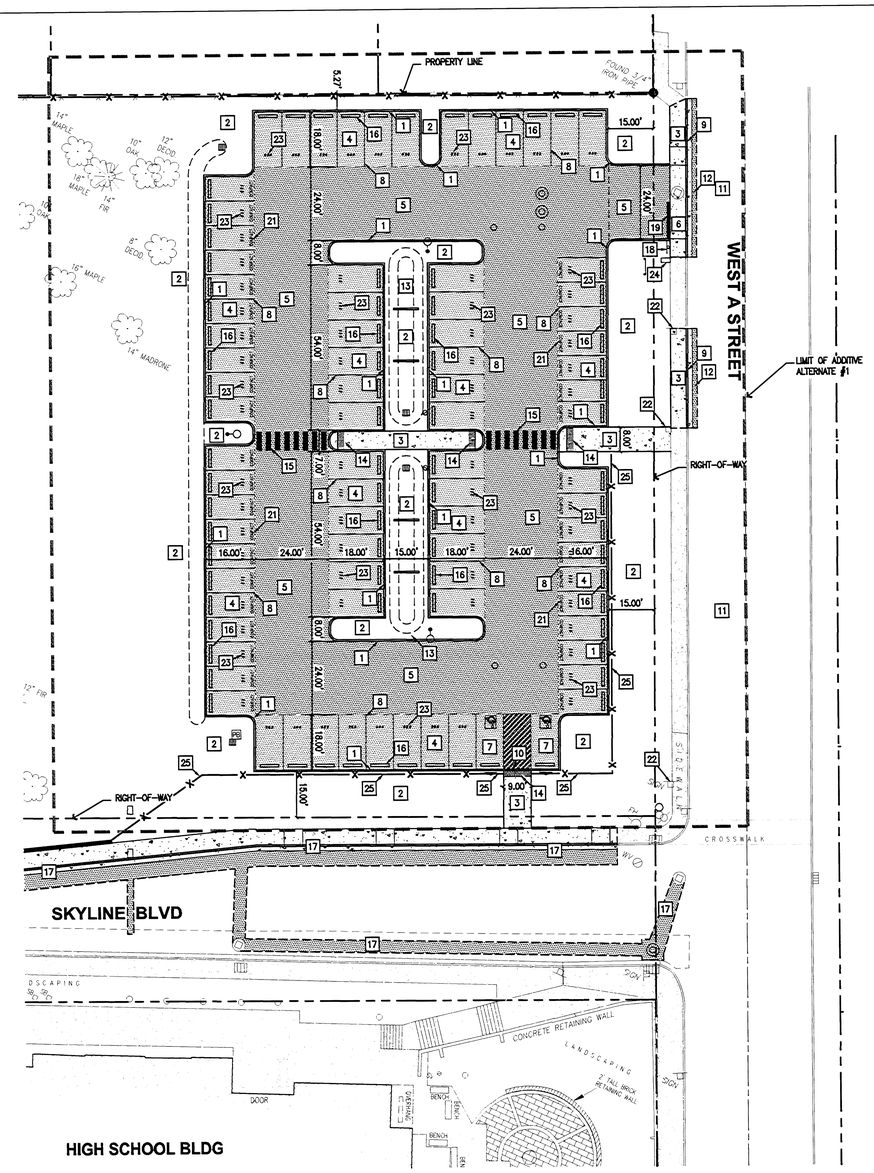
C3.1

SHEET OF

SITE CONSTRUCTION NOTES

(NOTE: NOT ALL NOTES USED ON THIS PLAN)

1. CONSTRUCT STANDARD CURB. — 1 / C3.2 C6.3
2. SEE LANDSCAPE DRAWINGS FOR PLANTINGS.
3. CONSTRUCT CONCRETE SIDEWALK. — 5 / C3.2 C6.4
4. CONSTRUCT LIGHT ASPHALT PAVEMENT SECTION. — 3 / C3.2 C6.3
5. CONSTRUCT HEAVY ASPHALT PAVEMENT SECTION. — 2 / C3.2 C6.3
6. CONSTRUCT CONCRETE DRIVEWAY. — 3 / C3.2 C6.4
7. INSTALL ACCESSIBLE PARKING SPACE. — 11 / C3.2 C6.3
8. INSTALL 3" WIDE PARKING STRIPING – WHITE (TYPICAL).
9. INSTALL CURB AND GUTTER PER CITY OF WEST LINN STANDARDS. — 1 / C3.2 C6.4
10. CONSTRUCT 6' WIDE OPENING IN CURB.
11. CONTRACTOR SHALL PATCH & REPAIR ALL EXISTING ASPHALT PAVING USED FOR STAGING AREAS AND CONSTRUCTION TRUCK ROUTES. DAMAGED PAVING AREAS MARKED BY THE CITY OF WEST LINN STAFF SHALL BE REMOVED AND REPLACED WITH MATCHING PAVEMENT SECTION.
12. INSTALL AC PAVING PATCH, PROVIDE TACK COAT AT JOINT. — 4 / C3.2 C3.3
13. NEW LIGHT POLE – SEE ELECTRICAL SITE PLAN.
14. INSTALL 24" WIDE ADA COMPLIANT TRUNCATED DOME WARNING SURFACE.
15. INSTALL CROSSWALK STRIPING. — 5 / C3.2 C6.3
16. INSTALL PRECAST CONCRETE WHEEL STOP. (TYPICAL) — 8 / C3.2 C6.3
17. SEE SHEET C3.3 FOR IMPROVEMENTS IN SKYLINE BLVD.
18. INSTALL "STOP" SIGN. — 9 / C3.2 C6.3
19. INSTALL 12" WIDE WHITE STOP BAR. — 4 / C3.2 C6.3
20. INSTALL RETAINING WALL – SEE GRADING PLANS.
21. INSTALL "COMPACT" PAVEMENT MARKING (WHITE) TO DENOTE COMPACT PARKING SPACE.
22. INSTALL SALVAGED SIGN. — 2 / C3.2 C6.4
23. INSTALL PAINTED PARKING SPACE NUMBER MARKING (TYPICAL). NUMBERS TO BE PROVIDED BY OWNER.
24. INSTALL SALVAGED MAILBOX.
25. INSTALL 3' TALL BLACK VINYL COATED CHAIN LINK FENCE. — 2 / C3.2 C3.1



1 / C3.2 C3.2 ADDITIVE ALTERNATE #1 SITE PLAN
SCALE: 1"=20'-0"

N

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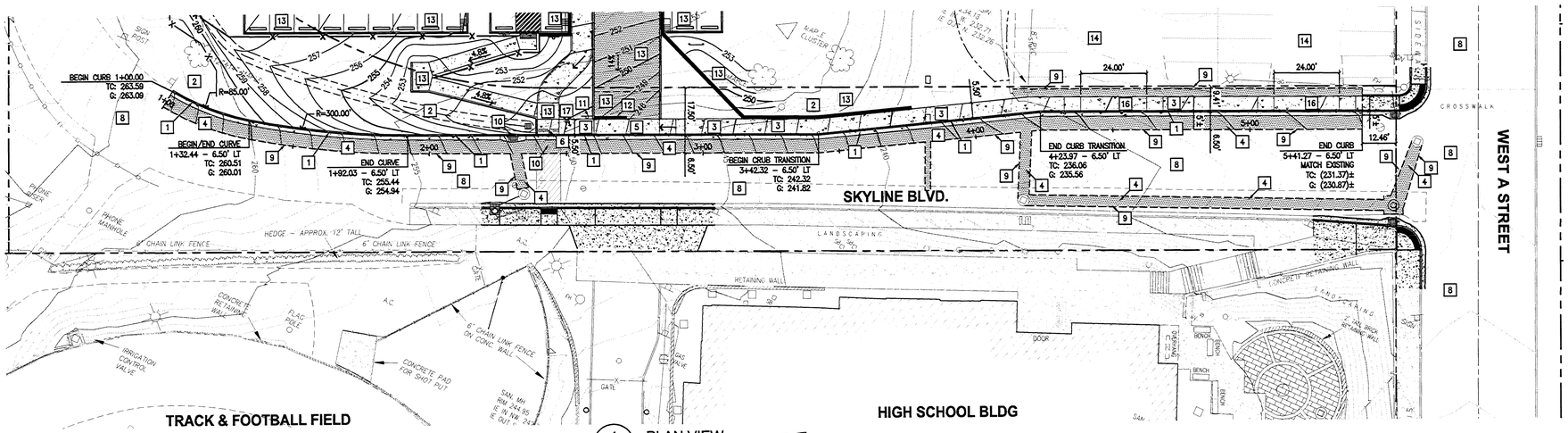
WEST LINN WILSONVILLE SCHOOL DISTRICT
WEST LINN HIGH SCHOOL
STUDENT PARKING LOT IMPROVEMENTS

SITE PLAN

PROJ NO: 11456-11009
DRWN: CHKD:

C3.2

SHEET OF



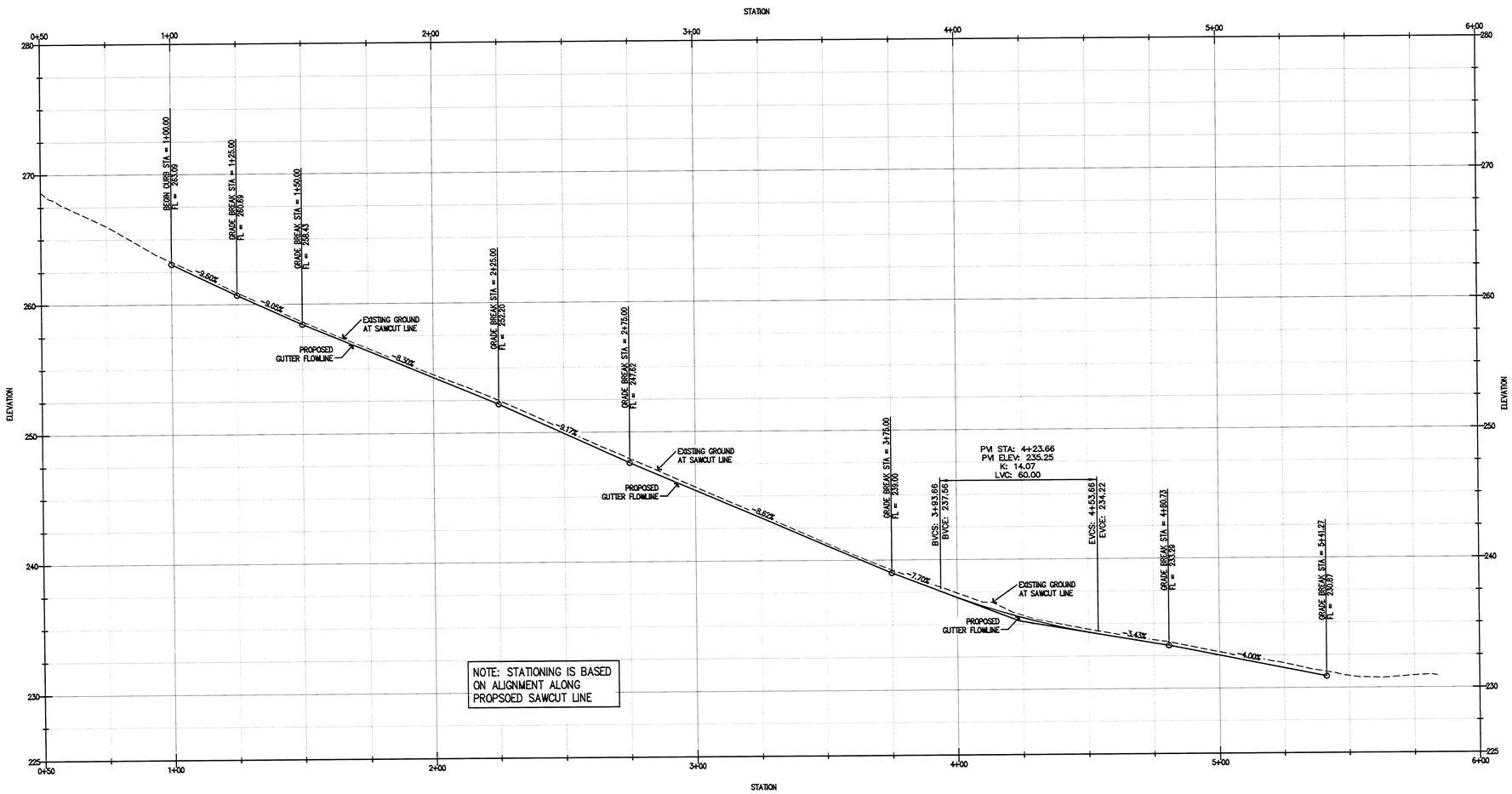
1 C3.3 C3.3 PLAN VIEW
SCALE: 1"=20'-0"

N

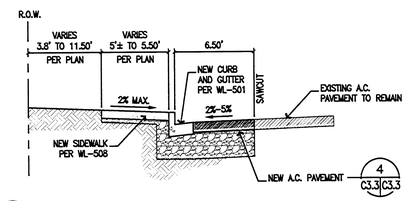
SITE CONSTRUCTION NOTES

(NOTE: NOT ALL NOTES USED ON THIS PLAN)

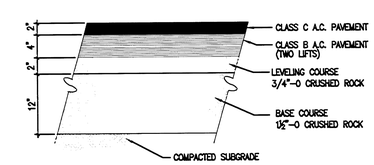
1. CONSTRUCT STANDARD CURB AND GUTTER. — 1 C3.3 C6.4
2. SEE LANDSCAPE DRAWINGS FOR PLANTINGS.
3. CONSTRUCT CONCRETE SIDEWALK. — 5 C3.3 C6.4
4. CONSTRUCT ASPHALT PAVEMENT SECTION. — 4 C3.3 C3.3
5. CONSTRUCT CONCRETE DRIVEWAY. — 3 C3.3 C6.4
6. CONSTRUCT STANDARD ADA CURB RAMP. — 4 C3.3 C6.4
7. RE-ESTABLISH VEGETATION IN AREAS DISTURBED BY CONSTRUCTION PER LANDSCAPE PLANS.
8. CONTRACTOR SHALL PATCH & REPAIR ALL EXISTING ASPHALT PAVING USED FOR STAGING AREAS AND CONSTRUCTION TRUCK ROUTES. DAMAGED PAVING AREAS MARKED BY THE CITY OF WEST LINN STAFF SHALL BE REMOVED AND REPLACED WITH MATCHING PAVEMENT SECTION.
9. MATCH EXISTING AC PAVING, PROVIDE TACK COAT AT JOINT. PROVIDE CLEAN SAWCUT LINE.
10. REPAIR/REINSTALL CROSSWALK STRIPPING TO MATCH EXISTING.
11. INSTALL "STOP" SIGN. — 9 C3.3 C6.3
12. INSTALL 12" WIDE WHITE STOP BAR. — 4 C3.3 C6.3
13. SEE SHEET C3.1 FOR CONSTRUCTION INFORMATION.
14. SEE SHEET C3.2 FOR CONSTRUCTION INFORMATION.
15. INSTALL CATCH BASIN, SEE SHEET C5.1
16. CONSTRUCT CONCRETE DRIVEWAY IF ADDITIVE ALTERNATE #1 IS NOT ACCEPTED, OTHERWISE CONSTRUCT CONCRETE SIDEWALK. — 3 C3.3 C6.4 / 5 C3.3 C6.4
17. INSTALL SALVAGED SIGN. — 2 C3.3 C6.4



2 C3.3 C3.3 PROFILE VIEW
SCALE: H: 1"=20'-0"; V: 1"=4'-0"



3 C3.3 C3.3 TYPICAL SECTION FOR SKYLINE BLVD
SCALE: N.T.S.



4 C3.3 C3.3 TYPICAL PAVEMENT SECTION FOR SKYLINE BLVD
SCALE: N.T.S.

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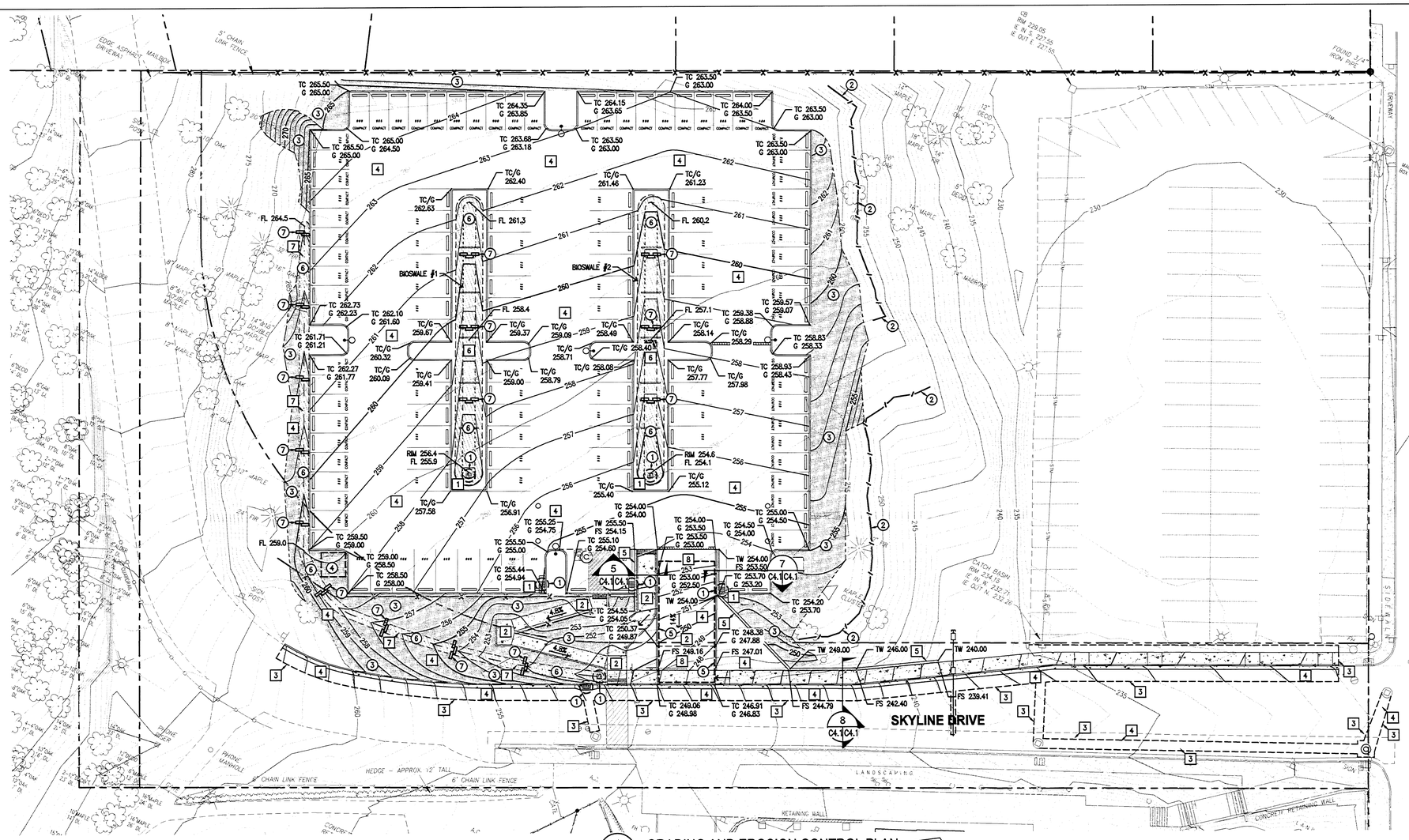
WEST LINN HIGH SCHOOL
STUDENT PARKING LOT IMPROVEMENTS

SKYLINE BOULEVARD IMPROVEMENTS

PROJ NO: 11456-11009
DRWN: CHKD:

C3.3

SHEET OF



1 C4.1 C4.1 GRADING AND EROSION CONTROL PLAN
SCALE: 1"=20'-0"

GRADING CONSTRUCTION NOTES

1. GRADE TO MAINTAIN POSITIVE DRAINAGE TOWARD ALL STORMWATER COLLECTION FACILITIES.
2. STRIP TOPSOIL AND PROVIDE EXCAVATION OR STRUCTURAL FILL AS NEEDED TO ACHIEVE REQUIRED SUBGRADE.
3. MATCH EXISTING PAVEMENT GRADES AT JOINTS BETWEEN NEW AND EXISTING PAVEMENTS.
4. PROVIDE EXCAVATION OR STRUCTURAL FILL AS NEEDED TO ACHIEVE REQUIRED SUBGRADE. EXPECT TO ENCOUNTER SOLID BASALT ROCK AND/OR LARGE BOULDERS FOR EXCAVATIONS THAT EXCEED 2 FEET BELOW THE EXISTING SURFACE.
5. CONSTRUCT RETAINING WALL PER PROFILES AND SECTIONS ON THIS SHEET.
6. CONSTRUCT BIOSWALE. — 9 C4.1 C6.2
7. CONSTRUCT EARTH SWALE. — 12 C4.1 C6.2
8. GRADE TO CREATE A VERTICAL CURVE SMOOTH TRANSITION BETWEEN SPOT ELEVATIONS AT THE TOP AND BOTTOM OF DRIVEWAY.

EROSION CONTROL CONSTRUCTION NOTES

1. INSTALL INLET PROTECTION. — 1 C4.1 C6.1 / 8 C4.1 C6.1
2. INSTALL SEDIMENT FENCE. (TYPICAL) — 5 C4.1 C6.1
3. INSTALL COMPOST BLANKET AND PLANTINGS ON ALL BARE SLOPES DISTURBED BY CONSTRUCTION. FOR SEED MIXES AND PLANTINGS SEE LANDSCAPE DRAWINGS. — 2 C4.1 C6.1
4. INSTALL 10'x10'x1.5' DEEP CONCRETE WASHOUT AREA. ALL WATER COLLECTED THROUGH WASHOUT AREA IS CONSIDERED HAZARDOUS WASTE AND SHALL BE CAPTURED AND HANDLED AS SUCH. ALL CONCRETE FROM PIT SHALL BE REMOVED. PIT SHALL BE MONITORED & MAINTAINED BY CONTRACTOR TO ENSURE NO OVERFLOW OCCURS. CONTRACTOR MAY ADJUST LOCATION WITH OWNER'S PERMISSION.
5. INSTALL GRAVEL CONSTRUCTION ENTRANCE. — 10 C4.1 C6.1
6. INSTALL SLOPE MATTING IN SWALE. — 9 C4.1 C6.1
7. INSTALL BIOFILTER BAG CHECK DAMS AT 30' ON CENTER. — 7 C4.1 C6.1

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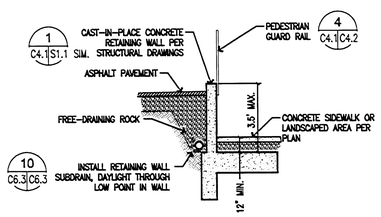
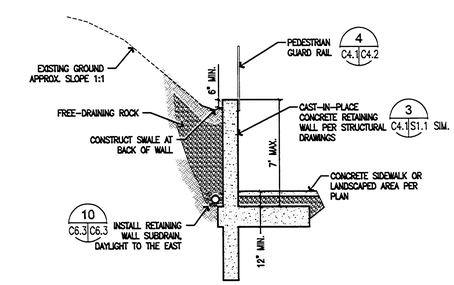
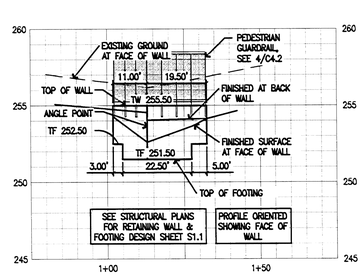


5 C4.1 C4.1 WESTERN LOT - WEST DRIVEWAY RETAINING WALL TYPICAL SECTION
SCALE: NONE

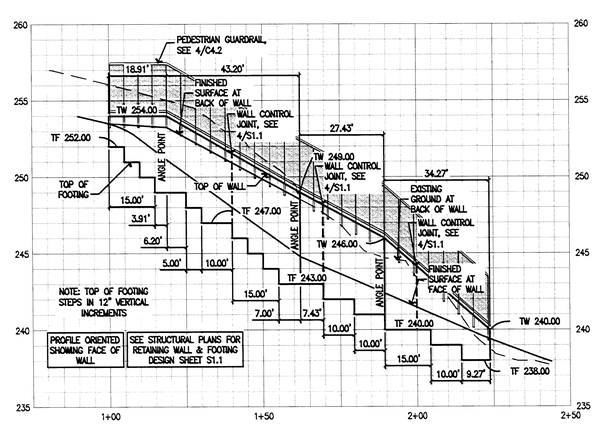


8 C4.1 C4.1 WESTERN LOT - EAST DRIVEWAY / SKYLINE BLVD. RETAINING WALL TYPICAL SECTION #2
SCALE: NONE

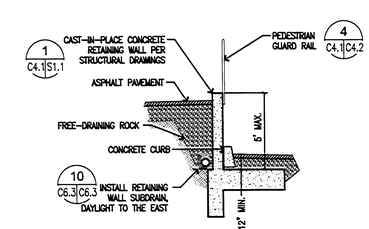
3 C4.1 C4.1 NOT USED
SCALE: NONE



4 C4.1 C4.1 WESTERN LOT - WEST DRIVEWAY RETAINING WALL PROFILE
SCALE: H: 1"=20'-0"; V: 1"=4'-0"



6 C4.1 C4.1 WESTERN LOT - EAST DRIVEWAY / SKYLINE BLVD. RETAINING WALL PROFILE
SCALE: H: 1"=20'-0"; V: 1"=4'-0"



7 C4.1 C4.1 WESTERN LOT - EAST DRIVEWAY / SKYLINE BLVD. RETAINING WALL TYPICAL SECTION #1
SCALE: NONE

2 C4.1 C4.1 NOT USED
SCALE: H: 1"=20'-0"; V: 1"=4'-0"

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0 1"

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MARK	DATE	DESCRIPTION
	10/30/2013	RECORD DRAWING

ISSUE

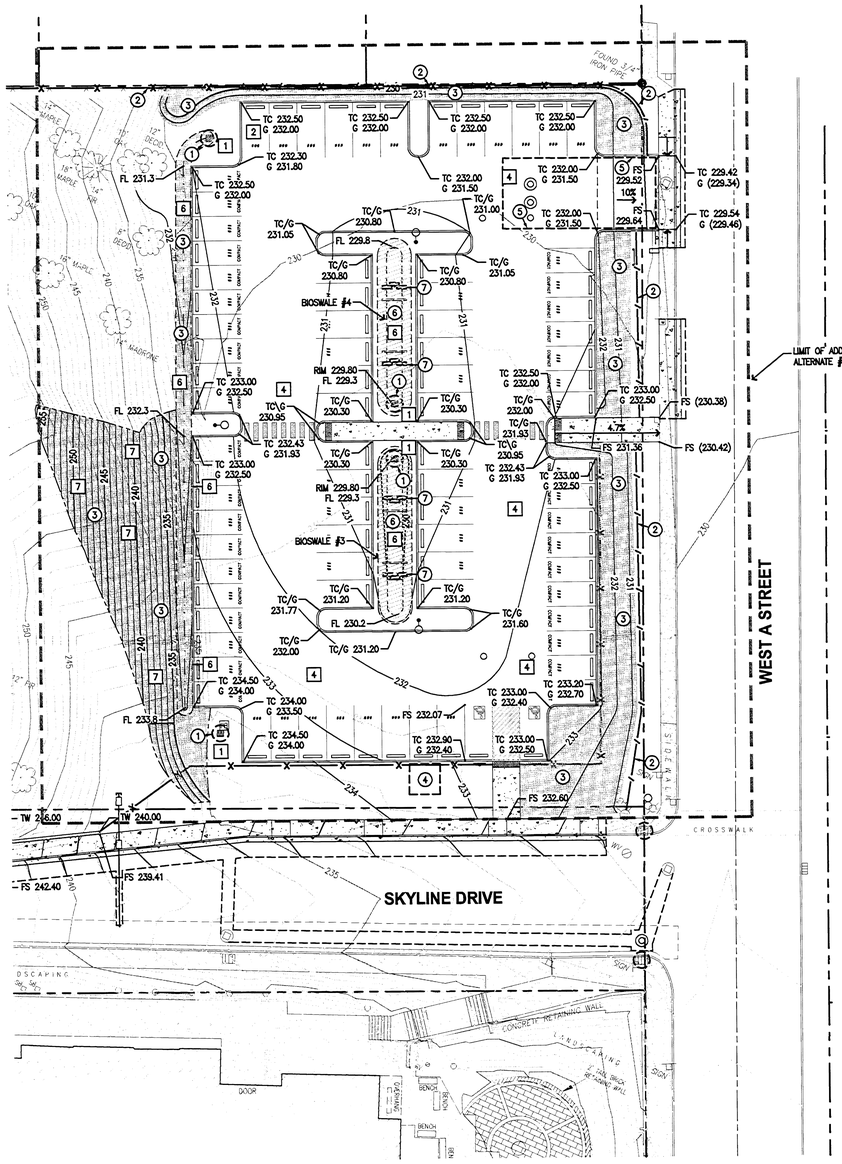
WEST LINN WILSONVILLE SCHOOL DISTRICT
WEST LINN HIGH SCHOOL
STUDENT PARKING LOT IMPROVEMENTS

GRADING AND EROSION CONTROL PLAN

PROJ NO: 11456-11009
DRWN: CHKD:

C4.1

SHEET OF



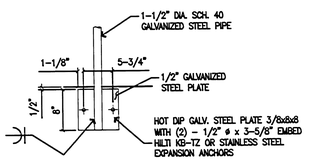
1 ADDITIVE ALTERNATE #1
C4.2 C4.2 GRADING AND EROSION CONTROL PLAN
SCALE: 1"=20'-0"

GRADING CONSTRUCTION NOTES

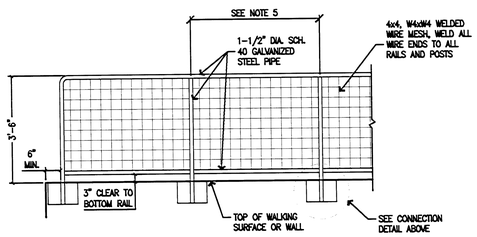
1. GRADE TO MAINTAIN POSITIVE DRAINAGE TOWARD ALL STORMWATER COLLECTION FACILITIES.
2. STRIP TOPSOIL AND PROVIDE EXCAVATION OR STRUCTURAL FILL AS NEEDED TO ACHIEVE REQUIRED SUBGRADE.
3. MATCH EXISTING PAVEMENT GRADES AT JOINTS BETWEEN NEW AND EXISTING PAVEMENTS.
4. PROVIDE EXCAVATION OR STRUCTURAL FILL AS NEEDED TO ACHIEVE REQUIRED SUBGRADE.
5. CONSTRUCT RETAINING WALL PER PROFILE AND SECTION ON THIS SHEET.
6. CONSTRUCT BIOSWALE. — 9 C4.2 C6.2
7. THE EXISTING MATERIAL IN THIS AREA CONSISTS OF LOOSELY COMPACTED COBBLES AND BOULDERS UP TO 3 FEET IN DIAMETER. SIGNIFICANT CAVING AND ROCK FALLS SHOULD BE EXPECTED DURING EXCAVATION.

EROSION CONTROL CONSTRUCTION NOTES

1. INSTALL INLET PROTECTION. — 1 C4.2 C6.1 / 8 C4.2 C6.1
2. INSTALL SEDIMENT FENCE. (TYPICAL) — 5 C4.2 C6.1
3. INSTALL COMPOST BLANKET AND PLANTINGS ON ALL BARE SLOPES DISTURBED BY CONSTRUCTION. FOR SEED MIXES AND PLANTINGS SEE LANDSCAPE DRAWINGS. — 2 C4.2 C6.1
4. INSTALL 10'x10'x1.5' DEEP CONCRETE WASHOUT AREA. ALL WATER COLLECTED THROUGH WASHOUT AREA IS CONSIDERED HAZARDOUS WASTE AND SHALL BE CAPTURED AND HANDLED AS SUCH. ALL CONCRETE FROM PIT SHALL BE REMOVED. PIT SHALL BE MONITORED & MAINTAINED BY CONTRACTOR TO ENSURE NO OVERFLOW OCCURS. CONTRACTOR MAY ADJUST LOCATION WITH OWNER'S PERMISSION.
5. INSTALL GRAVEL CONSTRUCTION ENTRANCE. — 10 C4.2 C6.1
6. INSTALL SLOPE MATTING IN SWALE. — 9 C4.2 C6.1
7. INSTALL BIOFILTER BAG CHECK DAMS AT 30' ON CENTER. — 7 C4.2 C6.1



CONNECTION DETAIL



NOTES

1. STRUCTURAL PIPES SHALL CONFORM TO ASTM A53, GRADE B (Fy=35 KSI) AND STRUCTURAL STEEL PLATES SHALL CONFORM TO ASTM A36.
2. STEEL SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH THE LATEST AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICE.
3. WELDING SHALL BE DONE BY CERTIFIED WELDERS. WELDING SHALL CONFORM TO THE LATEST EDITIONS OF APPLICABLE AWS WELDING CODES.
4. ALL STRUCTURAL STEEL COMPONENTS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
5. MAXIMUM SPACING OF POSTS SHALL BE 5 FEET ON STRAIGHT ALIGNMENTS AND 4 FEET ON CURVED ALIGNMENTS WITH LESS THAN A 30 FEET RADIUS. SPACING SHALL BE UNIFORM BETWEEN CHANGES IN ALIGNMENT.
6. ALL FIELD WELDS SHALL BE GROUND SMOOTH.
7. GALVANIZED COATING THAT HAS BEEN DAMAGED BY WELDING, CUTTING OR DRILLING SHALL BE REPAIRED WITH A COLD GALVANIZING COMPOUND IN ACCORDANCE WITH ASTM A780.
8. SPECIAL INSPECTION OF EXPANSION ANCHORS IS REQUIRED PER ICC ESR REPORT 1917.

4 PEDESTRIAN GUARD RAIL
C4.1 C4.2 C4.2 SCALE: NONE

3 NOT USED
C4.2 C4.2 SCALE: NONE

2 NOT USED
C4.2 C4.2 SCALE: H: 1"=20'-0"; V: 1"=4'-0"

GENERAL NOTE
ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE CITY OF WEST LINN PUBLIC WORKS STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS.

1" = 20'-0" 20' 0 20' 40' 60'

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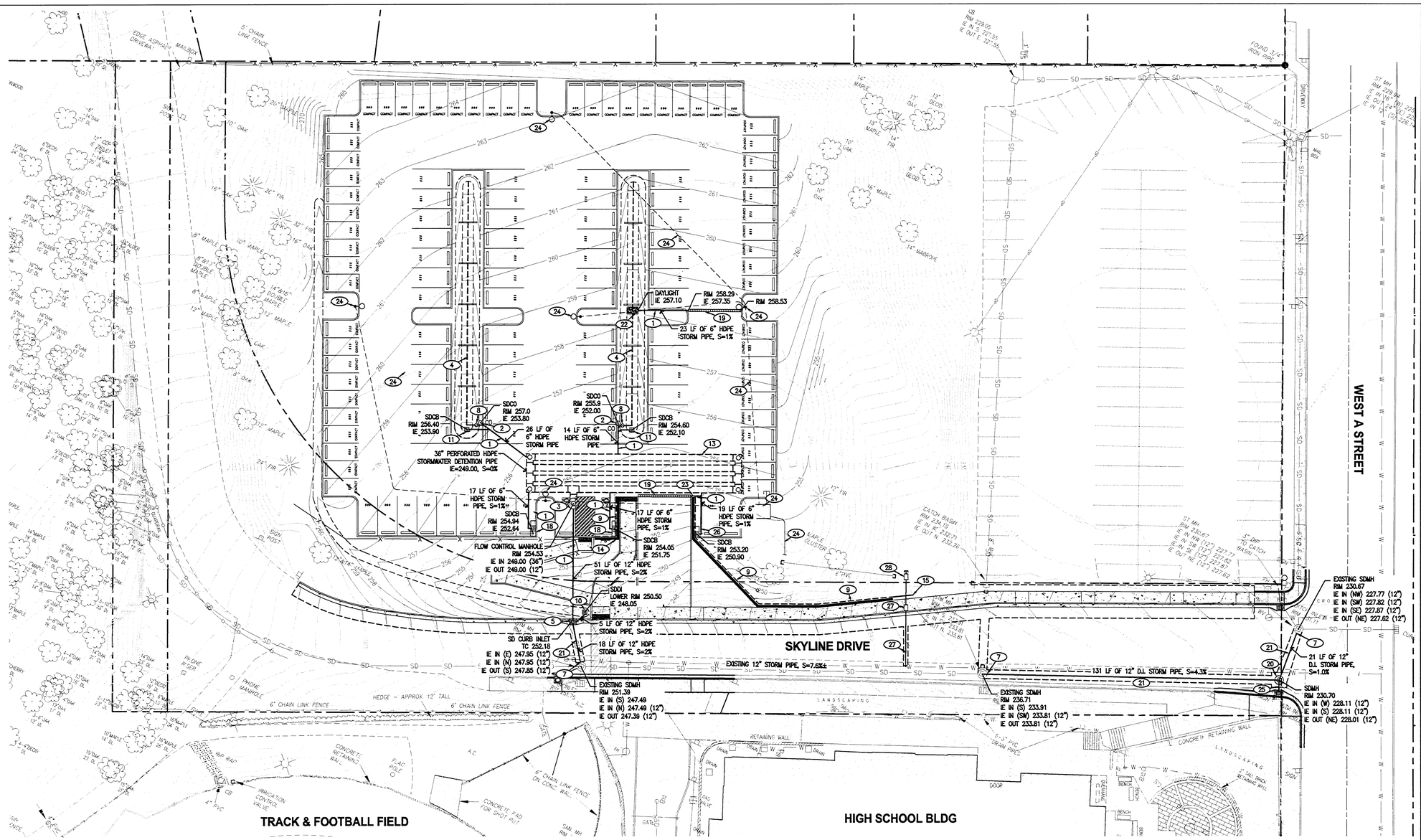
WEST LINN HIGH SCHOOL
STUDENT PARKING LOT IMPROVEMENTS

GRADING AND EROSION CONTROL PLAN

PROJ NO: 11456-11009
DRWN: CHKD:

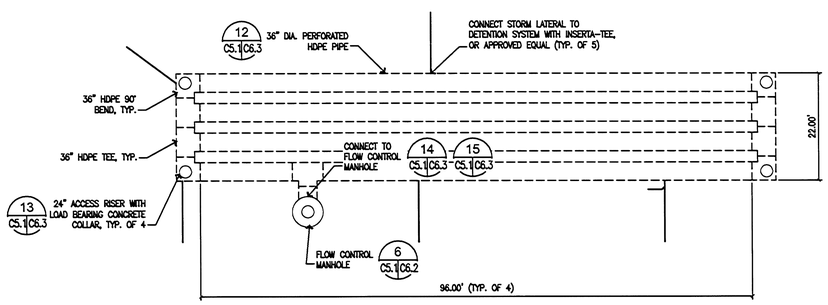
C4.2

SHEET OF

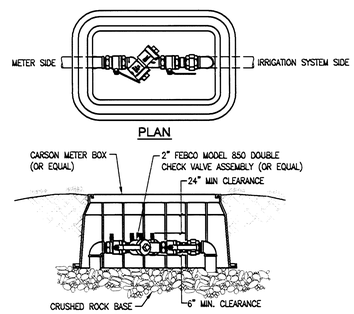


N

1 C5.1|C5.1 UTILITY PLAN
SCALE: 1"=20'-0"



2 C5.1|C5.1 WESTERN LOT PIPE DETENTION SYSTEM
SCALE: 1"=10'-0"



3 C5.1|C5.1 2" DOUBLE CHECK ASSEMBLY
SCALE: NONE

UTILITY CONSTRUCTION NOTES

1. INSTALL PVC STORM DRAIN PIPE – SIZE PER PLAN. — 15 C5.1|C6.2
2. INSTALL STANDARD CLEANOUT. — 11 C5.1|C6.2
3. INSTALL FLOW CONTROL MANHOLE. — 7 C5.1|C6.2
4. INSTALL PERFORATED PIPE SUBDRAIN IN BIOSWALE. CONNECT TO STORM DRAIN SYSTEM. — 9 C5.1|C6.2
5. INSTALL CATCH BASIN PER CITY OF WEST LINN STANDARDS.
6. INSTALL STANDARD 48" DIA. MANHOLE. — 2 C5.1|C6.2
7. CONNECT TO EXISTING SYSTEM. CONTRACTOR TO CONFIRM TIE-IN ELEVATION OF EXISTING SYSTEM PRIOR TO CONSTRUCTION.
8. PROVIDE 4" PVC SOLID WALL CONNECTION FROM BIOSWALE SUBDRAIN TO STORM DRAIN. INSTALL BACKWATER VALVE IN LANDSCAPE AREA. — 13 C5.1|C6.2
9. INSTALL RETAINING WALL SUBDRAIN. — 10 C5.1|C6.3
10. INSTALL CONCRETE DITCH INLET AND CONNECT TO STORM SYSTEM WITH 6" PVC PIPE. — 8 C5.1|C6.2
11. INSTALL 24" METAL CATCH BASIN. — 10 C5.1|C6.2
12. INSTALL 24" HDPE PIPE DETENTION SYSTEM. — 2 C5.1|C5.2
13. INSTALL 36" HDPE PIPE DETENTION SYSTEM. — 2 C5.1|C5.1
14. DAYLIGHT WALL DRAIN THROUGH WALL.
15. DAYLIGHT WALL DRAIN.
16. CONNECT WALL DRAIN TO STORM SYSTEM WITH SOLID WALL PVC STORM PIPE.
17. CONNECT TO EXISTING STORM PIPE AND INSTALL NEW 4" PVC STORM PIPE TO CONNECT TO NEW STORM SYSTEM. SLOPE TO BE 1% MINIMUM.
18. INSTALL SINGLE (PER ENGINEER DIRECTIVE) CARTRIDGE FILTER CATCH BASIN. — 5 C5.1|C6.5
19. INSTALL TRENCH DRAIN. — 16 C5.1|C6.2
20. INSTALL MANHOLE PER CITY OF WEST LINN STANDARDS. — 2 C5.1|C6.5
21. INSTALL PIPE PER CITY OF WEST LINN STANDARDS. — 1 C5.1|C6.5
22. DAYLIGHT STORM PIPE AND INSTALL ROCK PAD. — 14 C5.1|C6.2
23. CONNECT TRENCH DRAIN TO STORM SYSTEM.
24. SEE ELECTRICAL PLANS FOR CONSTRUCTION INFORMATION.
25. CONNECT EXISTING CATCH BASIN TO NEW MANHOLE WITH 12" D.I. STORM PIPE, SLOPE = 1% MINIMUM.
26. INSTALL SINGLE CARTRIDGE FILTER CATCH BASIN. — 6 C5.1|C6.5
27. CITY OF WEST LINN TO INSTALL 2" WATER SERVICE, METER AND BOX. TRENCH BACKFILL MATERIAL (AS DEFINED ON CITY OF WEST LINN STANDARD DRAWING WL-200) SHALL CONSIST OF CLASS B MATERIAL UNDER ALL PAVED SURFACES, AND CLASS A MATERIAL UNDER LANDSCAPED AREAS. — 7 C5.1|C6.5
28. INSTALL 2" DOUBLE CHECK ASSEMBLY. SEE LANDSCAPE PLANS FOR CONTINUATION. — 3 C5.1|C5.1

GENERAL NOTE
EXPECT TO ENCOUNTER SOLID BASALT ROCK AND/OR LARGE BOULDERS FOR EXCAVATIONS THAT EXCEED 2 FEET BELOW THE EXISTING SURFACE.

GENERAL NOTE
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1" = 20'-0" 20' 0 20' 40' 60'

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MARK	DATE	DESCRIPTION	ISSUE
PR-01	05/09/2013	PROPOSAL REQUEST #1	
	10/30/2013	RECORD DRAWING	

WEST LINN WILSONVILLE SCHOOL DISTRICT
WEST LINN HIGH SCHOOL
STUDENT PARKING LOT IMPROVEMENTS
UTILITY PLAN

PROJ NO: 11456-11009
DRWN: CHKD:

C5.1

SHEET OF

UTILITY CONSTRUCTION NOTES

1. INSTALL PVC STORM DRAIN PIPE – SIZE PER PLAN. — 15 / C5.2 C6.2
2. INSTALL STANDARD CLEANOUT. — 11 / C5.2 C6.2
3. INSTALL FLOW CONTROL MANHOLE. — 7 / C5.2 C6.2
4. INSTALL PERFORATED PIPE SUBDRAIN IN BIOSWALE. CONNECT TO STORM DRAIN SYSTEM. — 9 / C5.2 C6.2
5. INSTALL CATCH BASIN PER CITY OF WEST LINN STANDARDS.
6. INSTALL STANDARD 48" DIA. MANHOLE. — 2 / C5.2 C6.2
7. CONNECT TO EXISTING SYSTEM. CONTRACTOR TO CONFIRM TIE-IN ELEVATION OF EXISTING SYSTEM PRIOR TO CONSTRUCTION.
8. PROVIDE 6" PVC SOLID WALL CONNECTION FROM BIOSWALE SUBDRAIN TO STORM DRAIN. INSTALL BACKWATER VALVE IN LANDSCAPE AREA. — 13 / C5.2 C6.2
9. INSTALL RETAINING WALL SUBDRAIN. — 10 / C5.2 C6.3
10. INSTALL CONCRETE DITCH INLET AND CONNECT TO STORM SYSTEM WITH 6" PVC PIPE. — 8 / C5.1 C6.2
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15. DAYLIGHT WALL DRAIN.
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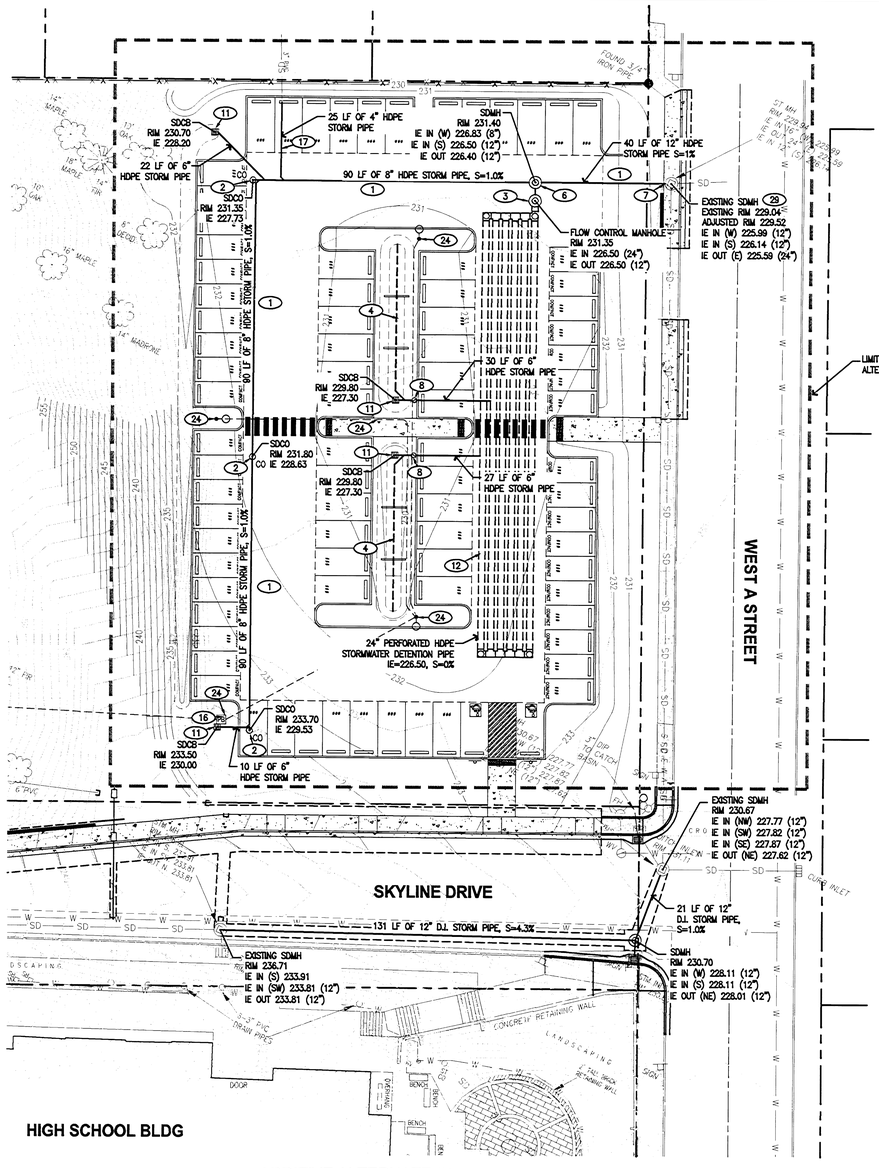
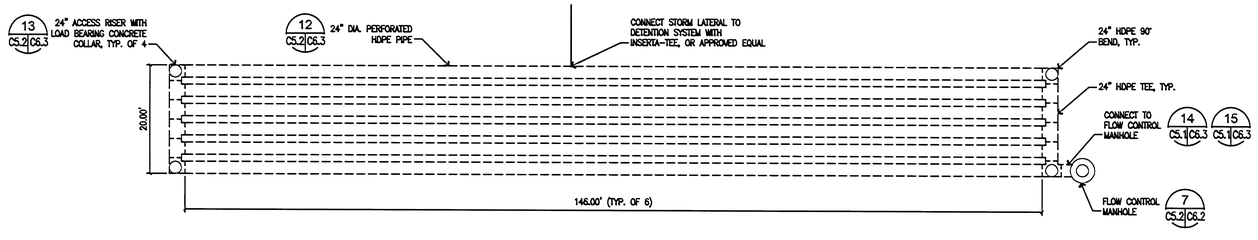
17. CONNECT TO EXISTING STORM PIPE AND INSTALL NEW 4" PVC STORM PIPE TO CONNECT TO NEW STORM SYSTEM. SLOPE TO BE 1% MINIMUM.
18. INSTALL DOUBLE CARTRIDGE FILTER CATCH BASIN. — 5 / C5.1 C6.5
19. INSTALL TRENCH DRAIN. — 16 / C5.1 C6.2
20. INSTALL MANHOLE PER CITY OF WEST LINN STANDARDS. — 2 / C5.1 C6.5
21. INSTALL PIPE PER CITY OF WEST LINN STANDARDS. — 1 / C5.1 C6.5
22. DAYLIGHT STORM PIPE AND INSTALL ROCK PAD. — 14 / C5.1 C6.2
23. CONNECT TRENCH DRAIN TO STORM SYSTEM.
24. SEE ELECTRICAL PLANS FOR CONSTRUCTION INFORMATION.
25. CONNECT EXISTING CATCH BASIN TO NEW MANHOLE WITH 12" HDPE STORM PIPE, SLOPE = 1% MINIMUM.
26. INSTALL SINGLE CARTRIDGE FILTER CATCH BASIN. — 6 / C5.1 C6.5
27. INSTALL 2" WATER SERVICE, METER AND BOX. TRENCH BACKFILL MATERIAL (AS DEFINED ON CITY OF WEST LINN STANDARD DRAWING WL-200) SHALL CONSIST OF CLASS B MATERIAL UNDER ALL PAVED SURFACES, AND CLASS A MATERIAL UNDER LANDSCAPED AREAS. — 7 / C5.1 C6.5
28. INSTALL 2" DOUBLE CHECK ASSEMBLY. SEE LANDSCAPE PLANS FOR CONTINUATION. — 3 / C5.1 C5.1
29. ADJUST MANHOLE RIM. COORDINATE METHOD WITH THE CITY OF WEST LINN.



1 / C5.2 C5.2 ADDITIVE ALTERNATE #1 UTILITY PLAN
SCALE: 1"=20'-0"



2 / C5.2 C5.2 EASTERN LOT PIPE DETENTION SYSTEM
SCALE: 1"=10'-0"

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RFI #6	07/01/2013	REQUEST FOR INFORMATION #6
PR-01	05/09/2013	PROPOSAL REQUEST #1
	10/30/2013	RECORD DRAWING

ISSUE

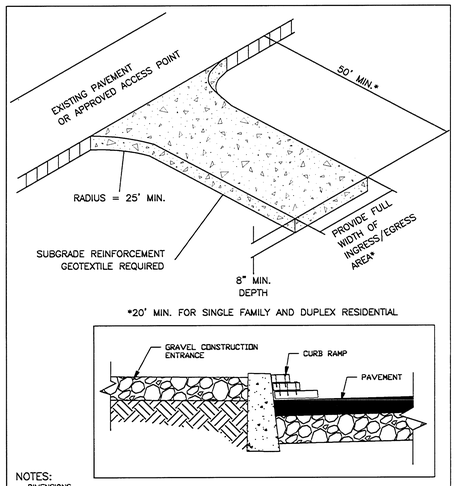
WEST LINN WILSONVILLE SCHOOL DISTRICT
WEST LINN HIGH SCHOOL
STUDENT PARKING LOT IMPROVEMENTS

UTILITY PLAN

PROJ NO: 11456-11009
DRWN: CHKD:

C5.2

SHEET OF

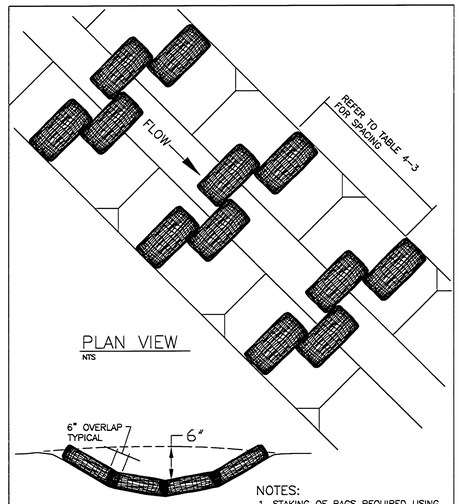


NOTES:
DIMENSIONS
SINGLE FAMILY
20' LONG BY 20' WIDE
8" DEEP OF ¾" MINUS CLEAN ROCK.
COMMERCIAL
50' LONG BY 20' WIDE
3-6" CLEAN ROCK,
GOVERNING AUTHORITY MAY REQUIRE GEOTEXTILE FABRIC TO PREVENT SUB-SOIL PUMPING.

CONSTRUCTION ENTRANCE	DETAIL DRAWING 4-5

Page 4-43

10 C4.1 C6.1 C4.2 **CONSTRUCTION ENTRANCE**
SCALE: NONE

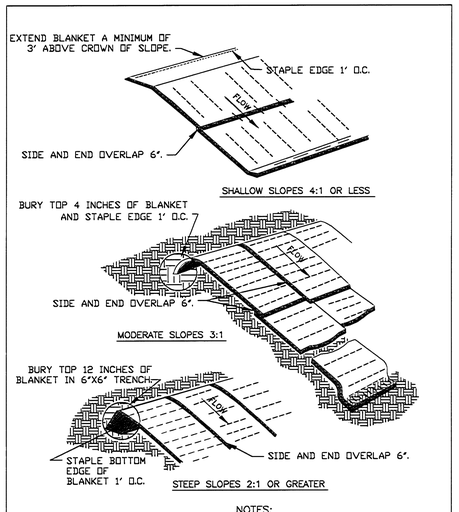


NOTES:
1. STAKING OF BAGS REQUIRED USING (2) 1"x2" WOOD STAKES OR APPROVED EQUAL PER BAG.
2. SURFACE MUST BE SMOOTH BEFORE APPLICATION.

CHECK DAM BIO FILTER BAG	DETAIL DRAWING 4-14

Page 4-70

7 C4.1 C6.1 C4.2 **CHECK DAM BIOFILTER BAG**
SCALE: NONE

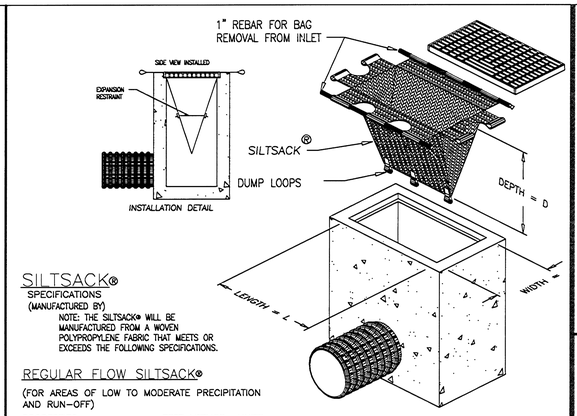


NOTES:
1. ON SHALLOW SLOPES BLANKETS MAY BE APPLIED ACROSS THE SLOPE.
2. ALL BLANKET STAPLE REQUIRED AS PER TABLE. USE 12" LONG STAPLES.

MATTING SLOPE INSTALLATION	Detail Drawing 4-1

Page 4-29

4 C4.1 C6.1 C4.2 **MATTING SLOPE INSTALLATION**
SCALE: NONE

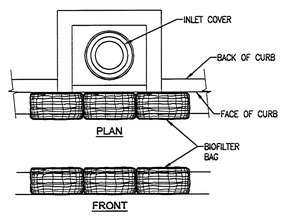


SILTSACK®
SPECIFICATIONS
(MANUFACTURED BY)
NOTE: THE SILTSACK® WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

REGULAR FLOW SILTSACK®
(FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

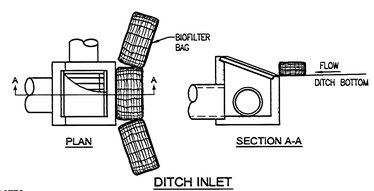
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC -1

1 C4.1 C6.1 C4.2 **AREA DRAIN INLET PROTECTION**
SCALE: NONE



NOTES:
1. ENSURE THAT NO GAPS EXIST BETWEEN BAGS AND 1/2 BAG OVERLAP OF OPENING.

CURB INLET



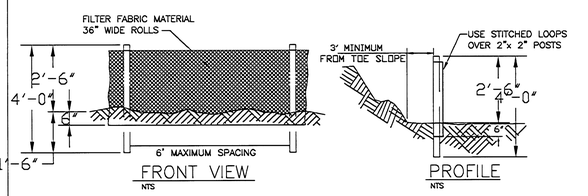
DITCH INLET

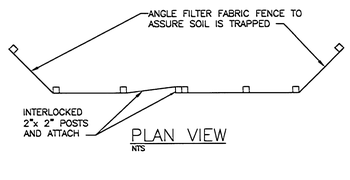
NOTES:
1. DRIVE STAKES FLUSH WITH TOP OF BAG AND INTO UNDISTURBED GROUND A MIN. OF 12" STAKE MAY BE OMITTED IF BAGS ARE PLACED ON PAVED SURFACE.
2. INSPECT INLET PROTECTION ON A REGULAR BASIS BIOBAGS SHALL BE REPLACED ONCE THEY BECOME CLOGGED.
3. REPAIR ANY DAMAGED BALES, AREAS OF END RUNS, AND UNDERCUTTING BENEATH BALES. REPAIRS TO BALES OR BARRIERS SHALL BE MADE AS SOON AS POSSIBLE.
4. REMOVE SEDIMENT DEPOSITS WHEN THEY REACH APPROXIMATELY ONE THIRD THE HEIGHT OF THE BARRIER.
5. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE AND SEEDED.

8 C4.1 C6.1 C4.2 **INLET PROTECTION FOR DITCH AND CURB INLETS**
SCALE: NONE

SEDIMENT FENCE

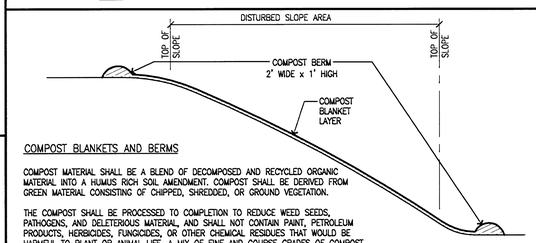
Detail Drawing 4-16





NOTES:
1. BURY BOTTOM OF FILTER FABRIC 6" VERTICALLY BELOW FINISHED GRADE.
2. 2"x 2" FIR, PINE OR STEEL FENCE POSTS.
3. POSTS TO BE INSTALLED ON UPHILL SIDE OF SLOPE.
4. COMPACT BOTH SIDES OF FILTER FABRIC TRENCH.
5. PANELS MUST BE PLACED ACCORDING TO SPACING TABLE 4-7.

5 C4.1 C6.1 C4.2 **SEDIMENT FENCE**
SCALE: NONE



COMPOST BLANKETS AND BERMS

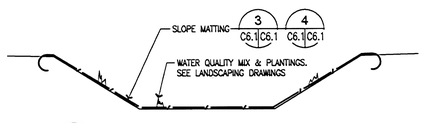
COMPOST MATERIAL SHALL BE A BLEND OF DECOMPOSED AND RECYCLED ORGANIC MATERIAL INTO A HUMUS RICH SOIL AMENDMENT. COMPOST SHALL BE DERIVED FROM GREEN MATERIAL CONSISTING OF CHIPPED, SHREDDED, OR GROUND VEGETATION.

THE COMPOST SHALL BE PROCESSED TO COMPLETION TO REDUCE WEED SEEDS, PATHOGENS, AND DELETERIOUS MATERIAL, AND SHALL NOT CONTAIN PAINT, PETROLEUM PRODUCTS, HERBICIDES, FUNGICIDES, OR OTHER CHEMICAL RESIDUES THAT WOULD BE HARMFUL TO PLANT OR ANIMAL LIFE. A MIX OF FINE AND COURSE GRADES OF COMPOST SHALL BE USED. SPECIFIC SPECIFICATIONS APPEAR IN THE TABLE BELOW.

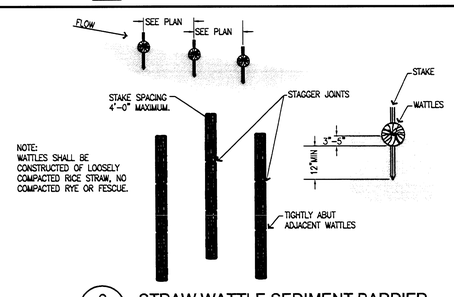
UPPER BERM SHALL BE LOCATED AT OR ABOVE THE CREST OF THE SLOPE. LOWER BERM SHALL BE LOCATED AT OR BELOW TOE OF SLOPE.

PROPERTY	COMPOST BLANKET	COMPOST BERM
FINE PARTICLE SIZE/CONTENT	3/8-1/2 INCH SCREEN / 33%	3/8-1/2 INCH / 50%
COURSE PARTICLE SIZE/CONTENT	3/4" MINUS	3/4" MINUS
MOISTURE CONTENT	20-35%	20-35%
SOLUBLE SALT	4.0-5.0 MMHOS/CM	4.0-5.0 MMHOS/CM
ORGANIC MATTER	40-70%	40-70%
pH	6.0-8.0	6.0-8.0
HUMAN MADE INERTS	1.0% MAX	1.0% MAX
APPLICATION	2"-3" DEPTH	12" HIGH x 2' WIDE
STABLE/MATURITY	YES/HIGH	YES/HIGH

2 C4.1 C6.1 C4.2 **COMPOST BLANKET**
SCALE: NONE



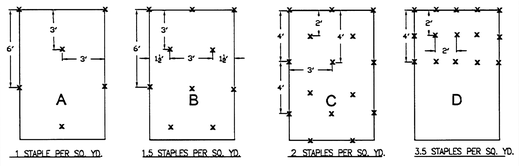
9 C4.1 C6.1 C4.2 **EROSION CONTROL BLANKET**
SCALE: NONE



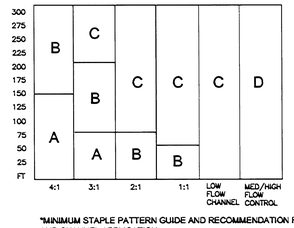
NOTE:
WATTLES SHALL BE CONSTRUCTED OF LOOSELY COMPACTED RICE STRAW, NO COMPACTED RYE OR FESCUE.

6 C4.1 C6.1 C4.2 **STRAW WATTLE SEDIMENT BARRIER**
SCALE: NONE

STAPLE PATTERN



LENGTH AND SLOPE TABLE



*MINIMUM STAPLE PATTERN GUIDE AND RECOMMENDATION FOR SLOPE AND CHANNEL APPLICATION.

STAPLE TABLE	DETAIL DRAWING 4-3

Page 4-31

3 C4.1 C6.1 C4.2 **MATTING SLOPE STAPLE PATTERN**
SCALE: NONE

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BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

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MARK	DATE	DESCRIPTION	ISSUE
	10/30/2013	RECORD DRAWING	

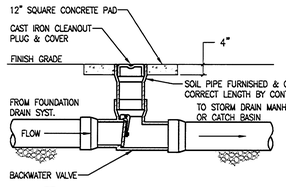
WEST LINN WILSONVILLE SCHOOL DISTRICT
WEST LINN HIGH SCHOOL
STUDENT PARKING LOT IMPROVEMENTS

CIVIL DETAILS

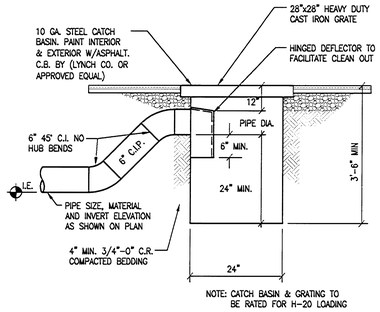
PROJ NO: 11456-11009
DRWN: CHKD:

C6.1

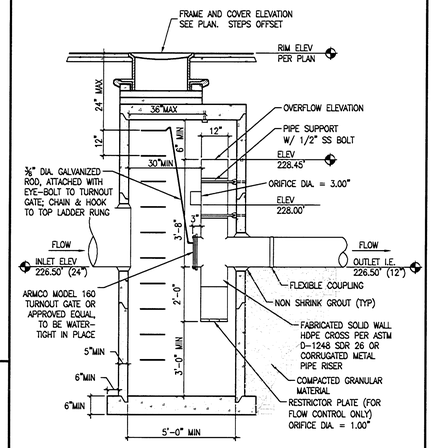
SHEET OF



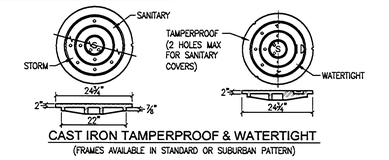
13 BACKWATER VALVE
C5.1 C6.2 SCALE: NONE
C5.2



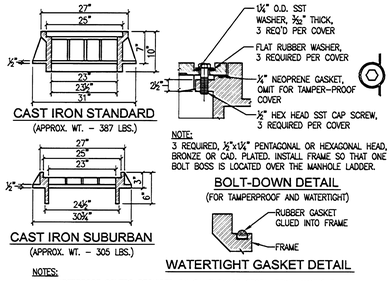
10 METAL CATCH BASIN
C5.1 C6.2 SCALE: NONE
C5.2



7 FLOW CONTROL MANHOLE - EASTERN LOT
C5.2 C6.2 SCALE: NONE



CAST IRON TAMPERPROOF & WATERTIGHT
(FRAMES AVAILABLE IN STANDARD OR SUBURBAN PATTERN)



CAST IRON STANDARD
(APPROX. WT. - 387 LBS.)

CAST IRON SUBURBAN
(APPROX. WT. - 305 LBS.)

NOTE:
3 REQUIRED, ¼"x1¼" PENTAGONAL OR HEXAGONAL HEAD, BRONZE OR CAD. PLATED. INSTALL FRAME SO THAT ONE BOLT BOSS IS LOCATED OVER THE MANHOLE LADDER.

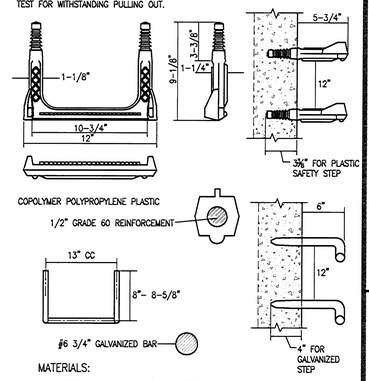
BOLT-DOWN DETAIL
(FOR TAMPERPROOF AND WATERTIGHT)

WATERTIGHT GASKET DETAIL

NOTES:
1. TAMPERPROOF COVERS REQUIRED ON SANITARY OR STORM DRAIN MANHOLE WHERE LOCATED IN PEDESTRIAN WAYS OR EASEMENT AREAS. TAMPERPROOF COVERS FOR SANITARY MANHOLES SHALL HAVE 2 HOLES MAXIMUM.
2. WATERTIGHT COVERS REQUIRED IF LOCATED WHERE COVER MAY BE SUBMERGED.
3. FRAMES AND COVERS SHALL BE STAMPED WITH MANUFACTURER'S INITIALS, HEAT NUMBER AND POINT OF ORIGIN.

4 MANHOLE COVER & FRAME DETAIL
C6.2 C6.2 SCALE: NONE

NOTE:
MANHOLE STEPS MUST BE TIGHT AND FIRMLY EMBEDDED. THEY MUST ALSO MEET THE ASTM TEST FOR WITHSTANDING PULLING OUT.

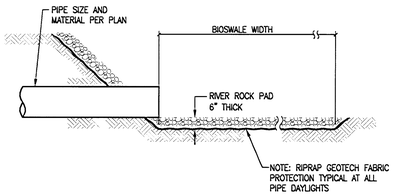


MATERIALS:

GALVANIZED: #6 (3/4" DIA.) GALVANIZED DEFORMED REINFORCING BAR. REINFORCING BAR CONFORMING WITH ASTM A-615 GRADE 40. GALVANIZED CONFORMING WITH ASTM A-123.

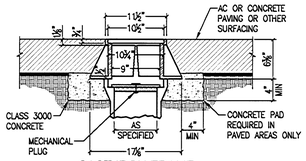
PLASTIC: MUST CONFORM WITH ASTM C-478. STEEL REINFORCING BAR MINIMUM 1/2" GRADE 60. MEETING REQUIREMENTS OF ASTM A615 ENCAPSULATED WITH INJECTION MOLDED COPOLYMER POLYPROPYLENE WITH SERRATED SURFACES.

1 MANHOLE STEP DETAIL
C6.2 C6.2 SCALE: NONE

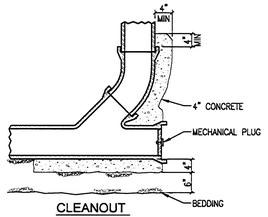


14 STORM PIPE DAYLIGHT
C5.1 C6.2 SCALE: NONE

CAST IRON COVER



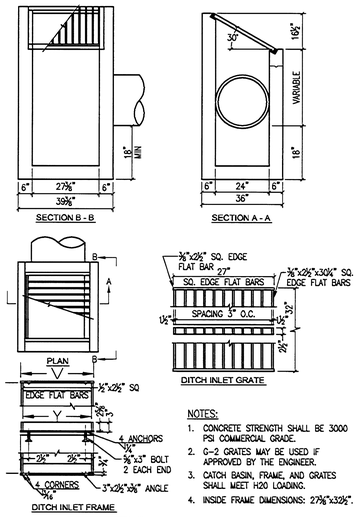
CAST IRON FRAME



CLEANOUT

NOTE:
ALL CLEANOUT MATERIAL TO BE SAME AS CARRIER PIPE.

11 TYPICAL CLEANOUT
C5.1 C6.2 SCALE: NONE
C5.2

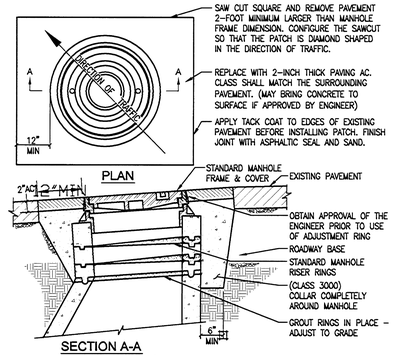


INLET TYPE	V	Y	Y1	NUMBER OF BARS	TYPE
D	2'-4¾"	2'-3"	2'-3"	9	1

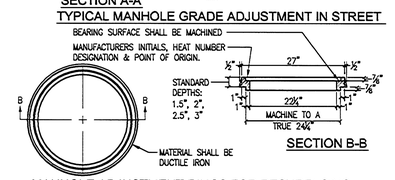
NOTES:
1. CONCRETE STRENGTH SHALL BE 3000 PSI COMMERCIAL GRADE.
2. G-2 GRATES MAY BE USED IF APPROVED BY THE ENGINEER.
3. CATCH BASIN, FRAME, AND GRATES SHALL MEET H20 LOADING.
4. INSIDE FRAME DIMENSIONS: 27⅜"x32⅜".

NOTE:
⅜" CROSS BARS SHALL BE FLUSH WITH THE GRATE SURFACE AND MAY BE FILLET WELDED, RESISTANCE WELDED OR ELECTROFORGED TO BEARING BARS.

8 DITCH INLET DETAIL
C5.1 C6.2 SCALE: NONE



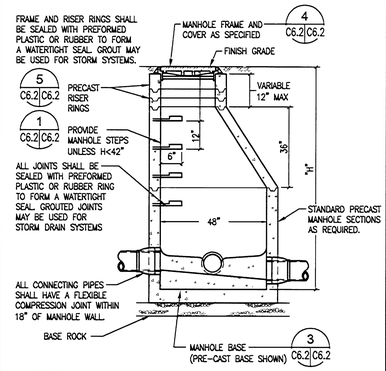
TYPICAL MANHOLE GRADE ADJUSTMENT IN STREET



MANHOLE ADJUSTMENT RINGS FOR RESURFACING

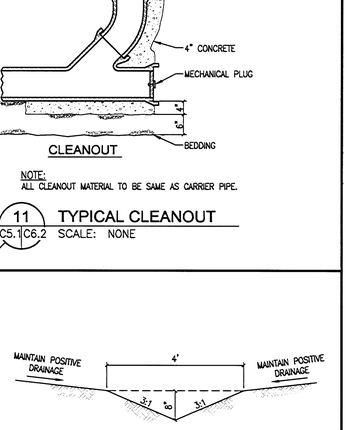
NOTE:
THE DISTANCE FROM THE TOP OF THE FRAME TO THE TOP OF THE CONE SHALL NOT EXCEED 18".

5 MANHOLE ADJUSTMENT DETAIL
C6.2 C6.2 SCALE: NONE

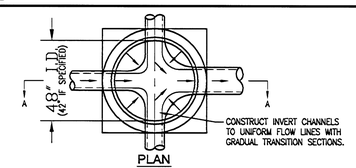


NOTES:
1. STANDARD PRECAST MANHOLE SECTION DIAMETER SHALL BE 48". MAX PIPE SIZE SHALL BE 24".
2. ALL CONNECTING PIPES SHALL HAVE A FLEXIBLE COMPRESSION JOINT WITHIN 18" OF MANHOLE WALL PER UNIFORM PLUMBING CODE.
3. SEE MANHOLE BASE SECTION DRAWING FOR BASE DETAILS.
4. ALL PRECAST SECTIONS SHALL CONFORM TO REQUIREMENTS OF ASTM C-478M.

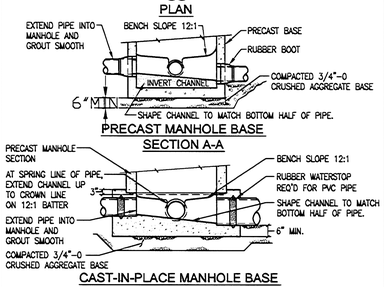
2 MANHOLE DETAIL
C5.1 C6.2 SCALE: NONE
C5.2



12 EARTH SWALE
C4.1 C6.2 SCALE: NONE



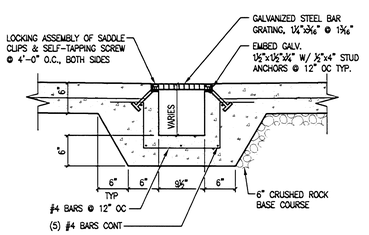
PLAN



CAST-IN-PLACE MANHOLE BASE
SECTION A-A

NOTES:
1. CONCRETE SHALL BE CLASS 3000 COMMERCIAL GRADE.
2. CHANNELS SHALL BE CONSTRUCTED TO PROVIDE SMOOTH SLOPES AND RADII TO OUTLET PIPE.
3. BASES MAY BE PRECAST OR POURED IN PLACE.
4. THIS MANHOLE BASE SECTION SHALL BE USED FOR PIPE SIZES UP TO 24".
5. USE RUBBER BOOTS IF PIPE IS FLEXIBLE. BOOTS MAY BE KOR-N-SEAL OR EQUIVALENT.
6. ALL CONNECTING PIPES SHALL HAVE A FLEXIBLE COMPRESSION JOINT WITHIN 18" OF MANHOLE WALL.

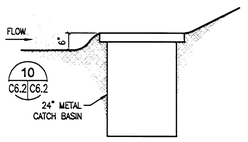
3 48" MANHOLE BASE SECTION DETAIL
C6.2 C6.2 SCALE: NONE



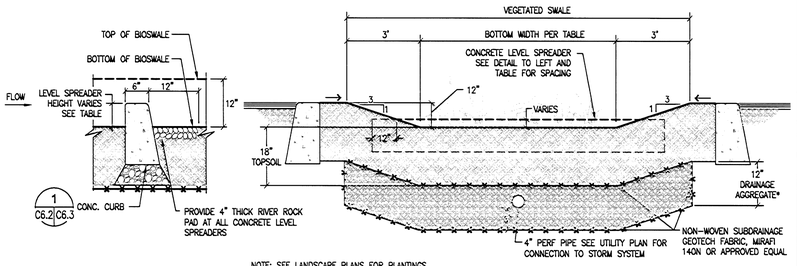
16 TRENCH DRAIN
C5.1 C6.2 SCALE: NONE

BIOSWALE PARAMETER TABLE

NAME	LOCATION	BOTTOM WIDTH	BOTTOM LENGTH	LONGITUDINAL SLOPE	LEVEL SPREADER HEIGHT	LEVEL SPREADER SPACING	NO. OF LEVEL SPREADERS
BIOSWALE #1	WESTERN PARKING LOT	5'	114'	4.7%	6"	19'	5
BIOSWALE #2	WESTERN PARKING LOT	5'	114'	5.4%	6"	19'	5
BIOSWALE #3	EASTERN PARKING LOT	5'	52'	1.7%	6"	17'	2
BIOSWALE #4	EASTERN PARKING LOT	5'	52'	1.0%	6"	17'	2



CATCH BASIN PLACEMENT



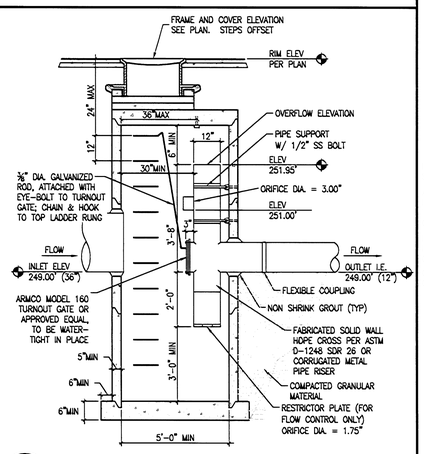
CONCRETE LEVEL SPREADER

NOTE: SEE LANDSCAPE PLANS FOR PLANTINGS

TYPICAL CROSS-SECTION

*DRAINAGE AGGREGATE MATERIAL: ¾ OR ⅜ TO ¼ INCH, CLEAN WASHED MEDIUM SIZED DRAIN GRAVEL WITH LESS THAN 5% PASSING THROUGH A #200 SIEVE

9 BIOSWALE DETAIL
C4.1 C6.2 SCALE: NONE
C4.2



6 FLOW CONTROL MANHOLE - WESTERN LOT
C5.1 C6.2 SCALE: NONE

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MARK	DATE	DESCRIPTION	ISSUE
	10/30/2013	RECORD DRAWING	

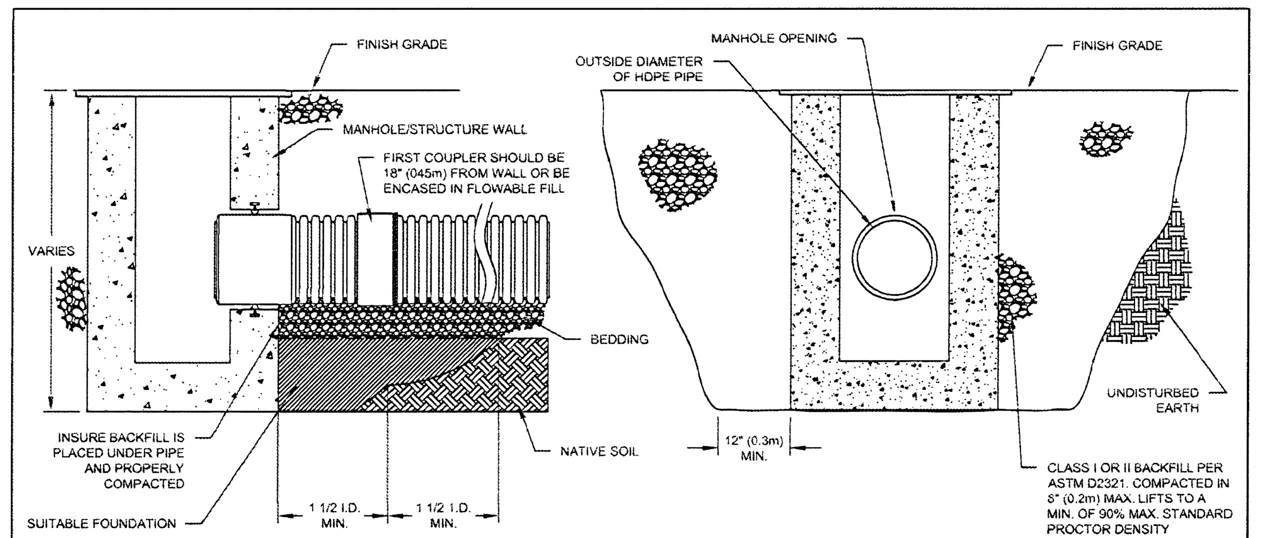
WEST LINN WILSONVILLE SCHOOL DISTRICT
WEST LINN HIGH SCHOOL
STUDENT PARKING LOT IMPROVEMENTS

CIVIL DETAILS

PROJ NO: 11456-11009
DRWN: CHKD:

C6.2

SHEET OF



NOTES:

1. MAXIMUM INSERTION ANGLE SHALL NOT EXCEED REQUIREMENTS AS SPECIFIED BY THE MANUFACTURER.

2. SEE STANDARD DETAILS STD-202 (A-B) THROUGH STD-204 (A-E) FOR STRUCTURE CONNECTIONS, PRODUCT INFORMATION AND DIMENSIONAL PIPE DATA. INSTALLATION RECOMMENDATIONS ARE ALSO SPECIFIED IN TECHNICAL NOTE 5.04: HDPE CONNECTIONS TO MANHOLES AND STRUCTURES.

3. PERFORMANCE HIGHLY DEPENDENT ON INSTALLATION. CONTRACTOR MUST INSURE MANHOLE GASKET IS UNIFORMLY SEATED AROUND STRUCTURE ADAPTER. EXTRA PRECAUTIONSMUST BE TAKEN TO PREVENT DIFFERENTIAL SETTLEMENT BETWEEN THE PIPE AND MANHOLE.

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REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D
1	UPDATED DRAWING	TJR	02/20/07	CKS

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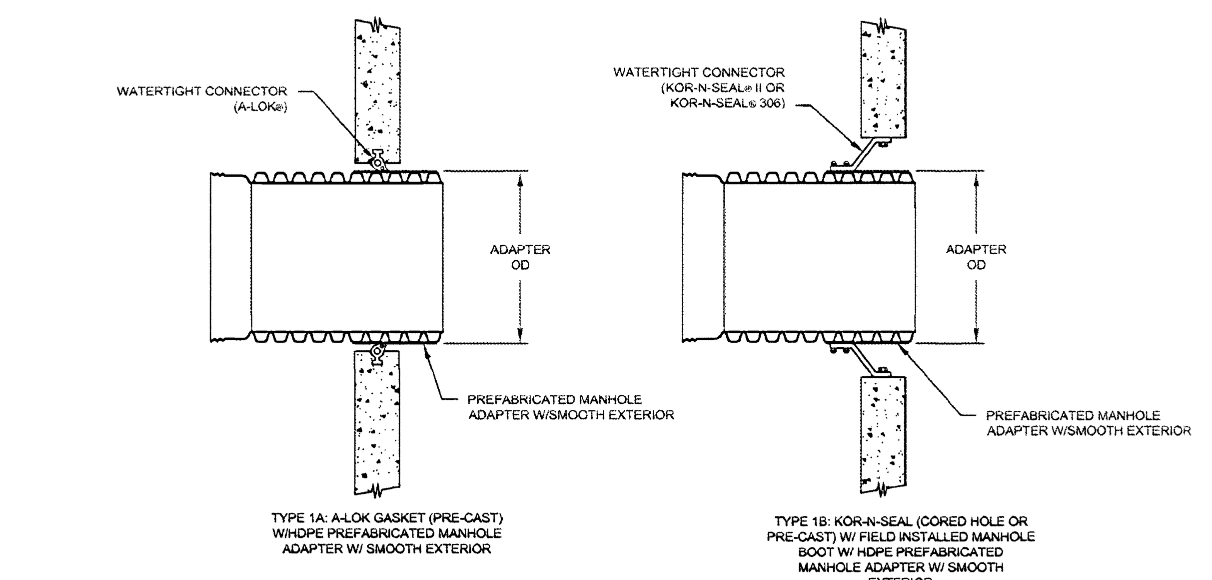
STRUCTURE CONNECTION INSTALLATION DETAIL
DRAWING NUMBER: STD-201
ADS — 4640 TRUEMAN BLVD HILLIARD, OHIO 43026 — ADVANCED DRAINAGE SYSTEMS, INC.
CKS 10/10/06 NTS 1 OF 1

14 DETENTION SYSTEM CONNECTION TO MANHOLE #1

C5.1 | C6.3 — C5.2
SCALE: NONE



SEE STANDARD DETAIL STD-201 AND TECHNICAL NOTE: 5.04 HDPE CONNECTIONS TO MANHOLES AND STRUCTURES FOR INSTALLATION RECOMMENDATIONS.

PIPE SIZE	ADAPTER OD (IN)		ADS PRODUCT CODES		KOR-N-SEAL® **		A-LOK RING® **	
(IN)	A-PROFILE	H-PROFILE	A-PROFILE	H-PROFILE	SERIES I OR II	SERIES 306	A-PROFILE	H-PROFILE
12	14.73	14.45	1222ANB	1222ANBH	S106-20BWS	N/A	480	475
15	17.98	18.05	1522ANB	1522ANBH	S106-20WS	S306-22	580	580
18	21.71	22.0	1822ANB	1822ANBH	S206-26	S306-26	710	710
24	28.52	28.9	2422ANB	2422ANBH	S206-32	S306-32	915	930
30	35.92	36.0	3022ANB	3022ANBH	S206-40	S306-40	1180	1180
36	42.06	42.15	3622ANB	3622ANBH	S206-46	S306-46	1350	1360
42	48.54	48.75	4222ANB	4222ANBH	S206-52L	S306-52L	1560	1570
48	54.53	55.75	4822ANB	4822ANBH	S206-58L	S306-58L	1745	1790
54	N/A	61.75	N/A	CUSTOM	S206-64L	N/A	1940	1940
60	67.3	68.05	6022ANB	6022ANBH	S206-72	N/A	2170	2170

NOTES:

PERFORMANCE HIGHLY DEPENDENT ON INSTALLATION. CONTRACTOR MUST INSURE MANHOLE GASKET IS UNIFORMLY SEATED AROUND STRUCTURE ADAPTER. EXTRA PRECAUTIONS MUST BE TAKEN TO PREVENT DIFFERENTIAL SETTLEMENT BETWEEN THE PIPE AND MANHOLE.

** THIRD PARTY - CODES AS SUPPLIED BY MANUFACTURER

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A-LOK is a registered trademark of A-LOK Products, Inc. (www.a-lok.com)

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REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D
2	UPDATED ADAPTER OD	CKS	7/13/07	

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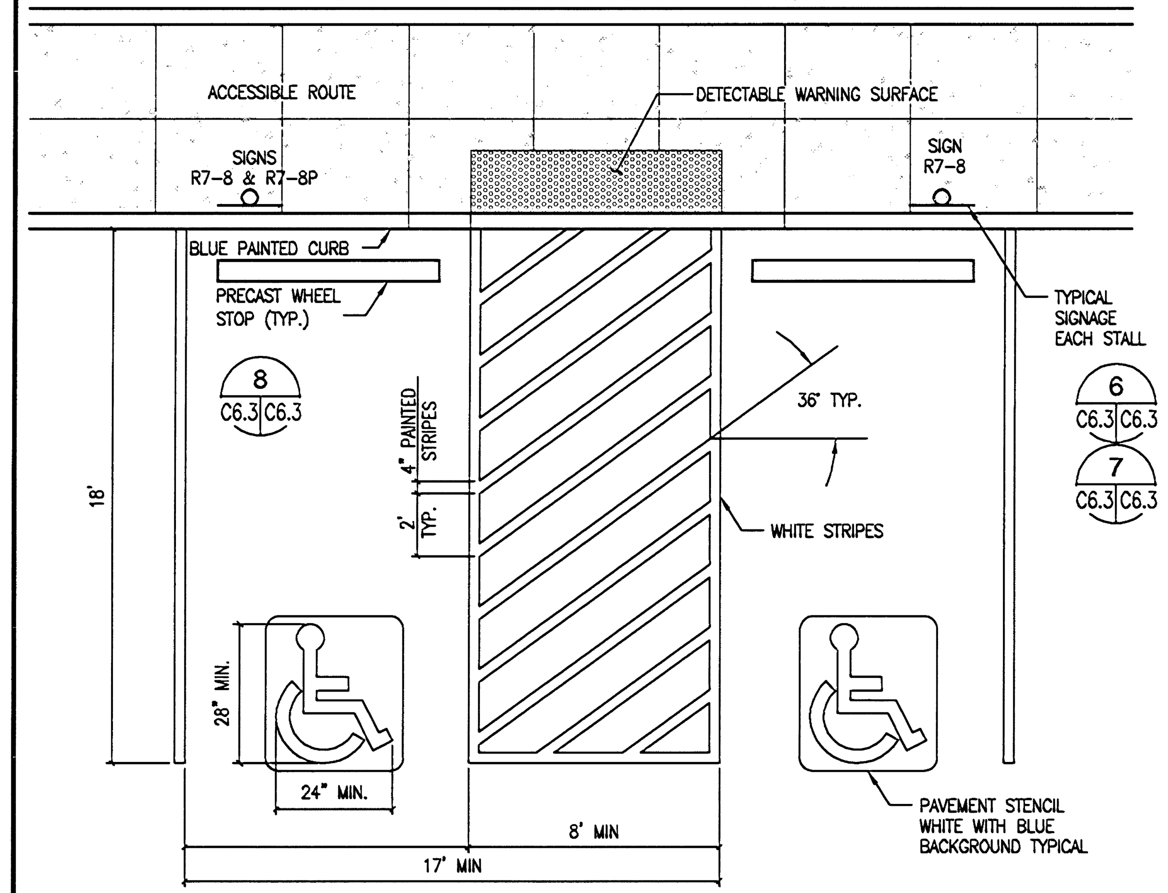
WATERTIGHT STRUCTURE CONNECTION TYPE 1 DETAIL
DRAWING NUMBER: STD-204A
ADS — 4640 TRUEMAN BLVD HILLIARD, OHIO 43026
CKS 10/10/06 NTS 1 OF 1

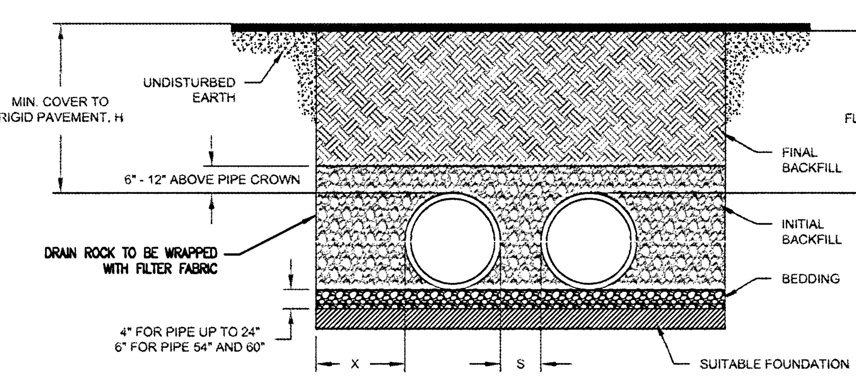
15 DETENTION SYSTEM CONNECTION TO MANHOLE #2

C5.1 | C6.3 — C5.2
SCALE: NONE



11 ACCESSIBLE PARKING SPACE

C3.1 | C6.3 — C3.2
SCALE: NONE



NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION

2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.

3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.

4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-900mm).

5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.

6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

RECOMMENDED MINIMUM SPACING

PIPE DIAM.	MIN. "X"	MIN. "S" +
12"	8"	12"
15"	8"	12"
18"	9"	12"
24"	10"	12"
30"	18"	15"
36"	18"	18"
42"	18"	21"
48"	18"	24"
54"	18"	27"
60"	18"	30"

+MINIMUM SPACING ("S") MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER

MINIMUM RECOMMENDED COVER BASED ON LOADING CONDITIONS

PIPE DIAM.	SURFACE LIVE LOADING CONDITION: H-25	HEAVY CONSTRUCTION (75T AXLE LOAD) *
12" - 48"	12"	48"
54" - 60"	24"	60"

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

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REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D
1	UPDATED DRAWING	TJR	02/19/07	

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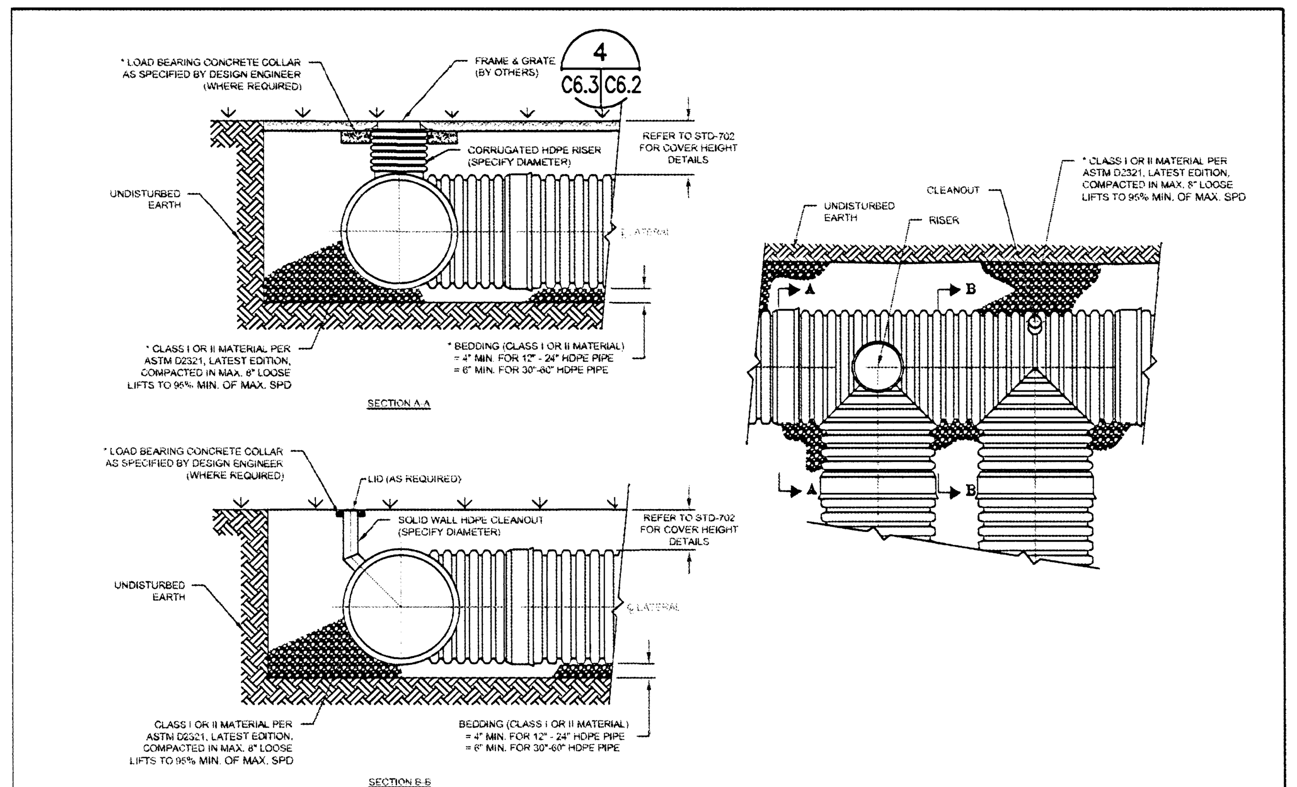
PARALLEL PIPE INSTALLATION
DRAWING NUMBER: STD-103
ADS — 4640 TRUEMAN BLVD HILLIARD, OHIO 43026
CKS 10/18/06 NTS 1 OF 1

12 DETENTION PIPE INSTALLATION

C5.1 | C6.3 — C5.2
SCALE: NONE



* CLASS I BACKFILL REQUIRED AROUND 60" DIAMETER FITTINGS

* LOAD BEARING CONCRETE COLLAR SHALL BE CONSTRUCTED IN TRAFFIC AREAS SUCH THAT THE LIVE LOAD IS TRANSMITTED TO THE SURROUNDING SOIL AND NOT DIRECTLY TO THE RISER.

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REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D
2	ADDED 60" FITTINGS NOTE	TJR	07/25/08	CKS

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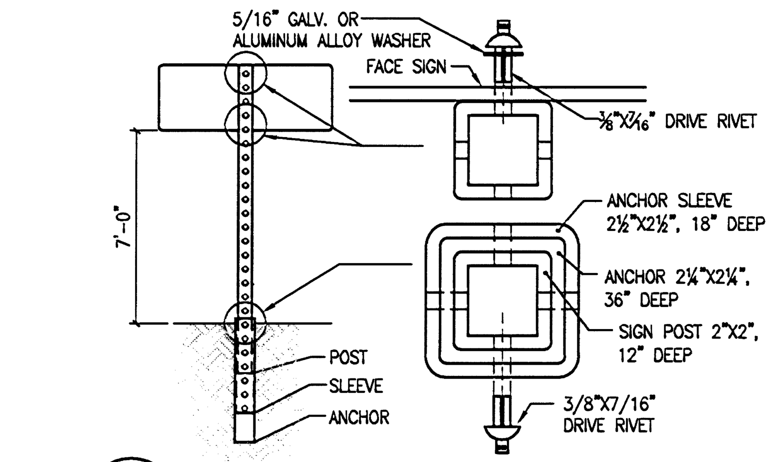
TYPICAL RET/DET RISER/CLEAN-OUT DETAIL
DRAWING NUMBER: STD-703
ADS — 4640 TRUEMAN BLVD HILLIARD, OHIO 43026
CRM 10/23/06 NTS OF

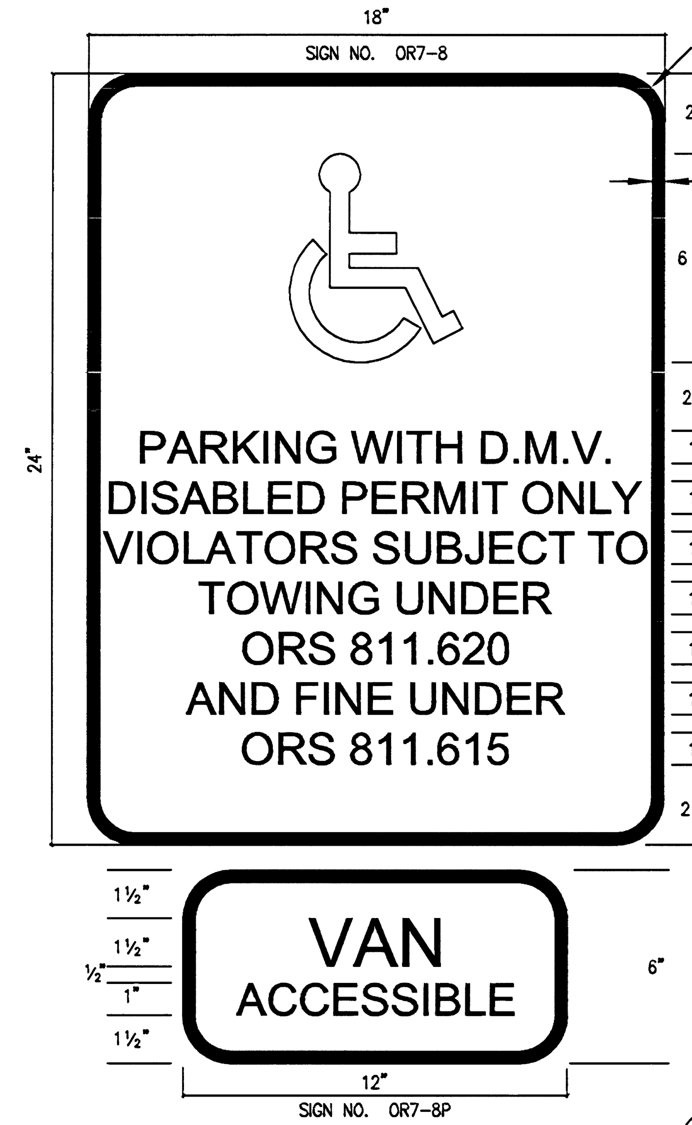
13 TYPICAL RISER DETAIL

C5.1 | C6.3 — C5.2
SCALE: NONE



6 SIGN POST DETAIL

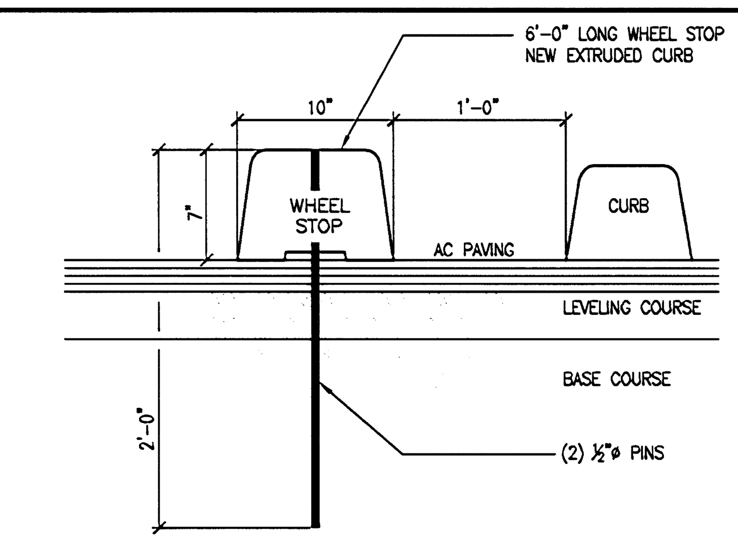
C6.3 | C6.3 — C3.2
SCALE: NONE



SIGN BACKGROUND: BLUE RETRO-REFLECTIVE SHEETING
SIGN LEGEND: WHITE, RETRO-REFLECTIVE SHEETING
SIGN POST DETAIL 6 C6.3 | C6.3

7 ACCESSIBLE PARKING SPACE SIGN

C6.3 | C6.3
SCALE: NONE



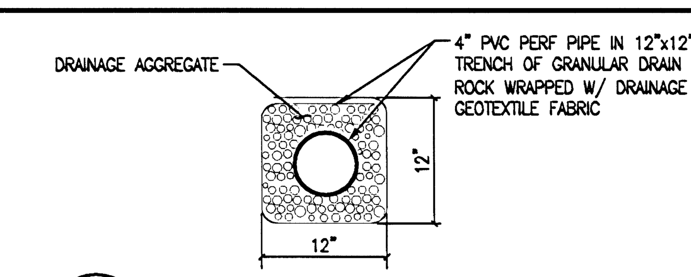
8 PRECAST WHEEL STOP

C3.1 | C6.3 — C3.2,C6.3
SCALE: NONE

SIGN PORT DETAIL 6 C6.3 | C6.3

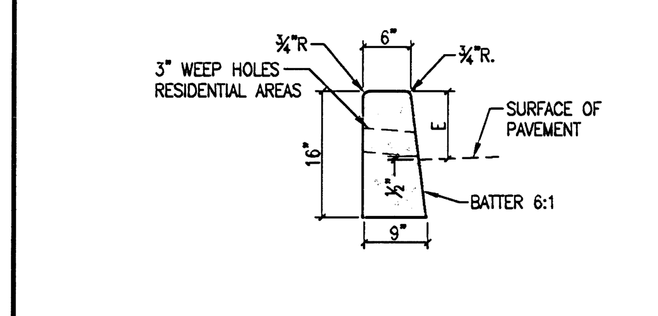
9 STOP SIGN DETAIL

C3.1 | C6.3 — C3.2,C3.3
SCALE: NONE



10 RETAINING WALL SUBDRAIN

C4.1 | C6.3 — C4.2
SCALE: NONE

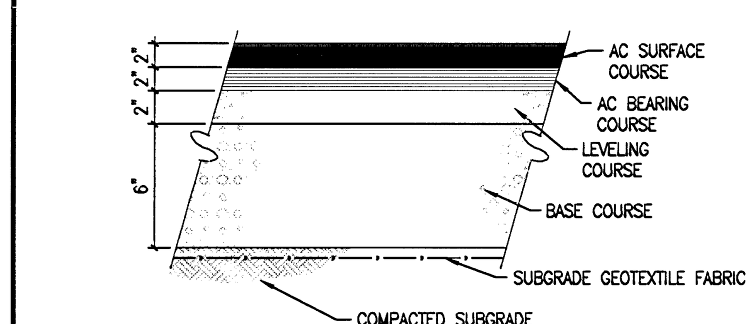


GENERAL NOTES:

1. CURB EXPOSURE "E" = 6" TYPICAL UNLESS OTHERWISE NOTED.
2. CONST. CONTRACTION JOINT SPACING AT 15', AND AT ENDS OF EACH INLET AND RAMP.
3. TRANSITIONS SHALL BE USED IN CONN. CURBS OF DIFFERENT EXPOSURES "E" ("E" IS THE TOTAL VERTICAL DIMENSIONS OF THOSE CURB SURFACES HAVING A SLOPE OF 1:1 OR STEEPER.) MIN. DESIRABLE TRANSITION LENGTH SHALL BE 20' FOR EACH 1" DIFFERENCE IN "E".
4. TOPS OF ALL CURBS SHALL SLOPE TOWARD THE ROADWAY 2% NORMAL UNLESS OTHERWISE SHOWN OR AS DIRECTED.
5. DIMENSIONS ARE NOMINAL. VARY TO CONFORM WITH CURB MACHINE APPROVED BY THE ENGINEER.
6. ALL RADII SHALL BE ¾" EXCEPT AS OTHERWISE NOTED.
7. INSTALL CONTRACTION JOINT AT WEEP HOLES.

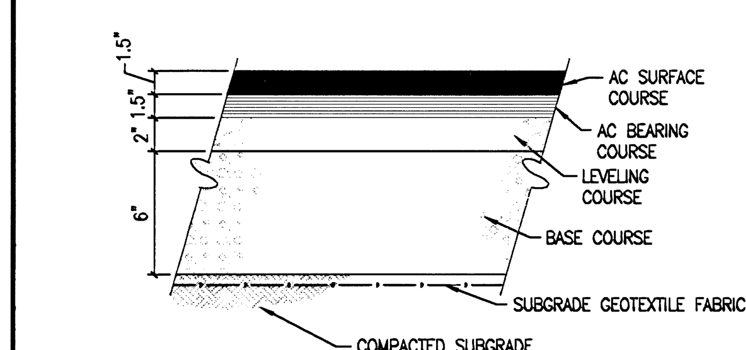
1 STANDARD CURB

C3.1 | C6.3 — C3.2,C3.3
SCALE: NONE



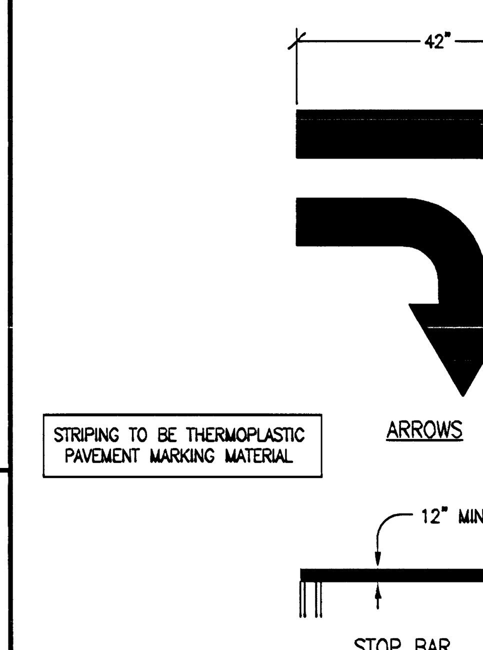
2 TYPICAL PAVING SECTION-HEAVY

C3.1 | C6.3 — C3.2,C3.3
SCALE: NONE



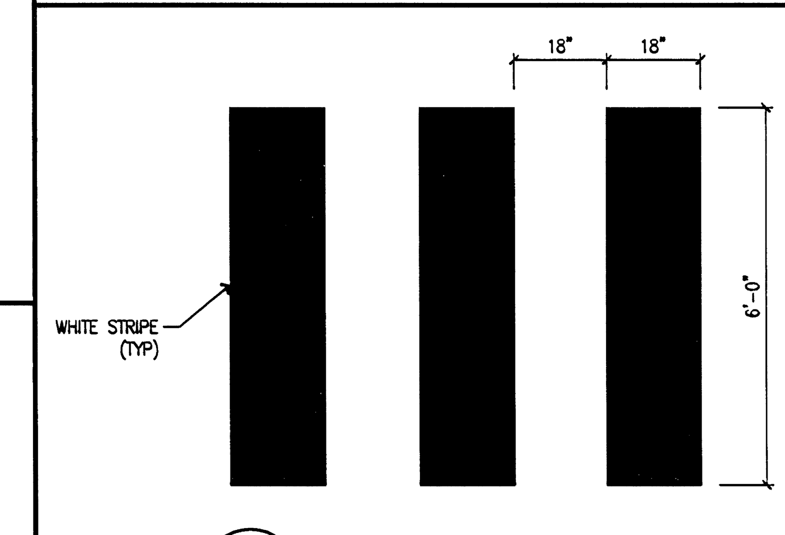
3 TYPICAL PAVING SECTION-LIGHT

C3.1 | C6.3 — C3.2,C3.3
SCALE: NONE



4 STRIPING DETAILS

C3.1 | C6.3 — C3.2,C3.3
SCALE: NONE



5 CROSSWALK STRIPING

C3.2 | C6.3
SCALE: NONE

GHD Inc.
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BAR IS ONE INCH ON ORIGINAL DRAWING
0 — 1"

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MARK	DATE	DESCRIPTION
	10/30/2013	RECORD DRAWING

ISSUE

WEST LINN WILSONVILLE SCHOOL DISTRICT
WEST LINN HIGH SCHOOL
STUDENT PARKING LOT IMPROVEMENTS

CIVIL DETAILS

PROJ NO: 11456-11009
DRWN: CHKD:

C6.3

SHEET OF

Plot Date: 30 October 2013 - 4:43 PM Plotted By: Pat Tortora Cad File No: G:\11456 - WLWSD (West Linn-Wilsonville School District)\11456-11009 WLWSD HS Parking Evaluation\06-CAD\Sheets\1145611009-C6_3.dwg

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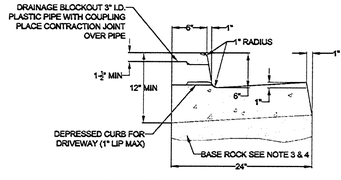
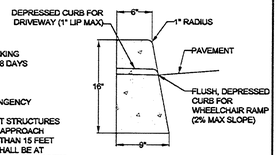


TYPICAL CURB AND GUTTER



TYPICAL STRAIGHT CURB

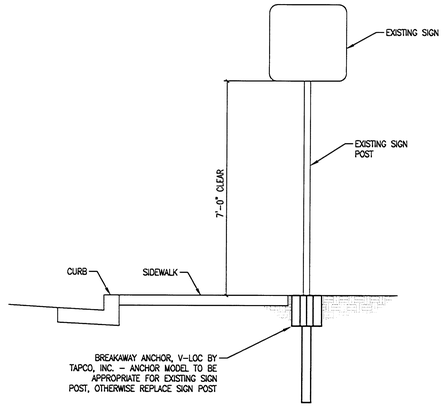
NOTE:

1. CONCRETE SHALL HAVE A BREAKING STRENGTH OF 3300 PSI AFTER 28 DAYS
2. CONTRACTION JOINTS:
   A) TO BE PROVIDED:
      -AT EACH POINT OF TANGENCY
      -AT EACH COLD JOINT
      -AT EACH SIDE OF INLET STRUCTURES
      -AT BOTH SIDES OF AN APPROACH
   B) SPACING TO BE NOT MORE THAN 15 FEET
   C) THE DEPTH OF THE JOINT SHALL BE AT LEAST 1/3 OF THE THICKNESS OF CONCRETE
   D) EXPANSION JOINTS SHALL NOT BE USED
3. BASE ROCK - 1-1/2"-0", 95% COMPACTION PER AASHTO T-180 ROCK SHALL BE TO SUBGRADE OF THE STREET SECTION OR 4" IN DEPTH, WHICHEVER IS GREATER
4. FULL DEPTH PREPARED ROCK SECTION SHALL EXTEND 1' HORIZONTALLY BEYOND BOTH SIDES OF CURB AND GUTTER
5. DRAINAGE BLOCK - 3" DIA. PLASTIC PIPE
   A) DRAINAGE ACCESS THROUGH EXISTING CURBS SHALL BE DONE BY:
      -CORE DRILLING
      -VERTICAL SAWCUT OF CURB 24" EACH SIDE OF DRAIN AND RE-POURED TO FULL DEPTH OF CURB
6. STAMP TOP OF CURB WITH "W" AT WATER SERVICE CROSSING AND "S" AT SANITARY LATERAL CROSSING

TYPICAL CURBS

City of West Linn | DATE: 2010 | DRAWING NO. WL-501 | FILE NO.

1 C3.2 C6.4 C3.3 TYPICAL CURBS
SCALE: NTS



2 C3.1 C6.4 C3.2 SIGN POST IN R.O.W.
SCALE: NONE

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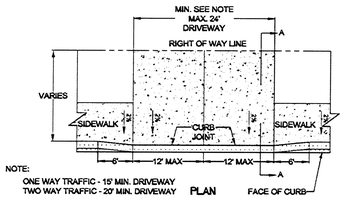
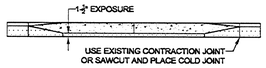
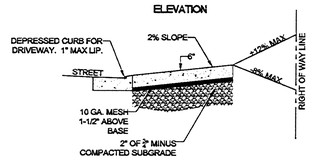


NOTE:
ONE WAY TRAFFIC - 15' MIN. DRIVEWAY
TWO WAY TRAFFIC - 20' MIN. DRIVEWAY

PLAN



ELEVATION



SECTION A–A

NOTE:

1. CONCRETE SHALL HAVE A MINIMUM BREAKING STRENGTH OF 4000 PSI AFTER 28 DAYS, 6 SACK MIX
2. CURB JOINT SHALL BE A TROWELED JOINT WITH A.MIN. 1/2" RADIUS ALONG BACK OF CURB
3. DRIVEWAY SHALL BE A MINIMUM 6" THICK
4. DRIVEWAY CURB CUT SHALL COMPLY WITH THE CONDITIONS OF 5.0070, "WIDTH AND LOCATION OF CURB CUTS"

COMMERCIAL DRIVEWAY WITH SIDEWALK ADJACENT TO CURB

City of West Linn | DATE: 2010 | DRAWING NO. WL-504B | FILE NO.

3 C3.2 C6.4 C3.3 COMMERCIAL DRIVEWAY
SCALE: NTS

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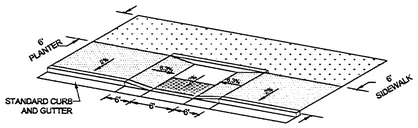
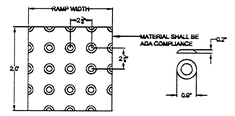


PARALLEL CURB RAMP



RAMP TEXTURE PATTERN DETAIL | TRUNCATED DOME DETAIL

NOTE:

1. LANDING AT TOP OF RAMP SHALL NOT EXCEED 2% IN ANY DIRECTION AND SHALL BE A MINIMUM OF 60" x 60".
2. RAMP CROSS SLOPE SHALL NOT EXCEED 2% (AS MEASURED PERPENDICULAR TO PEDESTRIAN TRAFFIC FLOW).
3. TRUNCATED DOME MUST EXTEND THE FULL WIDTH OF THE RAMP AND COVER THE FIRST 2 FEET OF THE RAMP CLOSEST TO THE STREET.
4. TRANSITIONS FROM THE RAMP TO THE WALKWAY, GUTTER, AND STREET MUST BE FLUSH (LEVEL) AND FREE OF ABRUPT LEVEL CHANGES.
5. THE GUTTER OR ADJACENT ROADWAY MUST HAVE A SLOPE OF NO MORE THAN 5 PERCENT (1:20) TOWARD THE RAMP.
6. FLARED SIDES ("WING") OF THE CURB RAMP SHALL NOT EXCEED 10% IN SLOPE (8.33% IF PEDESTRIAN TRAVEL IS REQUIRED OVER THEM PER ADA STANDARDS - I.E. IF MINIMUM 48" x 48" (FOR EXISTING SITES ONLY) LANDING IS NOT PROVIDED AT TOP OF RAMP).
7. CONCRETE STRENGTH SHALL BE 3300 PSI.
8. PLACE CONTRACTION JOINTS AS SHOWN ABOVE.
9. NO ABOVE GROUND UTILITIES ARE PERMITTED WITHIN RAMP AREA.

PARALLEL CURB RAMP CURB TIGHT

City of West Linn | DATE: 2010 | DRAWING NO. WL-506C | FILE NO.

4 C3.3 C6.4 CURB RAMP
SCALE: NTS

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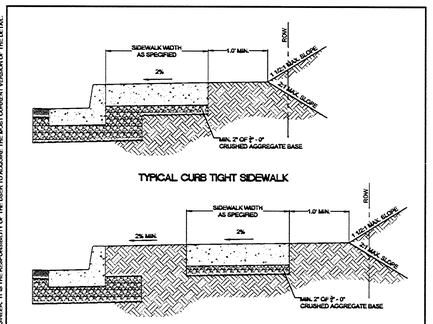

TYPICAL CURB TIGHT SIDEWALK

SIDEWALK AWAY FROM CURB

NOTE:

1. CONCRETE SHALL BE 3300 PSI AT 28 DAYS.
2. PANEL LENGTHS SHALL BE EQUAL TO THE SIDEWALK WIDTH, BUT MAY BE ADJUSTED WITH THE CITY ENGINEER'S APPROVAL.
3. CONTRACTION JOINTS (1/3RD OF THE THICKNESS OF CONCRETE) SHALL BE PLACED EVERY THIRD PANEL, WITH A MAX. SPACING OF 10 FEET. JOINTS SHALL ALSO BE PLACED AT THE SIDES OF DRIVEWAY APPROACHES, UTILITY VAULTS, AND WHEELCHAIR RAMPS.
4. A CURING COMPOUND SHALL BE USED. WHITE REFLECTIVE SHEETING SHALL BE USED IN CASE OF RAIN.
5. FOR SIDEWALKS ADJACENT TO THE CURB AND POURED AT THE SAME TIME AS THE CURB, THE JOINT BETWEEN THEM SHALL BE A TROWELED JOINT WITH A MIN. 1/2" RADIUS.
6. THE SIDEWALK SHALL HAVE A MIN. THICKNESS OF 6" IF THIS SIDEWALK IS INTENDED AS A PORTION OF THE THE DRIVEWAY. OTHERWISE, THE SIDEWALK SHALL HAVE A MIN. THICKNESS OF 4".
7. DRAIN BLOCKOUTS IN THE CURB SHALL BE EXTENDED TO THE BACK OF THE SIDEWALK WITH A 3" DIAMETER PLASTIC PIPE AT A 2% SLOPE. A CONTRACTION JOINT SHALL BE PLACED OVER THE PIPE.

CONCRETE SIDEWALK CROSS SECTION

City of West Linn | DATE: 2010 | DRAWING NO. WL-508 | FILE NO.

5 C3.1 C6.4 C3.2,C3.3 TYPICAL SIDEWALK
SCALE: NTS

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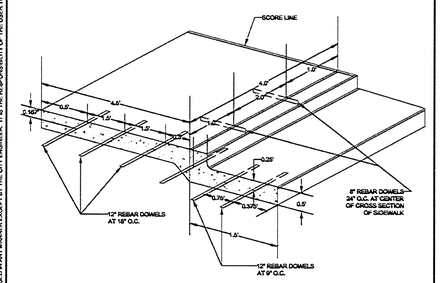
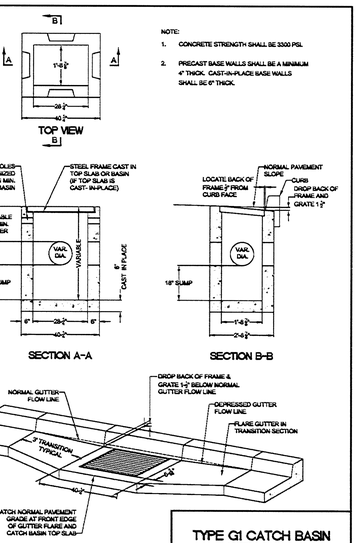


CURB, GUTTER AND SIDEWALK DOWELING DETAIL

City of West Linn | DATE: 2010 | DRAWING NO. WL-511 | FILE NO.

6 C6.4 CONCRETE DOWELING
SCALE: NTS

THIS DETAIL DRAWING SHALL NOT BE ALTERED OR CHANGED IN ANY MANNER EXCEPT BY THE CITY ENGINEER. IT IS THE RESPONSIBILITY OF THE USER TO ACQUIRE THE MOST CURRENT VERSION OF THE DETAIL.



NOTE:

1. CONCRETE STRENGTH SHALL BE 3300 PSI.
2. PRECAST BASE WALLS SHALL BE A MINIMUM 4" THICK. CAST-IN-PLACE BASE WALLS SHALL BE 6" THICK.

NOTE:
PRECAST TOP SLAB SHOWN WITH GUTTER TRANSITION FLARE IF THE TOP SLAB IS CAST-IN-PLACE, NO FLARE IS REQUIRED IN THE TRANSITION SECTION. MATCH THE TOP FRONT EDGE OF THE FRAME AND THE TOP FRONT EDGE OF THE CAST-IN-PLACE TOP SLAB TO THE NORMAL PAVEMENT GRADE.

TYPE G1 CATCH BASIN WITH SUMP

City of West Linn | DATE: 2010 | DRAWING NO. WL-602A | FILE NO.

7 C5.1 C6.4 CATCH BASIN
SCALE: NTS

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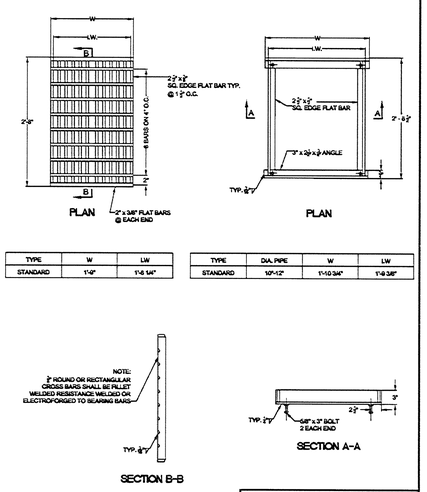

TYPE	W	LW
STANDARD	1'-9"	1'-9 1/4"

TYPE	DIA. PIPE	W	LW
STANDARD	10"-12"	1'-10 3/4"	1'-9 3/8"

NOTE:
USE VERTICAL BEADS IN CORNERS. FILLET WELD JOINT ON BOTTOM OF FRAME. GRATE MUST REST FLAT ON FRAME SURFACE.

FRAME AND GRATE FOR GUTTER AND CURB INLET

City of West Linn | DATE: 2010 | DRAWING NO. WL-602B | FILE NO.

8 C6.4 C6.4 CATCH BASIN FRAME AND GRATE
SCALE: NTS

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BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"

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MARK	DATE	DESCRIPTION
	10/30/2013	RECORD DRAWING

ISSUE

WEST LINN WILSONVILLE SCHOOL DISTRICT
WEST LINN HIGH SCHOOL
STUDENT PARKING LOT IMPROVEMENTS

CIVIL DETAILS

PROJ NO: 11456-11009
DRWN: CHKD:

C6.4

SHEET OF

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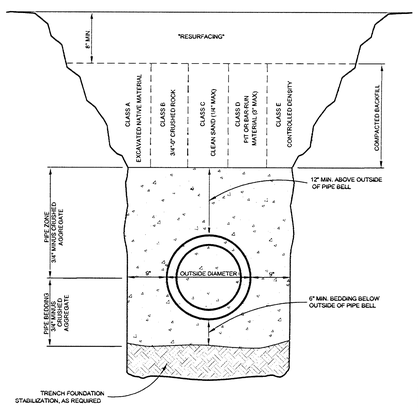

TRENCH BACKFILL BEDDING AND PIPE ZONE

City of West Linn | DATE: 2010 | DRAWING NO. WL-200 | FILE NO.

1 PIPE INSTALLATION
C5.1|C6.5 SCALE: NTS

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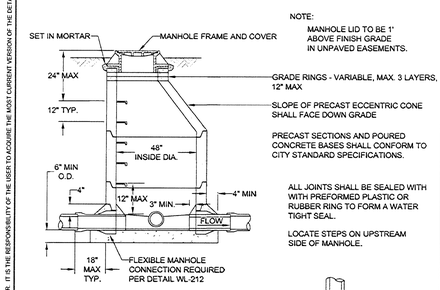


NOTE:
MANHOLE LID TO BE 1" ABOVE FINISH GRADE IN UNPAVED EASEMENTS.

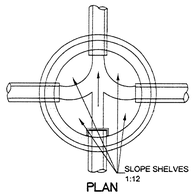
PRECAST SECTIONS AND POURED CONCRETE BASES SHALL CONFORM TO CITY STANDARD SPECIFICATIONS.

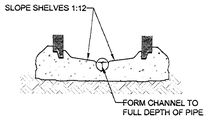
ALL JOINTS SHALL BE SEALED WITH WITH PREFORMED PLASTIC OR RUBBER RING TO FORM A WATER TIGHT SEAL.

LOCATE STEPS ON UPSTREAM SIDE OF MANHOLE.

NOTE:
POLYETHYLENE STEPS/IRON REINFORCEMENT 8" x 12" WIDE, 2" DROP, EMBEDDED 3", ON 12" CENTERS (TYPICAL)

MANHOLES SHALL HAVE A 12" MIN. 24" MAX. BOTTOM RISER, TO BE BEDDED IN THE CONCRETE AS THE BASE TAKES ITS INITIAL SET.





NOTE:
CHANNELS MUST BE ABLE TO PASS A 7"X30" CYLINDER INTO PIPES. SHELF SHALL NOT BE BELOW THE TOP OF THE PIPE.

STANDARD MANHOLE FOR LESS THAN 36" PIPE

City of West Linn | DATE: 2010 | DRAWING NO. WL-207 | FILE NO.

2 STANDARD MANHOLE
C5.1|C6.5 SCALE: NTS

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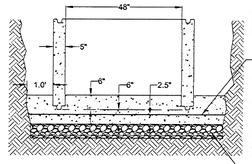


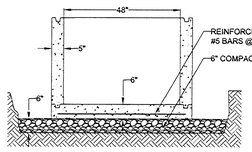
POURED IN PLACE MANHOLE BASE

NOTE:
PIPE CONNECTIONS MUST HAVE FLEXIBLE CONNECTIONS

REINFORCING SHALL BE #5 BARS @ 12" O.C. E.W. REINFORCING TO EXTEND 1'-0" BEYOND VERTICAL MANHOLE WALLS

NOTE:
CONCRETE TO EXTEND 12" OUTSIDE OF MANHOLE WALL AND 6" ABOVE THE BOTTOM OF THE BASE SECTION

6" COMPACTED CRUSHED ROCK BASE



PRECAST MANHOLE BASE

REINFORCING SHALL BE #5 BARS @ 12" O.C.E.W.

6" COMPACTED CRUSHED ROCK

NOTE:
USE 3300 PSI CONCRETE FOR EITHER MANHOLE BASE.
CONCRETE SHALL CONFORM TO SECTION 205. PRECAST MANHOLES SHALL CONFORM TO ASTM C478.

MANHOLE BASE

City of West Linn | DATE: 2010 | DRAWING NO. WL-211 | FILE NO.

3 MANHOLE BASE
C5.1|C6.5 SCALE: NTS

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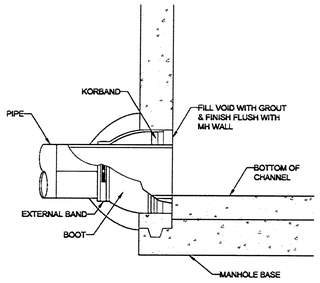


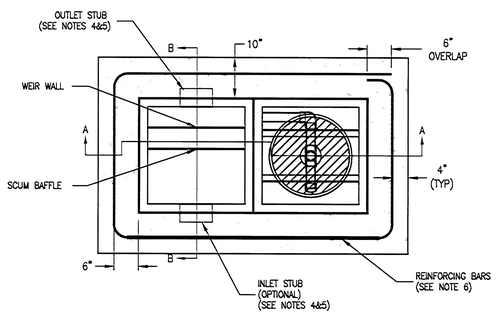
FLEXIBLE MANHOLE CONNECTION
(KOR-N-SEAL OR APPROVED EQUAL)

FLEXIBLE MANHOLE CONNECTION

City of West Linn | DATE: 2010 | DRAWING NO. WL-212 | FILE NO.

4 FLEXIBLE MANHOLE CONNECTION
C5.1|C6.5 SCALE: NTS

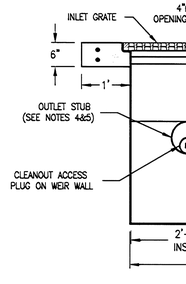
5 NOT USED
C5.1|C6.5 SCALE: NONE



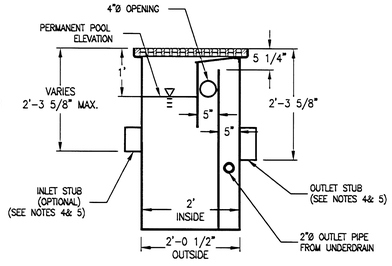
PLAN VIEW

NOTES:
1. STORMFILTER BY CONTECH STORMWATER; PORTLAND, OREGON (800-548-4667).
2. CATCH BASIN MUST BE SET LEVEL.
3. EXTERNAL PIPING AND COUPLINGS TO BE PROVIDED BY OTHERS.
4. FLEXIBLE COUPLING TO BE USED AT INLET & OUTLET. FERNCO OR ENGINEER APPROVED.
5. PERIMETER SLAB TO BE PROVIDED BY CONTRACTOR.
6. STORMFILTER REQUIRES REGULAR MAINTENANCE. REFER TO OPERATION AND MAINTENANCE MANUAL FOR DETAILS.
7. CATCH BASIN STORMFILTER STRUCTURAL SPECIFICATIONS:

LOAD RATING:	20,000 LB.
CONSTRUCTION:	¼" STEEL PLATE
COATING:	CORROSION RESISTANT, ALL SURFACES
UNIT WEIGHT:	___ LB.
INLET GRATE:	DUCTILE IRON
PERIMETER SLAB:	REQUIRED



SECTION A–A



SECTION B–B

6 SINGLE CARTRIDGE FILTER CATCH BASIN
C5.1|C6.5 SCALE: NONE

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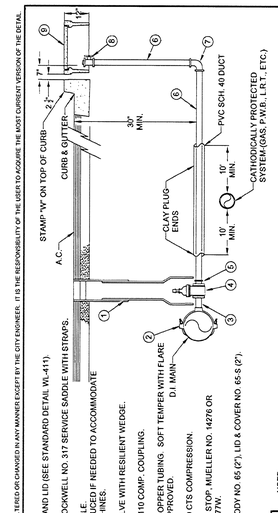

MATERIAL:
1. CAST IRON VALVE BOX AND LID (SEE STANDARD DETAIL WL-411).
2. PIPE O.D. x 2" TEE OR ROCKWELL NO. 317 SERVICE SADDLE WITH STRAPS.
3. 2" x 6" BRASS I.P.T. NIPPLE. 6" LENGTH MAY BE REDUCED IF NEEDED TO ACCOMMODATE CERTAIN TAPPING MACHINES.
4. 2" I.P.T. x I.P.T. GATE VALVE WITH RESILIENT WEDGE.
5. 2" x 3" I.P.T. x MUELLER 110 COMP. COUPLING.
6. 2" ASTM B-88 TYPE 'K' COPPER TUBING. SOFT TEMPER WITH FLARE FITTING WILL NOT BE APPROVED.
7. 2" 90° ELL. MUELLER 110 CTS COMPRESSION.
8. 1 1/2" - 2" ANGLE METER STOP; MUELLER NO. 14276 OR 14277, FORD NO. FV23-777W.
9. BROOKS METER BOX, BODY NO. 65 (2"), LID & COVER NO. 65-S (2").

NOTE:
1. MACHINE DRILLED AND TAPPED ONLY. NO HAND DRILLING IS ALLOWED.
2. SUBSTITUTES FOR ANY MATERIALS SHOWN SHALL BE APPROVED BY THE CITY ENGINEER.
3. ALL PIPE AND STRUCTURE ZONE SHALL BE BACKFILLED USING 3/4" MINUS CRUSHED AGG. AND COMPACTED TO 95% MAX DENSITY AS DETERMINED BY ASSHTO T-180.
4. WHEN AN ACTIVE CATHODIC PROTECTED SYSTEM IS ENCOUNTERED, SCH. 40 PVC SHALL BE INSTALLED AS SHOWN ABOVE WITH CLAY PLUG.
5. METER BOX SHALL BE CENTERED OVER THE COMPLETED METER AND FITTING ASSEMBLY.
6. CUSTOMER SHALL INSTALL AN APPROVED BACKFLOW PREVENTION DEVICE.
7. METER BOXES IN CURB TIGHT SIDEWALK AND THOSE SUBJECT TO INCIDENTAL AUTO TRAFFIC MUST HAVE METAL LIDS AND BE TRAFFIC RATED.

STANDARD 1 1/2" - 2" WATER SERVICE

City of West Linn | DATE: 2010 | DRAWING NO. WL-403 | FILE NO.

7 STANDARD 2" WATER SERVICE
C5.1|C6.5 SCALE: NONE

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BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

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MARK	DATE	DESCRIPTION
	10/30/2013	RECORD DRAWING

ISSUE

WEST LINN WILSONVILLE SCHOOL DISTRICT
WEST LINN HIGH SCHOOL
STUDENT PARKING LOT IMPROVEMENTS

CIVIL DETAILS

PROJ NO: 11456-11009
DRWN: CHKD:

C6.5

SHEET OF

STRUCTURAL NOTES

1. THE GOVERNING CODE IS THE 2009 INTERNATIONAL BUILDING CODE (IBC), AS AMENDED BY THE STATE OF OREGON.

GENERAL

1. UNLESS OTHERWISE NOTED, MATERIAL AND DESIGN SPECIFICATIONS CITED HEREIN SHALL BE THOSE CONFORMING TO THE VERSION OF THE APPLICABLE SPECIFICATION OR CODE MOST RECENTLY ADOPTED BY THE PERMITTING AUTHORITY. THESE STRUCTURAL NOTES ARE TO BE USED AS A SUPPLEMENT TO THE SPECIFICATIONS.

2. GENERAL CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS AND EXISTING (E) MEMBERS, DIMENSIONS, AND ELEVATIONS.

3. SHOP DRAWINGS AND PRODUCT INFORMATION:

   A. SHOP DRAWINGS SHALL BE REQUIRED ON REINFORCING STEEL.

   B. SHOP DRAWING REVIEW: DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD AND MUST BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL REVIEW AND STAMP SHOP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. SUBMIT ONE COPY AND ONE REPRODUCIBLE FOR REVIEW; THE REPRODUCIBLE WILL BE MARKED AND RETURNED.

4. CONSTRUCTION METHODS AND PROJECT SAFETY:

   A. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE METHODS, PROCEDURES OR SEQUENCE OF CONSTRUCTION.

   B. THIS STRUCTURE AND ALL OF ITS PARTS MUST BE ADEQUATELY BRACED AGAINST WIND AND LATERAL EARTH AND SEISMIC FORCES UNTIL THE PERMANENT LATERAL FORCE RESISTING SYSTEMS HAVE BEEN CONSTRUCTED AND ALL ATTACHMENTS AND CONNECTIONS NECESSARY FOR THE STABILITY OF THE STRUCTURE AND ITS PARTS HAVE BEEN MADE.

   C. THE ENGINEER WILL NOT ENFORCE SAFETY MEASURES OR REGULATIONS. CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES.

5. THESE DRAWINGS AND THE SUPPORTING SPECIFICATIONS AND STRUCTURAL CALCULATIONS DEVELOPED BY THE STRUCTURAL ENGINEER SHALL ONLY BE USED FOR THIS PROJECT AND AT THE LOCATION SPECIFIED HEREIN. THE STRUCTURAL ENGINEER DISCLAIMS ALL LIABILITY IF THESE DRAWINGS, SPECIFICATIONS, AND STRUCTURAL CALCULATIONS PERTAINING TO THIS PROJECT ARE USED ON ANY OTHER PROJECT OR AT ANY OTHER LOCATION.

6. FIELD ENGINEERED DETAILS DEVELOPED BY THE CONTRACTOR THAT DIFFER FROM, OR ADD TO, THE STRUCTURAL DRAWINGS SHALL BE STAMPED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF OREGON AND SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO IMPLEMENTATION/FABRICATION.

7. DO NOT SCALE INFORMATION FROM THE DRAWINGS.

8. SPECIAL INSPECTION IS REQUIRED AS NOTED BELOW:

SPECIAL INSPECTION PROGRAM
ESTABLISHED IN ACCORDANCE WITH THE 2009 IBC,
SECTIONS 104-4, 110 & CHAPTER 17

ITEM	CONTINUOUS	PERIODIC	COMMENTS
SOILS			
GRADING, EXCAVATION & FILL			BY GEOTECHNICAL ENGINEER
FINAL FOUNDATION PREPARATION			BY GEOTECHNICAL ENGINEER
STRUCTURAL CONCRETE			
REBAR PLACEMENT		X	
CONCRETE PLACEMENT	X		
VERIFY USE OF REQUIRED DESIGN MIX		X	
PREPARATION OF CONCRETE TEST SPECIMENS (STRENGTH, SLUMP, AIR)	X		

NOTES PERTAINING TO THE SPECIAL INSPECTION TABLE:

1. SPECIAL INSPECTOR: A QUALIFIED PERSON WHO DEMONSTRATES HIS COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL FOR INSPECTION OF A PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THE SPECIAL INSPECTOR SHALL BE EMPLOYED BY THE OWNER.

2. THE TERM "CONTINUOUS," AS STATED ABOVE, SHALL MEAN THE SPECIAL INSPECTOR IS ON THE SITE AND IN THE GENERAL AREA, AT ALL TIMES, OBSERVING THE WORK REQUIRING SPECIAL INSPECTION. THE TERM "PERIODIC" MEANS THAT THE SPECIAL INSPECTOR IS ON SITE AT TIME INTERVALS NECESSARY TO CONFIRM THAT THE WORK REQUIRING SPECIAL INSPECTION IS IN CONFORMANCE WITH APPROVED PERMIT PLANS AND SPECIFICATIONS.

3. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:

   A. OBSERVES THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPLICABLE DESIGN DRAWINGS AND SPECIFICATIONS.
   B. FURNISHES INSPECTION REPORTS TO THE BUILDING OFFICIAL, ENGINEER OR ARCHITECT OF RECORD, AND OTHER DESIGNATED PERSONS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND BUILDING OFFICIAL.
   C. SUBMITS A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE GOVERNING CODE.

4. DUTIES AND RESPONSIBILITIES OF THE CONTRACTOR REGARDING SPECIAL INSPECTION:

   A. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SPECIAL INSPECTOR WHEN ITEMS NOTED ABOVE ARE TO BE INSPECTED.
   B. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE SPECIAL INSPECTOR ACCESS TO ITEMS REQUIRING SPECIAL INSPECTION.

SITE PREPARATION & STRUCTURAL FILL OR BACKFILL

1. CONSULT THE SPECIFICATIONS AND FOUNDATION INVESTIGATION REPORT, WHICH IS AVAILABLE AT THE CONSTRUCTION MANAGER'S OFFICE, FOR ADDITIONAL INFORMATION.

FOUNDATIONS

1. FOUNDATION SIZES ARE BASED ON A TOTAL LOAD BEARING SOIL PRESSURE OF 2,500 PSF.

2. FOOTINGS SHALL BE FOUNDED ON FIRM UNDISTURBED ORIGINAL SOIL OR ON STRUCTURAL GRANULAR FILL COMPACTED TO MINIMUM OF 95% OF THE ASTM D1557 DENSITY AS REQUIRED BY THE FOUNDATION INVESTIGATION REPORT.

3. REMOVE DISTURBED SOIL BY HAND OPERATION, FROM FOOTING EXCAVATION TO NEAT LINES.

4. BOTTOM OF FOOTINGS SHALL BE STEPPED FROM ELEVATION TO ELEVATION AT 1'-0" VERTICAL TO 2'-0" HORIZONTAL.

5. THE FOUNDATION INVESTIGATION REPORT SHOWING LOGS OF BORINGS AND OTHER PERTINENT DATA IS AVAILABLE AT THE CONSTRUCTION MANAGER'S OFFICE FOR INSPECTION BY ALL QUALIFIED BIDDERS.

CONCRETE REINFORCING STEEL

1. REINFORCING STEEL FOR CONCRETE: ASTM A615, GRADE 60.

2. DETAIL, FABRICATE, AND PLACE REINFORCING STEEL IN ACCORDANCE WITH ACI DETAILING MANUAL 315.

   A. ACCURATELY AND SECURELY PLACE REINFORCING STEEL. REINFORCEMENT SHALL BE FREE OF MUD, OIL, OR OTHER MATERIALS THAT REDUCE BOND..

   B. DO NOT BEND OR DISPLACE REINFORCING FOR THE CONVENIENCE OF OTHER TRADES, UNLESS APPROVED BY THE STRUCTURAL ENGINEER.

   C. MINIMUM COVER FROM CONCRETE SURFACES TO REINFORCING STEEL:

      FOOTINGS:
      3 INCH

      CONCRETE CAST AGAINST EARTH:
      3 INCH NOT FORMED
      2 INCH FORMED

      WALLS:
      2 INCH EXTERIOR FACE
      3/4 INCH INTERIOR FACE
      CENTERED BARS IN SINGLE CURTAIN

   D. REINFORCING LAP SPLICES: REFER TO TABLE BELOW UNLESS NOTED OTHERWISE.

REINFORCING BAR TENSION LAP SPLICE LENGTHS (INCHES)						
BAR SIZE	f'c = 3000 PSI		f'c = 4000 PSI		f'c = 5000 PSI	
	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER
#3	28	22	24	19	22	17
#4	37	29	32	25	29	22
#5	47	36	40	31	36	28
#6	56	43	48	37	43	33
#7	81	63	70	54	63	49
#8	93	72	80	62	72	55
#9	105	81	91	70	81	63
#10	118	91	102	79	91	70
#11	131	101	113	87	101	78

NOTES:
1. VALUES ABOVE ARE FOR GRADE 60 REINFORCING AND NORMAL WEIGHT CONCRETE.
2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.

   E. REINFORCEMENT BARS: DO NOT TACK WELD, WELD, HEAT, OR CUT, UNLESS INDICATED ON THE CONTRACT DOCUMENTS OR APPROVED BY THE STRUCTURAL ENGINEER.

3. FIELD BENDING: CONFORM TO ACI 301, SECTION 3.3.2.8. "FIELD BENDING OR STRAIGHTENING". BAR SIZES #3 THROUGH #5 MAY BE BENT COLD THE FIRST TIME. OTHER BARS REQUIRE PREHEATING. DO NOT TWIST BARS.

CONCRETE - CAST-IN-PLACE

1. MIXES SHALL MEET OR EXCEED EACH REQUIREMENT SPECIFIED. WHERE STRENGTH, MINIMUM CEMENT CONTENT, AND MAXIMUM WATER/CEMENTITIOUS RATIO ARE SPECIFIED, THE MOST STRINGENT SHALL APPLY. FOR EXAMPLE, A MAXIMUM WATER/CEMENTITIOUS RATIO MIGHT RESULT IN A STRENGTH GREATER THAN THE MINIMUM SPECIFIED.

MIX DESIGN TYPE	f'c=(PSI) AT 28 DAYS	MAX. W/CM RATIO (NOTE 5)	AIR ENTRAIN-MENT (%) ASTM C260	MIN. CEMENT CONTENT (LB/YD³)	MAX. SLUMP (INCHES)	COARSE AGG. SIZE (INCHES)	NOTES
FOOTINGS & WALLS	3500	0.58	NONE	540	5	3/4	1

MIX DESIGN NOTES

1. MAXIMUM TARGET SLUMP ASSUMES ADMIXTURES INCLUDED, AS REQUIRED.
2. W/CM = WATER/CEMENTITIOUS MATERIALS RATIO (OTHER CEMENTITIOUS MATERIALS INCLUDE: FLY ASH, OTHER POZZOLANS, AND SILICA FUME).

2. PROVIDE A MINIMUM OF 3 CONCRETE TEST CYLINDERS FOR EACH 100 CUBIC YARDS, OR EACH DAY OF POUR FOR EACH CONCRETE STRENGTH. TEST CYLINDERS AS FOLLOWS: ONE AT SEVEN DAYS, TWO AT 28 DAYS. TAKE ONE ADDITIONAL TEST CYLINDER DURING COLD WEATHER CONCRETING, CURED ON THE PROJECT SITE UNDER THE SAME CONDITIONS AS THE CONCRETE IT REPRESENTS.

3. CONCRETE CYLINDER SAMPLING AND TESTING: CONFORM WITH ASTM SPECIFICATIONS. ACCEPTANCE OF CONCRETE SHALL BE GOVERNED BY THE PROVISIONS OF ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". SUBMIT MIX DESIGNS, WITH COMPLETE STATISTICAL BACKUP, FOR REVIEW ACCORDING TO ACI 318, SECTION 5.3.

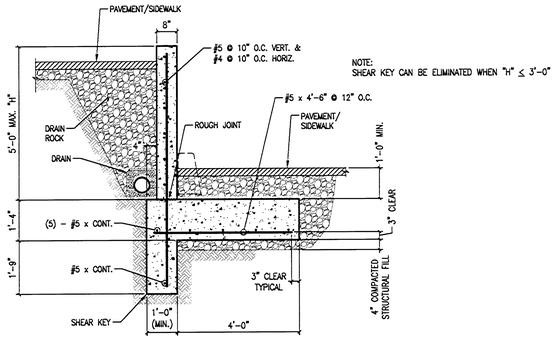
4. CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS". A COPY OF ACI SP-15 "FIELD REFERENCE MANUAL", WHICH INCLUDES ACI 301, SHALL BE KEPT IN THE CONTRACTOR'S FIELD OFFICE AT ALL TIMES.

5. CONCRETE SHALL BE BATCHED, MIXED, AND TRANSPORTED IN ACCORDANCE WITH ACI 301, CHAPTER 7. EACH TRUCK SHALL HAVE A TICKET SHOWING ACTUAL BATCH WEIGHTS OF MATERIALS IN ADDITION TO THE MAXIMUM AMOUNT OF WATER WHICH MAY BE ADDED AT THE SITE. THE TOTAL WATER IN THE MIX AT THE TIME OF PLACING, INCLUDING WATER ADDED AT THE SITE, SHALL NOT EXCEED THE AMOUNT PRE-APPROVED IN THE MIX DESIGN.

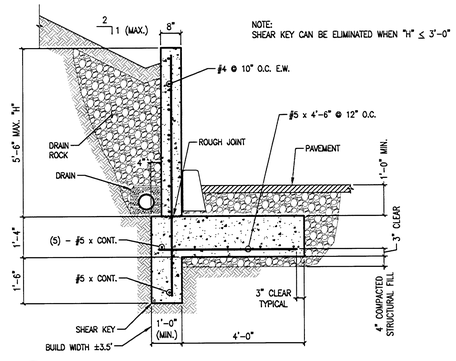
6. PREPARE CONSTRUCTION JOINTS BETWEEN FOOTINGS AND WALLS BY ROUGHENING TO A FULL AMPLITUDE OF APPROXIMATELY 1/4", LEAVING THE CONTACT SURFACE CLEAN AND FREE OF LAITANCE. CONSTRUCTION JOINTS SHALL HAVE 2X KEYWAYS WHERE INDICATED IN THE DRAWINGS. SUBMIT FOR REVIEW, DETAILS OF PROPOSED CONSTRUCTION JOINTS NOT DETAILED IN THE STRUCTURAL DRAWINGS.

7. DO NOT PLACE CONCRETE ON FROZEN GROUND.

8. EXPOSED CORNERS: 3/4" CHAMFER, UNLESS NOTED OTHERWISE.



1 C4.1|S1.1 RETAINING WALL TYPICAL SECTION
SCALE: 1/2"=1'-0"



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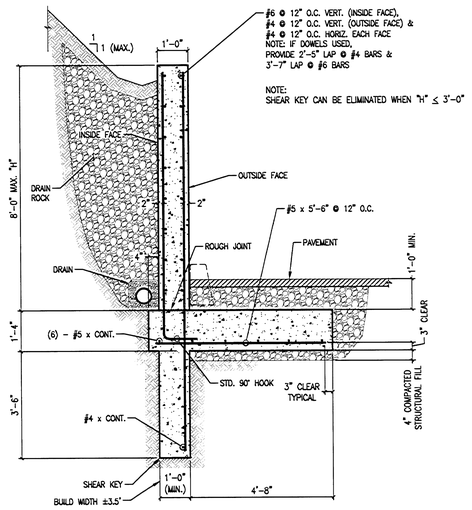

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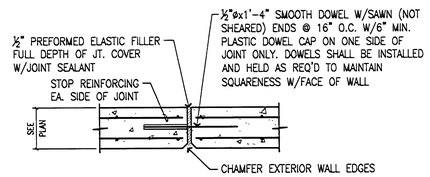

CONCRETE WALL CONTROL JOINT

4 C4.1|S1.1 PLAN-SECTION
SCALE: 1"=1'-0"

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MARK	DATE	DESCRIPTION	ISSUE
	10/30/2013	RECORD DRAWING	

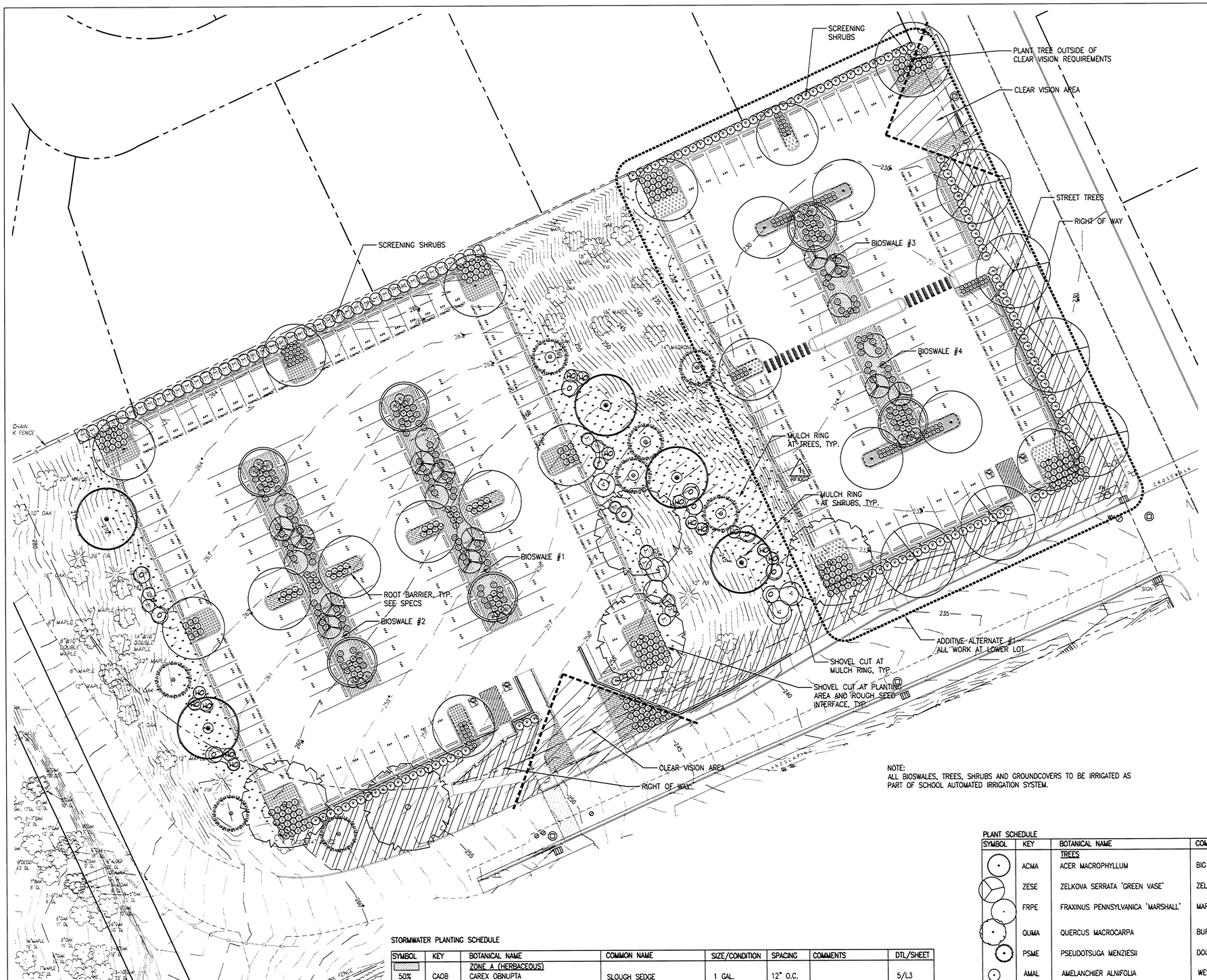
WEST LINN WILSONVILLE SCHOOL DISTRICT
WEST LINN HIGH SCHOOL
STUDENT PARKING LOT IMPROVEMENTS

STRUCTURAL NOTES, WALL SECTIONS & DETAILS

PROJ NO: 11456-11009
DRWN: KPT CHKD: DB

S1.1

SHEET OF



PLANTING NOTES:

1. CONTRACTOR TO VERIFY LOCATION OF EXISTING TREES INDICATED TO REMAIN PRIOR TO SOIL PREPARATION. PROTECT ALL TREES AND SHRUBS INDICATED TO REMAIN. COORDINATE WITH THE OWNER'S REPRESENTATIVE.

2. PLANTING AREAS TO BE SUFFICIENTLY CLEANED OF ALL CONSTRUCTION MATERIALS, INCLUDING IMPORTED ROCK, TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE BEFORE BEGINNING ANY LANDSCAPE WORK. CONTRACTOR SHOULD EXPECT TO ENCOUNTER SOLID BASALT ROCK AND / OR LARGE BOULDERS IN THE WESTERN PARKING LOT DURING EXCAVATIONS THAT EXCEED 2 FEET BELOW THE EXISTING SURFACE.

3. IDENTIFY ALL PLANTING AREAS IN FIELD WITH WHITE FIELD-MARKING CHALK OR APPROVED EQUAL. PLANTING BEDS TO BE ADJUSTED AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLANT LOCATION.

4. FOR PLANTING OCCURRING IN MASSES OF SAME SPECIES PLANT, LABELING REFERS TO ALL ADJACENT IDENTICAL SYMBOLS. REFER TO DETAILS AND LEGEND FOR SPACING INFORMATION.

5. THE OWNER'S REPRESENTATIVE WILL APPROVE INDIVIDUAL PLANT MATERIAL AND LOCATION OF PLANT MATERIAL PRIOR TO INSTALLATION. REFER TO SPECIFICATIONS FOR PROCEDURE.

6. SHRUBS AND GROUNDCOVER TO BE PLANTED A MINIMUM OF ONE HALF THEIR ON CENTER SPACING AWAY FROM PAVEMENT EDGES; UNLESS OTHERWISE NOTED.

7. PROVIDE ROOT BARRIER AROUND ALL TREES WITHIN 5' OF PAVING, CURBS, WALLS, BUILDINGS, UTILITY DUCTS, OTHER APPURTENANCES AND AS SHOWN.

8. CONTRACTOR IS RESPONSIBLE FOR PROVIDING PLANTS IN QUANTITIES AND LOCATIONS SHOWN ON DRAWINGS.

9. PROVIDE JUTE NETTING ON ALL SLOPES WITH GRADIENT OF 3:1 OR GREATER AS DIRECTED IN THE FIELD BY THE OWNER'S REPRESENTATIVE. STAPLE FABRIC TO GROUND WITH METAL STAKES AT 4' O.C.

WATER QUALITY PLANT TABLE (Per Portland Stormwater Management Manual)

1. WATER QUALITY PLANTING TO CONFORM TO CITY OF PORTLAND STORMWATER MANAGEMENT MANUAL (SWMM) FOR SWALE FACILITIES, MINIMUM CONTAINER SIZE TO BE 1 GALLON AT THE FOLLOWING RATE.
   a) ZONE A: Swale Bottom: 115 herbaceous plants OR 100 herbaceous plants and 4 small shrubs per 100sf.
   b) ZONE B: Side Slope: 1 deciduous tree, AND 3 large shrubs/small trees AND 4 small shrubs AND 140 ground cover shrubs per 100sf.

2. SEE PLANTING SCHEDULE FOR SPACING.

3. ZONE A: BASIN PLANTINGS TO BE PLANTED IN DRIFTS OF SAME SPECIES PLANTS IN GROUPS OF 15, 25, 35 PLANTS.

4. ZONE B: SHRUBS TO BE PLANTED IN GROUPS OF SAME SPECIES PLANTS AS SHOWN.

BIOSWALE #1

ZONE A – 565sf: 565 herbaceous 1 gallon plants AND 23 shrubs provided.
ZONE B – 730sf: 8 deciduous trees, AND 51 shrubs AND 1022 groundcover provided.

BIOSWALE #2

ZONE A – 565sf: 565 herbaceous 1 gallon plants AND 23 shrubs provided.
ZONE B – 730sf: 8 deciduous trees, AND 51 shrubs AND 1022 groundcover provided

BIOSWALE #3

ZONE A – 255sf: 255 herbaceous 1 gallon plants AND 11 shrubs provided.
ZONE B – 360sf: 4 deciduous trees, AND 26 shrubs AND 504 groundcover provided.

BIOSWALE #4

ZONE A – 255sf: 255 herbaceous 1 gallon plants AND 11 shrubs provided.
ZONE B – 360sf: 4 deciduous trees, AND 26 shrubs AND 504 groundcover provided.

NOTE:
ALL BIOSWALES, TREES, SHRUBS AND GROUNDCOVERS TO BE IRRIGATED AS PART OF SCHOOL AUTOMATED IRRIGATION SYSTEM.

STORMWATER PLANTING SCHEDULE

ZONE B

SYMBOL	KEY	BOTANICAL NAME	COMMON NAME	SIZE/CONDITION	SPACING	COMMENTS	DTL/SHEET
		ZONE A (HERBACEOUS)					
50%	CAOB	CAREX OBNUPTA	SLOUGH SEDGE	1 GAL.	12" O.C.		5/L3
25%	CAMO	SCRIPTUS MICROCARPUS	SMALL FRUITED BULRUSH	1 GAL.	12" O.C.		5/L3
25%	JUEN	JUNCUS PATENS 'ELK BLUE'	COMMON RUSH	1 GAL.	12" O.C.		5/L3
		TREES					
	ALRU	ALNUS RUBRA	RED ALDER	1-1/2" CAL./B&B	AS SHOWN	MATCHED STANDARDS- 6' MIN. BRANCHING HT.	1/L3
	AMAL	AMELANCHIER ALNIFOLIA	WESTERN SERVICEBERRY	5-6' HT. /B&B	AS SHOWN	NATURAL MULTI-STEMMED	1/L3
	ACCI	ACER CIRCINATUM	VINE MAPLE	5-6' HT. /B&B	AS SHOWN	NATURAL MULTI-STEMMED	1/L3
		SHRUBS					
	RISA	RIBES SANGUINEUM	RED FLOWERING CURRENT	1 GAL. CONT.	AS SHOWN		5/L3
	CLAL	CLETHRA ALNIFOLIA 'HUMMINGBIRD'	HUMMINGBIRD SUMMERSWEET	1 GAL. CONT.	AS SHOWN		5/L3
	COKE	CORNUS SERICEA 'KELSEYI'	DWARF REDTWIG DOGWOOD	1 GAL. CONT.	AS SHOWN		5/L3
		GROUNDCOVER					
50%	ARUV	ARCTOSTAPHYLLOS UVA-URSI	KINNIKINNICK	1 GAL. CONT.	10" O.C.	PLANTED IN RANDOM DRIFTS OF 25-50	5/L3
50%	MARE	MAHONIA REPENS	CASCADE OREGON GRAPE	1 GAL. CONT.	10" O.C.		5/L3

PLANT SCHEDULE

SYMBOL	KEY	BOTANICAL NAME	COMMON NAME	SIZE/CONDITION	SPACING	COMMENTS	DTL/SHEET
		TREES					
	ACMA	ACER MACROPHYLLUM	BIG LEAF MAPLE	1-1/2" CAL./B&B	AS SHOWN	MATCHED STANDARDS- 6' MIN. BRANCHING HT.	1/L3
	ZESE	ZELKOVA SERRATA 'GREEN VASE'	ZELKOVA TREE	2" CAL./B&B	AS SHOWN	MATCHED STANDARDS- 6' MIN. BRANCHING HT.	1/L3
	FRPE	FRAXINUS PENNSYLVANICA 'MARSHALL'	MARSHALL GREEN ASH	2" CAL./B&B	AS SHOWN	MATCHED STANDARDS- 6' MIN. BRANCHING HT.	1/L3
	QUMA	QUERCUS MACROCARPA	BUR OAK	2" CAL./B&B	AS SHOWN	MATCHED STANDARDS- 6' MIN. BRANCHING HT.	1/L3
	PSME	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	6'-8' HT. / B&B	AS SHOWN		2/L3
	AMAL	AMELANCHIER ALNIFOLIA	WESTERN SERVICEBERRY	5-6' HT. /B&B	AS SHOWN	NATURAL MULTI-STEMMED	1/L3
		SHRUBS					
	PHLE	PHILADELPHUS LEWISII	WILD MOCK ORANGE				5/L3
	PRLA	PRUNUS LAUROCERASUS 'OTTO LUYKEN'	OTTO LUYKEN CHERRY LAUREL	3 GAL. CONT.	AS SHOWN		5/L3
	NADO	NANDINA DOMESTICA 'WOODS DWARF'	DWARF HEAVENLY BAMBOO	1 GAL. CONT.	AS SHOWN		5/L3
	SPJA	SPIREA JAPONICA 'LITTLE PRINCESS'	LITTLE PRINCESS SPIREA	1 GAL. CONT.	AS SHOWN		5/L3
	OMCE	OEMLERIA CERACIFORMIS	INDIAN PLUM	3 GAL. CONT.	AS SHOWN		5/L3
	HODI	HOLODISCUS DISCOLOR	OCEANSPRAY	3 GAL. CONT.	AS SHOWN		5/L3
		GROUNDCOVER					
70%	ARCTOSTAPHYLLOS UVA-URSI	KINNIKINNICK	1 GAL.	18" O.C.	PLANT FERNS IN RANDOM CLUMPS OF 3-5		5/L3
30%	POLYSTICUM MUNITUM	SWORD FERN	1 GAL.	18" O.C.			
	ARUV	ARCTOSTAPHYLLOS UVA-URSI	KINNIKINNICK	1 GAL.	18" O.C.		5/L3
	FRCH	FRAGARIA CHILOENSIS	COASTAL STRAWBERRY	1 GAL.	18" O.C.		5/L3
70%	MAHONIA REPENS	CASCADE OREGON GRAPE	1 GAL.	18" O.C.	PLANT FERNS IN RANDOM CLUMPS OF 3-5		5/L3
30%	POLYSTICUM MUNITUM	SWORD FERN	1 GAL.	18" O.C.			
	MARE	MAHONIA REPENS	CASCADE OREGON GRAPE	1 GAL.	18" O.C.		5/L3
	RUCA	RUBUS CALCYNOIDES	CREEPING BRAMBLE	1 GAL.	18" O.C.		5/L3
		LAWN					
		NON-IRRIGATED ROUGH SEED					
		MULCH					

0 5 10 20 40
SCALE: 1" = 20'-0"
NORTH

Plot Date: 12 December 2013 - 12:59 PM Plotted By: Ben Vaughn Cad File No: F:\WORK\1215\DrawPlots\1215_PLNT.dwg

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MARK	DATE	DESCRIPTION
	10/30/2013	RECORD DRAWING

ISSUE

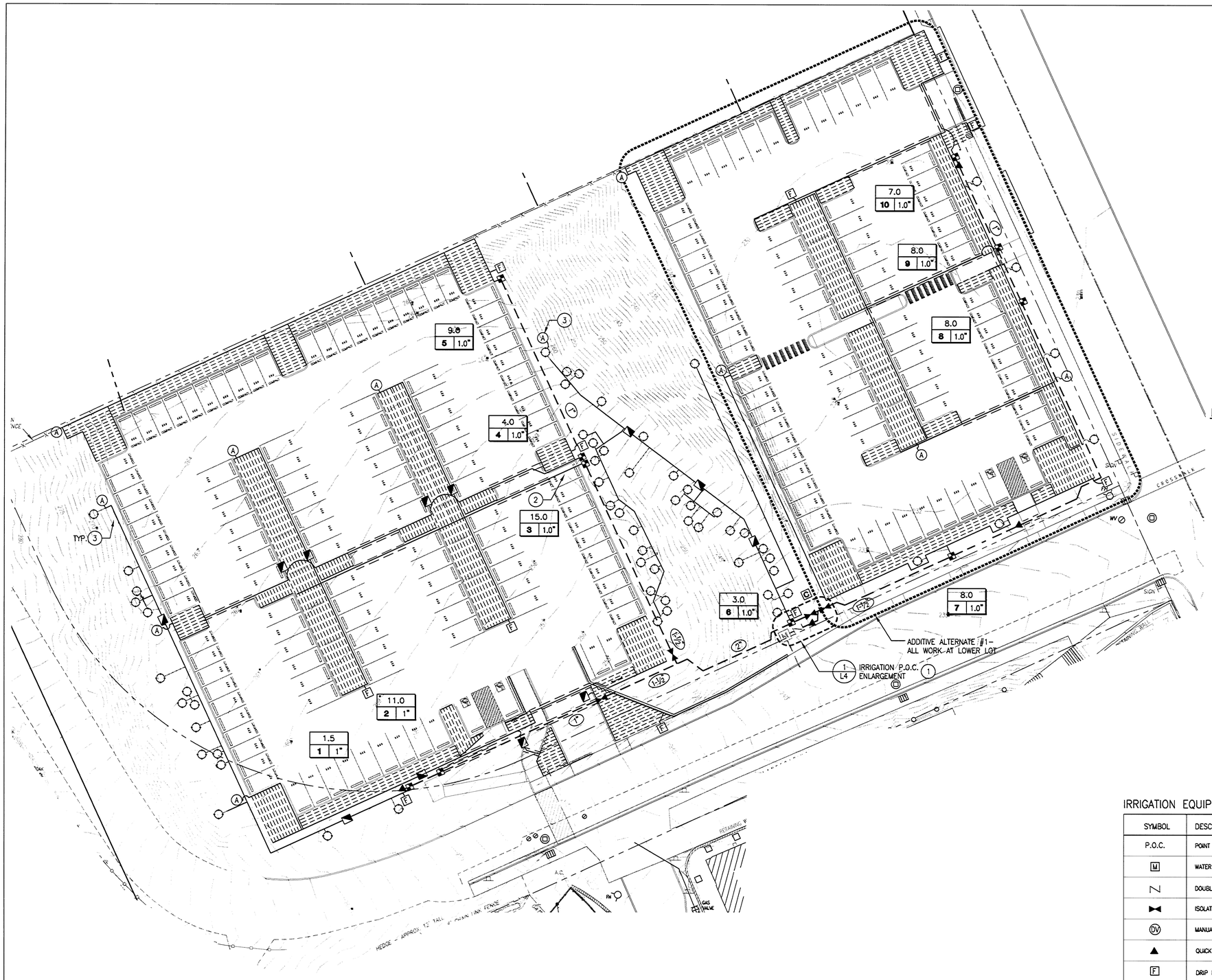
WEST LINN WILSONVILLE SCHOOL DISTRICT
WEST LINN HIGH SCHOOL
STUDENT PARKING LOT IMPROVEMENTS

PLANTING PLAN

PROJ NO: 11456-11009
DRWN: CHKD:

L1

SHEET OF



KEY NOTES

1. REFER TO CIVIL FOR IRRIGATION METER, PIPING AND BACKFLOW PREVENTER.
2. IRRIGATION LINES SHOWN IN PAVED AREA FOR GRAPHIC CLARITY ONLY; INSTALL IN ADJACENT LANDSCAPE AREA.
3. INSTALL AIR RELIEF VALVE AT HIGHPOINT OF LATERAL.

IRRIGATION NOTES

1. THE CONTRACTOR SHALL INSPECT THE SITE AND VERIFY CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY OF ANY DISCREPANCIES AFFECTING SYSTEM PERFORMANCE PRIOR TO BEGINNING WORK.
2. INSTALL IRRIGATION SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.
3. IRRIGATION LINES SHOWN WITHIN PAVED AREAS ARE FOR GRAPHIC CLARITY ONLY. IRRIGATION HEADS AND PIPES ARE TO BE PLACED WITHIN LANDSCAPED AREAS WITH THEIR LOCATIONS MODIFIED AS REQUIRED TO AVOID PLANT MATERIALS, UTILITIES AND OTHER OBSTRUCTIONS. PLACE LINES IN COMMON TRENCHES WHERE POSSIBLE. CONTRACTOR SHOULD EXPECT TO ENCOUNTER SOLID BASALT ROCK AND / OR LARGE BOULDERS IN THE WESTERN PARKING LOT DURING EXCAVATIONS THAT EXCEED 2 FEET BELOW THE EXISTING SURFACE.
4. COORDINATE ALL IRRIGATION WORK WITH OTHER TRADES INVOLVED. COORDINATE IRRIGATION P.O.C. AND LOCATION OF AUTOMATIC CONTROLLER.
5. ALL VALVE BOXES WILL BE PLACED IN A MANNER WHICH FACILITATES ACCESS FOR MAINTENANCE. LOCATE VALVE BOXES IN PLANTING AREAS WHEREVER POSSIBLE. SIZE BOXES TO ACCOMMODATE COMPLETE VALVE ASSEMBLY INCLUDING UNIONS.
6. ALL COMPONENTS OF IRRIGATION SYSTEM SHALL BE INSTALLED AND ADJUSTED TO PROVIDE ADEQUATE COVERAGE AND ELIMINATE OVERSPRAY ONTO BUILDINGS, ROADS AND WALKWAYS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE WORKING SYSTEM.
7. CONTRACTOR SHALL VERIFY STATIC PRESSURE AT P.O.C. PRIOR TO COMMENCING WORK. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IF ACTUAL FIELD DATA DIFFERS FROM THIS INFORMATION.
8. THIS SYSTEM REQUIRES A MINIMUM STATIC PRESSURE OF 80 P.S.I. AND A MAXIMUM FLOW OF 16 GPM. HEAD LAYOUT AND ZONES ARE BASED ON THIS DATA AND DATA SHOWN IN IRRIGATION SCHEDULE. NOTIFY THE OWNERS REPRESENTATIVE PRIOR TO COMMENCING WORK IF ACTUAL FIELD DATA DIFFERS FROM THIS INFORMATION.
9. SIZE IRRIGATION LATERALS AT VALVE AND CONTINUING IN DIRECTION OF FLOW. ALL LATERALS SHALL BE MINIMUM 3/4" OR SAME SIZE AS NEAREST UPSTREAM PIPE.
10. INSTALL ALL IRRIGATION PIPES IN PVC SLEEVES BELOW ALL PAVED SURFACES. COORDINATE PLACEMENT OF SLEEVES WITH APPLICABLE TRADES.
11. GRADE MAIN AND LATERAL LINES TO DRAIN. PLACE MANUAL DRAINS AT LOW POINT IN MAINLINES. MINIMUM ONE PER VALVE.

VALVE KEY:

0.00	GALLONS PER MINUTE
X X.X"	VALVE SIZE
	CONTROLLER STATION NUMBER

IRRIGATION EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	MANUF.	TYPE/MODEL	DTL/SHEET
P.O.C.	POINT OF CONNECTION	–	–	1/L4
M	WATER METER	–	–	SEE CIVIL
	DOUBLE CHECK VALVE	–	–	SEE CIVIL
	ISOLATION VALVE	APOLLO WATTS	70-140-10 (LINE SIZE) B6000-SS (LINE SIZE)	4/L4
DV	MANUAL DRAIN VALVE	NIBCO CHAMPION	T-311-Y (1") 200RS-100 (1")	7/L4
▲	QUICK COUPLING VALVE	RAINBIRD	44NP (1")	3/L4
F	DRIP MANUAL FLUSH VALVE	NIBCO	4660-S WITH GHT ADAPTER	5/L4
	DRIP REMOTE CONTROL VALVE	RAINBIRD	XCZ-100-B-COM	6/L4
	SPRING CHECK VALVE	KBI	BPC-XX*XX*-S	
A	DRIP AIR RELIEF/ VACUUM VALVE	RAINBIRD	ARV-050	8/L4
C	IRRIGATION CONTROLLER	RAINBIRD	ESP-SMT	2/L4
— — — —	MAINLINE (2-1/2" AND SMALLER) SIZE PER PLAN	PW EAGLE CRESLINE	SCH 40 PVC	13/L4
———	LATERAL LINE, SIZE PER PLAN	PW EAGLE CRESLINE	CLASS 200 PVC	13/L4
= = = =	SLEEVE, SIZE 2 x PIPE DIA.	PW EAGLE CRESLINE	SCH 40 PVC OR ASTM 3034 SDR 35 SEWER PIPE	14/L4
— · — · —	BLANK PE PIPING	RAINBIRD	XF SERIES	12/L4
≡≡≡≡≡≡	DRIP LINE W/ FLOW RATE OF 0.6 GPH (EMITTER INTERVAL TO MATCH PLANT SPACING- SEE PLANTING SCHEDULE)	RAINBIRD	XFD-06-18-XX	10/L4
○	TREE EMITTERS RING (4 EMITTERS PER TREE @ 2.0 GPH) (2 EMITTERS PER SHRUB @ 2.0 GPH)	RAINBIRD	XB-20-PC	11-12/L4

LATERAL LINE SIZING CHART

CLASS 200 PVC

3/4"	UP TO 10 GPM	2"	UP TO 55 GPM
1"	UP TO 16 GPM	2-1/2"	UP TO 80 GPM
1-1/2"	UP TO 35 GPM		

NOTE: VELOCITY THROUGH PIPE IS NOT TO EXCEED 4.5 FEET PER SECOND (FPS) IN ACCORDANCE WITH INDUSTRY STANDARD. PRESSURE LOSS DUE TO PIPE FRICTION IN ANY ONE CIRCUIT IS NOT TO EXCEED 10% OF AVAILABLE STATIC PRESSURE.

0 5 10 20 40
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	10/30/2013	RECORD DRAWING	

WEST LINN WILSONVILLE SCHOOL DISTRICT
WEST LINN HIGH SCHOOL
STUDENT PARKING LOT IMPROVEMENTS

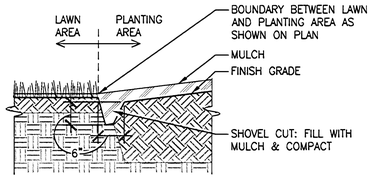
IRRIGATION PLAN

PROJ NO: 11456-11009
DRWN: CHKD:

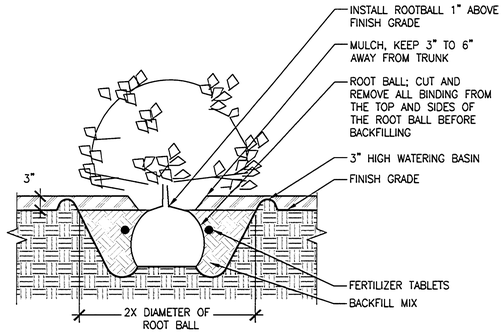
L2

SHEET OF

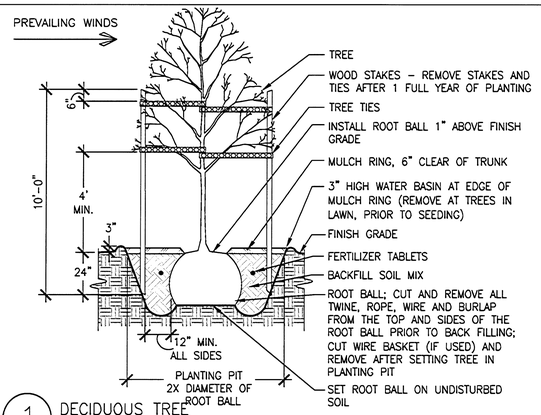
Plot Date: 12 December 2013 - 1:01 PM Plotted By: Ben Vaughn Cad File No: F:\WORK\1215\DrawPlots\1215_IRR.dwg



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

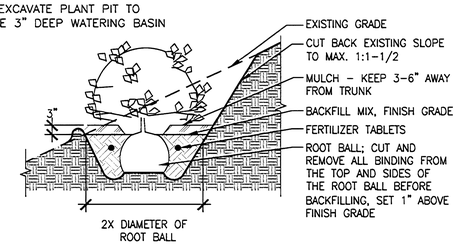


5 SHRUB AND GROUNDCOVER PLANTING
SCALE: 3/4" = 1'-0" SECTION



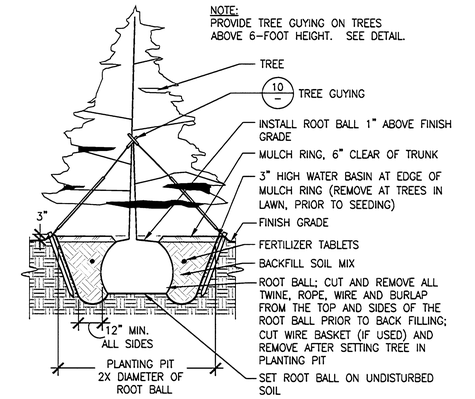
1 DECIDUOUS TREE
SCALE: 3/8" = 1'-0" SECTION

NOTE:
OVER-EXCAVATE PLANT PIT TO PROVIDE 3" DEEP WATERING BASIN

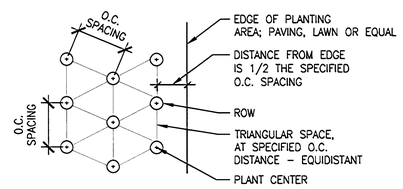


6 SHRUB AND GROUNDCOVER PLANTING ON SLOPE
SCALE: 1/2" = 1'-0" SECTION

NOTE:
PROVIDE TREE GUYING ON TREES ABOVE 6-FOOT HEIGHT. SEE DETAIL.



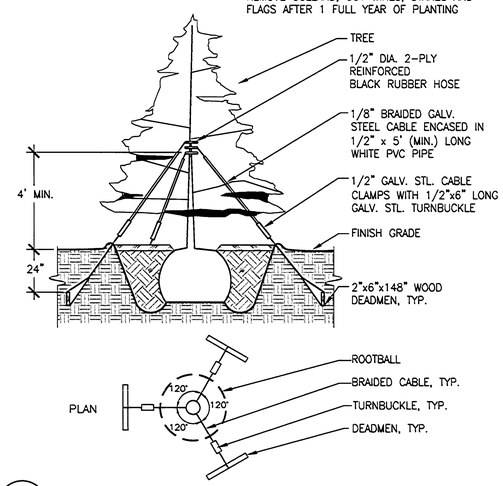
2 EVERGREEN TREE
SCALE: 3/8" = 1'-0" SECTION



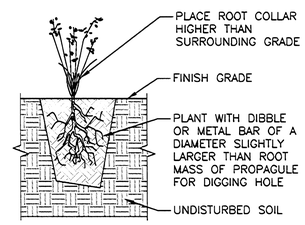
NOTE:
- SEE PLANT SCHEDULE FOR EACH PLANT'S APPROPRIATE O.C. SPACING.
- PLANTING PLAN SHOWING INDIVIDUAL LOCATION OF A SHRUB AND OR GROUND COVER TAKE PRECEDENT OVER THIS DETAIL.

7 SHRUB AND GROUNDCOVER SPACING DIAGRAM
SCALE: NTS DIAGRAM

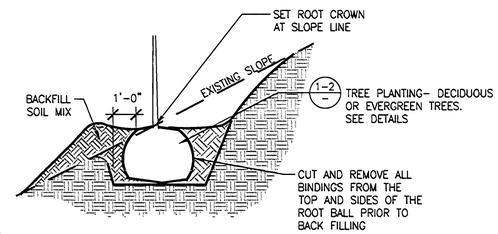
NOTE:
REMOVE COLLARD, GUY WIRES, STAKES AND FLAGS AFTER 1 FULL YEAR OF PLANTING



3 TREE GUYING
SCALE: 3/8" = 1'-0" SECTION



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



4 TREE PLANTING ON SLOPE
SCALE: 3/8" = 1'-0" SECTION

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MARK	DATE	DESCRIPTION
	10/30/2013	RECORD DRAWING

ISSUE

WEST LINN WILSONVILLE SCHOOL DISTRICT
WEST LINN HIGH SCHOOL
STUDENT PARKING LOT IMPROVEMENTS

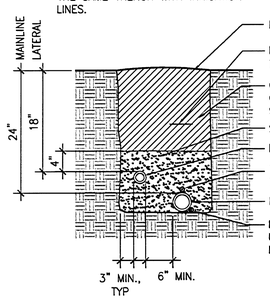
PLANTING DETAILS

PROJ NO: 11456-11009
DRWN: CHKD:

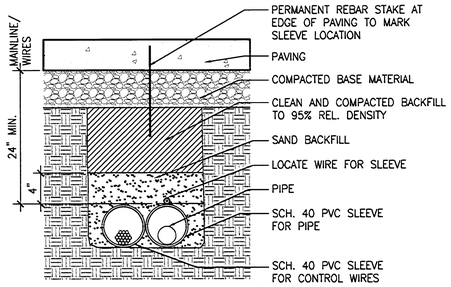
L3

SHEET OF

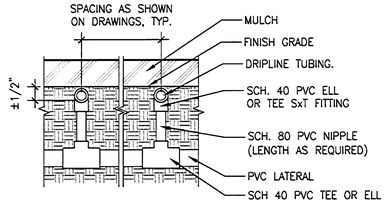
NOTE:
OTHER UTILITIES SHALL NOT SHARE THE SAME TRENCH WITH IRRIGATION LINES.



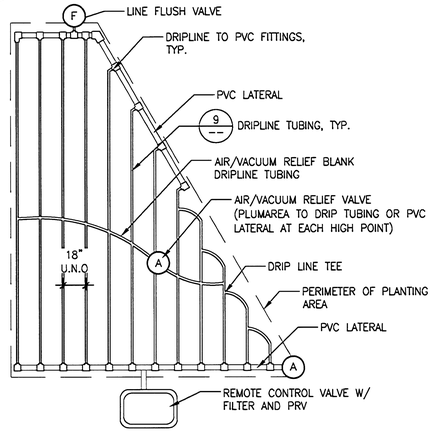
13 PIPE TRENCH
SCALE: X" = 1'-0" PLAN



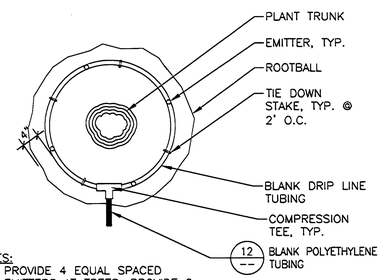
14 PIPE SLEEVE
SCALE: X" = 1'-0" SECTION



9 DRIP TUBING
SCALE: X" = 1'-0" SECTION

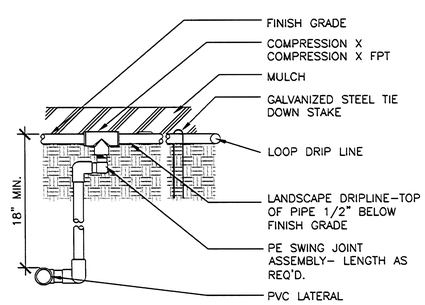


10 DRIPLINE LAYOUT
SCALE: X" = 1'-0" SECTION



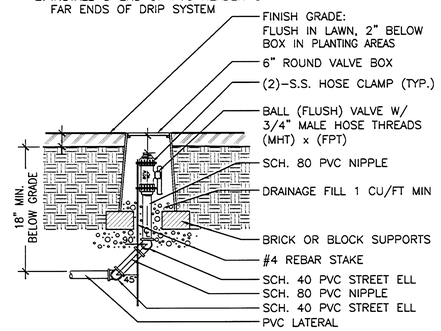
NOTES:
1. PROVIDE 4 EQUAL SPACED EMITTERS AT TREES; PROVIDE 2 EMITTERS AT SHRUBS– LOCATE AT OPPOSITE SIDES OF SHRUB TRUNK.

11 DRIP TREE RING
SCALE: X" = 1'-0" PLAN

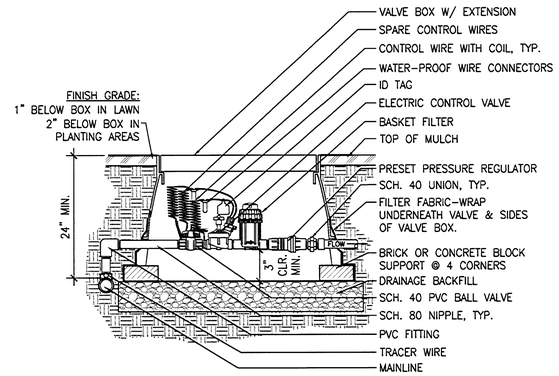


12 DRIP TREE RING
POP-UP SPRAY HEAD SECTION

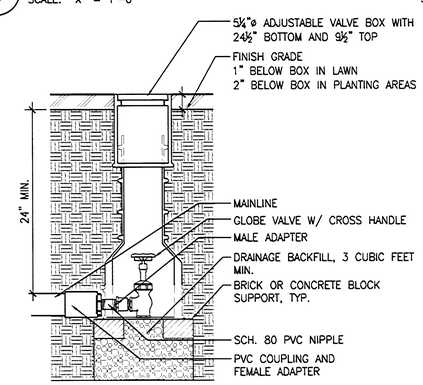
NOTE
1. PROVIDE 2" CLEARANCE BETWEEEN VALVE BOX LID AND FLUSH VALVE
2. INSTALL @ END OF PVC HEADER @ FAR ENDS OF DRIP SYSTEM



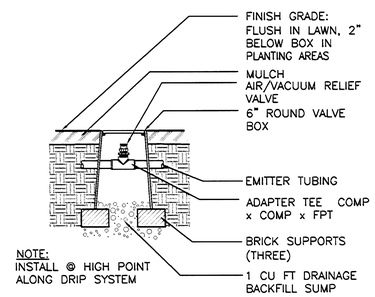
5 DRIP FLUSH VALVE
SCALE: X" = 1'-0" SECTION



6 DRIP IRRIGATION REMOTE CONTROL VALVE
SCALE: X" = 1'-0" SECTION

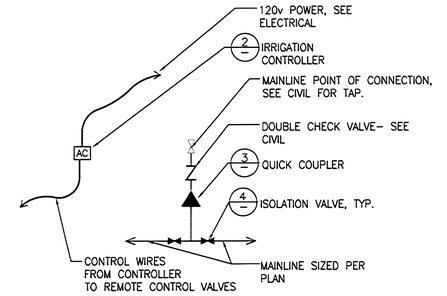


7 DRAIN VALVE
SCALE: X" = 1'-0" SECTION

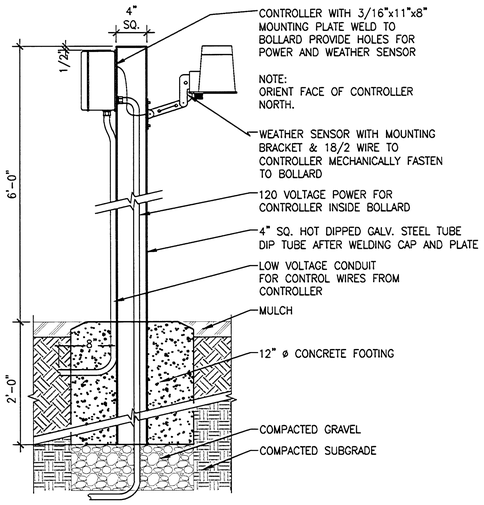


NOTE:
INSTALL @ HIGH POINT ALONG DRIP SYSTEM

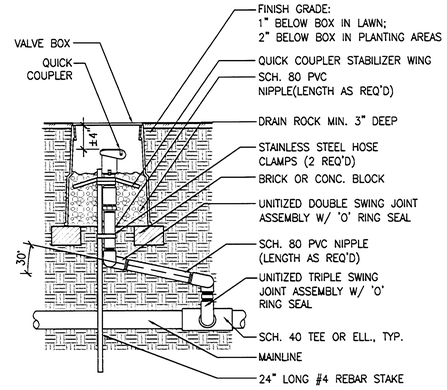
8 DRIP AIR RELIEF
SCALE: X" = 1'-0" SECTION



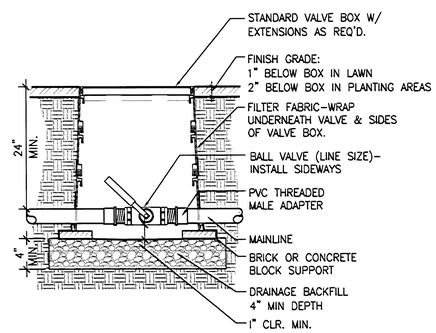
1 POINT OF CONNECTION
SCALE: X" = 1'-0" DIAGRAM



2 CONTROLLER
SCALE: X" = 1'-0" SECTION



3 QUICK COUPLER
SCALE: X" = 1'-0" SECTION



4 ISOLATION VALVE
SCALE: X" = 1'-0" SECTION

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IRRIGATION DETAILS

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ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	KVA	KILOVOLT AMP
A	AMPERE (AMP)	KVAR	KILOVOLT AMPS REACTIVE
AL	ALUMINUM	LA	LIGHTNING ARRESTOR
ARCH	ARCHITECT / ARCHITECTURAL	LTG	LIGHTING
ATS	AUTOMATIC TRANSFER SWITCH	LV	LOW VOLTAGE
CB	CIRCUIT BREAKER	MATV	MASTER ANTENNA TELEVISION
C	CONDUIT	MCA	MINIMUM CIRCUIT AMPS
CCTV	CLOSED CIRCUIT TELEVISION	MCB	MAIN CIRCUIT BREAKER
CKT	CIRCUIT	MCC	MOTOR CONTROL CENTER
CLG	CEILING	MDP	MAIN DISTRIBUTION PANEL
CT	CURRENT TRANSFORMER	MECH	MECHANICAL
CU	COPPER	MH	METAL HALIDE
DN	DOWN	MLO	MAIN LUGS ONLY
EMERG	EMERGENCY	MV	MERCURY VAPOR
EMT	ELECTRIC METALLIC TUBING	MTS	MANUAL TRANSFER SWITCH
EP	EXPLOSION PROOF	NIC	NOT IN CONTRACT
EPO	EMERGENCY POWER OFF	NL	NIGHT LIGHT CIRCUIT
EWC	ELECTRIC WATER COOLER	PA	PUBLIC ADDRESS
FA	FIRE ALARM	PE	PHOTO ELECTRIC CELL
FLA	FULL LOAD AMPS	PF	POWER FACTOR
FLUOR	FLUORESCENT	PNL	PANELBOARD
FCIC	FURNISHED BY CONTRACTOR INSTALLED BY CONTRACTOR	PVC	POLYVINYL CHLORIDE CONDUIT
		PWR	POWER
FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR	SDP	SUB-DISTRIBUTION PANEL
		STR	STARTER
FOIO	FURNISHED BY OWNER INSTALLED BY OWNER	SV	SOLENOID VALVE
		SW	SWITCH
GFP	GROUND FAULT PROTECTION	TD	TIME DELAY
GFI	GROUND FAULT INTERRUPTER	TP	TAMPERPROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TTB	TELEPHONE TERMINAL BOARD
GRC	GALVANIZED RIGID CONDUIT	TTC	TELEPHONE TERMINAL CABINET
GRD	GROUND	TV	TELEVISION
HP	HORSEPOWER	TYP	TYPICAL
HPS	HIGH PRESSURE SODIUM	UG	UNDERGROUND
HSS	HOUSE SIDE SHIELD	UPS	UNINTERRUPTABLE POWER SUPPLY
HV	HIGH VOLTAGE	V	VOLTAGE
HZ	HERTZ	VA	VOLT AMPERES
IG	ISOLATED GROUND	VP	VAPOR PROOF
INC	INCANDESCENT	W	WATTS
JB	JUNCTION BOX	WP	WEATHER PROOF
KW	KILOWATT	XFMR	TRANSFORMER
KWH	KILOWATT HOUR	XFSW	TRANSFER SWITCH
KV	KILOVOLT		

DESIGNATION SYMBOLS

--- 123	EQUIPMENT DESIGNATOR SEE SCHEDULE.
E X	EXISTING TO REMAIN, EXISTING TO BE REMOVED
R F	EXISTING TO BE RELOCATED, FUTURE
N C	NEW, CONNECT TO
1	NOTE

LIGHTING

	CEILING LUMINAIRE: SURFACE, RECESSED
	CEILING LUMINAIRE: PENDANT MOUNTED
	CEILING LUMINAIRE: PENDANT LINEAR
	WALL LUMINAIRE: SURFACE, RECESSED
	WALL WASHER: SURFACE, RECESSED
	TRACK WITH HEADS LOCATED
	FLUORESCENT LUMINAIRE: SURFACE, RECESSED
	FLUORESCENT LUMINAIRE: WALL MOUNTED
	FLUORESCENT LUMINAIRE: BARE LAMP
	POLE LIGHT: LUMINAIRES AS SHOWN
	DESIGNATES LIGHT ON EMERGENCY CIRCUIT
	EXIT LIGHT: CEILING, WALL (ARROWS AS SHOWN)
	BOLLARD
	EMERGENCY BATTERY LIGHT: HEADS AS SHOWN
$ $2	WALL SWITCH: 1 POLE, 2 POLE
$3 $4	WALL SWITCH: 3 WAY, 4 WAY
$K $M	WALL SWITCH: KEY LOCK, MOMENTARY
$LV $P	WALL SWITCH: LOW VOLTAGE, PILOT
$T $D	WALL SWITCH: TIMER, MANUAL DIMMER
A	DESIGNATES LUMINAIRE TYPE (SEE LUMINAIRE SCHEDULE)
NL	DESIGNATES NIGHT LIGHT CIRCUIT
	PHOTOELECTRIC CELL: WALL MOUNTED, CEILING MOUNTED
X X	OCCUPANCY SENSOR: CEILING OR WALL MOUNTED "X" DESIGNATES DEVICE TYPE: S: IN COMBINATION WITH WALL SWITCH U: ULTRASONIC R: INFRARED UR: DUAL TECHNOLOGY, ULTRASONIC/INFRARED

POWER

	WALL RECEPTACLE: SINGLE, DUPLEX
	WALL RECEPTACLE: EMERGENCY, 4-PLEX
	WALL RECEPTACLE: ISOLATED GROUND
	CEILING RECEPTACLE: DUPLEX
	FIRE RATED FLOOR POKE-THRU
	CONNECTION TO EQUIPMENT PROVIDED BY OTHERS
	DENOTES RECEPTACLE ABOVE COUNTER
	SPECIAL PURPOSE OUTLET AS NOTED, EMERGENCY
	CLOCK HANGER RECEPTACLE
	FLUSH IN-FLOOR OUTLET: DUPLEX, COMBINATION
	PEDESTAL OUTLET: POWER, SIGNAL, COMBINATION
	SURFACE OUTLET STRIP: DIMENSION AS SHOWN
	TELEPOWER POLE, POWER, COMBINATION
J	JUNCTION BOX
60A F	DISCONNECT SWITCH: FUSED, NON-FUSED
$M	MOTOR STARTER: MANUAL, MAGNETIC, COMBINATION
	MOTOR CONNECTION
C R S	CONTACTOR, RELAY, SOLENOID
	PUSH BUTTON STATION
	WIRING CONCEALED IN CEILING OR WALL
	WIRING CONCEALED IN FLOOR OR UNDERGROUND
	INDICATES INSULATED GREEN GROUND WIRE
	HOME RUN DESTINATION SHOWN
	CONDUIT ELL: UP, DN.

ONE-LINE

	CIRCUIT BREAKER
	SWITCH, FUSED SWITCH
	BUSS
	AUTOMATIC SWITCH
	METER
	PANEL
	FEEDER CALLOUT
XXX	FAULT CURRENT CALLOUT
G	GENERATOR

EQUIPMENT

	ELECTRICAL EQUIPMENT
	PANELBOARD: SURFACE, RECESSED
	CABINET: SURFACE, RECESSED
T	TRANSFORMER
	GROUND ROD, IN TEST WELL
	GROUND PAD
	EQUIPMENT WITH DERIVED GROUND
V A	VOLTMETER, AMMETER
VS AS	SELECTOR SWITCH: VOLTMETER, AMMETER
KWH PF	METER: KILOWATT HOUR, POWER FACTOR
PT	POTENTIAL TRANSFORMER
CT	CURRENT TRANSFORMER
	CABLE TRAY: CENTER SUPPORT, OUTER SUPPORTS

NOTE

THIS IS A STANDARD LEGEND SHEET, THEREFORE, SOME SYMBOLS MAY APPEAR ON THIS SHEET THAT DO NOT APPEAR ON THE DRAWINGS.

LUMINAIRE SCHEDULE

S1 H.I.D. OUTDOOR POLE MOUNT
1. SIZE: 17 INCH DIAMETER X 22 INCH.
2. LAMP: HIGH PRESSURE SODIUM, ONE 150 WATT.
3. BALLAST: 240 VOLT VAC, HPF, CWL.
4. MOUNTING: TENNON TOP POLE MOUNT.
5. FINISH: BODY OF LUMINAIRE TO BE DARK BRONZE.
6. LENS: CLEAR TEMPERED GLASS.
7. REFLECTOR: SEGMENTED, TYPE III DISTRIBUTION. PROVIDE ONE UNIT WITH HSS
8. ACCESSORIES: FULL BASE COVER.
9. POLE: SIZED TO SUPPORT ONE LUMINAIRE PER POLE WITH APPROPRIATE WIND LOAD AND 1.25 GUST FACTOR FOR PORTLAND, OREGON. ALUMINUM POLE CONSTRUCTION 20 FOOT HIGH. FOR OVERALL INSTALL HEIGHT OF 22 FEET. POLE TO BE NATURAL ALUMINUM COLOR.
10. POLE BASE: STEEL REINFORCED CONCRETE AS SHOWN IN DETAIL.
11. MANUFACTURER: GARDCO FORM TEN ROUND MP SERIES, TO MATCH SIMILAR PRODUCT INSTALLED AT FACILITY.

S2 H.I.D. OUTDOOR POLE MOUNT
1. SIZE: 17 INCH DIAMETER X 22 INCH.
2. LAMP: HIGH PRESSURE SODIUM, ONE 150 WATT.
3. BALLAST: 240 VOLT VAC, HPF, CWL.
4. MOUNTING: TENNON TOP POLE MOUNT.
5. FINISH: BODY OF LUMINAIRE TO BE DARK BRONZE.
6. LENS: CLEAR TEMPERED GLASS.
7. REFLECTOR: SEGMENTED, TYPE V DISTRIBUTION.
8. ACCESSORIES: FULL BASE COVER.
9. POLE: SIZED TO SUPPORT ONE LUMINAIRE PER POLE WITH APPROPRIATE WIND LOAD AND 1.25 GUST FACTOR FOR PORTLAND, OREGON. ALUMINUM POLE CONSTRUCTION 20 FOOT HIGH. FOR OVERALL INSTALL HEIGHT OF 22 FEET. POLE TO BE NATURAL ALUMINUM COLOR.
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NOTE: PRICING FOR THIS PROJECT HAS BEEN ESTABLISHED, CONTRACTOR TO REFER TO QUOTE NUMBER #NN104581.

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-	03/06/13	PERMIT SUBMITTAL

ISSUE

WEST LINN WILSONVILLE SCHOOL DISTRICT
WEST LINN HIGH SCHOOL
STUDENT PARKING LOT IMPROVEMENTS

LEGEND

PROJ NO: 11456-11009

DRWN: CHKD:

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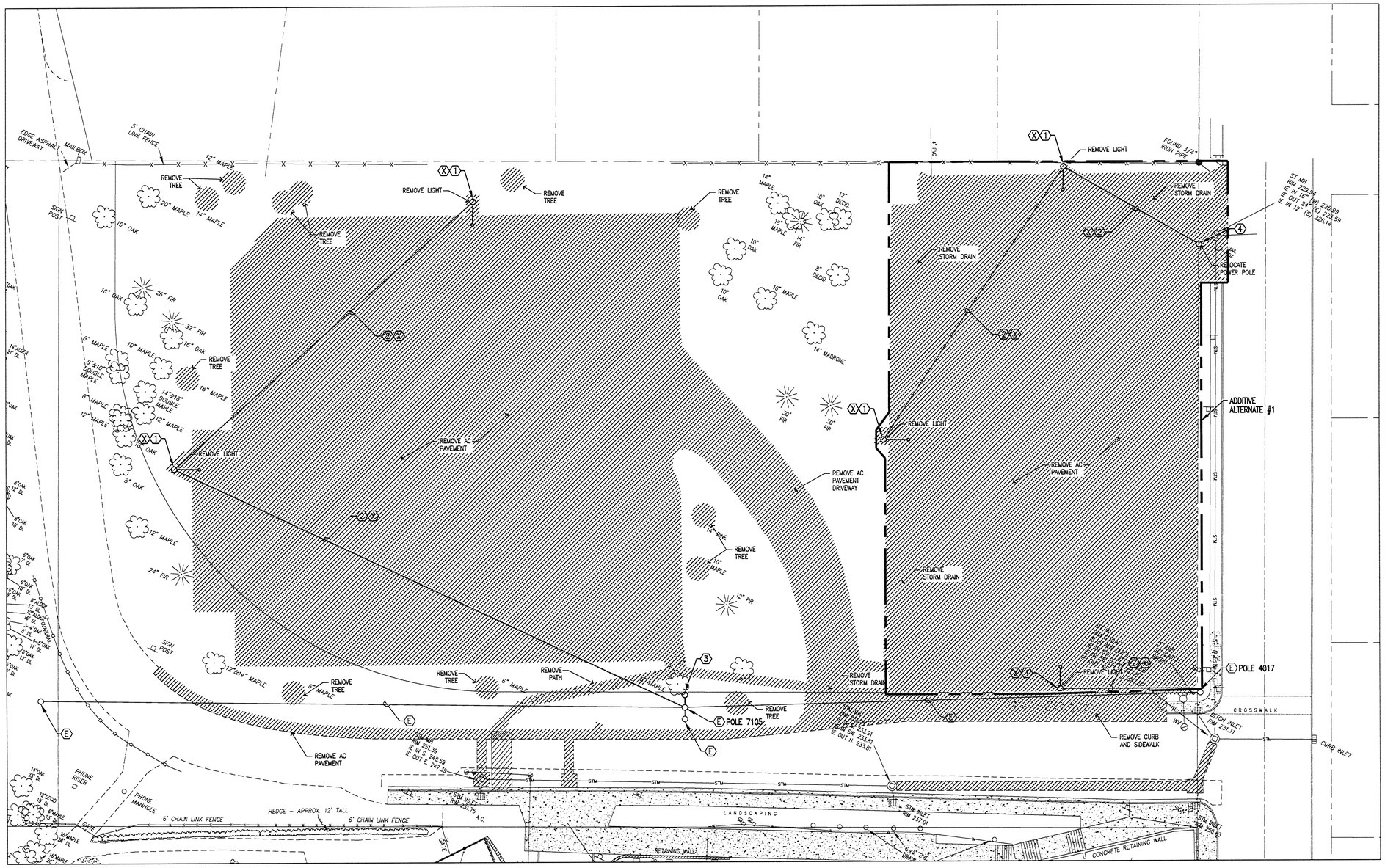
SHEET OF



WLHS – NORTH PARKING PLAN – DEMO

1 / E1.0

SCALE: 1" = 20' – 0"

NOTES:

1. REMOVE PGE POLE AND POLE MOUNTED LIGHT, COORDINATE WITH UTILITY.
2. REMOVE PGE OVERHEAD LIGHTING FEEDER, COORDINATE WITH UTILITY.
3. REMOVE PGE LIGHT FIXTURE FROM NORTH SIDE OF POLE, POLE AND SOUTH LIGHT TO REMAIN.
4. RELOCATE PGE POLE 3958 NORTH OUT OF NEW DRIVEWAY, COORDINATE WITH UTILITY.

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STUDENT PARKING LOT IMPROVEMENTS

DEMO PLAN

PROJ NO: 11456-11009

DRWN: CHKD:

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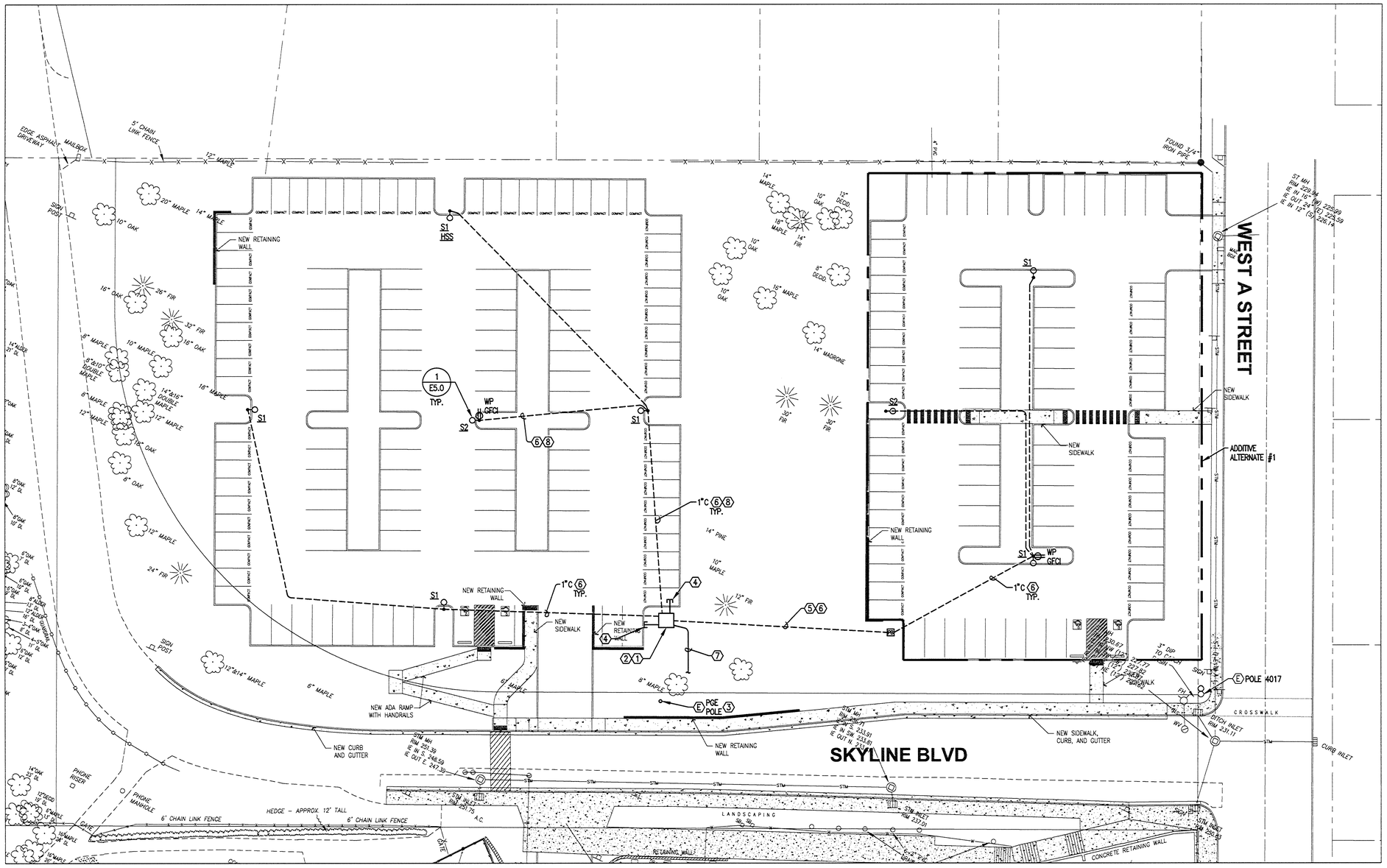

WLHS – NORTH PARKING PLAN – LIGHTING AND POWER

N 1 E2.0

SCALE: 1" = 20' – 0"

GENERAL NOTES:

1. THE CONTRACTOR SHOULD EXPECT TO ENCOUNTER SOLID BASALT ROCK AND/OR LARGE BOULDERS IN THE WESTERN PARKING LOT DURING EXCAVATIONS THAT EXCEED 2 FEET BELOW THE EXISTING SURFACE.

NOTES:

1. SERVICE ENCLOSURE WITH METERING MAIN AND LOAD CENTER. REFER TO DETAIL 2/E5.0
2. PROVIDE A CONCRETE MOUNTING PAD.
3. PGE SERVICE POLE, COORDINATE WITH UTILITY FOR CONNECTION.
4. PROVIDE TWO SPARE 1" UNDERGROUND CONDUITS FOR FUTURE USE. (FOUR TOTAL)
5. PROVIDE FIVE 1" CONDUIT FROM SERVICE ENCLOSURE TO PULL ENCLOSURE.
6. 2 #8, 1 #10 G TYPICAL CONDUCTORS FROM SERVICE ENCLOSURE TO LIGHTING FIXTURES.
7. COORDINATE WITH PGE FOR MAIN POWER SERVICE CONNECTION POINT. ROUTE UNDERGROUND TO PGE POLE.
8. 2 #8, 1 #10G TYPICAL CONDUCTORS FROM SERVICE ENCLOSURE TO POLE MOUNTED RECEPTACLES.

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WEST LINN HIGH SCHOOL
STUDENT PARKING LOT IMPROVEMENTS

LIGHTING AND POWER PLAN

PROJ NO: 11456-11009

DRWN: CHKD:

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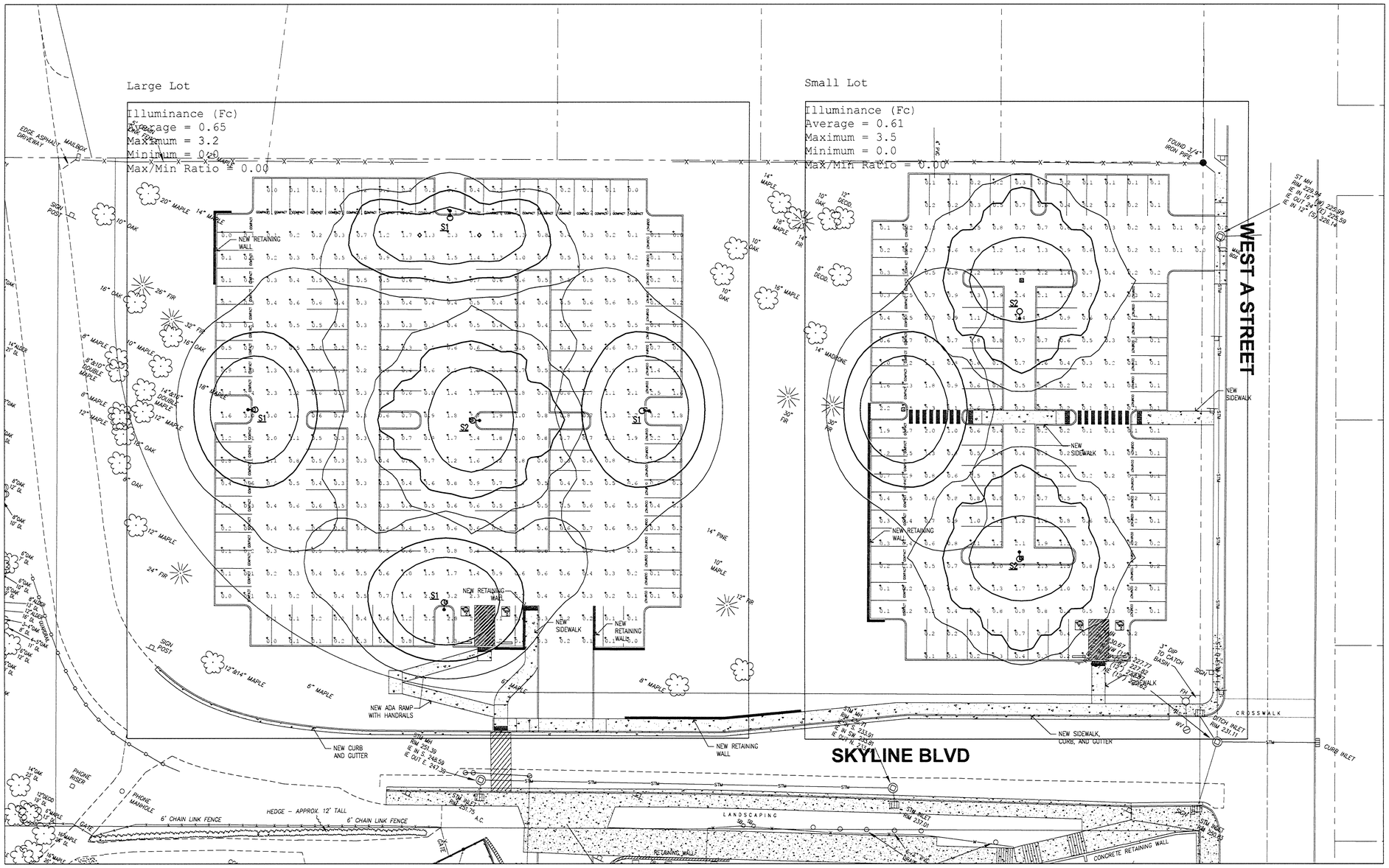

WLHS – NORTH PARKING PLAN – LIGHTING CALCULATIONS

N 1 E2.1

SCALE: 1" = 20' - 0"

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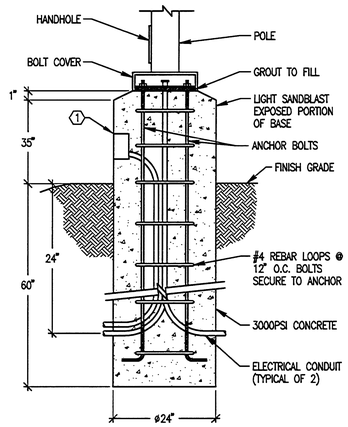


NOTE: CONCRETE BASE / FOOTING DESIGN SHALL BE VERIFIED AND APPROVED BY A STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR STRUCTURAL ENGINEERING AND COORDINATING ALL POLE REQUIREMENTS WITH THE MANUFACTURER AND LOCAL AUTHORITY HAVING JURISDICTION AND SHALL MEET ALL APPLICABLE CODES.

1 / E5.0 EXTERIOR LIGHTING POLE BASE DETAIL

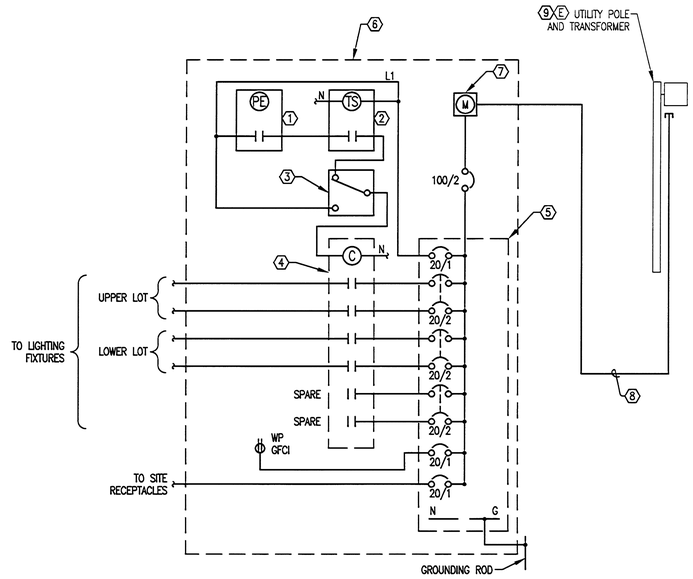
SCALE: NONE

GENERAL NOTES:

1. THE CONTRACTOR SHOULD EXPECT TO ENCOUNTER SOLID BASALT ROCK AND/OR LARGE BOULDERS IN THE WESTERN PARKING LOT DURING EXCAVATIONS THAT EXCEED 2 FEET BELOW THE EXISTING SURFACE.

NOTES:

1. PROVIDE A SINGLE GANG CAST IN BOX FOR DUPLEX RECEPTACLE AND CONDUIT, REFER TO SITE PLAN FOR LOCATIONS.



NOTES:

1. PHOTO ELECTRIC CELL, 120VAC, SPDT CONTACTS WITH ADJUSTABLE LIGHT SENSOR.
2. PROGRAMMABLE ELECTRONIC TIMER WITH BATTERY BACKUP, 24 HOUR FORMAT, 120VAC.
3. SELECTOR SWITCH, ON–OFF–AUTO BYPASS.
4. LIGHTING CONTACTOR, ELECTRICALLY HELD, 20 AMP CONTACTS, 120VAC COIL.
5. BUILT IN LOAD CENTER PANEL 100 AMP, 240/120VAC, 1 PHASE, 16 POLE.
6. WEATHER PROOF, LOCKABLE, SERVICE ENCLOSURE WITH METERING MAIN AND LOAD CENTER, MILBANK CP3B ML SERIES, CIRCUE AW. 42 KAIC RATED OR APPROVED.
7. METER SOCKET TO MEET UTILITY REQUIREMENTS LOCATED IN SEPARATE SEALABLE AND LOCKABLE UTILITY TERMINATION SECTION.
8. UNDERGROUND CONDUIT FROM SERVICE POLE, SIZE PER UTILITY REQUIREMENTS.
9. COORDINATE WITH PGE FOR SERVICE POLE LOCATION AND CONNECTION REQUIREMENTS.

2 / E5.0 SERVICE PEDESTAL ONE–LINE

SCALE: NONE

THESE RECORD DRAWINGS ARE PREPARED AFTER THE COMPLETION OF CONSTRUCTION BASED ON THE ORIGINAL DRAWINGS. THE REVISIONS ARE BASED SOLELY ON INFORMATION PROVIDED BY THE CONTRACTOR. THE CONSULTANT HAS NOT INDEPENDENTLY VERIFIED THE INFORMATION PROVIDED BY THE CONTRACTOR AND IS NOT RESPONSIBLE FOR ANY VARIATIONS BETWEEN THE CONDITIONS SHOWN ON THE RECORD DRAWINGS AND THE ACTUAL CONDITIONS.

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BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

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MARK	DATE	DESCRIPTION
-	12/13/13	RECORD DRAWINGS
-	03/06/13	PERMIT SUBMITTAL

ISSUE

WEST LINN WILSONVILLE SCHOOL DISTRICT
WEST LINN HIGH SCHOOL
STUDENT PARKING LOT IMPROVEMENTS

DETAILS

PROJ NO: 11456-11009

DRWN: CHKD:

E5.0

SHEET OF

GENERAL SITE NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE. CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND BECOMING FAMILIAR WITH THE SITE CONDITIONS PRIOR TO BIDDING.
2. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THAT NEW FEATURES TIE INTO EXISTING SITE DEVELOPMENT, PAVEMENT JOINTS MATCH CORRECTLY, AND THAT GENERAL DESIGN ELEVATIONS FOR NEW CONSTRUCTION PROVIDE PROPER PAVEMENT AND DRAINAGE SLOPES FROM EXISTING TIE IN POINTS. REPORT DISCREPANCIES TO OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
3. IN AREAS WHERE ASPHALT PAVING IS BEING REWORKED, PROVIDE NEW PAINT STRIPING FOR ALL REVISED PAVING WORK AND PARKING STALLS. EXISTING STRIPING TO BE GROUND OFF IN RECONFIGURED AREAS AS REQUIRED.
4. ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH CITY INSPECTOR(S). CONTRACTOR SHALL NOTIFY CITY INSPECTOR(S) 48 HOURS PRIOR TO START OF CONSTRUCTION.
5. DURING CONSTRUCTION, THE CONTRACTOR AND/OR SUBCONTRACTORS SHALL HAVE A MINIMUM OF ONE (1) SET OF PERMIT APPROVED PLANS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.
6. UPON COMPLETION OF THE CONSTRUCTION PROJECT, THE CONTRACTOR SHALL LEAVE THE PROJECT AREA FREE OF DEBRIS AND UNUSED MATERIAL. ALL DAMAGE CAUSED BY THE CONTRACTOR SHALL BE RESTORED TO AN "AS GOOD OR BETTER" CONDITION.
7. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO CITY OF WEST LINN STANDARDS AND SPECIFICATIONS.
8. SURVEY OF EXISTING CONDITIONS PREPARED BY COMPASS ENGINEERING. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL SURVEY DATA. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING RIGHT-OF-WAY LINES, SLOPE EASEMENTS, AND ALL HORIZONTAL AND VERTICAL CONTROL PRIOR TO CONSTRUCTION.
9. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING AND SHALL ARRANGE FOR STAKING WITH A LICENSED SURVEYOR. STAKING WILL BE REVIEWED BY OWNER FOR CONFORMATION TO DESIGN PRIOR TO CONSTRUCTION.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL CONSTRUCTION. ADEQUATE SHORING BRACING, TIES, AND SUPPORTS SHALL BE USED TO PROVIDE PROPER TEMPORARY INTEGRITY DURING ALL PHASES OF CONSTRUCTION.
11. ALL DITCHES, SWALES, GUTTERS, ETC. SHOULD BE CONSIDERED ACTIVE STORM CONVEYANCES UNLESS OTHERWISE INDICATED. CONTRACTOR IS RESPONSIBLE FOR ADDRESSING STORM WATER DRAINAGE AND DEWATERING OF WORK AREAS DURING CONSTRUCTION.
12. ALL EXISTING LANDSCAPED AND UNPAVED AREAS WHICH ARE DISTURBED BY CONSTRUCTION OR EARTHWORK OPERATIONS SHALL BE HAND RAKED SMOOTH AND RETURNED TO ORIGINAL EXISTING CONDITIONS. DISTURBED LANDSCAPED AREAS SHALL RECEIVE BARK DUST AND REPLACEMENT PLANTINGS. DISTURBED NATURAL AREAS SHALL BE HYDROSEEDED TO REPLACE NATIVE COVER. DISTURBED GRAVEL AREAS SHALL RECEIVE REPLACEMENT GRAVEL OR CRUSHED ROCK SURFACING.
13. ALL EXISTING MONUMENTS SHALL BE PROTECTED DURING CONSTRUCTION. IF ANY MONUMENTS ARE DISTURBED OR DESTROYED DURING CONSTRUCTION, CONTRACTOR SHALL RETAIN THE SERVICES OF A REGISTERED LAND SURVEYOR TO RESTORE THE MONUMENT TO ITS ORIGINAL CONDITION AND FILE THE NECESSARY SURVEYS AS REQUIRED BY STATE LAW.
14. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL DURING CONSTRUCTION OPERATIONS. CONTRACTOR TO SUBMIT A TRAFFIC CONTROL PLAN TO THE CITY OF WEST LINN FOR REVIEW – PLAN TO BE APPROVED BY CITY OF WEST LINN PRIOR TO START OF ANY CONSTRUCTION OPERATIONS IN 4TH AVENUE. A MINIMUM OF ONE TRAFFIC LANE IS TO REMAIN OPEN ALONG 4TH AVENUE AT ALL TIMES.

GENERAL EROSION CONTROL NOTES:

1. ALL EROSION, SEDIMENT, AND POLLUTION CONTROL PLAN (ESPCP) MEASURES SHALL BE INSTALLED AS PER THE DETAIL DRAWINGS IN THE CITY OF WEST LINN EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
2. ESCP MEASURES SHALL NOT BE REMOVED UNTIL FINAL INSPECTION HAS BEEN REQUESTED AND APPROVED BY A CITY OF WEST LINN INSPECTOR.
3. INSPECTIONS MAY BE REQUESTED BY TELEPHONING CITY OF WEST LINN ONE DAY PRIOR TO THE TIME OF INSPECTION.
4. THE IMPLEMENTATION OF THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF ESCP FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED.
5. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD THE CONTRACTOR MAY BE REQUIRED TO IMPLEMENT ADDITIONAL EROSION CONTROL MEASURES TO ENSURE THAT NO SEDIMENT LADEN WATER EXITS THE SITE OR ENTERS THE EXISTING STORMWATER SYSTEM.
6. THE ESCP FACILITIES SHALL BE INSPECTED DAILY BETWEEN OCTOBER 1 AND APRIL 30 BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. ALL INSPECTIONS SHALL BE NOTED IN AN INSPECTION LOG WHICH SHALL BE MADE AVAILABLE TO THE CITY OF WEST LINN INSPECTOR UPON REQUEST.
7. ESCP FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF EVERY TWO WEEKS OR WITHIN 24 HOURS FOLLOWING A STORM EVENT.
8. EXPOSED SOILS THAT REMAIN UNWORKED FOR 14 DAYS OR MORE SHALL BE IMMEDIATELY PROTECTED BY APPROPRIATE GROUND COVER. DISTURBED LAND THAT WILL REMAIN UNWORKED FOR 2 MONTHS OR LONGER SHALL ALSO BE SEEDED WITH AN APPROVED SEED MIXTURE.
9. PUBLIC STREETS WILL BE SWEPT DAILY, IF NECESSARY, TO ALLEVIATE SEDIMENT DISCHARGE TO THE STORM WATER MANAGEMENT SYSTEM. UNFILTERED WASH WATER CANNOT BE DISCHARGED TO STORM DRAINS.
10. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THEY ARE NO LONGER NEEDED.

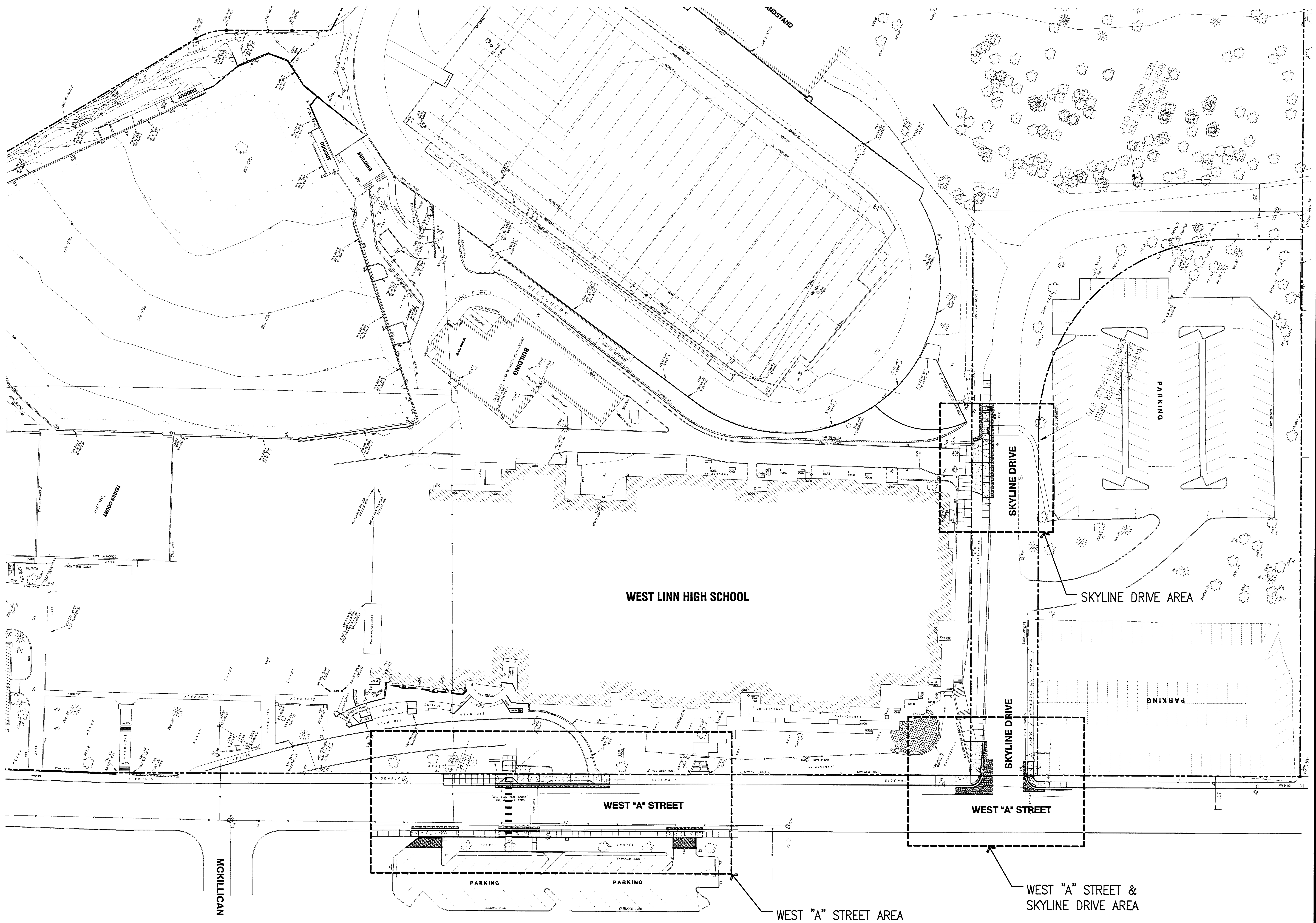
UTILITY NOTES

1. LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE PLOTTED FROM RECORD DRAWINGS AND INTERPOLATION OF PHYSICAL EVIDENCE ON THE SITE AND ARE SUBJECT TO FIELD VERIFICATION BY THE CONTRACTOR.
2. ALL LOCATIONS FOR WORK SHALL BE CHECKED AND COORDINATED WITH EXISTING CONDITIONS IN THE FIELD BEFORE BEGINNING CONSTRUCTION UNDER THIS SECTION OR ANY OTHER SECTION.
3. THE WORKING DRAWINGS ARE GENERALLY DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW REQUIRED FOR INSTALLATION IN THE SPACE PROVIDED. THEY DO NOT SHOW EVERY DIMENSION, COMPONENT PIECE, OR FITTING REQUIRED TO COMPLETE THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND WORKING SYSTEM. ALL ADDITIONAL WORK OR PARTS TO CONFORM TO CITY OF WEST LINN STANDARDS AND APPROVAL.
4. CONTRACTOR SHALL COORDINATE A UTILITY LOCATE 48 HOURS PRIOR TO BEGINNING ANY UTILITY CONSTRUCTION FOR LOCATION MARK-UP OF ALL EXISTING UTILITIES BOTH IN THE RIGHT-OF-WAY AND ON PRIVATE PROPERTY. CONTRACTOR SHALL COORDINATE THE UTILITY LOCAL WITH MUNICIPALITY HAVING JURISDICTION FOR ALL UTILITY WORK WITHIN A PUBLIC RIGHT-OF-WAY. INFORM ENGINEER IMMEDIATELY IF LOCATE INDICATES THAT EXISTING UTILITIES ARE DIFFERENT THAN SHOWN ON DRAWINGS. PRE-SURVEY LOCATING REQUESTS SHALL BE 14 DAYS IN ADVANCE.
5. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES, FEATURES, AND STRUCTURES LOCATED ON THE SITE. LOCATE, PROTECT, AND AVOID DISRUPTION OF ALL ABOVE AND BELOW GRADE UTILITIES DURING CONSTRUCTION.
6. ALL UTILITY CONSTRUCTION ON PRIVATE PROPERTY SHALL CONFORM TO THE LATEST EDITION OF THE OREGON PLUMBING SPECIALTY CODE. ALL UTILITY CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE STANDARD REQUIREMENTS OF THE MUNICIPALITY HAVING JURISDICTION.
7. ALL BURIED LINES TO HAVE 3 FEET MINIMUM COVER, UNLESS NOTED OTHERWISE.
8. ALL EXISTING UTILITIES AND TIE-IN POINTS SHOULD BE CONSIDERED ACTIVE UTILITIES UNLESS OTHERWISE INDICATED.

ATTENTION EXCAVATORS

OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS BEFORE COMMENCING ANY EXCAVATION. CALL 503-246-6699.

2013-10-30 1:32 PM KPTOLLE
G:\11456 - WLWSD (WEST LINN-WILSONVILLE SCHOOL DISTRICT)\11456-11006 WLWSD HS ADA RAMPS\06-CAD\SHEETS\11456-11006_C1_GENERAL ARRANGEMENT.DWG



1 / C1 C1 GENERAL ARRANGEMENT
SCALE: 1"=40'-0"

SURVEY NOTES

1. TOPOGRAPHIC FEATURES SHOWN ON THIS MAP WERE LOCATED USING STANDARD PRECISION TOPOGRAPHIC MAPPING PROCEDURES. THIRD PARTY USERS OF DATA FROM THIS MAP PROVIDED VIA AUTOCAD DRAWING FILES OR DATA EXCHANGE FILES SHOULD NOT RELY ON ANY AUTOCAD GENERATED INFORMATION WHICH IS BEYOND THE LIMITS OF PRECISION OF THIS MAP. THIRD PARTIES, USING DATA FROM THIS MAP IN AN AUTOCAD FORMAT, SHOULD VERIFY ANY ELEMENTS REQUIRING PRECISE LOCATIONS PRIOR TO COMMENCEMENT OF ANY CRITICAL DESIGN OR CONSTRUCTION. CONTACT COMPASS ENGINEERING FOR FURTHER INFORMATION. FURTHERMORE, COMPASS ENGINEERING WILL NOT BE RESPONSIBLE NOR HELD LIABLE FOR ANY DESIGN OR CONSTRUCTION RELATED PROBLEMS THAT ARISE OUT OF THIRD PARTY USAGE OF THIS MAP (IN AUTOCAD OR OTHER FORMAT) FOR ANY PURPOSE OTHER THAN SPECIFICALLY STATED HEREIN. THIS STATEMENT IS AN OFFICIAL PART OF THIS MAP.
2. THE LOCATION OF UTILITIES (SANITARY SEWER, WATER, NATURAL GAS, AND ELECTRICITY) SERVING THIS PROPERTY ARE BASED UPON FIELD MARKINGS MADE BY THE LOCAL UTILITY AGENTS AND RECORD INFORMATION THEY HAVE PROVIDED. COMPASS CORPORATION MAKES NO WARRANTIES WITH REGARDS TO THE ACCURACY OR COMPLETENESS OF DATA SHOWN. ADDITIONAL UTILITIES MAY EXIST.
3. THE STORM SEWER FEATURES (MANHOLES, CATCH BASINS AND DRAINS) WERE FIELD TIED. THE UNDERGROUND PIPELINES CONNECTING THESE FEATURES WERE DRAWN USING FIELD DATA.
4. THE LOCATION OF BUILDINGS SHOWN ON THIS SURVEY ARE BASED UPON FIELD MEASUREMENTS TAKEN AT THE BUILDING FACE.
5. CONTOUR INTERVALS ARE 1 FOOT.
6. BOUNDARY IS PER P.S. 17363 AND P.S. 17653, CLACKAMAS COUNTY SURVEY RECORDS. BASIS OF BEARINGS FOR THIS PROJECT ARE ASSUMED "NORTH" FROM POINT NUMBER 4 TO POINT NUMBER 1.

COMPASS ENGINEERING
ENGINEERING SURVEYING PLANNING
6564 S.E. LAKE ROAD MILWAUKIE, OREGON 97222 www.compass-engineering.com (503) 653-9093 PHONE (503) 653-9095 FAX

SURVEY LEGEND

Symbol	Line
CATCH BASIN	CURB
CLEANOUT	OVERHEAD POWER
FIRE HYDRANT	EDGE OF PAVEMENT
LIGHT POLE	FENCE, CHAIN LINK UNLESS NOTED OTHERWISE
POWER POLE	EDGE OF GRAVEL
STM MH	STORM LINE
WATER METER	GAS LINE
WATER VALVE	SANITARY SEWER LINE
SPRINKLER	UNDERGROUND POWER

CIVIL ABBREVIATIONS

A.C.	ASPHALT CONCRETE
IE	INVERT ELEVATION
FS	FINISH SURFACE
G	GUTTER
NTS	NOT TO SCALE
ROW	RIGHT-OF-WAY
SDCB	STORM DRAIN CATCH BASIN
TC	TOP OF CURB

GENERAL NOTE
ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE CITY OF WEST LINN PUBLIC WORKS STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS.

1" = 40'-0" 40' 0 40' 80' 120'

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MARK	DATE	DESCRIPTION
-	10/30/2013	RECORD DRAWING
ISSUE		

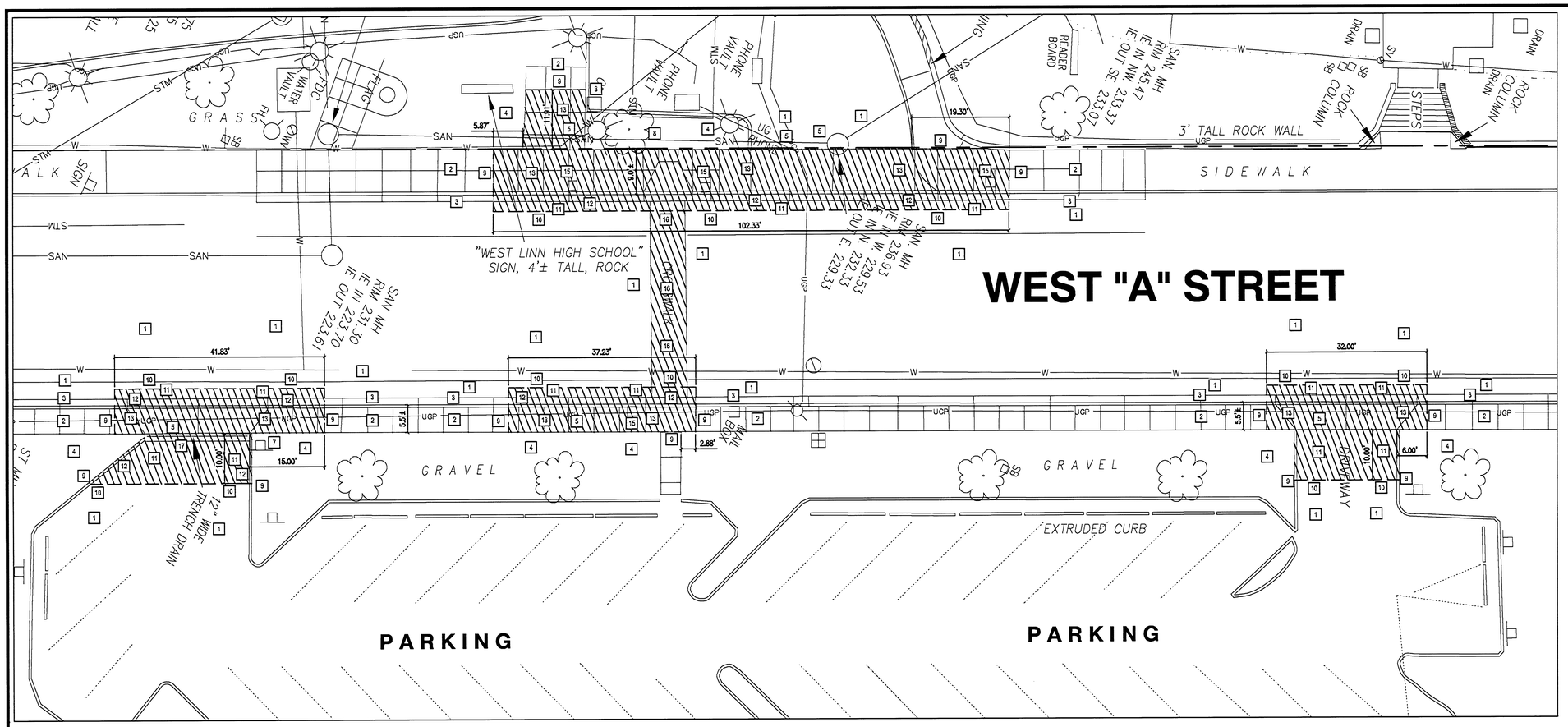
WEST LINN-WILSONVILLE SCHOOL DISTRICT
WEST LINN HIGH SCHOOL
PUBLIC ADA IMPROVEMENTS

GENERAL ARRANGEMENT & NOTES

PROJ NO: 11456-11006
DRWN: STS CHKD: MBW

C1

SHEET OF



1 C2|C2 DEMOLITION PLAN
WEST "A" STREET
SCALE: 1"=10'-0"

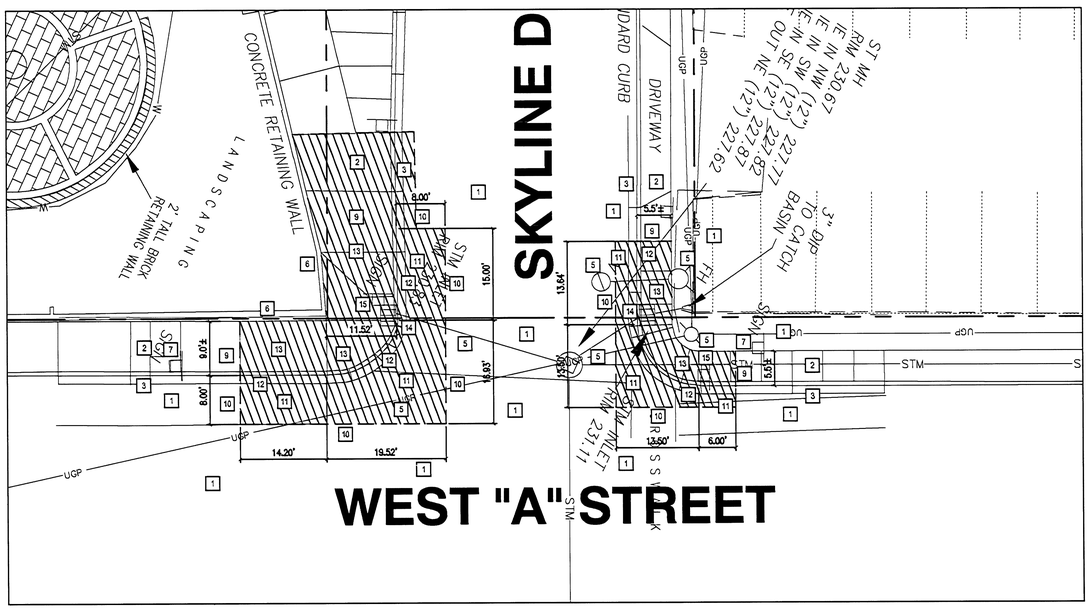
N

DEMOLITION GENERAL NOTES

1. DEMOLITION REQUIREMENTS SHOWN ON THESE DRAWINGS ARE GENERALLY DIAGRAMMATIC: THEY ARE INTENDED TO ILLUSTRATE THE GENERAL SCOPE OF DEMOLITION. THEY DO NOT IDENTIFY EVERY ELEMENT TO BE REMOVED. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING A DETAILED SCOPE OF DEMOLITION FROM OWNER AND FROM EXAMINATION OF EXISTING SITE CONDITIONS.
2. CONTRACTOR SHALL SUBMIT A DEMOLITION PLAN, PRIOR TO CONSTRUCTION, OUTLINING ALL ITEMS TO BE REMOVED.
3. DEMOLISHED ITEMS SHALL BE REMOVED FROM THE SITE EXCEPT THOSE ITEMS IDENTIFIED AS "TO REMAIN", "SAVE AND PROTECT", OR "SALVAGE FOR OWNER".
4. ALL LINES THAT ARE CUT AT THE LIMITS OF DEMOLITION OR POINT OF DISCONNECTION WITHIN THE WORK AREA SHALL BE CAPPED OR PLUGGED WATER TIGHT TO CITY OR OWNER'S APPROVAL. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TEMPORARY ACCESS.
5. DEMOLITION PERMIT MUST BE OBTAINED AND APPROPRIATE EROSION CONTROL MEASURES IN PLACE PRIOR TO ANY DEMOLITION ACTIVITIES TAKING PLACE.

DEMOLITION NOTES

1. SAVE AND PROTECT EXISTING ASPHALT THROUGHOUT CONSTRUCTION ACTIVITIES.
2. SAVE AND PROTECT EXISTING CONCRETE THROUGHOUT CONSTRUCTION ACTIVITIES.
3. SAVE AND PROTECT EXISTING CURB THROUGHOUT CONSTRUCTION ACTIVITIES.
4. SAVE AND PROTECT EXISTING LANDSCAPING THROUGHOUT CONSTRUCTION ACTIVITIES.
5. SAVE AND PROTECT EXISTING UTILITIES THROUGHOUT CONSTRUCTION ACTIVITIES.
6. SAVE AND PROTECT EXISTING RETAINING WALL THROUGHOUT CONSTRUCTION ACTIVITIES.
7. SAVE AND PROTECT EXISTING SIGN THROUGHOUT CONSTRUCTION ACTIVITIES.
8. SAVE AND PROTECT EXISTING TREE DURING CONSTRUCTION.
9. SAWCUT EXISTING CONCRETE.
10. SAWCUT EXISTING A.C. PAVING. UNLESS OTHERWISE NOTED, SAWCUT LINE SHOULD BE 24" FROM LIP OF GUTTER, OR TO COMPETENT PAVEMENT SECTION, WHICHEVER IS GREATER.
11. DEMOLISH AND REMOVE EXISTING ASPHALT PAVING SECTION. REMOVE TO ADEQUATE SUBGRADE TO PROVIDE COMPLETE NEW PAVING SECTION AS DETAILED. REMOVE ALL ASPHALT WITHIN DEMOLITION LIMITS AND DISPOSE OFFSITE.
12. DEMOLISH AND REMOVE EXISTING CONCRETE CURB & GUTTER AND DISPOSE OF OFF-SITE.
13. DEMOLISH AND REMOVE EXISTING CONCRETE SIDEWALK AND DISPOSE OF OFF-SITE.
14. DEMOLISH AND REMOVE EXISTING CURB INLET AND DISPOSE OF OFF-SITE. SAVE AND PROTECT EXISTING STORM PIPE FOR CONNECTION TO NEW CATCH BASIN.
15. REMOVE EXISTING SIGN. SALVAGE SIGN FOR RE-INSTALLATION.
16. REMOVE EXISTING CROSSWALK STRIPING.
17. DEMOLISH AND REMOVE EXISTING TRENCH DRAIN AND DISPOSE OF OFF-SITE. SAVE AND PROTECT EXISTING STORM PIPE FOR CONNECTION TO NEW TRENCH DRAIN.
18. DEMOLISH AND REMOVE EXISTING CURB INLET AND STORM PIPE LATERAL DISPOSE OF OFF-SITE. GROUT EXISTING MANHOLE AT CURB INLET LATERAL PENETRATION TO CREATE WATER-TIGHT SEAL.



2 C2|C2 DEMOLITION PLAN
WEST "A" ST. & SKYLINE DR.
SCALE: 1"=10'-0"

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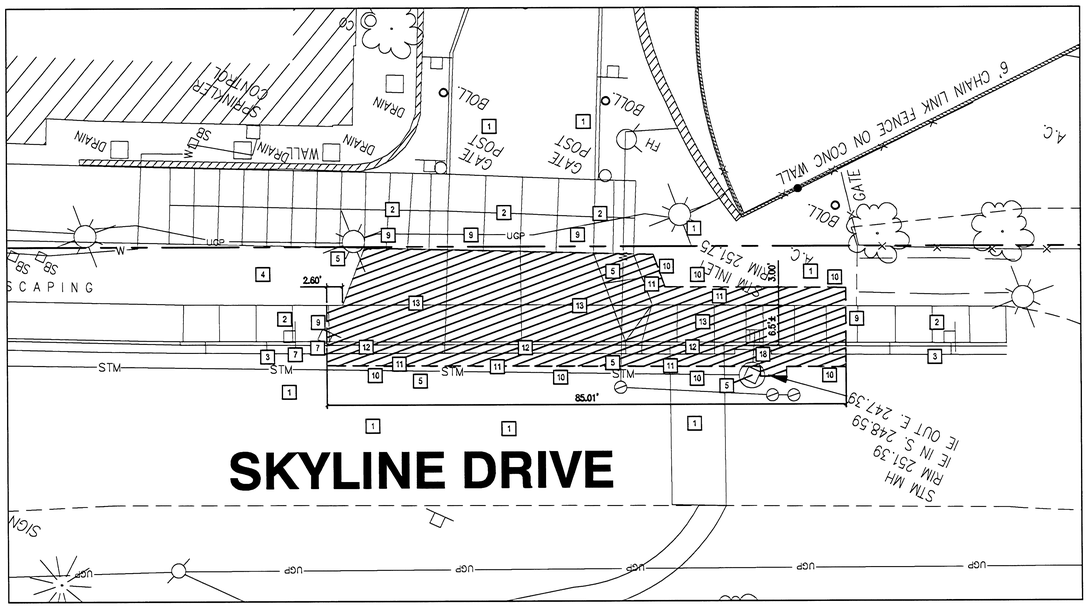

3 C2|C2 DEMOLITION PLAN
SKYLINE DRIVE
SCALE: 1"=10'-0"

N

1" = 10'-0" 10' 0 10' 20' 30'

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BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

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MARK	DATE	DESCRIPTION	ISSUE
-	10/30/2013	RECORD DRAWING	

WEST LINN- WILSONVILLE SCHOOL DISTRICT
WEST LINN HIGH SCHOOL
PUBLIC ADA IMPROVEMENTS

DEMOLITION PLAN

PROJ NO: 11456-11006
DRWN: STS CHKD: MBW

C2

SHEET OF

2013-10-30 1:32 PM KEYOLLE
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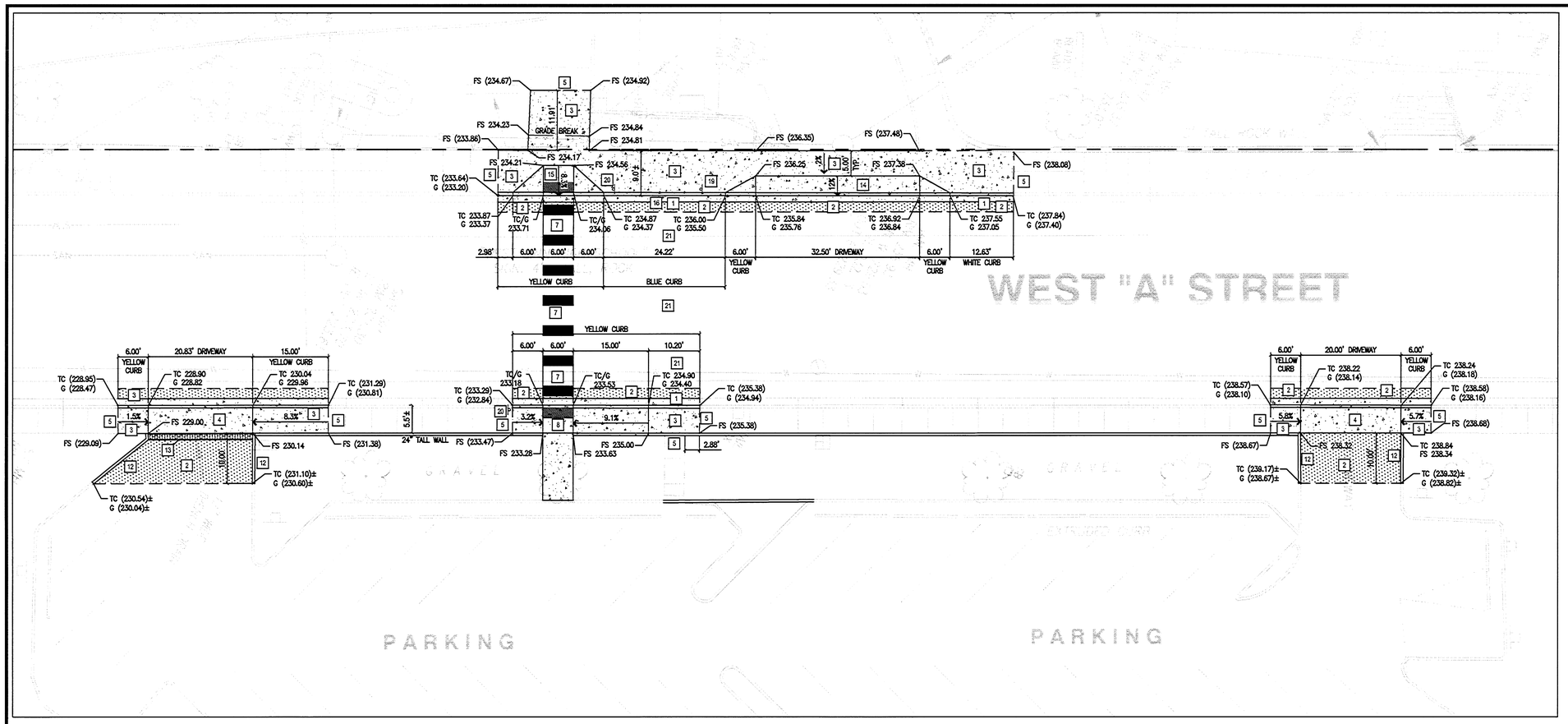
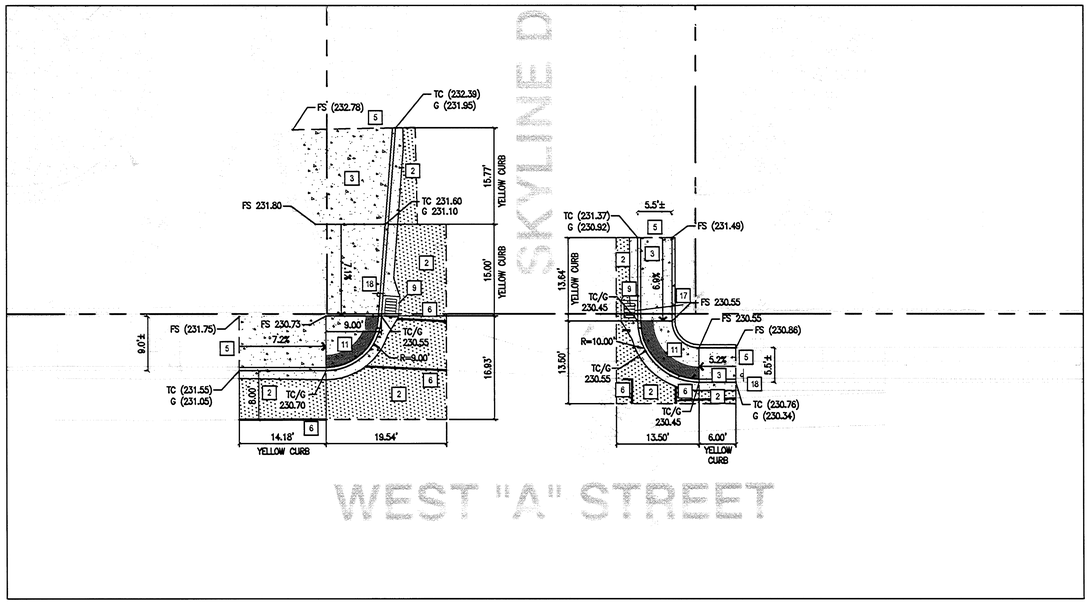


1 C3|C3 SITE PLAN
WEST "A" STREET
SCALE: 1"=10'-0"

N

SITE CONSTRUCTION NOTES

1. CONSTRUCT TYPICAL CONCRETE CURB AND GUTTER. PAINT CURB COLOR INDICATED ON PLAN. — 1 C3|C4
2. INSTALL ASPHALT PAVEMENT. MATCH EXISTING AC PAVING, PROVIDE TACK COAT AT JOINT. — 2 C3|C4
3. INSTALL CONCRETE SIDEWALK. — 5 C3|C4
4. CONSTRUCT CONCRETE DRIVEWAY – STYLE #1. — 3 C3|C4
5. CONNECT NEW SIDEWALK TO EXISTING SIDEWALK. — 6 C3|C4
6. INSTALL WHITE THERMOPLASTIC STRIPING.
7. INSTALL WHITE THERMOPLASTIC CROSSWALK STRIPING. — 4 C3|C5
8. CONSTRUCT CURB RAMP – STYLE #1. — 4 C3|C4
9. INSTALL CONCRETE CATCH BASIN. CONNECT TO EXISTING STORM DRAIN PIPING. — 7 C3|C4
10. PATCH ASPHALT WALKWAY IN KIND. MATCH EXISTING AC PAVING, PROVIDE TACK COAT AT JOINT.
11. CONSTRUCT CURB RAMP – STYLE #2. — 2 C3|C5
12. INSTALL TYPICAL STRAIGHT CONCRETE CURB & PAINT CURB YELLOW. — 1 C3|C4
13. INSTALL CAST-IN-PLACE TRENCH DRAIN. CONNECT TO EXISTING STORM DRAIN PIPING. — 5 C3|C5
14. CONSTRUCT CONCRETE DRIVEWAY – STYLE #2. — 1 C3|C5
15. CONSTRUCT CURB RAMP – STYLE #3. — 3 C3|C5
16. PAINT CURB BLUE WITH WHITE "POLICE PARKING ONLY" STENCIL.
17. CONNECT SIDEWALK UNDERDRAIN TO NEW CATCH BASIN.
18. INSTALL SALVAGED "STOP" SIGN.
19. INSTALL SALVAGED "PERMIT PARKING ONLY" SIGN.
20. INSTALL SALVAGED PEDESTRIAN CROSSING SIGN.
21. RE-ESTABLISH ROADWAY STRIPING WHERE CROSSWALK STRIPING WAS REMOVED.
22. INSTALL TRUNCATED DOME WARNING STRIP. — 4 C3|C4
23. INSTALL COMBINATION CURB INLET AND ASTM 3034 PVC STORM PIPE, SIZE TO MATCH EXISTING, 10" MINIMUM. CONNECT TO EXISTING MANHOLE USING FLEXIBLE CONNECTOR. — 6 C3|C5, 7 C3|C5



2 C3|C3 SITE PLAN
WEST "A" ST. & SKYLINE DR.
SCALE: 1"=10'-0"

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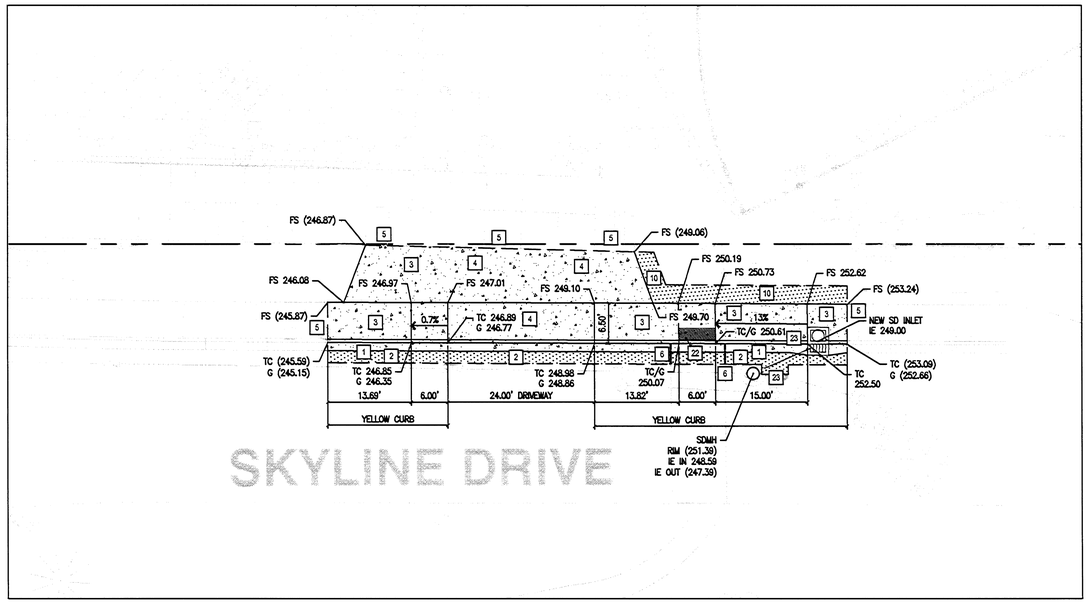

3 C3|C3 SITE PLAN
SKYLINE DRIVE
SCALE: 1"=10'-0"

N

1" = 10'-0" 10' 0 10' 20' 30'

GHD Inc.
15575 SW Sequoia Parkway Suite 140 Portland Oregon 97224 USA
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BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

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MARK	DATE	DESCRIPTION
-	10/30/2013	RECORD DRAWING

ISSUE

WEST LINN-WILSONVILLE SCHOOL DISTRICT
WEST LINN HIGH SCHOOL
PUBLIC ADA IMPROVEMENTS

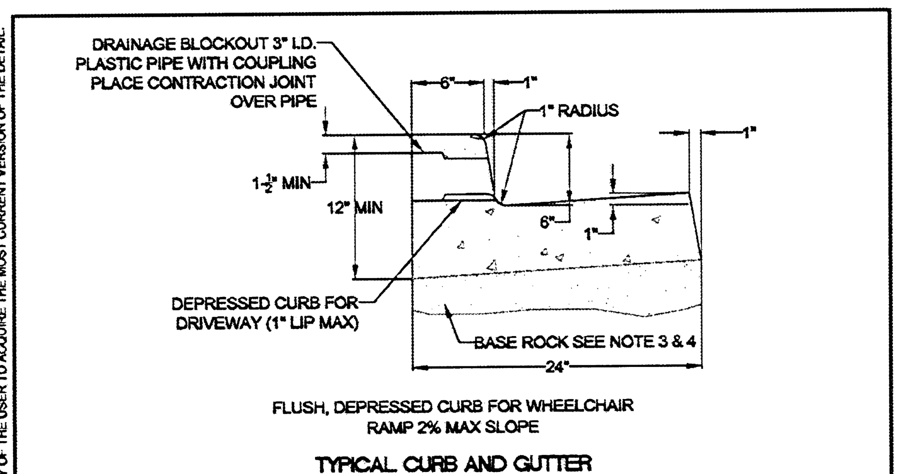
SITE PLAN

PROJ NO: 11456-11006
DRWN: STS CHKD: MBW

C3

SHEET OF

2013-10-30 1:31 PM KPTOLLE
G:\11456 - WLWSD (WEST LINN-WILSONVILLE SCHOOL DISTRICT)\11456-11006 WLWSD HS ADA RAMPS\06-CAD\SHEETS\11456-11006_C3_SITE.DWG



NOTE:
1. CONCRETE SHALL HAVE A BREAKING STRENGTH OF 3300 PSI AFTER 28 DAYS
2. CONTRACTION JOINTS:
   A) TO BE PROVIDED:
      -AT EACH POINT OF TANGENCY
      -AT EACH COLD JOINT
      -AT EACH SIDE OF INLET STRUCTURES
      -AT BOTH SIDES OF AN APPROACH
   B) SPACING TO BE NOT MORE THAN 15 FEET
   C) THE DEPTH OF THE JOINT SHALL BE AT LEAST 1/3 OF THE THICKNESS OF CONCRETE
   D) EXPANSION JOINTS SHALL NOT BE USED
3. BASE ROCK - 1-1/2"-0", 95% COMPACTION PER AASHTO T-180 ROCK SHALL BE TO SUBGRADE OF THE STREET SECTION OR 4" IN DEPTH, WHICHEVER IS GREATER
4. FULL DEPTH PREPARED ROCK SECTION SHALL EXTEND 1' HORIZONTALLY BEYOND BOTH SIDES OF CURB AND GUTTER
5. DRAINAGE BLOCK - 3" DIA. PLASTIC PIPE
   A) DRAINAGE ACCESS THROUGH EXISTING CURBS SHALL BE DONE BY:
      -CORE DRILLING
      -VERTICAL SAWCUT OF CURB 24" EACH SIDE OF DRAIN AND RE-POURED TO FULL DEPTH OF CURB
6. STAMP TOP OF CURB WITH "W" AT WATER SERVICE CROSSING AND "S" AT SANITARY LATERAL CROSSING

TYPICAL CURBS
City of West Linn | DATE: 2010 | DRAWING NO. WL-501 | FILE NO.

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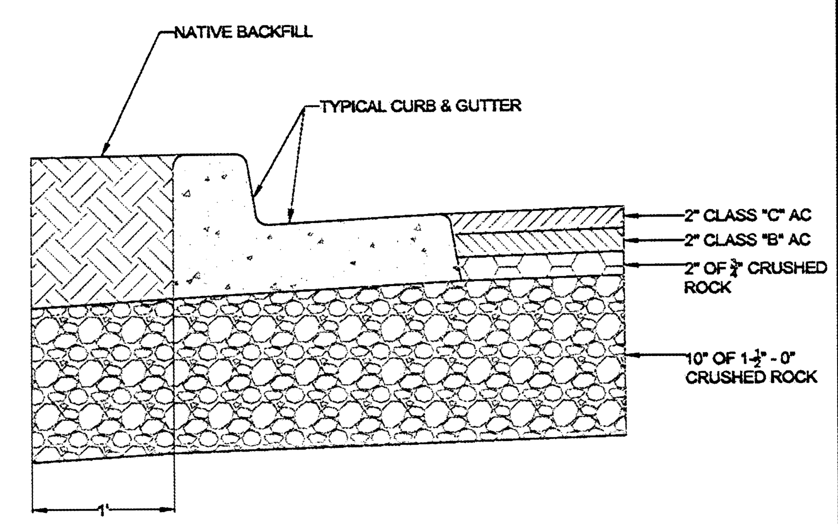
1 (C3|C4) TYPICAL CURBS
SCALE: NTS



NOTE:
1. UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER, STREETS SHALL BE PAVED TO FINAL GRADE USING 2 OR MORE LIFTS. FINAL LIFT SHALL BE PLACED ONLY AFTER ACCEPTANCE OF THE FIRST LIFT AT A TIME AS DIRECTED OR APPROVED BY THE CITY ENGINEER
2. BASE SHALL BE PREPARED I FOOT BEHIND CURB
3. SEE SECTION 5.0030 PAVEMENT DESIGN FOR ALL ROADWAYS CLASSIFIED COLLECTOR OR HIGHER

ALLEY, LOCAL AND NEIGHBORHOOD ROAD STRUCTURAL SECTIONS
City of West Linn | DATE: 2010 | DRAWING NO. WL-502 | FILE NO.

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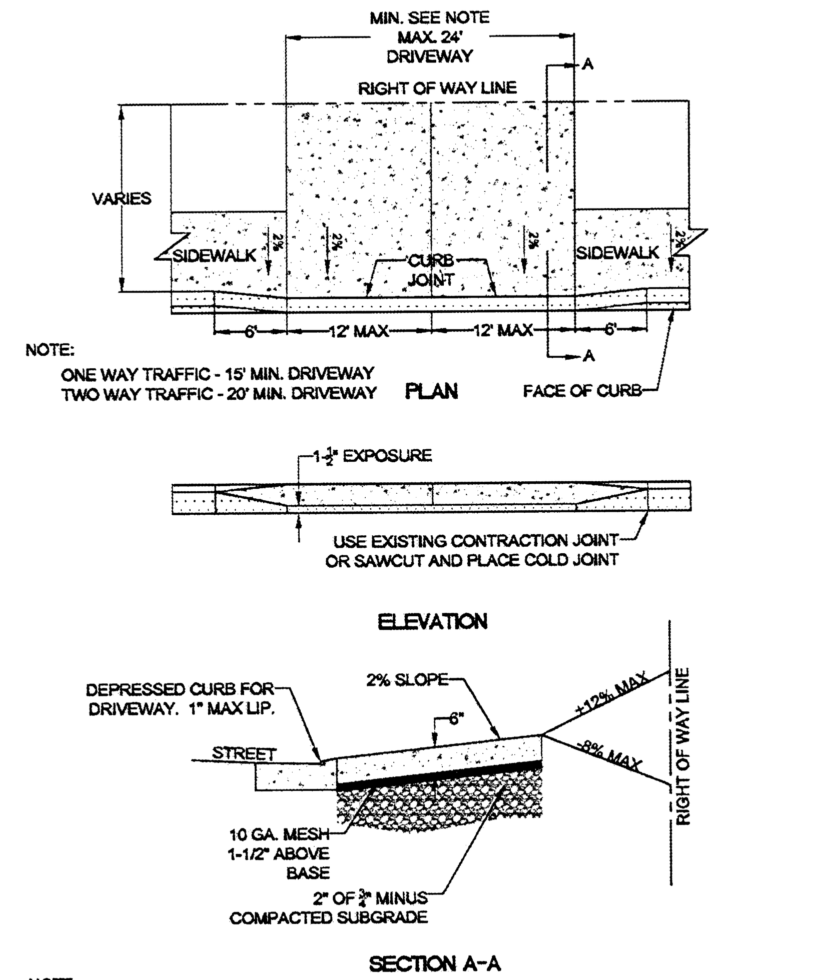
2 (C3|C4) TYPICAL PAVEMENT SECTION
SCALE: NTS



NOTE:
ONE WAY TRAFFIC - 15' MIN. DRIVEWAY
TWO WAY TRAFFIC - 20' MIN. DRIVEWAY

NOTE:
1. CONCRETE SHALL HAVE A MINIMUM BREAKING STRENGTH OF 4000 PSI AFTER 28 DAYS, 6 SACK MIX
2. CURB JOINT SHALL BE A TROWELED JOINT WITH A.MIN. 1/2" RADIUS ALONG BACK OF CURB
3. DRIVEWAY SHALL BE A MINIMUM 6" THICK
4. DRIVEWAY CURB CUT SHALL COMPLY WITH THE CONDITIONS OF 5.0070, "WIDTH AND LOCATION OF CURB CUTS"

COMMERCIAL DRIVEWAY WITH SIDEWALK ADJACENT TO CURB
City of West Linn | DATE: 2010 | DRAWING NO. WL-504B | FILE NO.

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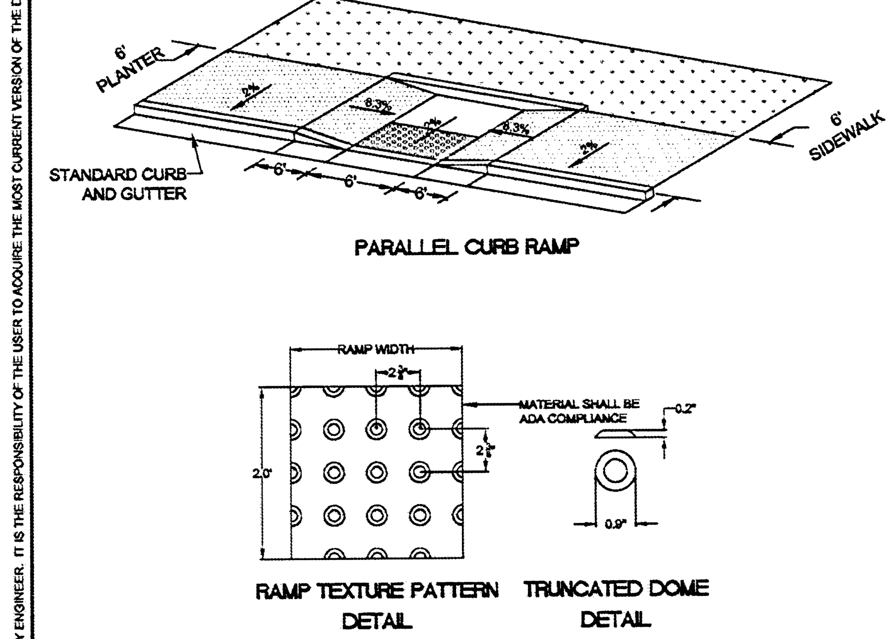
3 (C3|C4) COMMERCIAL DRIVEWAY - STYLE #1
SCALE: NTS

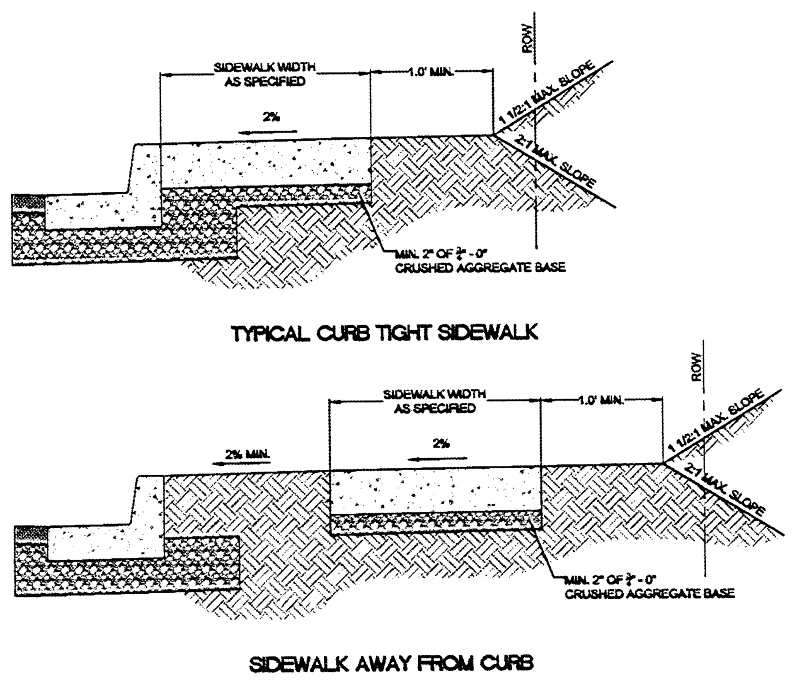


NOTE:
1. LANDING AT TOP OF RAMP SHALL NOT EXCEED 2% IN ANY DIRECTION AND SHALL BE A MINIMUM OF 60" x 60".
2. RAMP CROSS SLOPE SHALL NOT EXCEED 2% (AS MEASURED PERPENDICULAR TO PEDESTRIAN TRAFFIC FLOW).
3. TRUNCATED DOME MUST EXTEND THE FULL WIDTH OF THE RAMP AND COVER THE FIRST 2 FEET OF THE RAMP CLOSEST TO THE STREET.
4. TRANSITIONS FROM THE RAMP TO THE WALKWAY, GUTTER, AND STREET MUST BE FLUSH (LEVEL) AND FREE OF ABRUPT LEVEL CHANGES.
5. THE GUTTER OR ADJACENT ROADWAY MUST HAVE A SLOPE OF NO MORE THAN 5 PERCENT (1:20) TOWARD THE RAMP.
6. FLARED SIDES ("WING") OF THE CURB RAMP SHALL NOT EXCEED 10% IN SLOPE (8.33% IF PEDESTRIAN TRAVEL IS REQUIRED OVER THEM PER ADA STANDARDS - I.E. IF MINIMUM 48" x 48" (FOR EXISTING SITES ONLY) LANDING IS NOT PROVIDED AT TOP OF RAMP).
7. CONCRETE STRENGTH SHALL BE 3300 PSI.
8. PLACE CONTRACTION JOINTS AS SHOWN ABOVE.
9. NO ABOVE GROUND UTILITIES ARE PERMITTED WITHIN RAMP AREA.

PARALLEL CURB RAMP
CURB TIGHT
City of West Linn | DATE: 2010 | DRAWING NO. WL-506C | FILE NO.

THIS DETAIL DRAWING SHALL NOT BE ALTERED OR CHANGED IN ANY MANNER EXCEPT BY THE CITY ENGINEER. IT IS THE RESPONSIBILITY OF THE USER TO ACQUIRE THE MOST CURRENT VERSION OF THE DETAIL.

4 (C3|C4) CURB RAMP - STYLE #1
SCALE: NTS



NOTE:
1. CONCRETE SHALL BE 3300 PSI AT 28 DAYS.
2. PANEL LENGTHS SHALL BE EQUAL TO THE SIDEWALK WIDTH, BUT MAY BE ADJUSTED WITH THE CITY ENGINEER'S APPROVAL.
3. CONTRACTION JOINTS (1/3RD OF THE THICKNESS OF CONCRETE) SHALL BE PLACED EVERY THIRD PANEL, WITH A MAX. SPACING OF 15 FEET. JOINTS SHALL ALSO BE PLACED AT THE SIDES OF DRIVEWAY APPROACHES, UTILITY VAULTS, AND WHEELCHAIR RAMPS.
4. A CURING COMPOUND SHALL BE USED. WHITE REFLECTIVE SHEETING SHALL BE USED IN CASE OF RAIN.
5. FOR SIDEWALKS ADJACENT TO THE CURB AND POURED AT THE SAME TIME AS THE CURB, THE JOINT BETWEEN THEM SHALL BE A TROWELED JOINT WITH A MIN. 1/2" RADIUS.
6. THE SIDEWALK SHALL HAVE A MIN. THICKNESS OF 6" IF THE SIDEWALK IS INTENDED AS A PORTION OF THE THE DRIVEWAY. OTHERWISE, THE SIDEWALK SHALL HAVE A MIN. THICKNESS OF 4".
7. DRAIN BLOCKOUTS IN THE CURB SHALL BE EXTENDED TO THE BACK OF THE SIDEWALK WITH A 3" DIAMETER PLASTIC PIPE AT A 2% SLOPE. A CONTRACTION JOINT SHALL BE PLACED OVER THE PIPE.

CONCRETE SIDEWALK CROSS SECTION
City of West Linn | DATE: 2010 | DRAWING NO. WL-508 | FILE NO.

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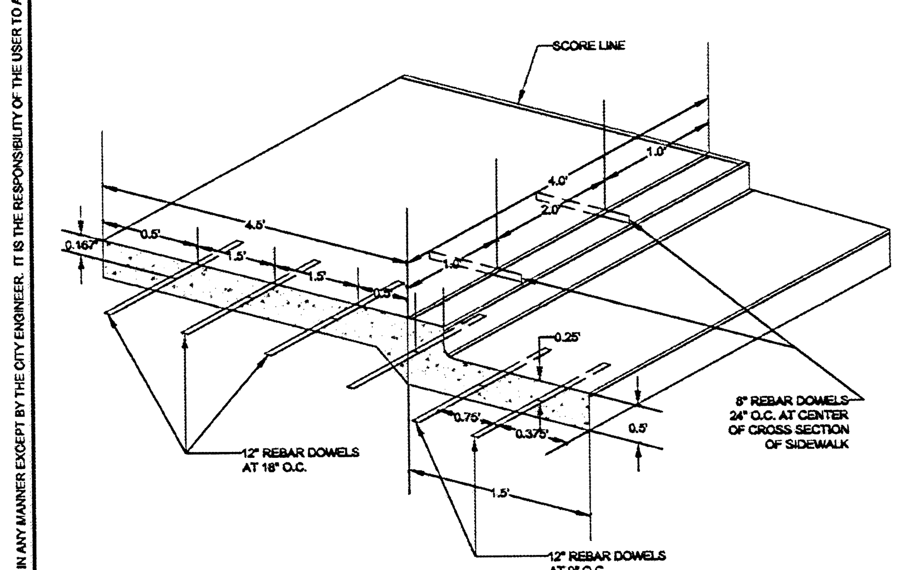
5 (C3|C4) TYPICAL SIDEWALK
SCALE: NTS



CURB, GUTTER AND SIDEWALK DOWELING DETAIL
City of West Linn | DATE: 2010 | DRAWING NO. WL-511 | FILE NO.

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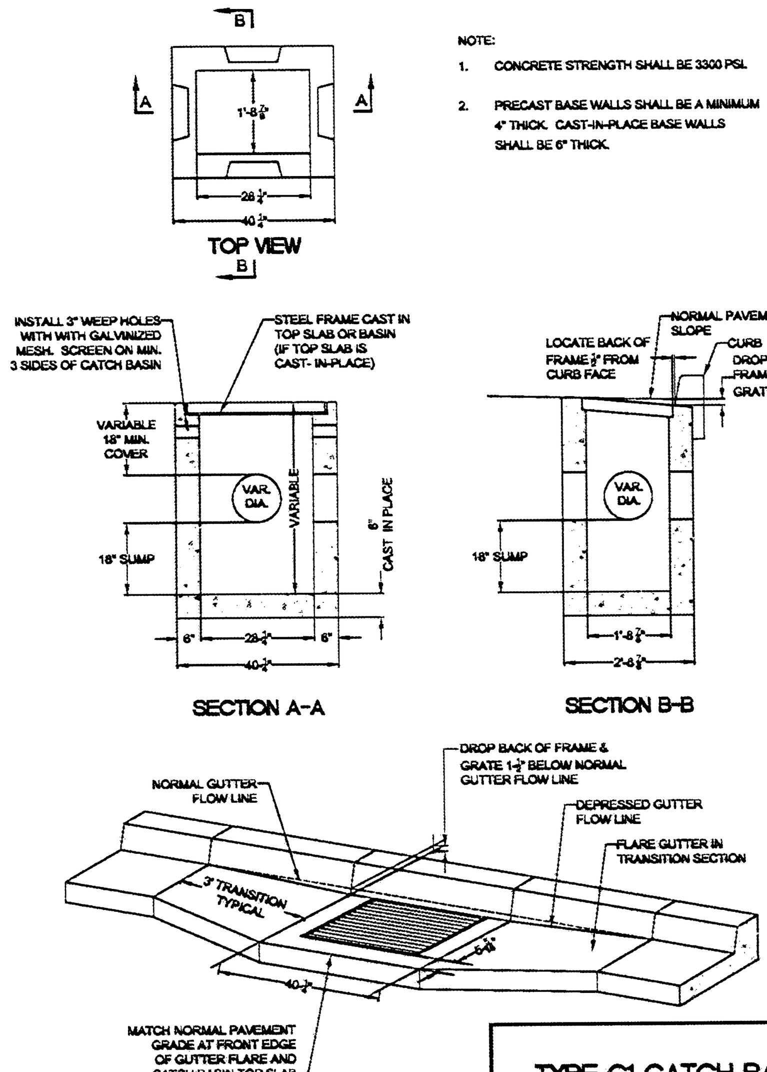
6 (C3|C4) CONCRETE DOWELING
SCALE: NTS



NOTE:
1. CONCRETE STRENGTH SHALL BE 3300 PSI.
2. PRECAST BASE WALLS SHALL BE A MINIMUM 4" THICK. CAST-IN-PLACE BASE WALLS SHALL BE 6" THICK.

NOTE:
PRECAST TOP SLAB SHOWN WITH GUTTER TRANSITION FLARE IF THE TOP SLAB IS CAST-IN-PLACE, NO FLARE IS REQUIRED IN THE TRANSITION SECTION. MATCH THE TOP FRONT EDGE OF THE FRAME AND THE TOP FRONT EDGE OF THE CAST-IN-PLACE TOP SLAB TO THE NORMAL PAVEMENT GRADE.

TYPE G1 CATCH BASIN WITH SUMP
City of West Linn | DATE: 2010 | DRAWING NO. WL-602A | FILE NO.

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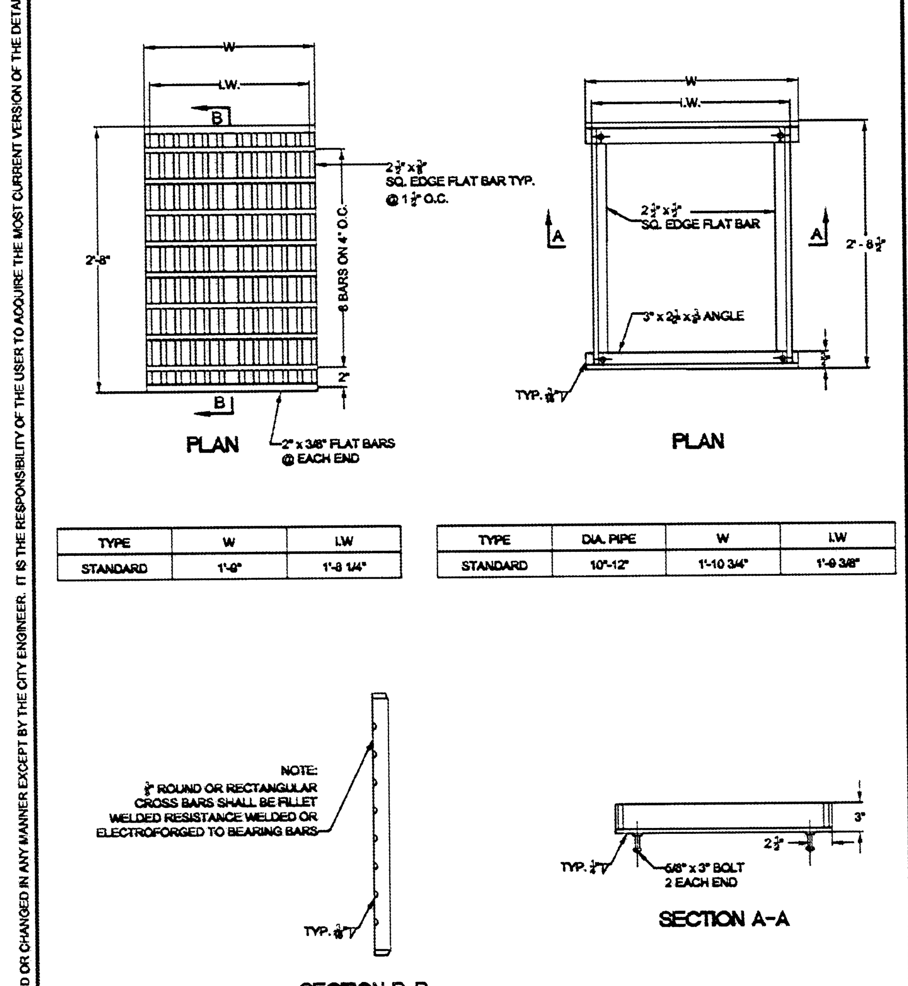
7 (C3|C4) CATCH BASIN
SCALE: NTS



TYPE	W	I.W
STANDARD	1'-9"	1'-8 1/4"

TYPE	DIA. PIPE	W	I.W
STANDARD	10"-12"	1'-10 3/4"	1'-9 3/8"

NOTE:
USE VERTICAL BEADS IN CORNERS, FILLET WELD JOINT ON BOTTOM OF FRAME. GRATE MUST REST FLAT ON FRAME SURFACE.

FRAME AND GRATE FOR GUTTER AND CURB INLET
City of West Linn | DATE: 2010 | DRAWING NO. WL-602B | FILE NO.

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8 (C3|C4) CATCH BASIN FRAME AND GRATE
SCALE: NTS

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-	10/30/2013	RECORD DRAWING

ISSUE

WEST LINN- WILSONVILLE SCHOOL DISTRICT
WEST LINN HIGH SCHOOL
PUBLIC ADA IMPROVEMENTS

DETAILS

PROJ NO: 11456-11006
DRWN: STS CHKD: MBW

C4

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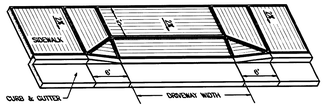
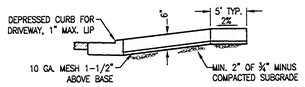
2013-10-30 1:30 PM KPTOLLE
G:\11456 - WLWSD (WEST LINN-WILSONVILLE SCHOOL DISTRICT)\11456-11006 WLWSD HS ADA RAMPS\06-CAD\SHEETS\11456-11006_C4_DETAILS.DWG



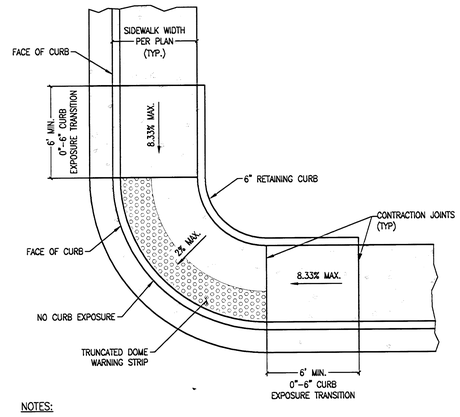


SECTION THROUGH DRIVEWAY RAMP

NOTES:

1. CONCRETE SHALL HAVE A MINIMUM BREAKING STRENGTH OF 4000 PSI AFTER 28 DAYS, 6 SACK MIX
2. CURB JOINT SHALL BE A TROWELED JOINT WITH A MIN. 1/2" RADIUS ALONG BACK OF CURB
3. DRIVEWAY CONCRETE SHALL BE A MINIMUM OF 6" THICK
4. DRIVEWAY CURB CUT SHALL COMPLY WITH THE CONDITIONS OF 5.0070, "WIDTH AND LOCATION OF CURB CUTS"

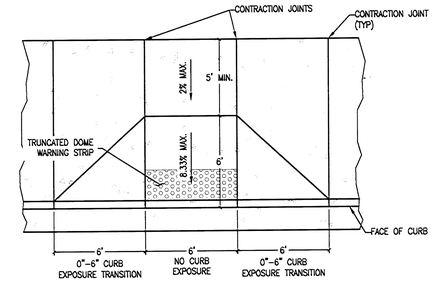
1 C3|C5 COMMERCIAL DRIVEWAY - STYLE #2
SCALE: NTS



NOTES:

1. LANDING AT TOP OF RAMP SHALL NOT EXCEED 2% IN ANY DIRECTION AND SHALL BE A MINIMUM OF 60" x 60".
2. RAMP CROSS SLOPE SHALL NOT EXCEED 2% (AS MEASURED PERPENDICULAR TO PEDESTRIAN TRAFFIC FLOW).
3. TRUNCATED DOME MUST EXTEND THE FULL WIDTH OF THE RAMP AND COVER THE FIRST 2 FEET OF THE RAMP CLOSEST TO THE STREET. SEE CITY OF WEST LINN STANDARD DRAWING WL-506C FOR TRUNCATED DOME DETAIL.
4. TRANSITIONS FROM THE RAMP TO THE WALKWAY, GUTTER, AND STREET MUST BE FLUSH (LEVEL) AND FREE OF ABRUPT LEVEL CHANGES.
5. THE GUTTER OR ADJACENT ROADWAY MUST HAVE A SLOPE OF NO MORE THAN 5 PERCENT (1:20) TOWARD THE RAMP.
6. FLARED SIDE ("WINGS") OF THE CURB RAMP SHALL NOT EXCEED 10% IN SLOPE (8.33% IF PEDESTRIAN TRAVEL IS REQUIRED OVER THEM PER ADA STANDARDS).
7. CONCRETE STRENGTH SHALL BE 3300 PSI.
8. PLACE CONTRACTION JOINTS AS SHOWN ABOVE.
9. NO ABOVE GROUND UTILITIES ARE PERMITTED WITHIN RAMP AREA.

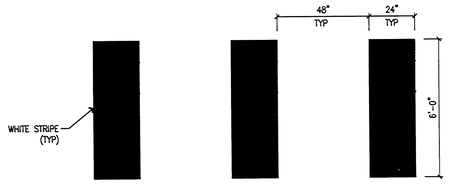
2 C3|C5 CURB RAMP - STYLE #2
SCALE: NTS



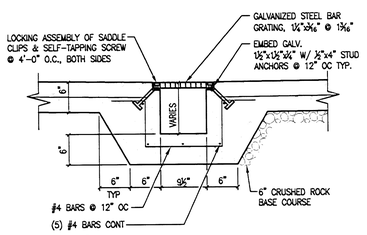
NOTES:

1. LANDING AT TOP OF RAMP SHALL NOT EXCEED 2% IN ANY DIRECTION AND SHALL BE A MINIMUM OF 60" x 60".
2. RAMP CROSS SLOPE SHALL NOT EXCEED 2% (AS MEASURED PERPENDICULAR TO PEDESTRIAN TRAFFIC FLOW).
3. TRUNCATED DOME MUST EXTEND THE FULL WIDTH OF THE RAMP AND COVER THE FIRST 2 FEET OF THE RAMP CLOSEST TO THE STREET. SEE CITY OF WEST LINN STANDARD DRAWING WL-506C FOR TRUNCATED DOME DETAIL.
4. TRANSITIONS FROM THE RAMP TO THE WALKWAY, GUTTER, AND STREET MUST BE FLUSH (LEVEL) AND FREE OF ABRUPT LEVEL CHANGES.
5. THE GUTTER OR ADJACENT ROADWAY MUST HAVE A SLOPE OF NO MORE THAN 5 PERCENT (1:20) TOWARD THE RAMP.
6. FLARED SIDE ("WINGS") OF THE CURB RAMP SHALL NOT EXCEED 10% IN SLOPE (8.33% IF PEDESTRIAN TRAVEL IS REQUIRED OVER THEM PER ADA STANDARDS).
7. CONCRETE STRENGTH SHALL BE 3300 PSI.
8. PLACE CONTRACTION JOINTS AS SHOWN ABOVE.
9. NO ABOVE GROUND UTILITIES ARE PERMITTED WITHIN RAMP AREA.

3 C3|C5 CURB RAMP - STYLE #3
SCALE: NTS



4 C3|C5 CROSSWALK STRIPING
SCALE: NTS



5 C3|C5 TRENCH DRAIN
SCALE: NTS

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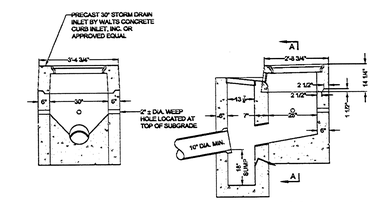
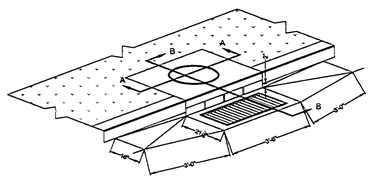


SECTION A-A

SECTION B-B



NOTE:

1. CAST IN PLACE CONCRETE TO BE 3300 PSI AND WEEP HOLE WITH GALVINIZED MESH. SCREEN ON MIN. 3 SIDES OF INLET.
2. MANHOLE RIMS AND COVERS AS MANUFACTURED BY HERN IRON WORKS, COEUR D' ALENE, IDAHO. COVER PATTERN NO. 2312, RIM PATTERN NO. 2311 OR APPROVED EQUAL.

COMBINATION CURB INLET

CITY OF West Linn | DATE: 2010 | DRAWING NO. WL-601 | FILE NO.

6 C3|C5 COMBINATION CURB INLET
SCALE: NTS

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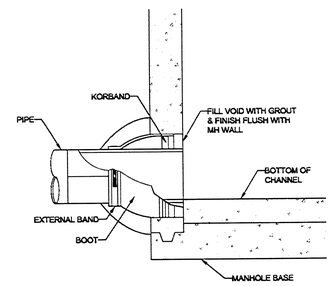

FLEXIBLE MANHOLE CONNECTION
(KOR-N-SEAL OR APPROVED EQUAL)

FLEXIBLE MANHOLE CONNECTION

CITY OF West Linn | DATE: 2010 | DRAWING NO. WL-212 | FILE NO.

7 C3|C5 FLEXIBLE MANHOLE CONNECTION
SCALE: NTS

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WEST LINN HIGH SCHOOL
PUBLIC ADA IMPROVEMENTS

DETAILS

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DRWN: STS | CHKD: MBW

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