

City of Monroe Parks and Recreation

LAKE TYE PARK ALL WEATHER FIELD IMPROVEMENTS



VICINITY MAP

Project Site:
 Lake Tye Park
 14964 Fryelands Blvd
 Monroe, WA 98272



SITE PLAN

Owner

City of Monroe - Parks and Recreation
 806 West Main Street
 Monroe, WA 98272
 (360) 794-7400 Phone

Prime Consultant

D.A. Hogan & Associates, Inc.
 119 1st Avenue S., Suite 110
 Seattle, WA 98104
 (206) 285-0400 Phone

Civil Engineer

LPD Engineering
 1932 1st Ave #201
 Seattle, WA 98101
 (206) 725-1211 Phone

Electrical Engineer

Stantec
 4100 194th St SW Suite 400
 Lynnwood, WA 98036
 (206) 667-0555 Phone

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REVISION DATE



LAKE TYE PARK
 ALL WEATHER FIELD
 IMPROVEMENTS



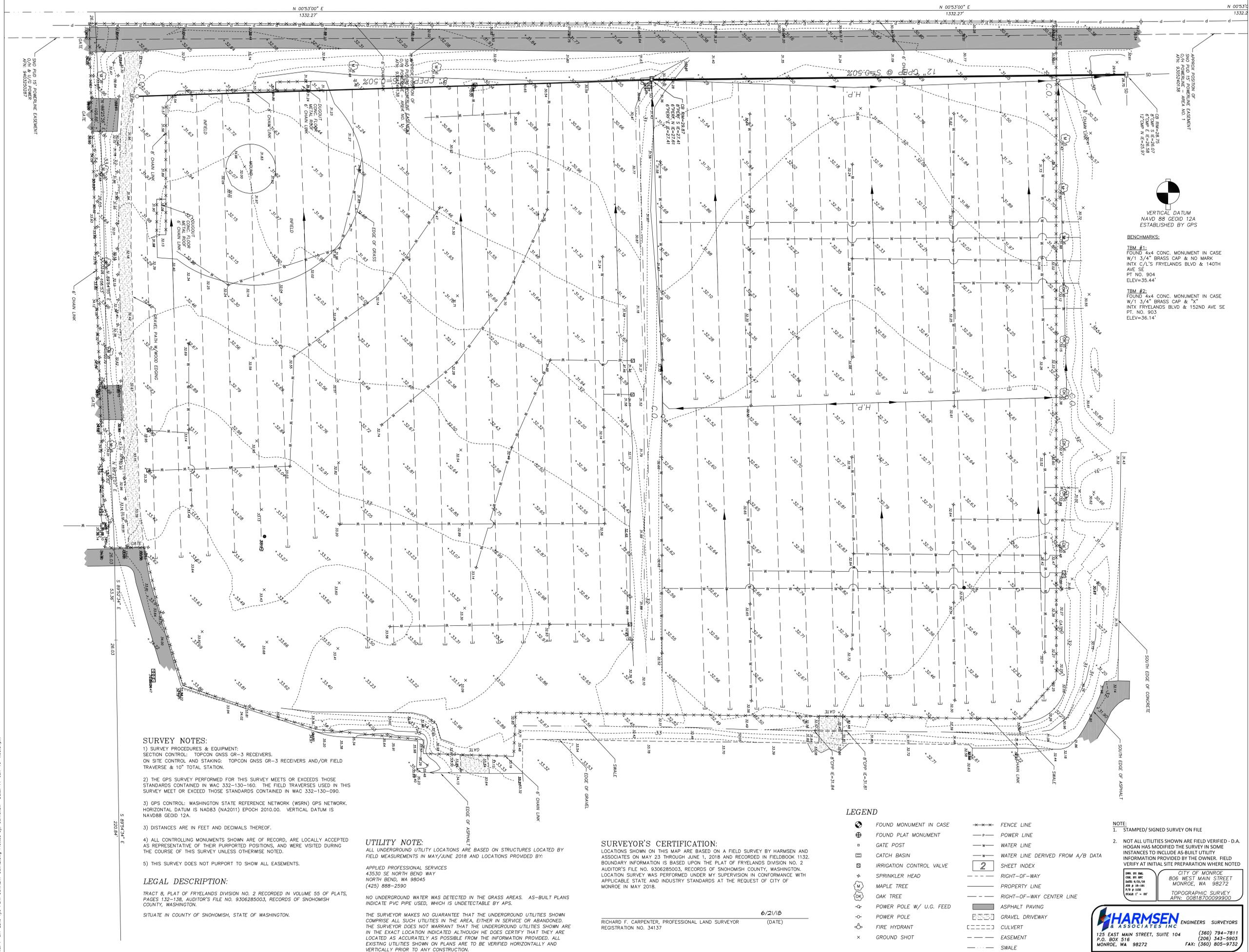
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COVER & SHEET
 INDEX

SHEET
 F-0.0

GOV LOT 4, SECTION 2, TOWNSHIP 27 NORTH, RANGE 6 EAST, W.M.



SURVEY NOTES:

- 1) SURVEY PROCEDURES & EQUIPMENT:
SECTION CONTROL: TOPCON GNSS GR-3 RECEIVERS.
ON SITE CONTROL AND STAKING: TOPCON GNSS GR-3 RECEIVERS AND/OR FIELD TRAVERSE & 10" TOTAL STATION.
- 2) THE GPS SURVEY PERFORMED FOR THIS SURVEY MEETS OR EXCEEDS THOSE STANDARDS CONTAINED IN WAC 332-130-160. THE FIELD TRAVERSES USED IN THIS SURVEY MEET OR EXCEED THOSE STANDARDS CONTAINED IN WAC 332-130-090.
- 3) GPS CONTROL: WASHINGTON STATE REFERENCE NETWORK (WSRN) GPS NETWORK. HORIZONTAL DATUM IS NAD83 (NA2011) EPOCH 2010.00. VERTICAL DATUM IS NAVD83 GEOID 12A.
3) DISTANCES ARE IN FEET AND DECIMALS THEREOF.
- 4) ALL CONTROLLING MONUMENTS SHOWN ARE OF RECORD, ARE LOCALLY ACCEPTED AS REPRESENTATIVE OF THEIR PURPORTED POSITIONS, AND WERE VISITED DURING THE COURSE OF THIS SURVEY UNLESS OTHERWISE NOTED.
- 5) THIS SURVEY DOES NOT PURPORT TO SHOW ALL EASEMENTS.

LEGAL DESCRIPTION:

TRACT 8, PLAT OF FRYLANDS DIVISION NO. 2 RECORDED IN VOLUME 55 OF PLATS, PAGES 132-138, AUDITOR'S FILE NO. 9306285003, RECORDS OF SNOHOMISH COUNTY, WASHINGTON.
SITUATE IN COUNTY OF SNOHOMISH, STATE OF WASHINGTON.

UTILITY NOTE:

ALL UNDERGROUND UTILITY LOCATIONS ARE BASED ON STRUCTURES LOCATED BY FIELD MEASUREMENTS IN MAY/JUNE 2018 AND LOCATIONS PROVIDED BY:

APPLIED PROFESSIONAL SERVICES
43530 SE NORTH BEND WAY
NORTH BEND, WA 98045
(425) 888-2590

NO UNDERGROUND WATER WAS DETECTED IN THE GRASS AREAS. AS-BUILT PLANS INDICATE PVC PIPE USED, WHICH IS UNDETECTABLE BY AFS.

THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION PROVIDED. ALL EXISTING UTILITIES SHOWN ON PLANS ARE TO BE VERIFIED HORIZONTALLY AND VERTICALLY PRIOR TO ANY CONSTRUCTION.

SURVEYOR'S CERTIFICATION:

LOCATIONS SHOWN ON THIS MAP ARE BASED ON A FIELD SURVEY BY HARMSEN AND ASSOCIATES ON MAY 23 THROUGH JUNE 1, 2018 AND RECORDED IN FIELDBOOK 1132. BOUNDARY INFORMATION IS BASED UPON THE PLAT OF FRYLANDS DIVISION NO. 2, AUDITOR'S FILE NO. 9306285003, RECORDS OF SNOHOMISH COUNTY, WASHINGTON. LOCATION SURVEY WAS PERFORMED UNDER MY SUPERVISION IN CONFORMANCE WITH APPLICABLE STATE AND INDUSTRY STANDARDS AT THE REQUEST OF CITY OF MONROE IN MAY 2018.

RICHARD F. CARPENTER, PROFESSIONAL LAND SURVEYOR
REGISTRATION NO. 34137

6/21/18 (DATE)

LEGEND

- | | |
|----------------------------|--------------------------------------|
| ● FOUND MONUMENT IN CASE | —x—x— FENCE LINE |
| ⊙ FOUND PLAT MONUMENT | —p— POWER LINE |
| ⊠ GATE POST | —w— WATER LINE |
| ⊡ CATCH BASIN | —w— WATER LINE DERIVED FROM A/B DATA |
| ⊞ IRRIGATION CONTROL VALVE | 2 SHEET INDEX |
| ⊕ SPRINKLER HEAD | - - - RIGHT-OF-WAY |
| ⊙ MAPLE TREE | - - - PROPERTY LINE |
| ⊙ OAK TREE | - - - RIGHT-OF-WAY CENTER LINE |
| ⊙ POWER POLE W/ U.G. FEED | ▬ ASPHALT PAVING |
| ⊙ POWER POLE | ▬ GRAVEL DRIVEWAY |
| ⊙ FIRE HYDRANT | ▬ CULVERT |
| ⊙ GROUND SHOT | ▬ EASEMENT |
| | ▬ SWALE |

- NOTE:
1. STAMPED/ SIGNED SURVEY ON FILE
2. NOT ALL UTILITIES SHOWN ARE FIELD VERIFIED - D.A. HOGAN HAS MODIFIED THE SURVEY IN SOME INSTANCES TO INCLUDE AS-BUILT UTILITY INFORMATION PROVIDED BY THE OWNER. FIELD VERIFY AT INITIAL SITE PREPARATION WHERE NOTED

DATE: 6/21/18
TIME: 10:30 AM
BY: R.F. CARPENTER
SCALE: 1" = 20'

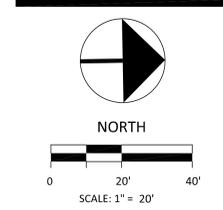
CITY OF MONROE
806 WEST MAIN STREET
MONROE, WA 98272
TOPOGRAPHIC SURVEY
APN: 0081870099900

HARMSEN & ASSOCIATES INC. ENGINEERS SURVEYORS
125 EAST MAIN STREET, SUITE 104 (360) 794-7811
P.O. BOX 518 (206) 343-5903
MONROE, WA 98272 FAX: (360) 805-9732

REVISION DATE



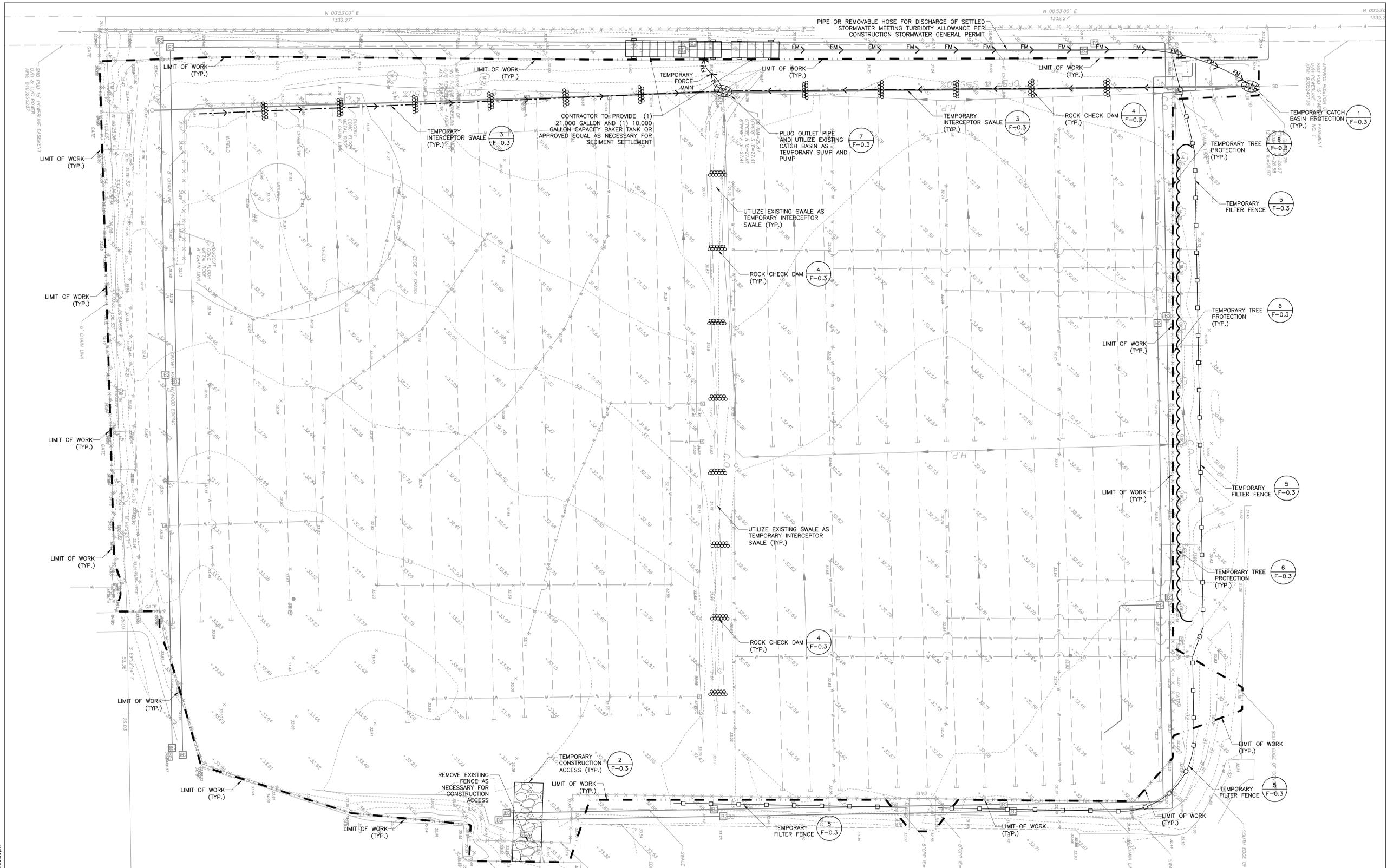
LAKE TYE PARK
ALL WEATHER
FIELD
IMPROVEMENTS



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TOPOGRAPHICAL
SURVEY
SHEET
F-0.1



DEPARTMENT OF ECOLOGY STANDARD T.E.S.C. NOTES

1. APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (TESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.)
2. THE IMPLEMENTATION OF THESE TESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE TESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
4. THE TESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
5. THE TESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE TESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
6. THE TESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
7. THE TESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A MAJOR STORM EVENT.
8. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTEAM SYSTEM.
9. 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.

T.E.S.C. LEGEND

- FILTER FENCE (5) F-0.3
- TEMPORARY INTERCEPTOR SWALE (3) F-0.3
- ROCK CHECK DAM (4) F-0.3
- FORCE MAIN
- CATCH BASIN PROTECTION (1) F-0.3
- TEMPORARY CONSTRUCTION ENTRANCE (2) F-0.3
- TEMPORARY TREE PROTECTION FENCE (6) F-0.3
- LIMIT OF WORK
- TEMPORARY SEDIMENT SETTLEMENT TANK

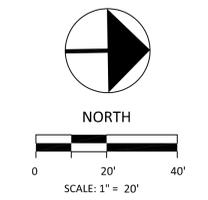
INSTALL CATCH BASIN PROTECTION AT ALL INLETS DOWNSTEAM OF THE SITE WITHIN 300' OF PROJECT LIMITS



REVISION DATE



LAKE TYE PARK ALL WEATHER FIELD IMPROVEMENTS



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TESC PLAN

SHEET
F-0.2

File: F-0.1 Lake Tye Park CURRENT 30x42.dwg Plotted by: Corneilow Date: 12-Jun-19 4:06:50pm

REVISION	DATE

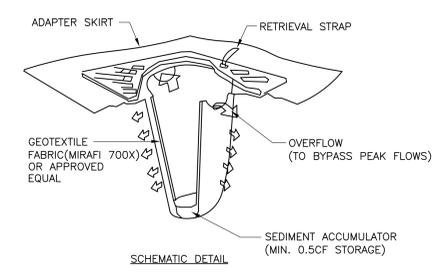


LAKE TYE PARK
ALL WEATHER FIELD
IMPROVEMENTS

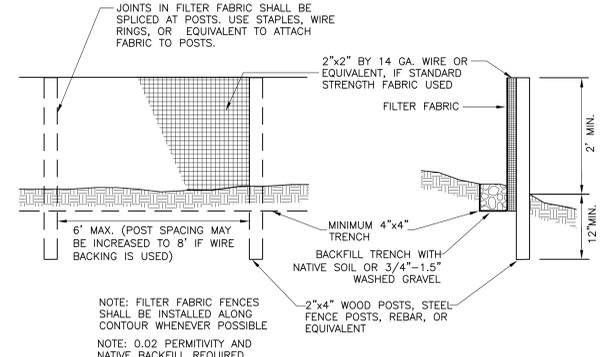


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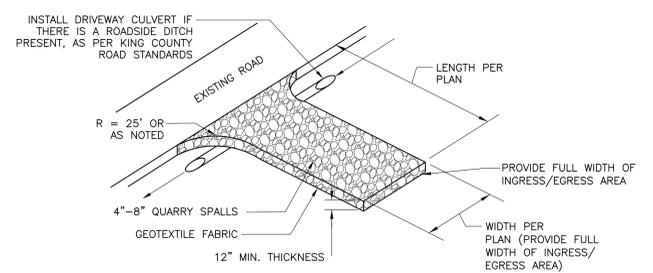
TESC DETAILS



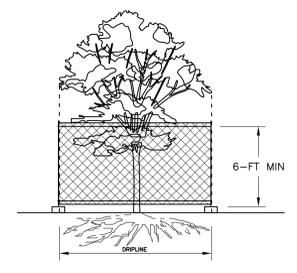
PROVIDE "STREAMGUARD SEDIMENT CATCH BASIN INSERT" OR APPROVED EQUAL.
MANUFACTURER'S NAME: BOWHEAD ENVIRONMENTAL & SAFETY
ADDRESS: PO BOX 375 PRESTON, WA 98050
TELEPHONE: FOR INFORMATION: (800) 909-3677
WWW.SHOPBOWHEAD.COM



5 TEMPORARY FILTER FABRIC FENCE
F-0.3 NOT TO SCALE

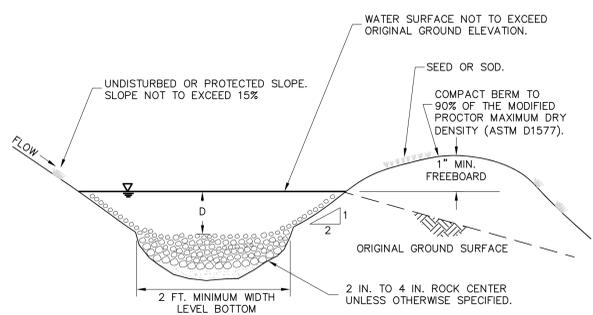


2 STABILIZED CONSTRUCTION ENTRANCE
F-0.3 NOT TO SCALE



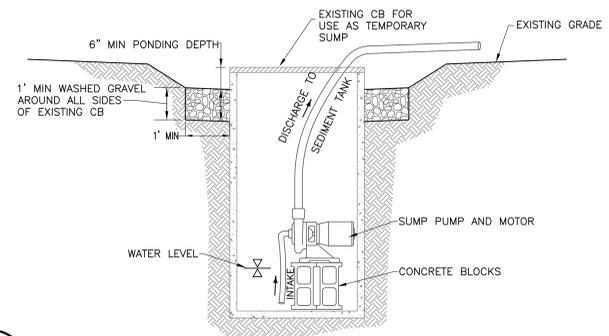
- NOTES:
- 6-FT. HIGH TEMPORARY CHAIN LINK FENCE SHALL BE PLACED AT THE DRIPLINE OF THE TREE TO BE SAVED. FENCE SHALL COMPLETELY ENCLOSE THE TREE(S). INSTALL FENCE POSTS USING PIER BLOCKS ONLY. AVOID DRIVING POSTS OR STAKES INTO MAJOR ROOTS.
 - FOR ROOTS OVER 1-IN DIA. THAT ARE DAMAGED DURING CONSTRUCTION, MAKE A CLEAN, STRAIGHT CUT TO REMOVE THE DAMAGED PORTION. ALL EXPOSED ROOTS SHALL BE TEMPORARILY COVERED WITH DAMP BURLAP TO PREVENT DRYING, AND SHALL BE COVERED WITH SOIL AS SOON AS POSSIBLE.
 - WORK WITHIN PROTECTION FENCE SHALL BE DONE MANUALLY. NO STOCKPILING OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MACHINERY SHALL BE ALLOWED WITHIN THE LIMIT OF THE FENCING.

6 TREE PROTECTION
F-0.3 NOT TO SCALE

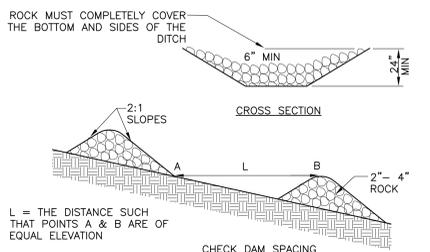


- NOTES:
- DIMENSIONS: 1 FT. MINIMUM DEPTH (D) BY 2 FT. MINIMUM BOTTOM WIDTH.
 - SWALE GRADES SHOULD NOT EXCEED 5%. SIDE SLOPES SHOULD BE 2:1 OR LESS.
 - OUTLET SHALL CONSIST OF RIPRAP DISCHARGING TO STABILIZED OUTLET, SEDIMENT POND OR LEVEL SPREADER.

3 INTERCEPTOR SWALE
F-0.3 NOT TO SCALE



7 SUMP & PUMP DETAIL
F-0.3 NOT TO SCALE



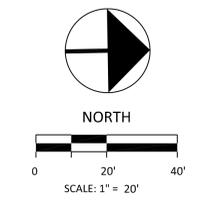
- MAINTENANCE STANDARDS
- ANY SEDIMENT DEPOSITION OF MORE THAN 0.5 FEET SHALL BE REMOVED SO THAT THE CHANNEL IS RESTORED TO ITS DESIGN CAPACITY.
 - IF THE CHANNEL CAPACITY IS INSUFFICIENT FOR THE DESIGN STORM, IT MUST BE DETERMINED WHETHER THE PROBLEM IS LOCAL (E.G., A CONSTRICTION OR BEND) OR THE CHANNEL IS UNDERDESIGNED. IF THE PROBLEM IS UNDERDESIGN, THE DESIGN ENGINEER SHALL BE NOTIFIED AND THE CHANNEL REDESIGNED TO A MORE CONSERVATIVE STANDARD TO BE APPROVED BY THE ENGINEER.
 - THE CHANNEL SHALL BE EXAMINED FOR SIGNS OF SCOURING AND EROSION OF THE BED AND BANKS. IF SCOURING OR EROSION HAS OCCURRED, AFFECTED AREAS SHALL BE PROTECTED BY RIP-RAP OR AN EROSION

4 ROCK CHECK DAM
F-0.3 NOT TO SCALE

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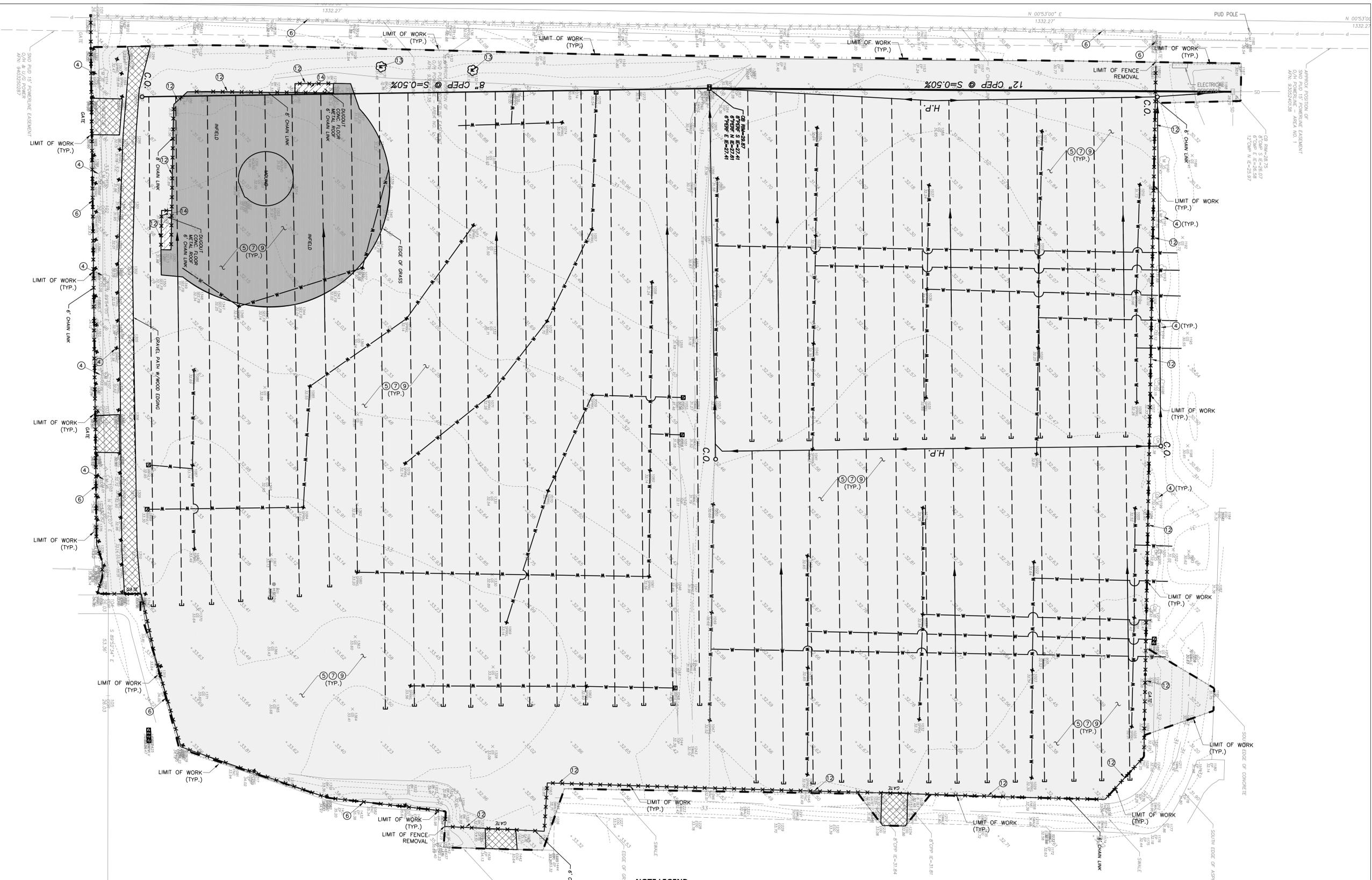
LAKE TYE PARK
ALL WEATHER
FIELD
IMPROVEMENTS



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DEMOLITION
PLAN
SHEET
F-0.4



DEMOLITION NOTES

- CONTRACTOR PRE-CONSTRUCTION REQUIREMENTS:
 - CALL 8-1-1 48 HOURS PRIOR TO MOBILIZATION. CONTRACTOR SHALL PERFORM A COMMERCIAL UTILITY LOCATE THROUGHOUT THE LIMIT OF SITE DISTURBANCE AND ADJACENT AREA. DOCUMENT ALL UTILITIES NOT OTHERWISE IDENTIFIED IN THE CONTRACT DOCUMENTS.
 - PRIOR TO PERFORMING ANY SITE DISTURBING ACTIVITIES THE CONTRACTOR SHALL COMPLETE A PRE-CONSTRUCTION CONFERENCE WITH THE DISTRICT AND HAVE PRIOR APPROVAL OF THE INSTALLATION OF ALL TEMPORARY FACILITIES INCLUDING EROSION CONTROL, SECURITY, AND SANITATION.
 - PRIOR TO PERFORMING ANY SITE DISTURBING ACTIVITIES THE CONTRACTOR SHALL SCHEDULE AN OPERATIONAL TEST WITH DISTRICT STAFF OF THE AUTOMATIC IRRIGATION SYSTEM(S) ON THE PROJECT SITE AND ADJACENT LANDSCAPE AREAS. CONTRACTOR SHALL DOCUMENT ALL OBSERVED DEFICIENCIES OF OPERATION AND SITE COVERAGE AND TRANSMIT TO THE ENGINEER FOR ACTION.
- COORDINATE THE LIMIT OF DEMOLITION WORK WITH THE LAYOUT OF THE NEW WORK.
- ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH THE REQUIREMENTS OF LOCAL AND STATE PERMITS AND THE CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
- PROTECT EXISTING TREES TO REMAIN.
- STRIP AREA WITHIN LIMITS OF DISTURBANCE OF EXISTING SOD, ORGANIC MATERIALS, AND EXCESS SOIL TO APPROXIMATELY 12" DEPTH AND DISPOSE OF OFF SITE. ALL EXCESS AND UNSUITABLE SOIL MATERIALS SHALL BE REMOVED AND DISPOSED OF OFF SITE. EXISTING SAND FIELD MATERIALS MAY BE INCORPORATED INTO THE EARTHWORK AFTER REMOVAL AND DISPOSAL OF THE ORGANIC MATERIALS.
- PROTECT EXISTING CHAIN LINK FENCE TO REMAIN. REMOVE FABRIC AS NECESSARY FOR CURB AND TURF INSTALLATION. REINSTALL AFTER COMPLETION OF TURF AND CURB.
- REMOVE EXISTING DRAINAGE LATERALS. REMOVE EXISTING CATCH BASIN AND STORM DRAINAGE OUTFALL TO NEXT DOWNSTREAM STRUCTURE AND PLUG PENETRATION.
- REMOVE EXISTING IRRIGATION CONTROL VALVES AND CORRESPONDING BOXES AND DELIVER TO THE OWNER ON SITE UNLESS OTHERWISE NOTED. CAP AND PROTECT EXISTING IRRIGATION MAINLINE TO REMAIN.
- REMOVE EXISTING IRRIGATION SPRINKLER HEADS AND RISER ASSEMBLIES. CLEAN, PACKAGE AND DELIVER TO THE OWNER ON SITE UNLESS OTHERWISE NOTED. BACKFILL ALL VOIDS WITH STRUCTURAL FILL OR EXISTING PEA GRAVEL.
- SELECTIVE DEMOLITION OF ALL IRRIGATION EQUIPMENT DOWNSTREAM OF EXISTING IRRIGATION POINT OF CONNECTION.
- PROTECT ALL UTILITIES TO REMAIN.
- REMOVE EXISTING FENCING, POST AND FOOTING. BACKFILL WITH STRUCTURAL FILL AND COMPACT TO 95%.
- REMOVE EXISTING TREE INCLUDING STUMP AND DISPOSE OF OFF SITE. EXACT TREES/SHRUBS SHALL BE FIELD VERIFIED WITH THE LANDSCAPE ARCHITECT PRIOR TO REMOVAL. BACKFILL AND COMPACT EXCAVATED AREAS.
- REMOVE EXISTING CONCRETE PAVING AND DISPOSE OFF OF SITE.
- BACKFILL ALL VOIDS WITH APPROVED MATERIAL AND COMPACT TO 95%.
- REMOVE EXISTING PLATES AND ANCHORS AND DELIVER TO OWNER ON SITE

NOTE LEGEND
 1 (INDICATES GENERAL CONSTRUCTION NOTE)
 3 (INDICATES SPECIFIC CONSTRUCTION KEYNOTE)

DEMOLITION LEGEND

- EXISTING NATURAL TURF TO BE REMOVED AND DISPOSED OF OFF SITE
- REMOVE EXISTING INFIELD SOIL.
- GRAVEL AND WOOD EDGER TO BE REMOVED AND DISPOSED OF OFF SITE
- CONCRETE PAVING TO BE REMOVED AND DISPOSED OF OFFSITE
- LIMIT OF WORK
- EXISTING CONCRETE CURBING TO BE REMOVED AND DISPOSED OF OFF SITE
- EXISTING CHAINLINK FENCING TO BE REMOVED AND DISPOSED OF OFF SITE

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LAYOUT NOTES

1. 181,785SF NEW VERTICALLY DRAINING SYNTHETIC TURF SURFACING
2. 17,650SF NEW OR REPLACED PEDESTRIAN HARDSCAPE (ASPHALT/CONCRETE)
3. ±20,000SF RESTORED NATURAL GRASS SURFACE / LANDSCAPE
4. SEE FENCING PLAN F-1.5 FOR FENCING AND GATE INFORMATION

NOTE LEGEND
 1 (INDICATES GENERAL CONSTRUCTION NOTE)
 3 (INDICATES SPECIFIC CONSTRUCTION KEYNOTE)

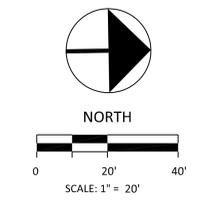
LAYOUT LEGEND

- | | | | |
|--|--|--|--|
| | GREEN SYNTHETIC TURF AND PERMEABLE AGGREGATE | | CHAINLINK FENCE AND CONCRETE CURB |
| | BROWN SYNTHETIC TURF AND PERMEABLE AGGREGATE | | CHAINLINK FENCE |
| | ASPHALT PAVING | | REHABILITATE EXISTING CHAINLINK FENCE TO REMAIN |
| | CONCRETE PAVING | | CONCRETE CURBING |
| | SITE RESTORATION | | LIMIT OF SYNTHETIC TURF AND CONCRETE EDGE ANCHOR |
| | CATCH BASIN INLET (C.B.I.) TYPE 1 | | |

REVISION DATE



LAKE TYE PARK
ALL WEATHER
FIELD
IMPROVEMENTS

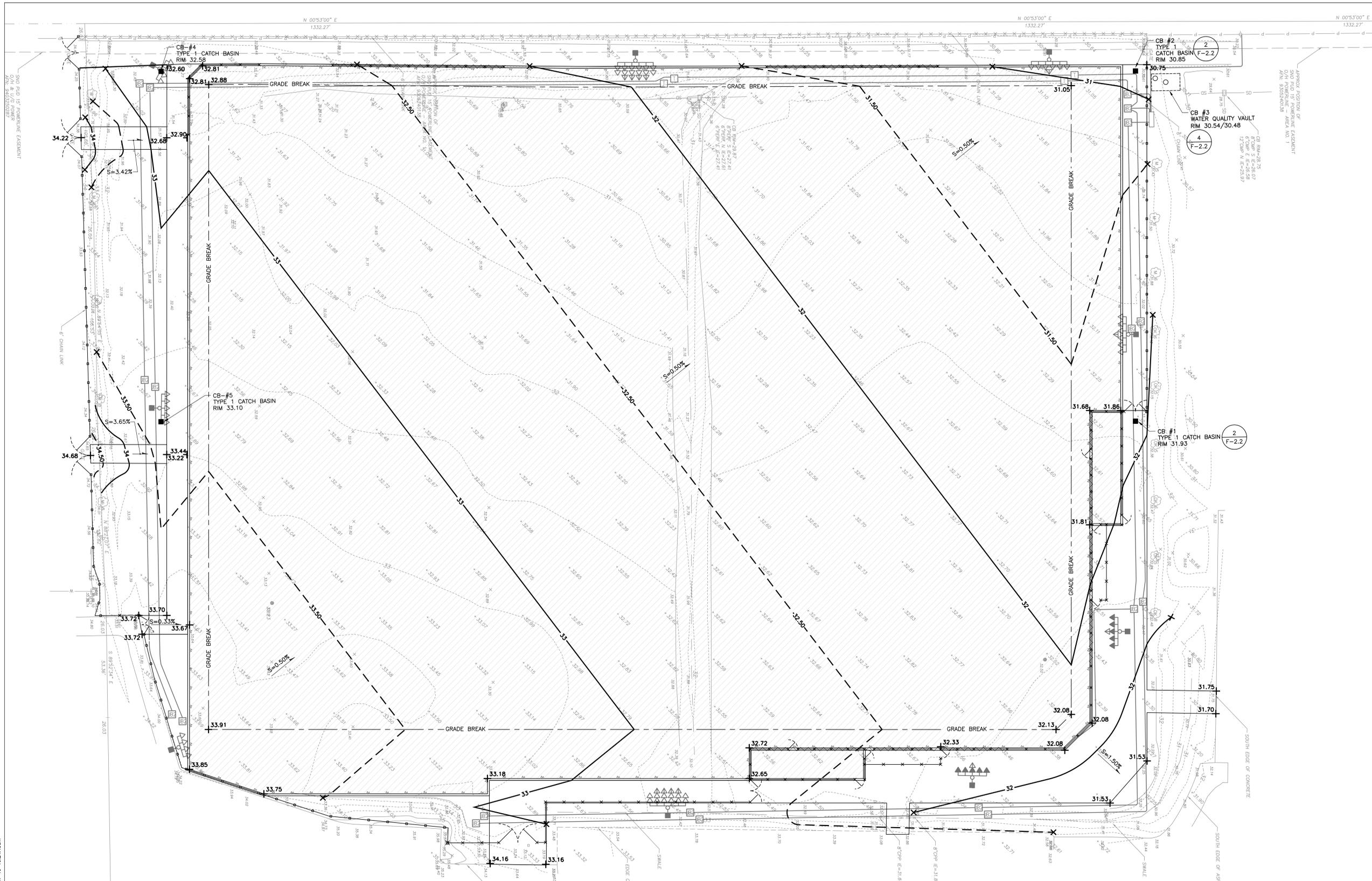


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LAYOUT PLAN

SHEET
F-1.1



GRADING NOTES

1. THE CONTRACTOR SHALL CALL AND NOTIFY DIGALERT AT 8-1-1 A MINIMUM OF 2 WORKING DAYS BEFORE DEMOLITION, DIGGING, OR GRADING OPERATIONS OCCUR.
2. NEW CONTOURS SHOWN ARE FINISH GRADE ELEVATIONS.
3. BACKFILL AND COMPACT EXCAVATED AREAS RESULTING FROM DEMOLITION ACTIVITIES WITH SELECT FILL TO 95% WITH 12" MAX LIFTS.
4. STRIP FIELD AREA OF EXISTING SOD AND ORGANIC MATERIALS AND DISPOSE OF OFF SITE. ALL EXCESS AND UNSUITABLE SOIL MATERIALS SHALL BE REMOVED AND DISPOSED OF OFF SITE.
5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN THE EVENT OF DISCOVERY OF POOR SOILS, GROUNDWATER OR DISCREPANCIES IN THE EXISTING CONDITIONS AS NOTED ON THE PLANS.
6. ALL PERIMETER PAVING SHALL MEET AND MATCH ADJACENT SURFACES.

NOTE LEGEND

- 1. (INDICATES GENERAL CONSTRUCTION NOTE)
- ④ (INDICATES SPECIFIC CONSTRUCTION KEYNOTE)

GRADING LEGEND

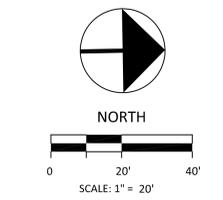
- 32 — EXISTING CONTOUR LINES
- 31.52 ▽ SPOT ELEVATION
- 32 — NEW CONTOUR LINES
- - - 32.50 - - - NEW HALF CONTOUR LINES
- S=2.0% SURFACE SLOPE
- c CONSTANT SURFACE SLOPE
- X — MATCH TO EXISTING
- [Hatched Box] LIMIT OF PERMEABLE AGGREGATE
- - - - - REHABILITATE EXISTING CHAINLINK FENCE TO REMAIN
- CATCH BASIN INLET (C.B.I.) TYPE 1
- [Circle with X] WATER QUALITY VAULT
- [Line with Dashed] CHAINLINK FENCE AND CONCRETE CURB
- [Line with X] CHAINLINK FENCE
- [Line with Circle] REHABILITATE EXISTING CHAINLINK FENCE TO REMAIN

File: F-0.1 Lake Tye Park CURRENT 30x42.dwg Plotted by: Corneilow Date: 25-Jun-19 10:24:45am

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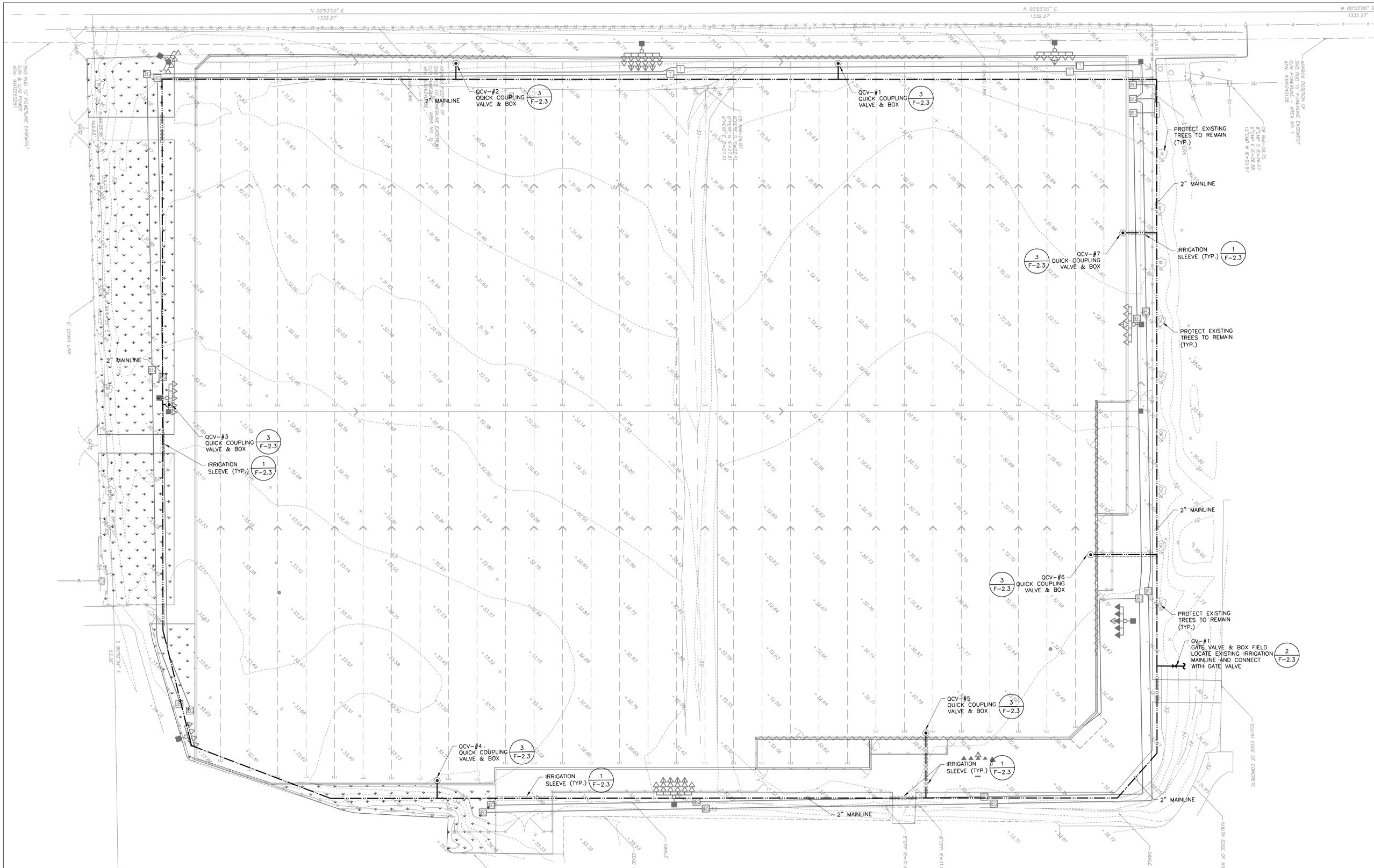
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GRADING PLAN

SHEET
F-1.2





IRRIGATION NOTES

- COORDINATE QUICK COUPLING VALVE LOCATIONS TO CORRESPOND TO THE CONCRETE EDGE ANCHOR AT THE SYNTHETIC TURF FIELD.
- THE CONTRACTOR SHALL LOCATE EXISTING ELECTRICAL AND COMMUNICATION CONDUCTORS IN THE FIELD AND VERIFY TO DEPTH WITH THE PROJECT LANDSCAPE ARCHITECT PRIOR TO TRENCHING FOR THE DRAINAGE AND WATER SYSTEMS.
- COORDINATE IRRIGATION PIPING TO AVOID UNDERGROUND UTILITIES.
- COORDINATE IRRIGATION PIPING AND FENCE POSTS TO AVOID CONFLICT.
- ALL IRRIGATION MAINLINES, LATERAL LINES, ELECTRICAL AND VALVE CONTROL WIRES CROSSING UNDER SIDEWALKS, AND ASPHALT DRIVEWAYS SHALL BE SLEEVED. SLEEVES SHALL BE PLACED UNDER ALL DRIVEWAYS, PAVED AREAS, WALKS AISLES, ETC WHERE IRRIGATION LATERAL, MAINLINE AND CONTROL WIRES CROSS. SLEEVES SHALL BE PVC SCH 40. BURY MINIMUM 24" DEEP. MINIMUM DISTANCE PAST EDGE OF PAVED SURFACE SHALL BE 24". WATER AND WIRE SHALL NOT BE PLACED IN THE SAME SLEEVE. SLEEVES SHALL BE TWICE THE DIAMETER OF THE PIPE BEING SLEEVED. WIRE SLEEVES TO BE 2". SLEEVES ARE REQUIRED, WHETHER OR NOT INDICATED IN PLAN.

NOTE LEGEND

- (INDICATES GENERAL CONSTRUCTION NOTE)
- (INDICATES SPECIFIC CONSTRUCTION KEYNOTE)

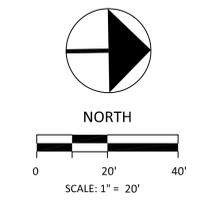
IRRIGATION LEGEND

- ⊗ 2" GATE VALVE AND BOX
- ⊙ 1" QUICK COUPLER VALVE AND BOX
- ⊗ BALL VALVE IN INDIVIDUAL BOX
- SCH 40 PVC IRRIGATION MAINLINE
- IRRIGATION SLEEVE
- ▭ IRRIGATED AREA

REVISION DATE



**LAKE TYE PARK
ALL WEATHER
FIELD
IMPROVEMENTS**



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**WASHWATER
PLAN**

SHEET
F-1.4

File: F-0.1 Lake Tye Park CURRENT 30x42.dwg Plotted by: Corneilow Date: 25-Jun-19 9:11:31am

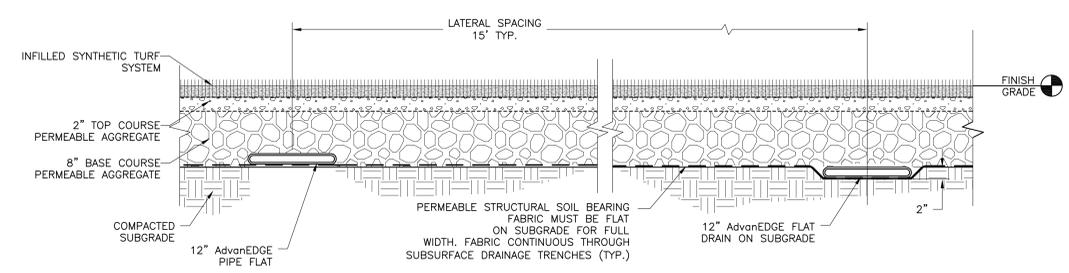
REVISION	DATE



LAKE TYE PARK
ALL WEATHER FIELD
IMPROVEMENTS

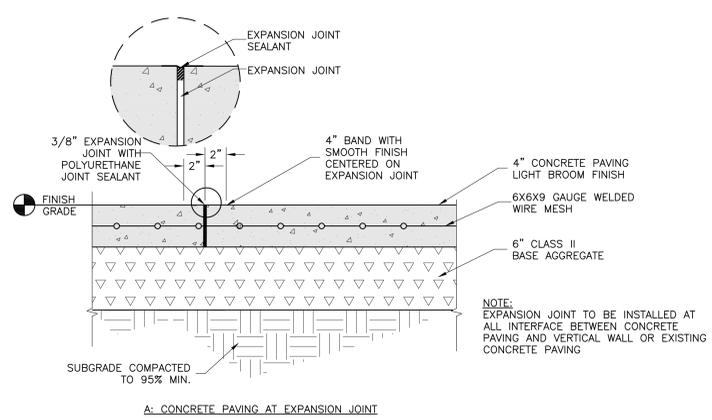


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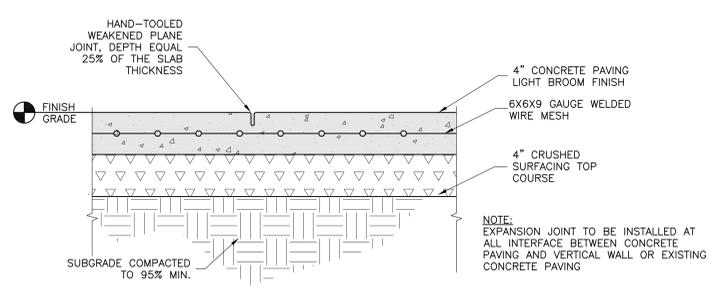


- NOTES:
1. INSTALL PEA GRAVEL WITH 2" CROWN
2. REMOVE PEA GRAVEL CROWN TO BE FLUSH WITH SUBGRADE PRIOR TO INSTALLATION OF AGGREGATE

1 SYNTHETIC TURF FIELD SECTION
F-2.1 NOT TO SCALE

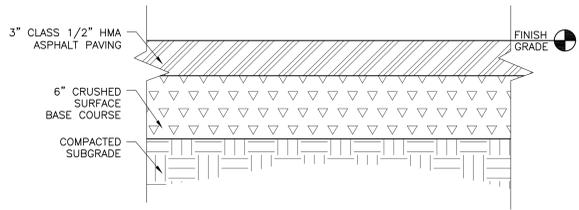


A: CONCRETE PAVING AT EXPANSION JOINT

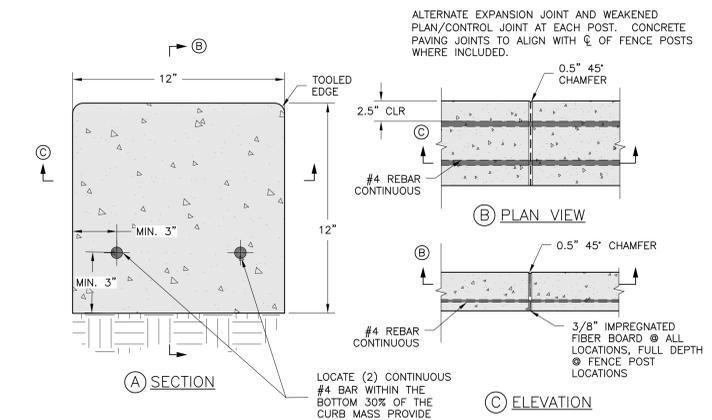


B: CONCRETE PAVING WITH WEAKENED PLANE JOINT

2 CONCRETE PAVING
F-2.1 NOT TO SCALE



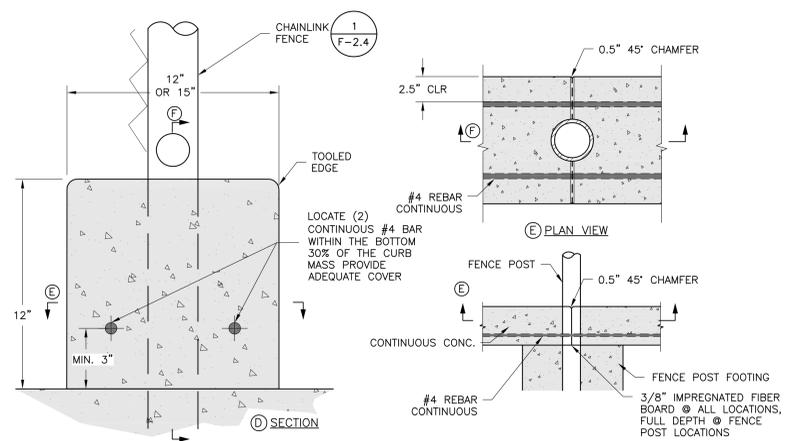
3 ASPHALT PAVING SECTION
F-2.1 NOT TO SCALE



A: SECTION

B: PLAN VIEW

C: ELEVATION



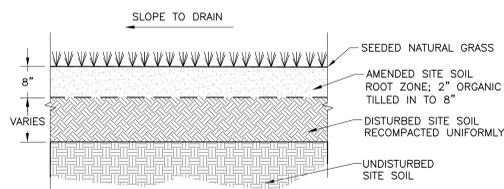
D: SECTION

E: PLAN VIEW

F: ELEVATION

AT FENCE POSTS

4 CONCRETE CURB & EXPANSION JOINT
F-2.1 NOT TO SCALE



5 SEEDED SITE SOIL RESTORATION
F-2.1 NOT TO SCALE

File: F-2.1 Typical Sections.dwg Plotted by: CorneilW Date: 24-Jun-19 3:54:01pm



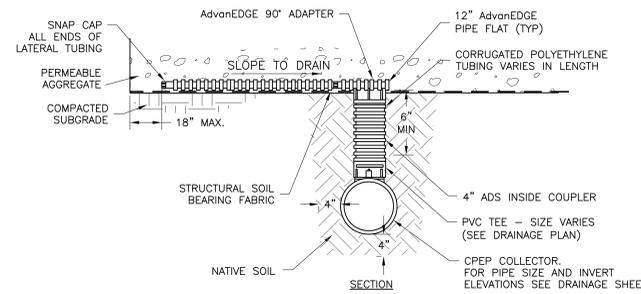
LAKE TYE PARK
ALL WEATHER FIELD
IMPROVEMENTS



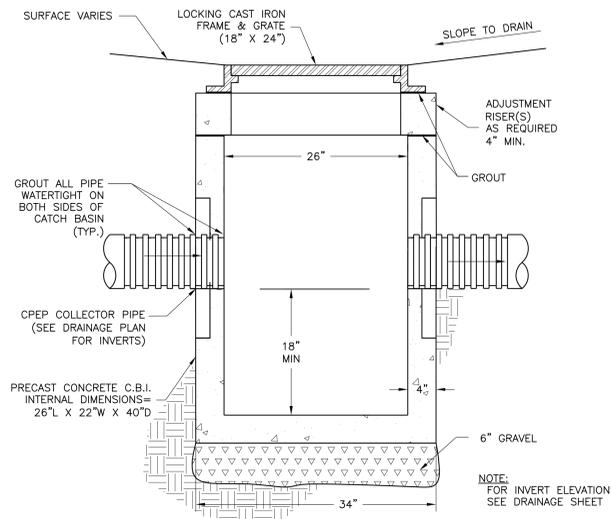
INSTALLATION NOTES
 A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER VAULT (LIFTING CLUTCHES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



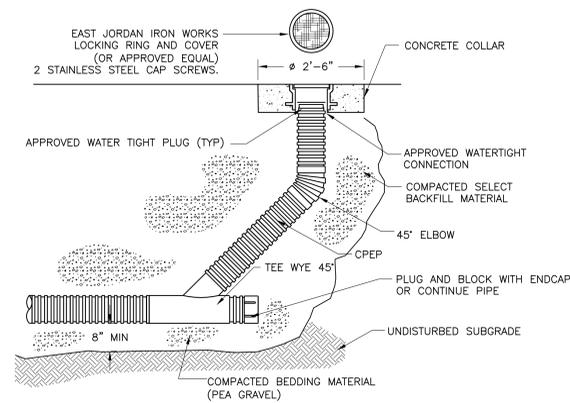
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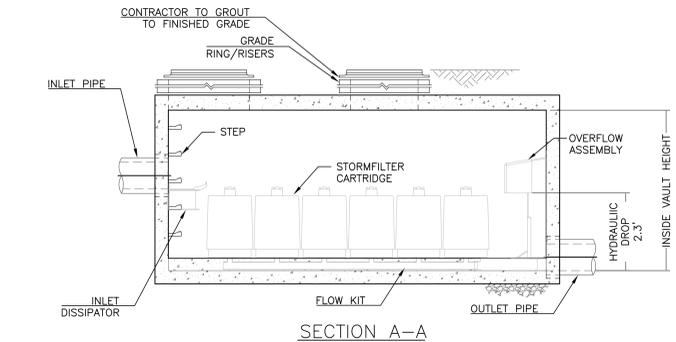
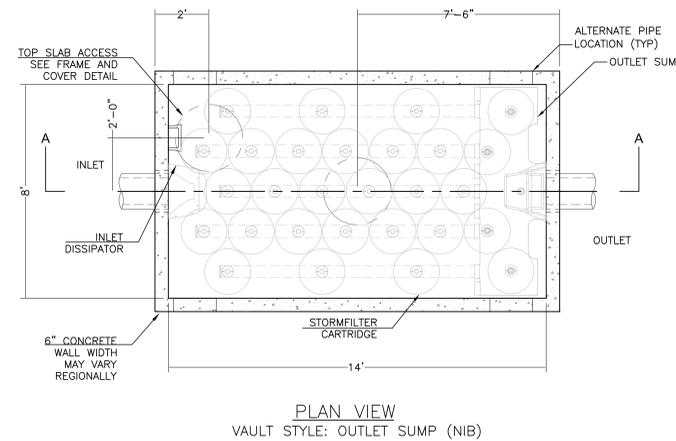
1 SUBSURFACE DRAINAGE CONNECTION
F-2.2 NOT TO SCALE



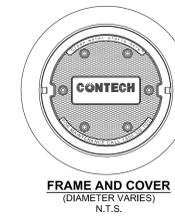
2 TYPE 1 CATCH BASIN
F-2.2 NOT TO SCALE



3 CLEANOUT
F-2.2 NOT TO SCALE

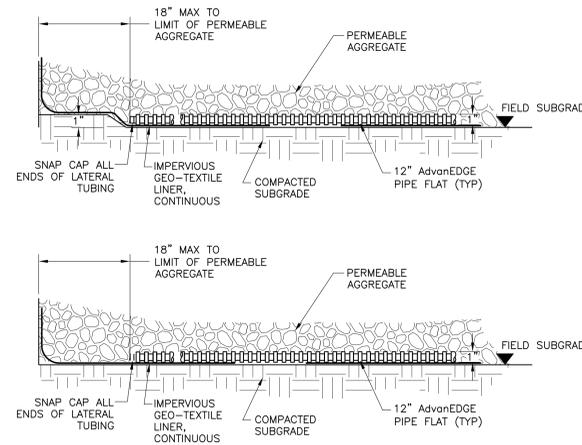


4 STORMFILTER WATER QUALITY VAULT
F-2.2 NOT TO SCALE



SITE SPECIFIC DATA REQUIREMENTS	
STRUCTURE ID	CB#3
WATER QUALITY FLOW RATE (cfs)	0.757
PEAK FLOW RATE (cfs)	0.902
RETURN PERIOD OF PEAK FLOW (yrs)	100-YR
CARTRIDGE HEIGHT (27\"/>	

5 SUBSURFACE DRAINAGE LATERAL
F-2.2 NOT TO SCALE



REVISION	DATE

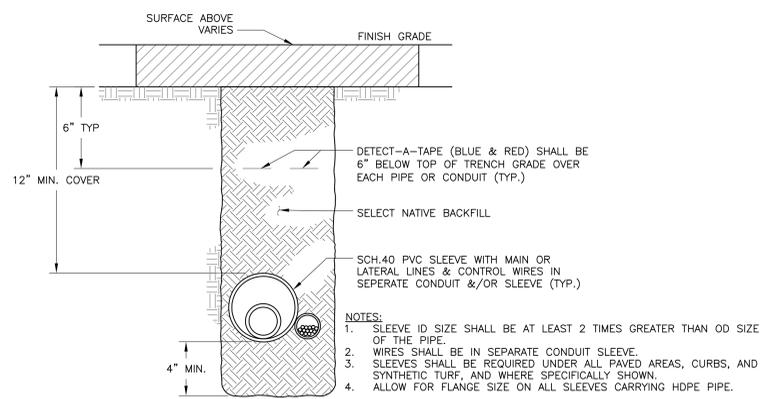


LAKE TYE PARK
ALL WEATHER FIELD
IMPROVEMENTS

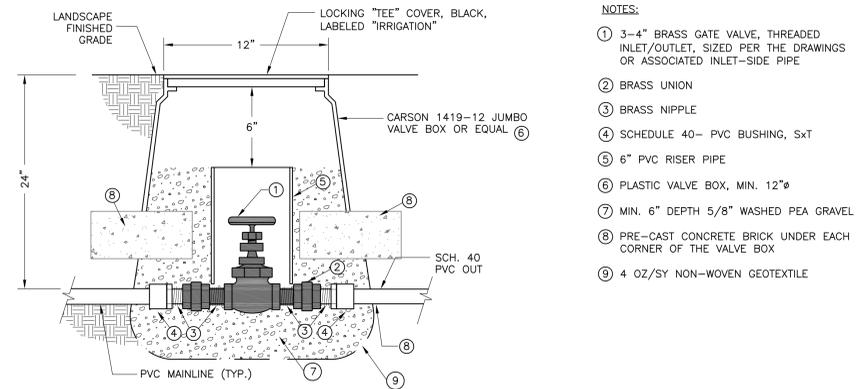


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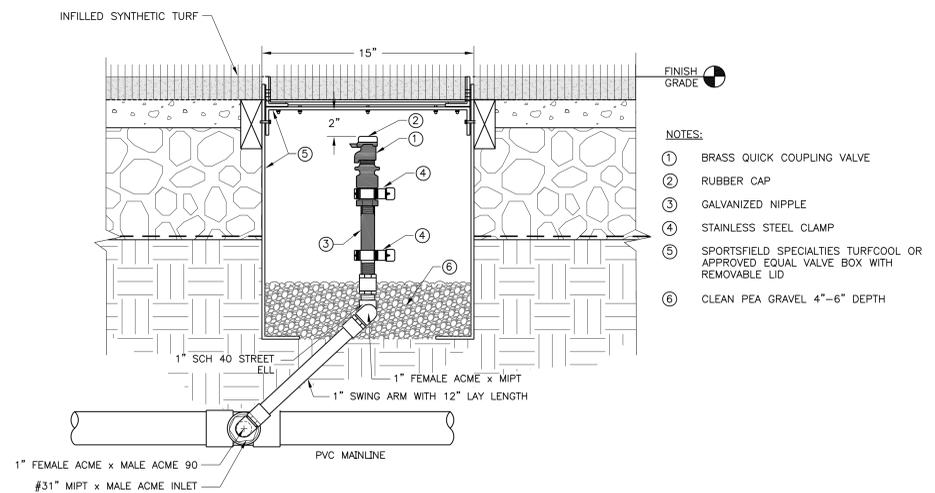
IRRIGATION
DETAILS
SHEET
F-2.3



1 TRENCHING FOR MAINLINE & LATERAL PIPE
F-2.3 NOT TO SCALE



2 GATE VALVE & BOX
F-2.3 NOT TO SCALE



3 QUICK COUPLING VALVE & BOXES
F-2.3 NOT TO SCALE



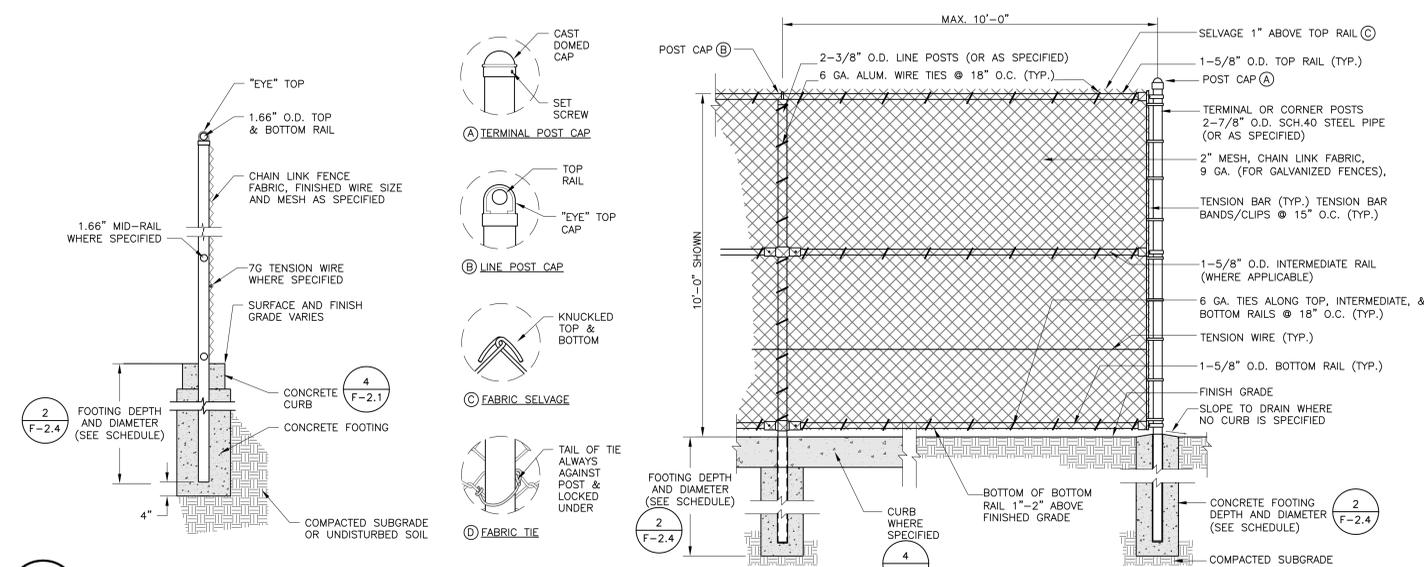
LAKE TYE PARK
ALL WEATHER FIELD
IMPROVEMENTS



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FENCING DETAILS

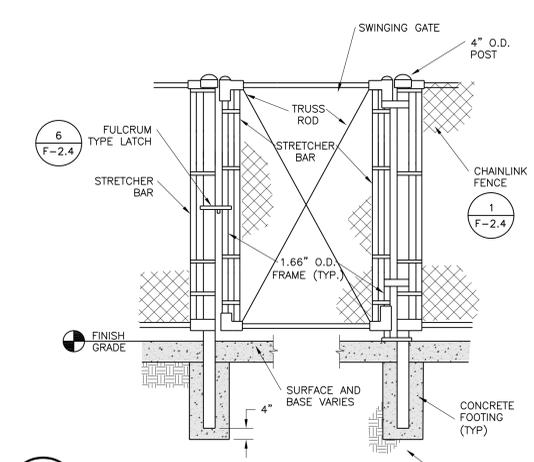


1 CHAINLINK FENCING ELEVATION & SECTION
F-2.4 NOT TO SCALE

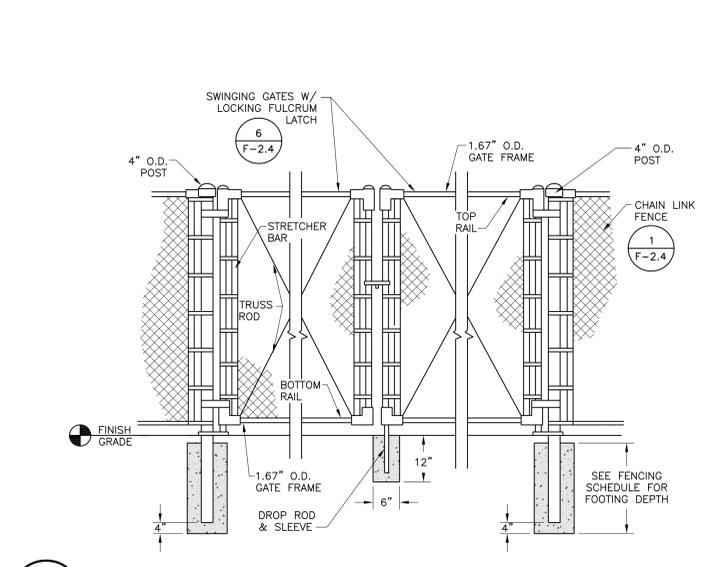
FENCING TYPE	(A) 30' HIGH BACKSTOP	(C) 10' HIGH WITH 15' NETTING	(D) 10' HIGH FENCING	(E) 6' HIGH FENCING
CORNER POST	8.625" OD	8.625" OD	4.000" OD	2.875" OD
TERMINAL POST	8.625" OD	8.625" OD	4.000" OD	2.875" OD
LINE POST	8.625" OD	4.000" OD	2.875" OD	2.375" OD
FOOTING DEPTH	8'-6"	7'-0"	60"	36"
FOOTING DIAMETER	36"	30"	12"	12"
TOP RAIL HT.	30'	10'	10'	6'
INTERMEDIATE RAIL HTS.	5', 10', 15', 20', 25'	5'	5'	---
BOTTOM RAIL HT	1"	1"	1"	1"
TENSION WIRE HTS.	2'	2'	2'	3'

- FENCING NOTES:**
- ALL FENCING FABRIC SHALL BE 2" MESH NO. 9 GAUGE GALVANIZED STEEL WIRES EXCEPT FOR DESIGNATED SECTIONS OF THE BACKSTOP FENCING WHICH SHALL INCLUDE NO. 6 GAUGE GALVANIZED.
 - ALL POSTS, RAILS, BRACES, POST TOPS, STRETCHER BARS, BANDS, ETC. SHALL BE GALVANIZED.
 - TENSION WIRES AND WIRE TIES SHALL BE GALVANIZED.
 - MAXIMUM POST SPACING: 10' ON CENTER.
 - ALIGN POSTS SO THAT FENCE FABRIC IS INSTALLED IN A CONTINUOUS, STRAIGHT LINE, REGARDLESS OF FENCE POST DIAMETER.
 - ALL POSTS SHALL BE ASTM A53, GRADE B, SCHEDULE 40 UNLESS NOTED OTHERWISE.

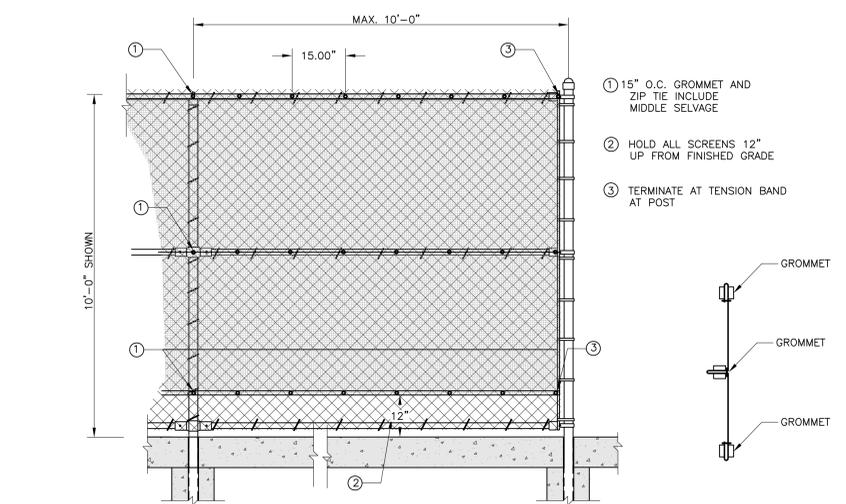
2 CHAINLINK SCHEDULE
F-2.4 NOT TO SCALE



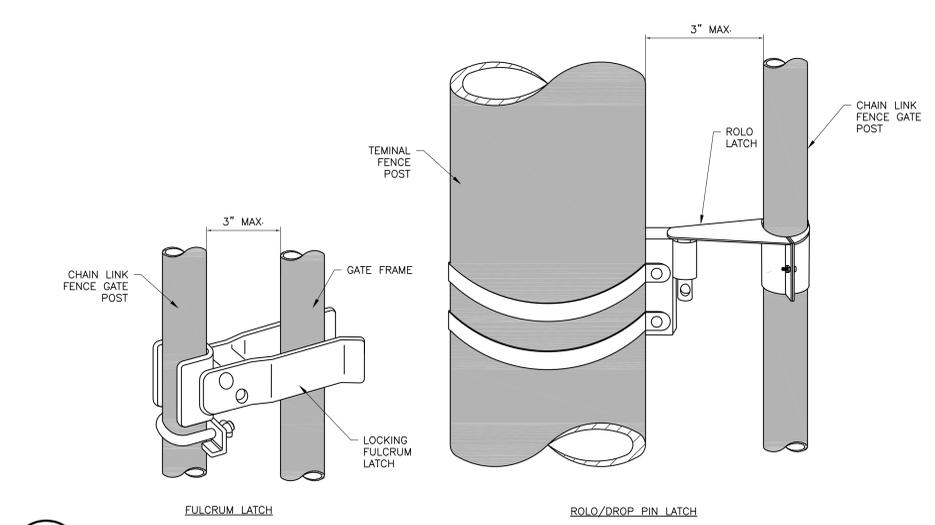
3 SINGLE SWING GATE
F-2.4 NOT TO SCALE



4 DOUBLE SWING GATE
F-2.4 NOT TO SCALE

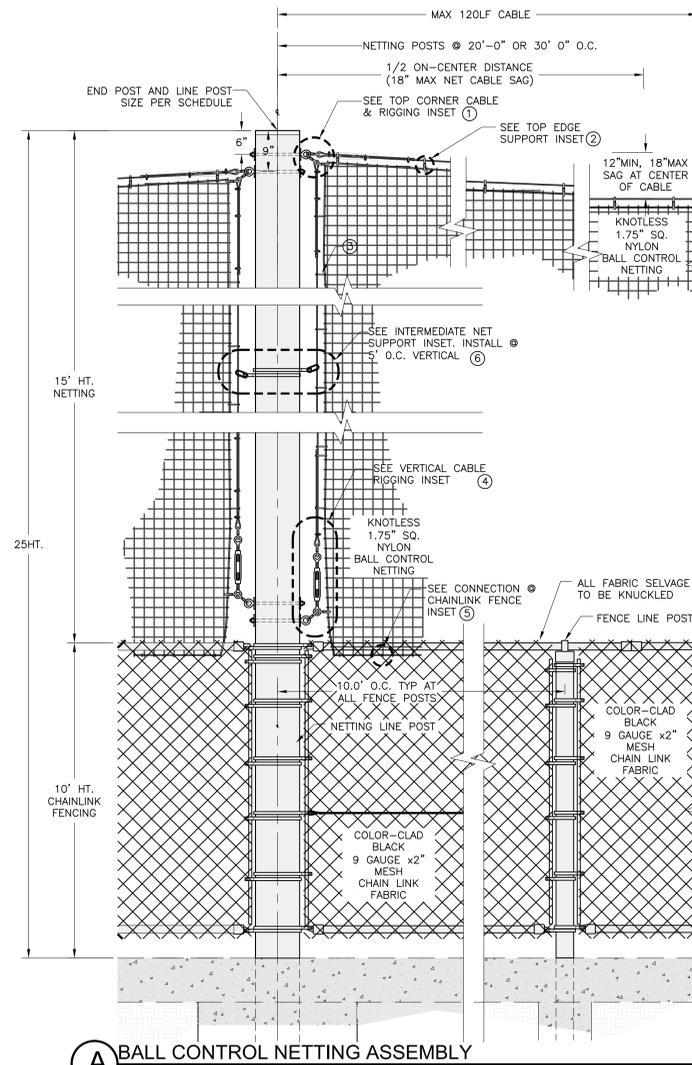


5 WIND SCREEN
F-2.4 NOT TO SCALE



6 GATE LATCH
F-2.4 NOT TO SCALE

File: F-2.4 Fencing Details.dwg Plotted by: CorneilW Date: 25-Jun-19 11:05:32am



A BALL CONTROL NETTING ASSEMBLY
NOT TO SCALE

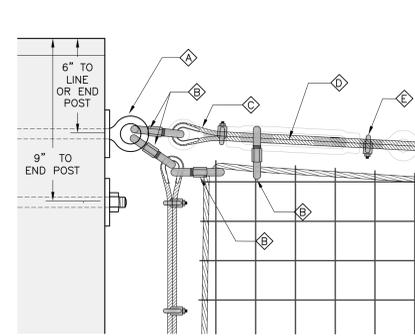
CONNECTION NOTES:

- ① TOP CORNER: EYE BOLT SIZED TO ACCOMMODATE BOTH THE LIMIT ON GAP BETWEEN THE POLE AND THE VERTICAL CABLE AND THE CONNECTING LINKS FOR BOTH THE VERTICAL AND HORIZONTAL SUPPORT CABLES. PROVIDE (1) TURNBUCKLE AT EACH END OF EACH CABLE.
- ② TOP EDGE OF BALL CONTROL NET ASSEMBLY HELD TO THE SUPPORT CABLE WITH GALVANIZED OR STAINLESS STEEL OR ALUMINUM THREADED LINK, SNAP LINK, OR CARABINER-TYPE CONNECTOR WITH APPROVED BLACK FINISH. SIZE TO ALLOW SPACING NO LESS THAN 12" O.C. BUT NO GREATER THAN 21" O.C. TO REDUCE ROPE BORDER SAG BETWEEN CONNECTIONS.
- ③ LOOSE VERTICAL CONNECTIONS TO BE VIA BLACK VINYL OR POLYESTER SNAP-CLIP SPACED 12"-15" O.C.
- ④ BOTTOM VERTICAL SUPPORT CABLE CONNECTION TO INCLUDE A TURNBUCKLE FOR ADJUSTMENT.
- ⑤ BALL CONTROL NET ASSEMBLY BOTTOM EDGE CONNECTION TO BE VIA HEAVY DUTY, UV-RESISTANT, NYLON ZIP TIE 12"-15" O.C. DIRECTLY TO CHAIN LINK FABRIC BELOW THE TOP RAIL. CLF FABRIC TO BE INSTALLED ON THE FIELD SIDE OF THE FRAMEWORK. BALL CONTROL NET TO BE SECURED TO THE FIELD SIDE OF THE FINISHED CHAIN LINK FENCE ASSEMBLY BELOW THE TOP RAIL.
- ⑥ MAIN VERTICAL SUPPORT CABLE CONNECTION TO POLE AT 12' - 15' O.C., MATCH TOP TAB OR FLANGE A

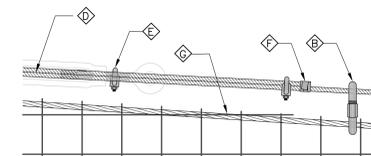
HARDWARE NOTES:

- Ⓛ EYE BOLT LOCATED NEAR TOP OF POLE ASSEMBLY. PLACEMENT TO ACCOUNT FOR POTENTIAL OF UP TO 18" OF SAG IN THE TOP SUPPORT CABLE AT 70LSF TENSION WITH THE NETTING IN PLACE. MAX SPACING BETWEEN HORIZONTAL CABLE ENDS 120LF
- Ⓜ GALVANIZED OR STAINLESS STEEL THREADED MASTER LINK CARABINER OR APPROVED EQUAL, 1/2" x 1-1/2" PROVIDE HORIZONTAL HARDWARE WITH APPROVED BLACK FINISH.
- Ⓨ GALVANIZED STEEL THIMBLE SIZED FOR THE SPECIFIED WIRE ROPE; USE AT ALL CABLE TERMINATIONS.
- Ⓩ GALVANIZED STEEL WIRE ROPE, 5/16"Ø.
- Ⓚ WIRE ROPE CONNECTOR, U-BOLT TYPE. MIN. TWO PER CONNECTION OR AS NEEDED.
- Ⓛ VINYL TAPE TRIPLE WRAP ALL CUT WIRE ENDS.
- Ⓜ PRE-FABRICATED BALL CONTROL NET ASSEMBLY TO BE PROVIDED WITH A CONTINUOUS 5/8" NYLON ROPE BORDER.
- Ⓨ BLACK VINYL OR POLYESTER SNAP-CLIP FOR VERTICAL CABLE-TO-ROPE CONNECTIONS ONLY
- Ⓩ GALVANIZED OR STAINLESS STEEL TURNBUCKLE, 1/2" x 12".

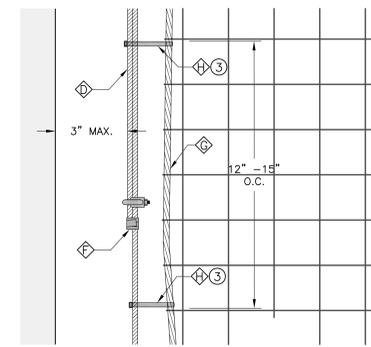
1 FENCING & NETTING DETAIL
F-2.5 NOT TO SCALE



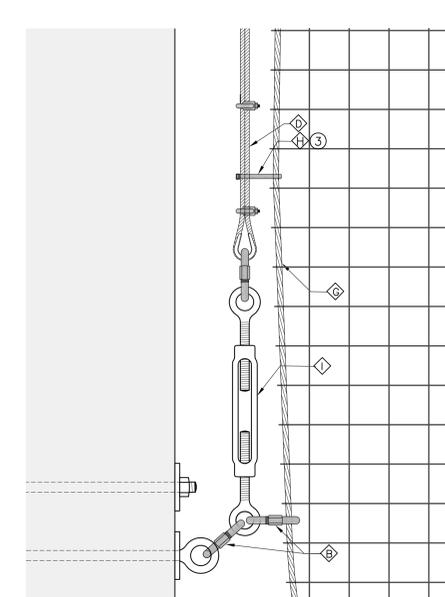
B TOP CORNER CABLE & RIGGING
NOT TO SCALE



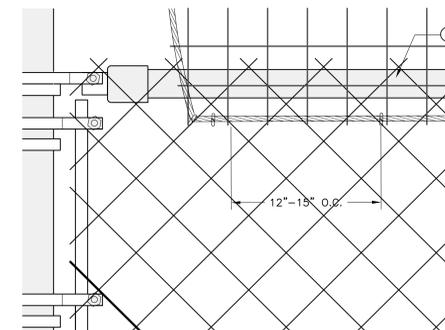
C TOP EDGE SUPPORT
NOT TO SCALE



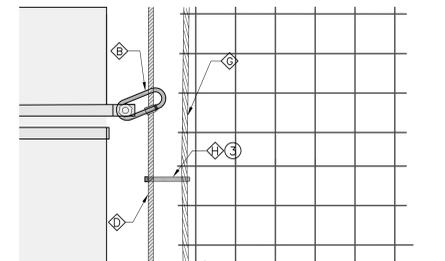
D VERTICAL EDGE SUPPORT
NOT TO SCALE



E VERTICAL CABLE RIGGING
NOT TO SCALE



F CONNECTION @ CHAIN LINK FENCE
NOT TO SCALE



G INTERMEDIATE NET SUPPORT
NOT TO SCALE

REVISION DATE



LAKE TYE PARK
ALL WEATHER FIELD
IMPROVEMENTS



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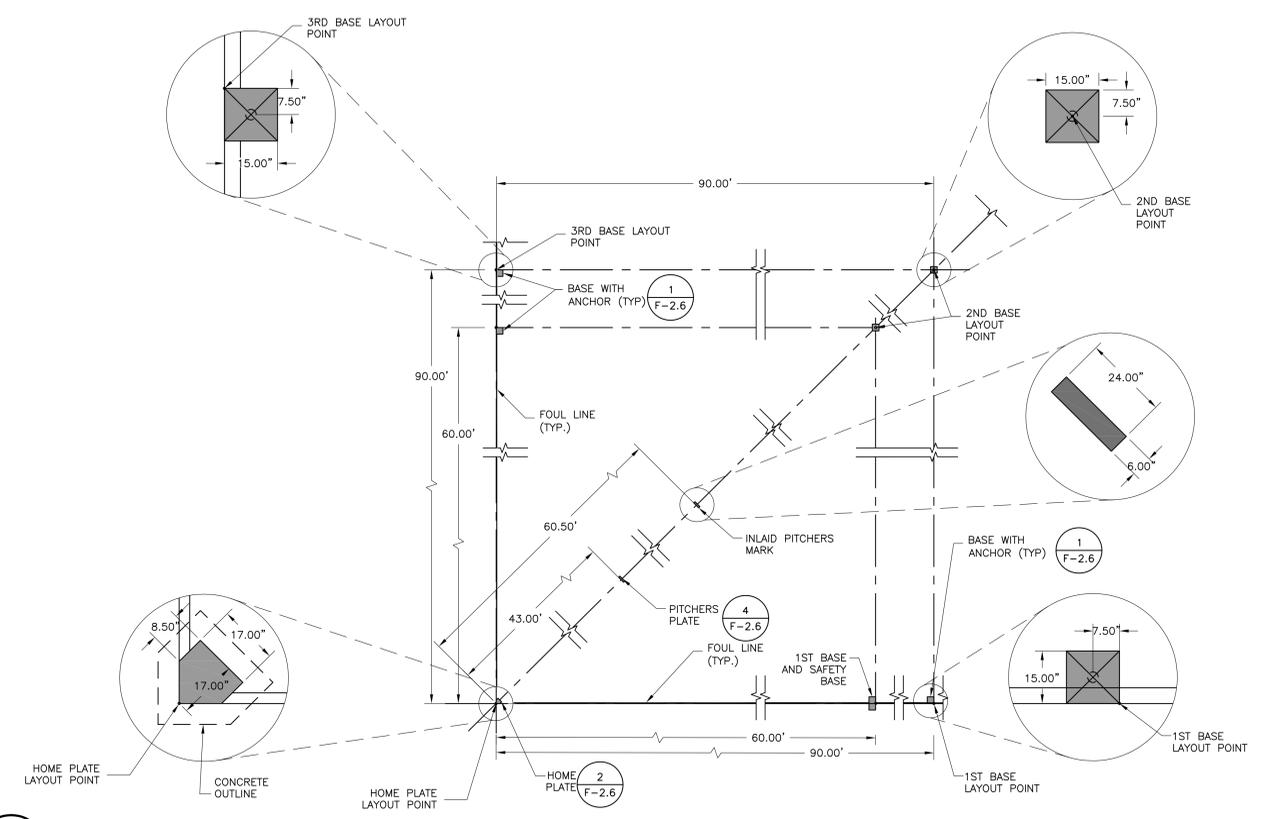
FENCING DETAILS

SHEET

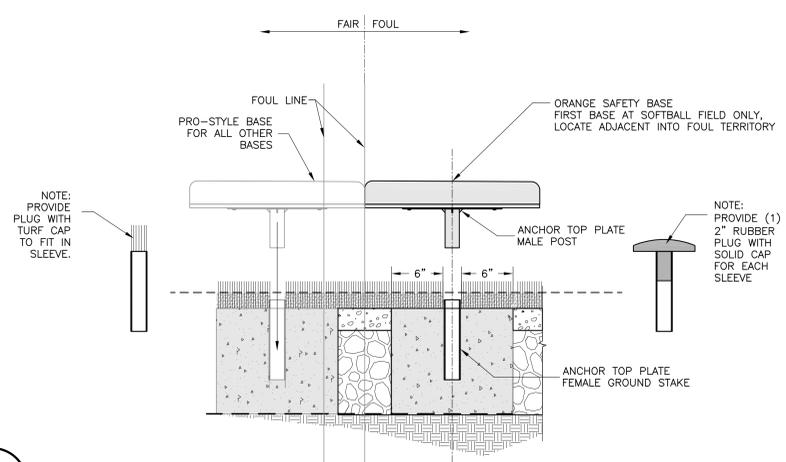
F-2.5



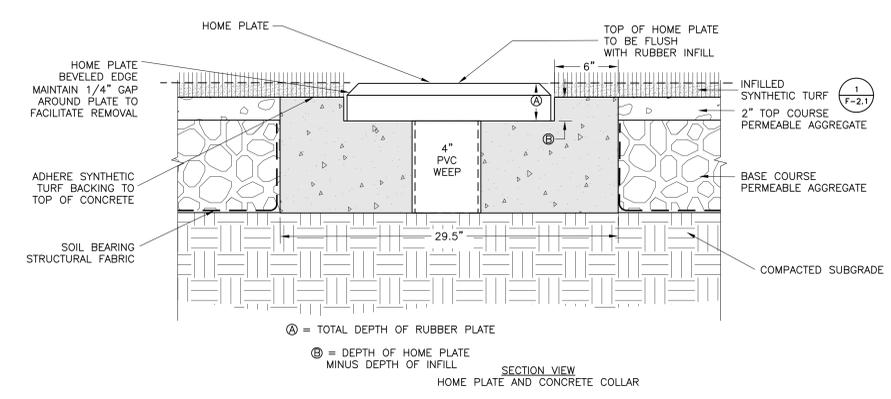
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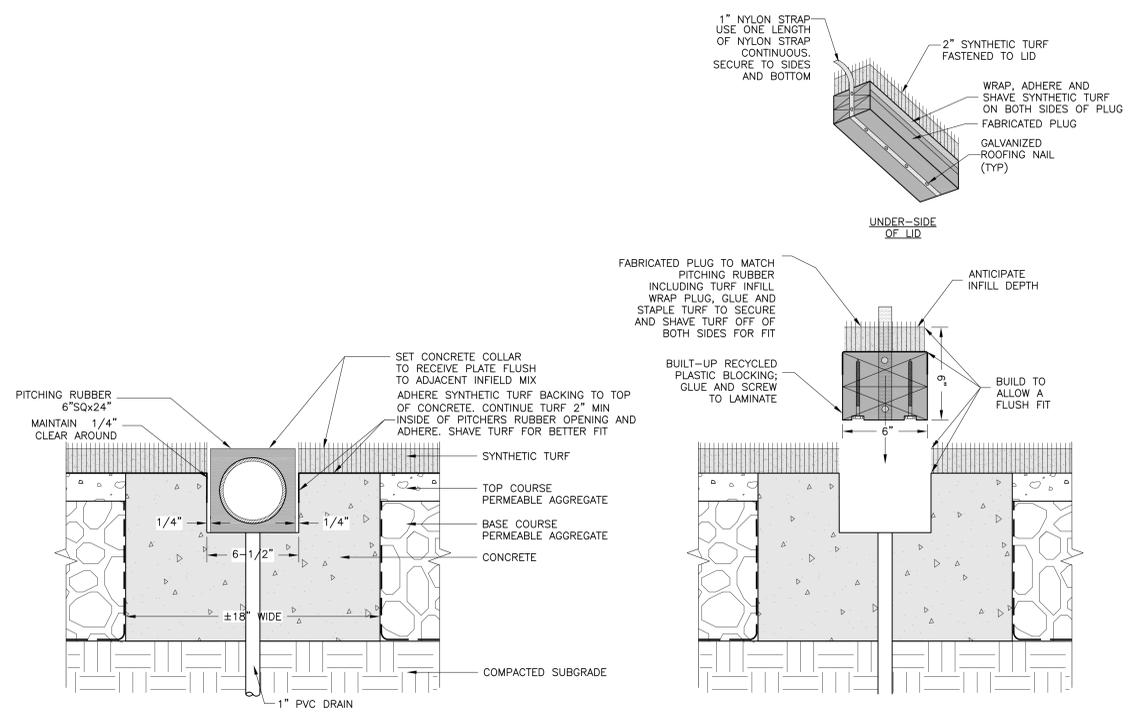
3 BASE AND PLATE ANCHOR LAYOUT
F-2.6 NOT TO SCALE



1 SAFETY BASE WITH ANCHOR
F-2.6 NOT TO SCALE



2 HOME PLATE
F-2.6 NOT TO SCALE



4 PITCHING PLATE
F-2.6 NOT TO SCALE

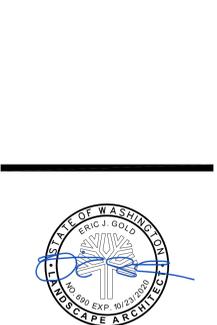
File: F-2.6 Softball and Baseball Details.dwg Plotted by: CorneliusW Date: 25-Jun-19 11:16:54am



LAKE TYE PARK
ALL WEATHER FIELD
IMPROVEMENTS

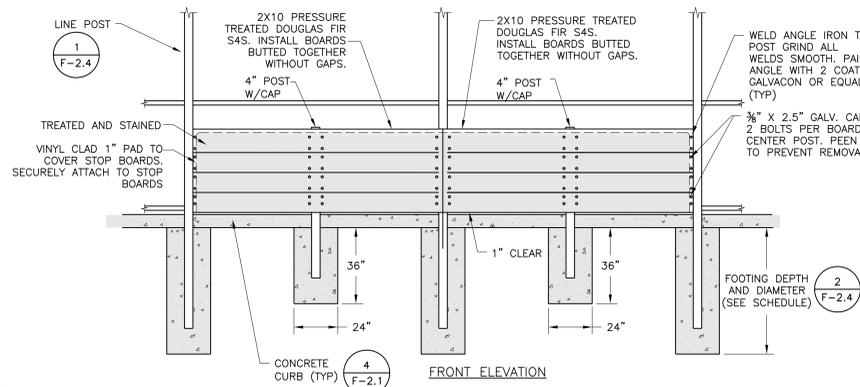
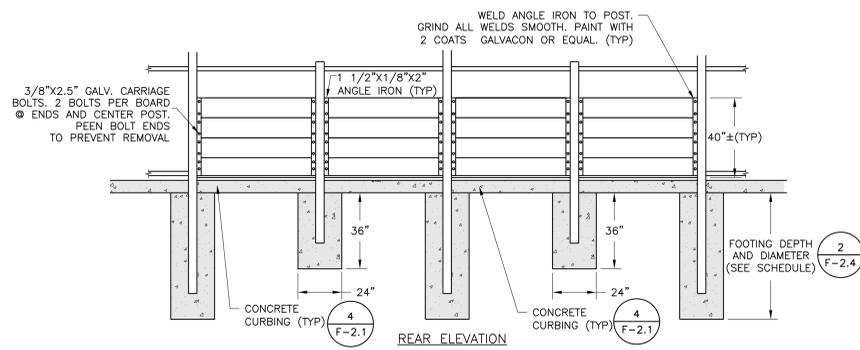


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SOFTBALL AND
BASEBALL
DETAILS

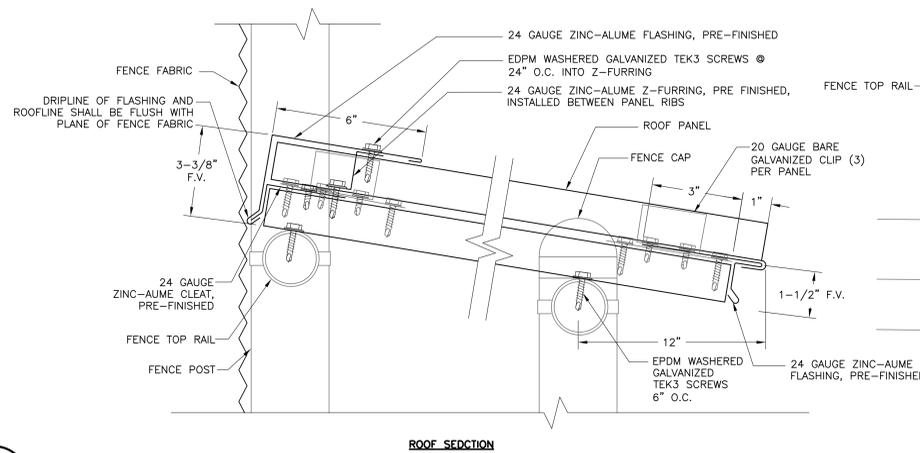
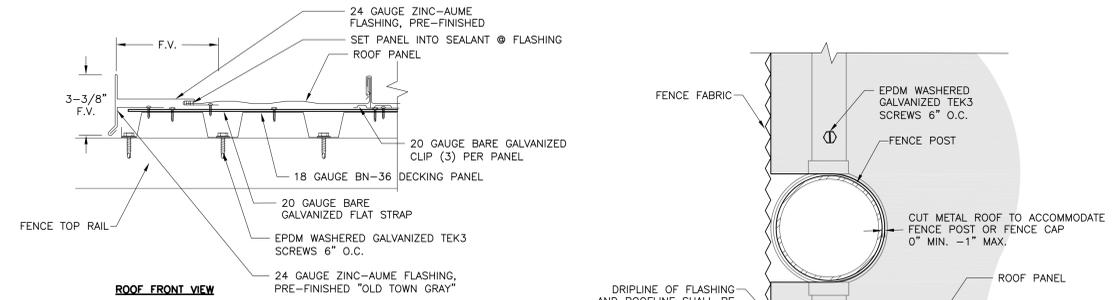


1 STOPBOARDS
F-2.7 NOT TO SCALE

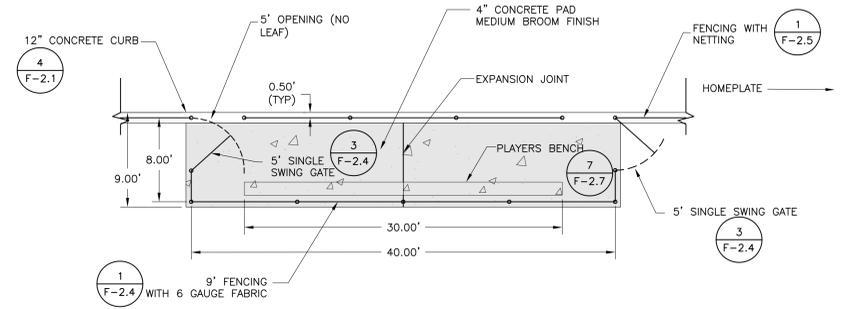
NOTE:
INDICATES CONDITION AT
SOFTBALL BACKSTOPS AT
FIELDS 1 AND 2.

STOPBOARDS NOT
REQUIRED AT SOFTBALL
FIELDS 3, 4 AND 5.

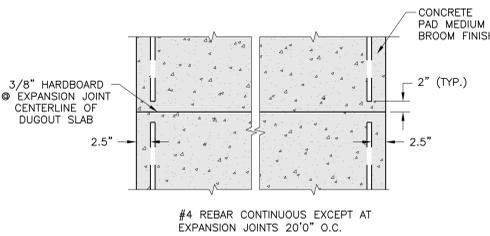
INSTALL PAD AT FIELDS
3, 4, AND 5 ON
CONCRETE WALL.



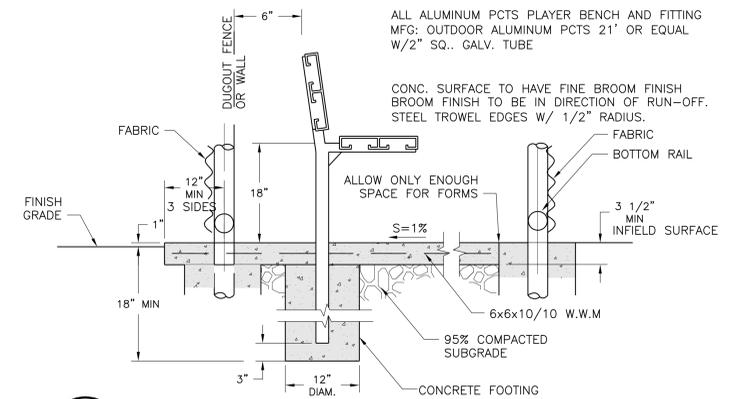
4 DUGOUT ROOF EDGE
F-2.7 NOT TO SCALE



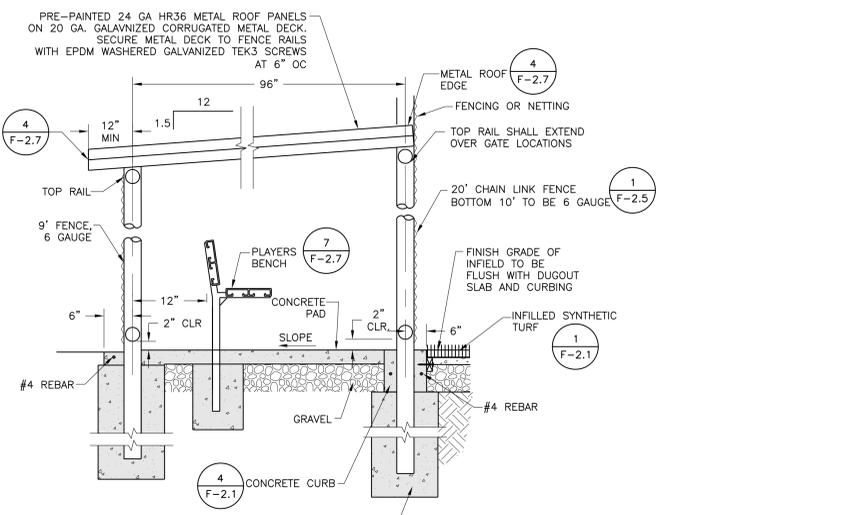
2 DUGOUT - PLAN VIEW
F-2.7 NOT TO SCALE



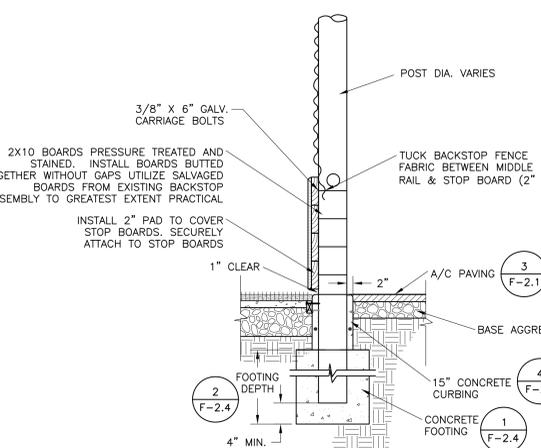
5 CONCRETE DUGOUT-EXPANSION JOINT
F-2.7 NOT TO SCALE



7 PLAYERS BENCH DETAIL
F-2.7 NOT TO SCALE



3 DUGOUT SECTION
F-2.7 NOT TO SCALE



6 SOFTBALL BACKSTOP WITH STOPBOARDS
F-2.7 NOT TO SCALE

REVISION	DATE

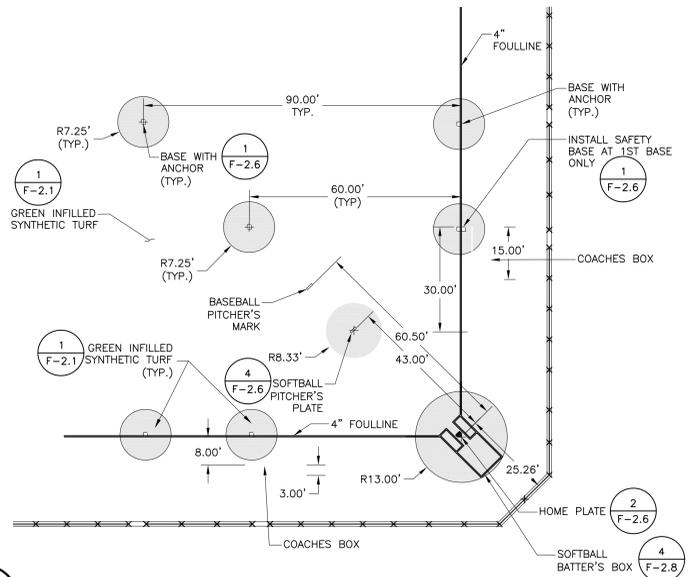


LAKE TYE PARK
ALL WEATHER FIELD
IMPROVEMENTS

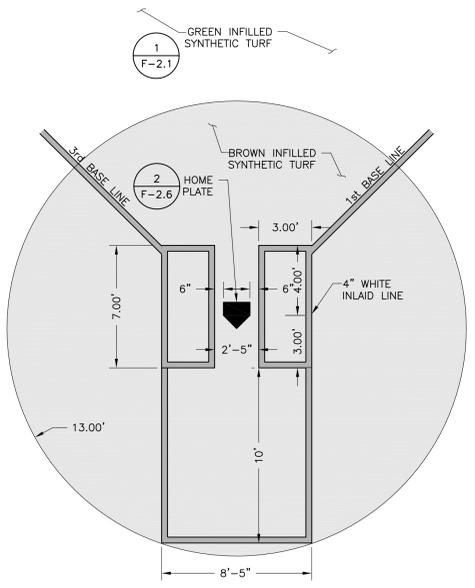


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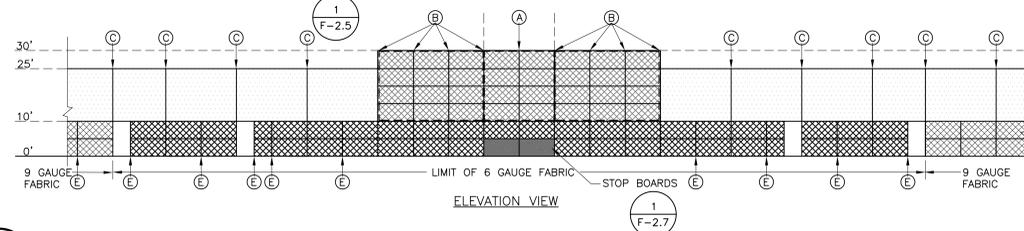
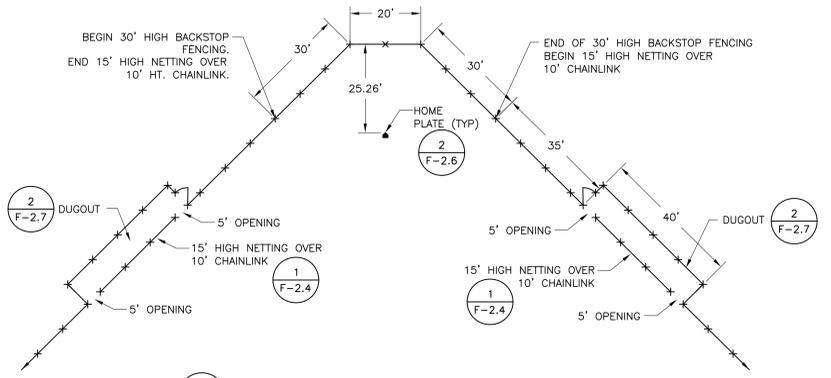
SOFTBALL DETAILS
SHEET
F-2.8



1
SOFTBALL LAYOUT PLAN
F-2.8 NOT TO SCALE

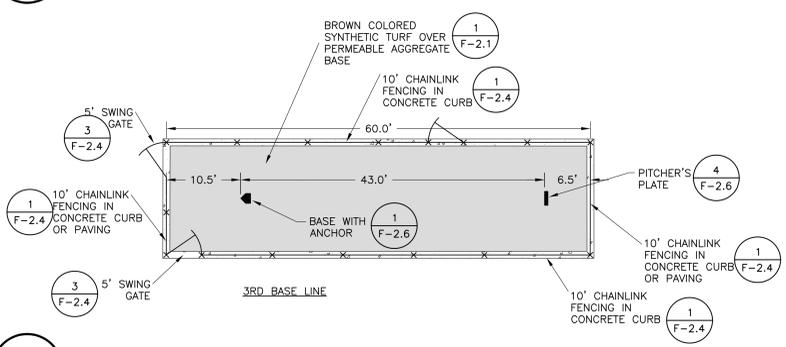


4
SOFTBALL BATTERS BOX
F-2.8 NOT TO SCALE



- A) 30' HEIGHT CHAIN LINK FENCE WITH STOPBOARDS; 2" MESH X6 GAUGE BELOW 10', X9 GAUGE BELOW 10', TOP, BOTTOM, AND 5' INTERMEDIATE RAILS.
- B) 30' HEIGHT CHAIN LINK FENCE; 2" MESH X6 GAUGE BELOW 10', X9 GAUGE ABOVE 10', TOP, BOTTOM, AND 5' INTERMEDIATE RAILS.
- C) 25' OVERALL; 10' HEIGHT CHAIN LINK FENCE; 2" MESH X6 OR X9 GAUGE, TOP, MIDDLE, BOTTOM RAIL, 15' X2"SQ. NYLON NETTING ABOVE
- E) 10' HEIGHT CHAIN LINK FENCE; 2" MESH X6 OR X9 GAUGE, TOP, MIDDLE, BOTTOM RAIL

2
SOFTBALL BACKSTOP-WING FENCING
F-2.8 NOT TO SCALE



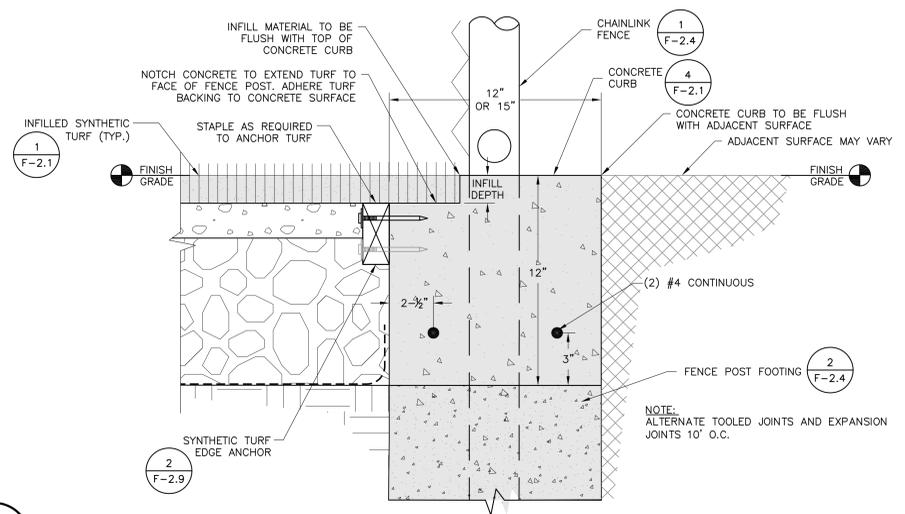
3
BULLPEN - PLAN VIEW
F-2.8 NOT TO SCALE

File: F-2.8 Softball Details.dwg Plotted by: CorneilW Date: 25-Jun-19 11:52:28am

REVISION	DATE

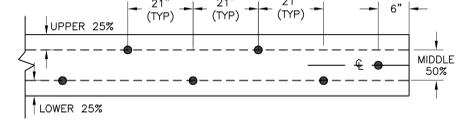
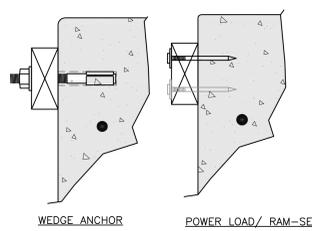


LAKE TYE PARK
ALL WEATHER FIELD
IMPROVEMENTS

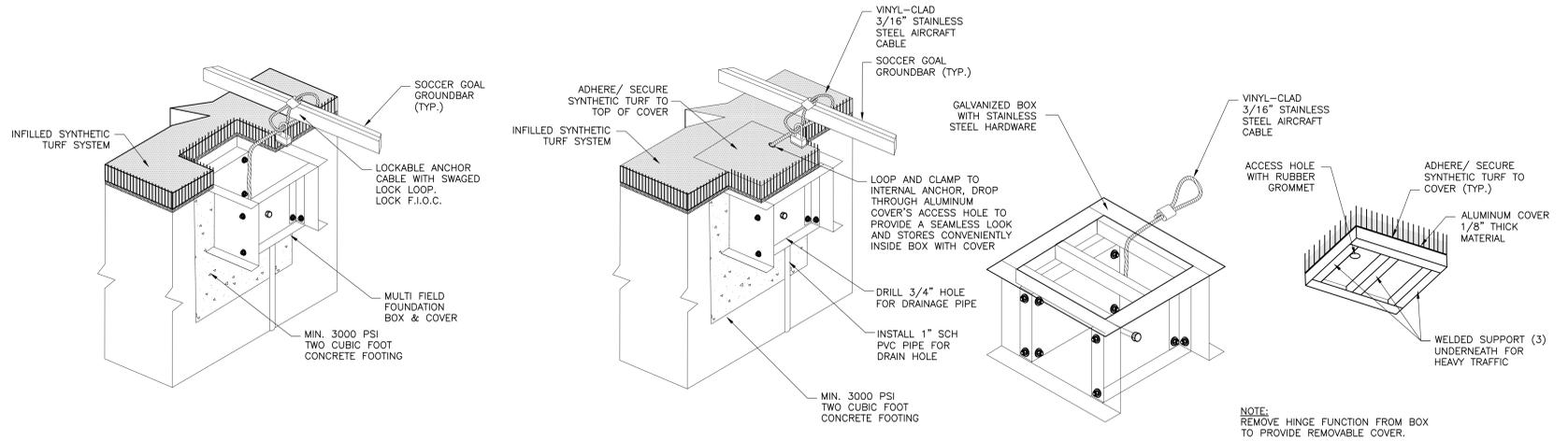


1
F-2.9
EDGE ANCHOR AT CONCRETE CURB
NOT TO SCALE

- NOTES:
1. THE PLASTIC EDGE ANCHOR MAY BE TEMPORARILY SET WITH POWER-LOADS PLACED AT THE CONTRACTORS OPTION TO ASSIST IN ESTABLISHING THE PROPER LINE AND GRADE. THIS TEMPORARY HARDWARE MAY REMAIN AFTER FINAL INSTALLATION.
 2. THE CONTRACTOR MAY CHOOSE TO UTILIZE STEEL POWER-LOAD DRIVEN OR RAM-SET CONCRETE ANCHOR NAILS. MINIMUM SHANK DIAMETER 5/32". MINIMUM HEAD/WASHER DIAMETER 3/8". SUFFICIENT LENGTH TO INSURE A MINIMUM 2" EMBEDMENT. INDIVIDUAL ANCHORS SHALL DEVELOP A MINIMUM 450LB SHEAR, 350LB TENSION IN 4,000PSI CONCRETE AT 2" EMBEDMENT.
 3. ONCE INITIAL LINE AND GRADE HAS BEEN ESTABLISHED, INSTALL THE SPECIFIED RAM-SET OR POWER-LOAD DRIVEN CONCRETE ANCHORING NAILS IN MANNER CONSISTENT WITH THE APPROVED MANUFACTURERS PRINTED INSTRUCTION AND THE SPECIFIED SPACING.
 4. WEDGE ANCHOR TO BE SET AT MIDDLE 50% OF EACH BOARD. 30" O.C. MAX., 4-6" FROM ENDS.
 5. MINIMUM REQUIREMENTS FOR CONCRETE ANCHOR NAIL INSTALLATION DEPTH OF EMBEDMENT: 2" OR AS RECOMMENDED BY THE ANCHOR SUPPLIER, WHICHEVER IS GREATER. HORIZONTAL SPACING: NO GREATER THAN 21" ON CENTER AND 6" FROM END OF ANY LENGTH OF LUMBER. STAGGER THE SPACING OF EACH ANCHOR UP AND DOWN WITHIN THE MIDDLE ONE-HALF THE FACE OF THE RECYCLED EDGE ANCHOR.



2
F-2.9
SYNTHETIC TURF EDGE ANCHOR-NOTE
NOT TO SCALE



3
F-2.9
SOCCER GOAL ANCHOR
NOT TO SCALE

PERMIT SET	
DATE	6-17-19
SCALE	NTS
DRAWN	REF
CHECKED	EIG
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SITE DETAILS

File: F-2.9 Site Details.dwg Plotted by: CorneilW Date: 25-Jun-19 11:53:56am

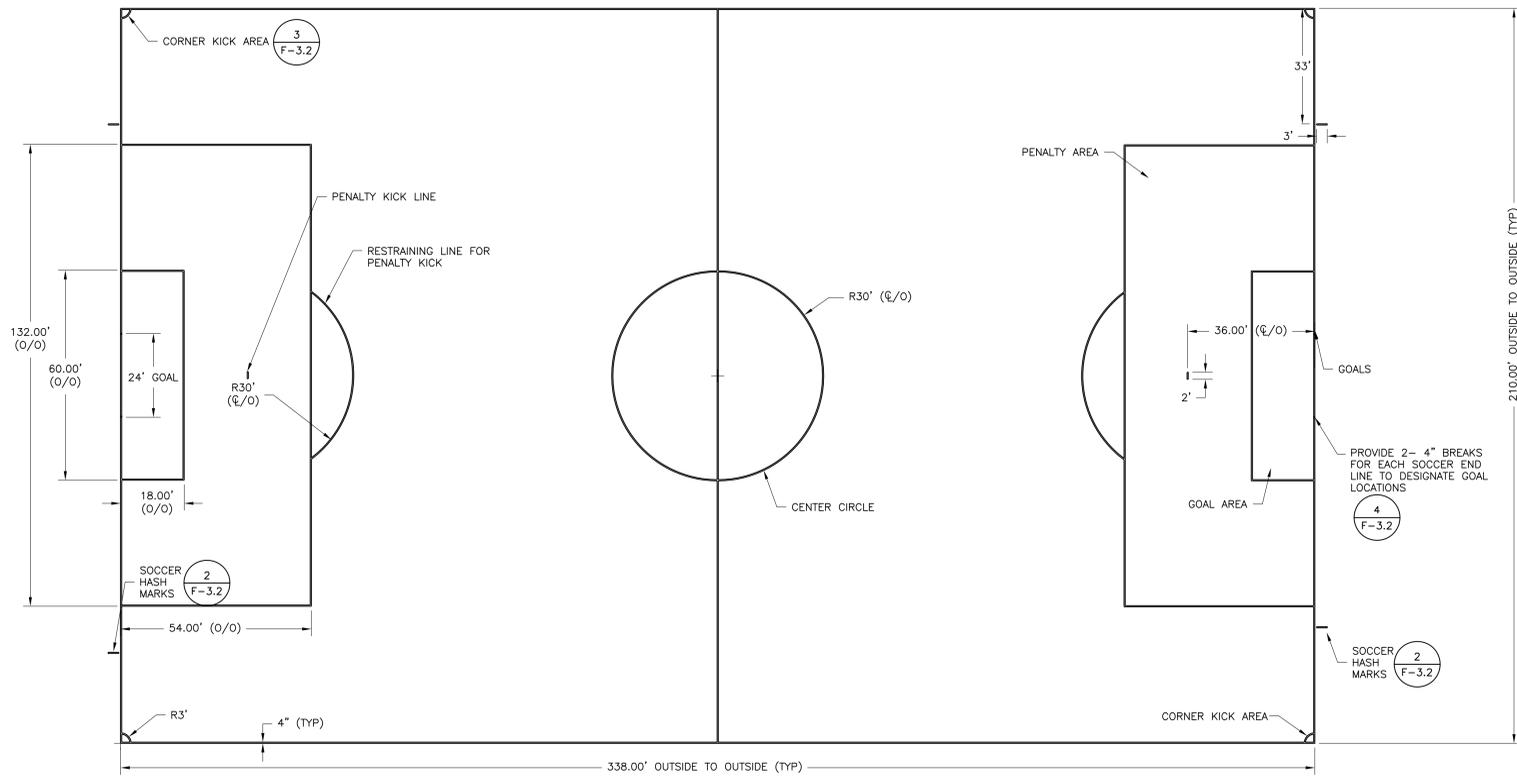


LAKE TYE PARK
ALL WEATHER FIELD
IMPROVEMENTS



PERMIT SET	
DATE	6-17-19
SCALE	NTS
DRAWN	REF
CHECKED	EJG
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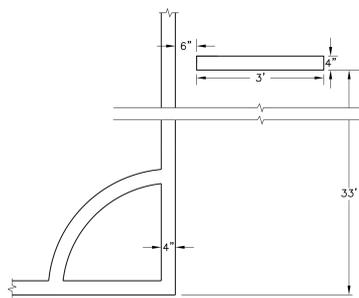
SOCCER LAYOUT
PLAN AND
DETAILS



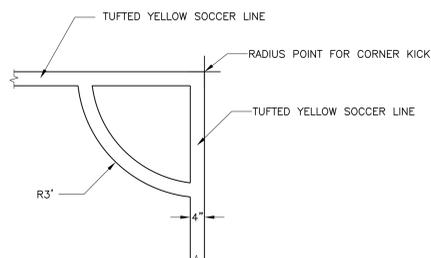
SOCCER LAYOUT NOTES

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ALL LINE WORK IS TO BE LAID OUT WITH A TOLERANCE OF 1/4 INCH.
- ALL SOCCER LINES ARE 4 INCH YELLOW/GOLD INLAID TURF AS DIMENSIONED ON SOCCER LAYOUT PLAN.
- THE SOCCER GOAL AREA IS 18 FEET BY 60 FEET. REFER TO PLAN FOR LOCATION.
- THE SOCCER PENALTY AREA IS 54 FEET BY 132 FEET.
- THE PENALTY MARK IS A 2 FOOT LINE, 4 INCHES WIDE, 36 FEET FROM THE END LINE AND CENTERED ON THE GOAL. THE RESTRAINING LINE FOR PENALTY KICK AN ARC 30 FEET FROM THIS MARK OUTSIDE OF THE PENALTY AREA. REFER TO PLAN FOR LOCATION.
- THE HALFWAY LINE FOR THE SOCCER FIELD IS A 4 INCH YELLOW INLAID LINE WITH A CIRCLE, 30 FEET IN RADIUS IN THE CENTER OF THE FIELD. THE RADIUS POINT OF THE MIDFIELD CIRCLE WILL BE INLAID YELLOW DOT WITH A 9 INCH DIAMETER.
- THE CORNERS OF THE SOCCER FIELD SHALL HAVE A 3 FOOT RADIUS IN YELLOW TURF DESIGNATING THE CORNER KICK AREA. THE HASH MARK IS A 3 FOOT LINE, 4 INCHES WIDE, 33 FEET FROM THE SIDE LINE AND EXTENDS AWAY FROM THE FIELD OF PLAY.

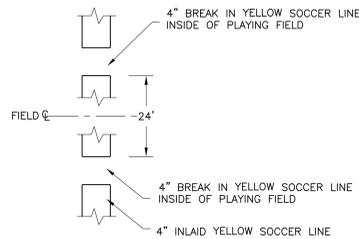
1 SOCCER LAYOUT PLAN
F-3.2 SCALE 1"=20'



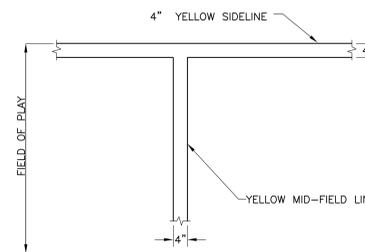
2 SOCCER HASH MARKS
F-3.2 NOT TO SCALE



3 CORNER KICK DETAIL
F-3.2 NOT TO SCALE



4 SOCCER GOAL ALIGNMENT SQUARES
F-3.2 NOT TO SCALE



5 SOCCER SIDELINE
F-3.2 NOT TO SCALE

REVISION	DATE



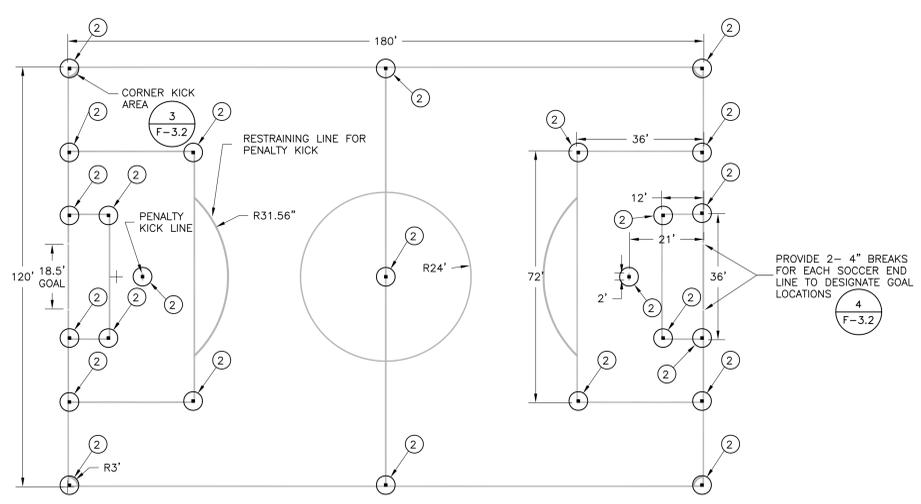
LAKE TYE PARK
ALL WEATHER FIELD
IMPROVEMENTS



PERMIT SET	
DATE	6-17-19
SCALE	NTS
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MODIFIED
SOCCER &
LACROSSE
LAYOUT PLANS

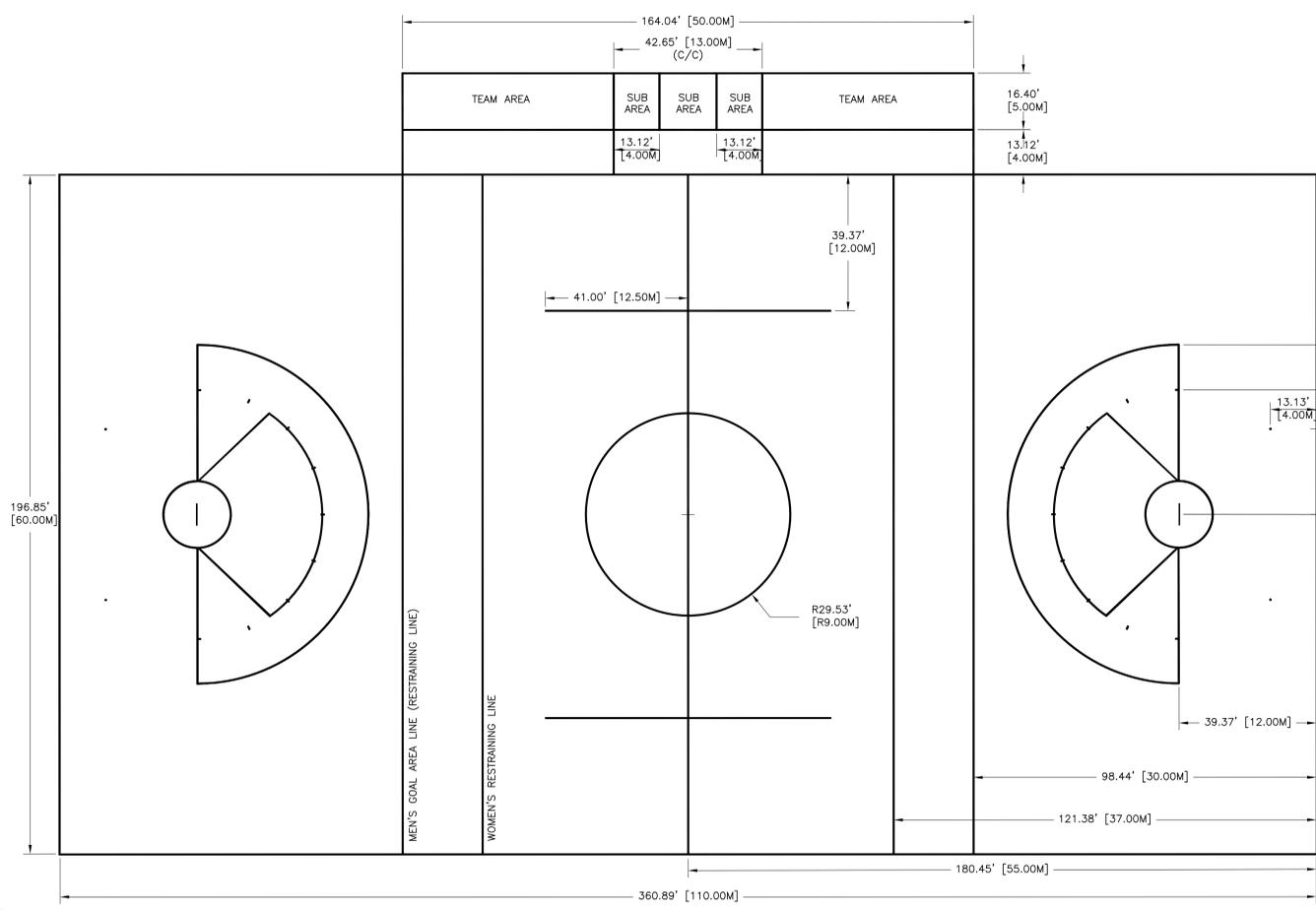
SHEET
F-3.3



SOCCER LAYOUT NOTES

- FOR SOCCER LAYOUT NOTES SEE DETAIL 1/F-3.3.
- CONTRACTOR TO INSTALL 25-4" GRAY/SILVER SQUARE TURF AT LOCATIONS INDICATED.

1 MODIFIED SOCCER LAYOUT PLAN
F-3.3 NOT TO SCALE



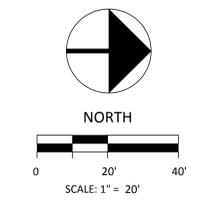
- NOTES:
- ALL DIMENSIONS SPECIFIED ARE FOR UNIFIED LACROSSE PER FIL RULES.
 - TWO ARCS SHALL BE MARKED 8 METERS (8.8 YARDS) AND 12 METERS (13 YARDS) FROM THE GOAL CIRCLES. THE ARCS SHALL BE MEASURED FROM THE CENTER OF THE GOAL LINE, 10.6 METERS (34 FEET, 9 INCHES) FOR THE 8-METER MARK AND 14.6 METERS (47 FEET, 9 INCHES) FOR THE 12-METER MARK. THE 8 METER ARC SHALL END ON A LINE ON EACH SIDE THAT RUNS FROM A POINT ON EACH SIDE OF THE GOAL CIRCLE, WHERE IF THE GOAL LINE WERE CONTINUED IT WOULD CROSS THE GOAL LINE. THIS LINE WILL BE AT A 45-DEGREE ANGLE TO THE GOAL LINE EXTENDED. THE 8-METER ARC WILL BE SECTIONED OFF BY HASH MARKS 32 CENTIMETERS (1 FOOT) IN LENGTH, PERPENDICULAR AND BISECTING THE ARC. THESE WILL BE MEASURED 4, 8 AND 12 METERS, RESPECTIVELY, FROM EITHER SIDE OF THE CENTER HASH MARK, WHICH SHALL BE MEASURED FROM THE CENTER OF AND PERPENDICULAR TO THE CENTER OF THE GOAL LINE, (10.6 METERS/34 FEET, 9 INCHES). TWO ADDITIONAL 32 CENTIMETER (1 FOOT) HASH MARKS WILL BE MADE 8 METERS FROM THE GOAL CIRCLE, PERPENDICULAR TO THE GOAL LINE EXTENDED. THE 12-METER ARC WILL END AT THE GOAL LINE EXTENDED. ALL LINES ARE 4" WIDE EXCEPT FOR THE 2" GOAL LINE.
 - THE GOAL CIRCLE HAS A RADIUS OF 2.7 METERS (9.0 FEET) MEASURED FROM THE CENTER OF THE GOAL LINE TO THE OUTER EDGE OF THE GOAL-CIRCLE LINE. THE GOAL CIRCLE LINE SHALL BE 5 CENTIMETERS (2 INCHES) WIDE.
 - ALL LINES SHALL BE 4" BLUE LINES UNLESS OTHERWISE NOTED.
 - LACROSSE LINES SHALL BE SECONDARY TO OTHER DISCIPLINES.

2 UNIFIED LACROSSE LAYOUT PLAN
F-3.3 NOT TO SCALE

File: F-3.3 Lacrosse Layout Plans.dwg Plotted by: CorneilW Date: 24-Jun-19 3:47:09pm



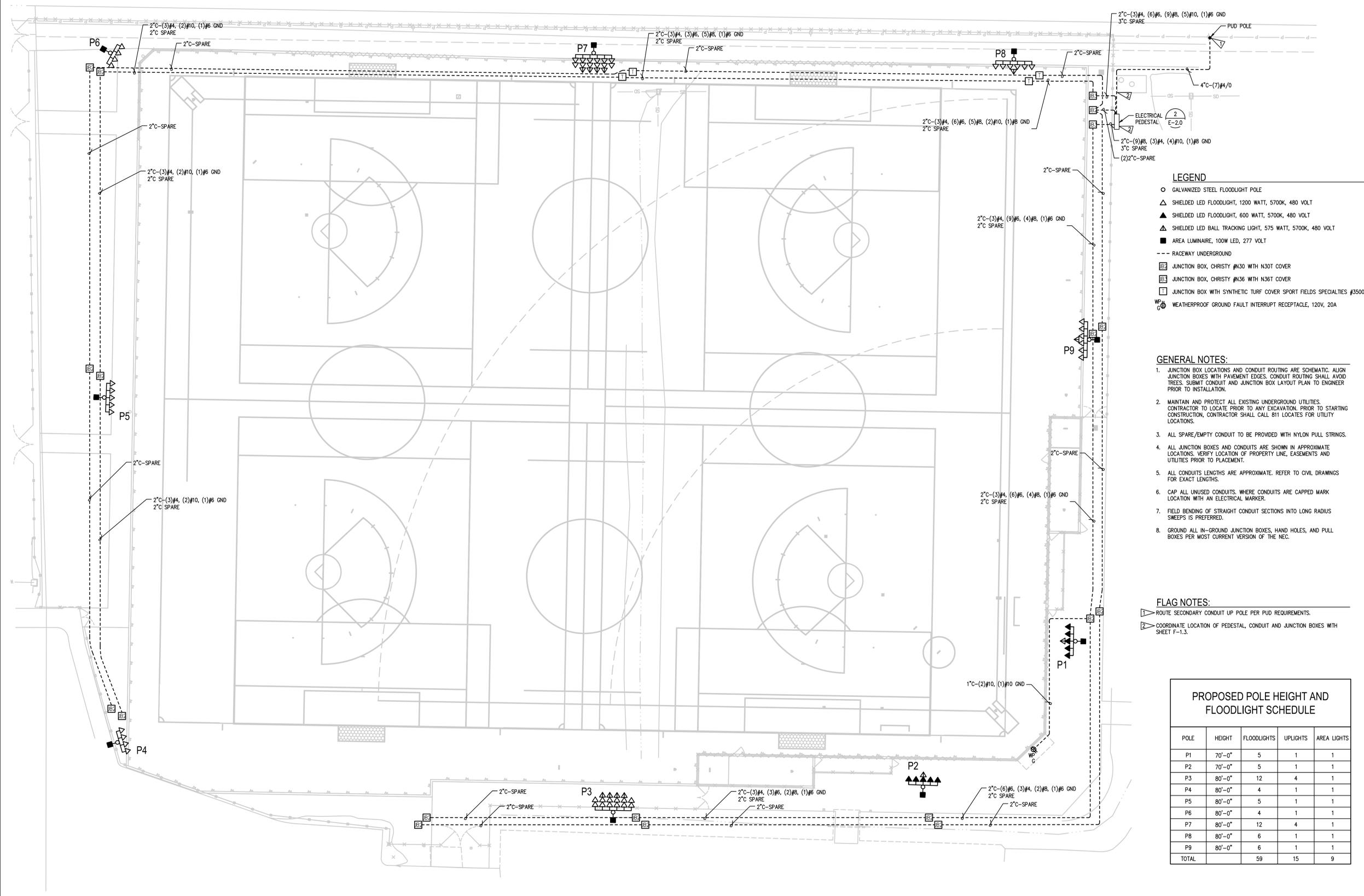
LAKE TYE PARK
ALL WEATHER
FIELD
IMPROVEMENTS



PERMIT SET

DATE	06-17-19
SCALE	1"=20'
DRAWN	JTW
CHECKED	CBF
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ELECTRICAL
SITE PLAN



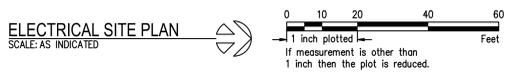
- LEGEND**
- GALVANIZED STEEL FLOODLIGHT POLE
 - ▲ SHIELDED LED FLOODLIGHT, 1200 WATT, 5700K, 480 VOLT
 - ▲ SHIELDED LED FLOODLIGHT, 600 WATT, 5700K, 480 VOLT
 - ▲ SHIELDED LED BALL TRACKING LIGHT, 575 WATT, 5700K, 480 VOLT
 - AREA LUMINAIRE, 100W LED, 277 VOLT
 - RACEWAY UNDERGROUND
 - ☐ JUNCTION BOX, CHRISTY #N30 WITH N30T COVER
 - ☐ JUNCTION BOX, CHRISTY #N36 WITH N36T COVER
 - ☐ JUNCTION BOX WITH SYNTHETIC TURF COVER SPORT FIELDS SPECIALTIES #3500.
 - WEATHERPROOF GROUND FAULT INTERRUPT RECEPTACLE, 120V, 20A

- GENERAL NOTES:**
1. JUNCTION BOX LOCATIONS AND CONDUIT ROUTING ARE SCHEMATIC. ALIGN JUNCTION BOXES WITH PAVEMENT EDGES. CONDUIT ROUTING SHALL AVOID TREES. SUBMIT CONDUIT AND JUNCTION BOX LAYOUT PLAN TO ENGINEER PRIOR TO INSTALLATION.
 2. MAINTAIN AND PROTECT ALL EXISTING UNDERGROUND UTILITIES. CONTRACTOR TO LOCATE PRIOR TO ANY EXCAVATION. PRIOR TO STARTING CONSTRUCTION, CONTRACTOR SHALL CALL 811 LOCATES FOR UTILITY LOCATIONS.
 3. ALL SPARE/EMPTY CONDUIT TO BE PROVIDED WITH NYLON PULL STRINGS.
 4. ALL JUNCTION BOXES AND CONDUITS ARE SHOWN IN APPROXIMATE LOCATIONS. VERIFY LOCATION OF PROPERTY LINE, EASEMENTS AND UTILITIES PRIOR TO PLACEMENT.
 5. ALL CONDUITS LENGTHS ARE APPROXIMATE. REFER TO CIVIL DRAWINGS FOR EXACT LENGTHS.
 6. CAP ALL UNUSED CONDUITS. WHERE CONDUITS ARE CAPPED MARK LOCATION WITH AN ELECTRICAL MARKER.
 7. FIELD BENDING OF STRAIGHT CONDUIT SECTIONS INTO LONG RADIUS SWEEPS IS PREFERRED.
 8. GROUND ALL IN-GROUND JUNCTION BOXES, HAND HOLES, AND PULL BOXES PER MOST CURRENT VERSION OF THE NEC.

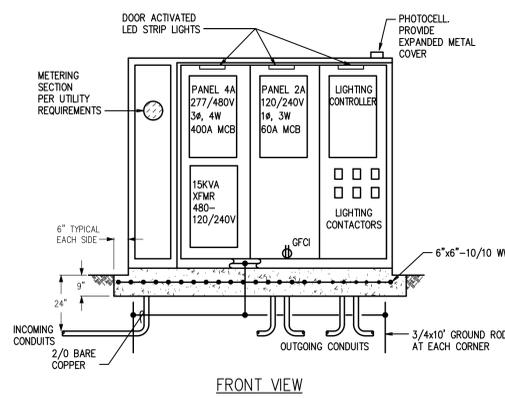
- FLAG NOTES:**
- ▽ ROUTE SECONDARY CONDUIT UP POLE PER PUD REQUIREMENTS.
 - ▽ COORDINATE LOCATION OF PEDESTAL, CONDUIT AND JUNCTION BOXES WITH SHEET F-1.3.

PROPOSED POLE HEIGHT AND FLOODLIGHT SCHEDULE

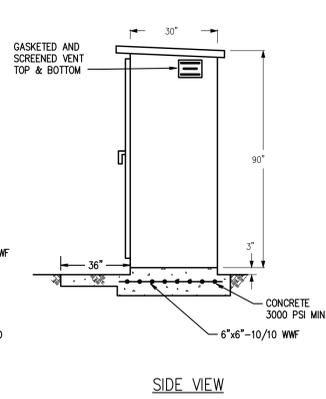
POLE	HEIGHT	FLOODLIGHTS	UPLIGHTS	AREA LIGHTS
P1	70'-0"	5	1	1
P2	70'-0"	5	1	1
P3	80'-0"	12	4	1
P4	80'-0"	4	1	1
P5	80'-0"	5	1	1
P6	80'-0"	4	1	1
P7	80'-0"	12	4	1
P8	80'-0"	6	1	1
P9	80'-0"	6	1	1
TOTAL		59	15	9



File: E10.dwg Plotted by: jwillmer Date: 18-Jun-19 4:02:28pm
 V:\2018\MONROE\20180729\CAD-BUILD\10 Jun 18, 2019 4:02 PM B.J.WILLMER

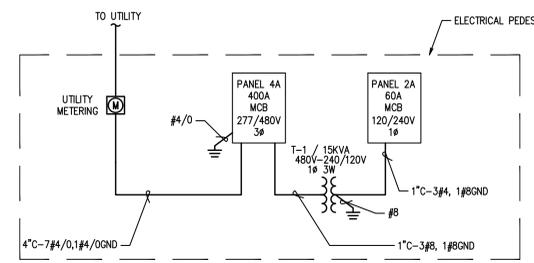


FRONT VIEW



SIDE VIEW

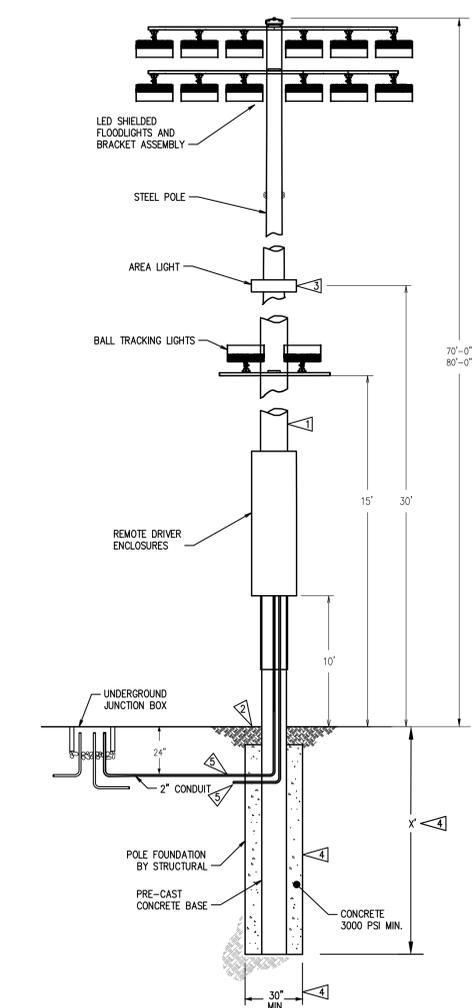
2 PEDESTAL DETAIL
E-2.0 SCALE: NONE



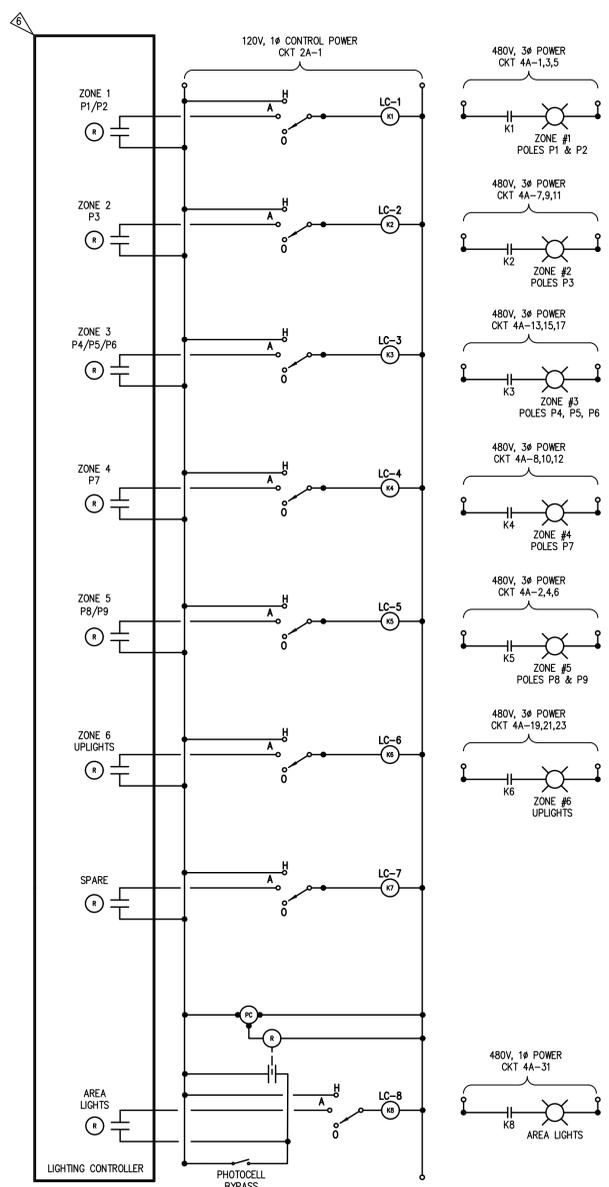
3 ONE-LINE DIAGRAM
E-2.0 SCALE: NONE

- FLAG NOTES:**
- SUPPLIER OF GALVANIZED STEEL POLE TO PROVIDE STRUCTURAL CALCULATIONS FROM A LICENSED STRUCTURAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON. CALCULATION TO INCLUDE WIND AND SEISMIC LOADS PER IBC 2012. SUBMIT WITH MANUFACTURER SHOP DRAWINGS DURING SUBMITTAL PHASE OF PROJECT.
 - MATCH EXISTING GRADE.
 - COORDINATE LOCATION OF BRACKET WITH POLE MANUFACTURER.
 - POLE FOUNDATION CALCULATIONS TO BE PROVIDED BY CONTRACTOR. CALCULATIONS TO BE PROVIDED BY A LICENSED STRUCTURAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON.
 - PROVIDE TWO 2" CONDUITS UP FLOODLIGHT POLE. EXTEND CONDUIT TO ADJACENT JUNCTION BOX. (POWER AND COMM).
 - PROVIDE DIMMING FOR FIELD LIGHTING SYSTEM AT 66%.

- LEGEND:**
- LC-1 LIGHTING CONTACTOR 3P30A
 - LC-2 LIGHTING CONTACTOR 3P60A
 - HOA SWITCH, SQUARE D 9001 SERIES
 - PHOTOCELL 105-285 V. 1800 VA.
 - POLE LIGHTS
 - RELAY
 - NORMALLY OPEN CONTACTOR



1 FLOODLIGHT POLE DETAIL - LED
E-2.0 SCALE: NONE



4 FIELD LIGHTING CONTROL LOGIC
E-2.0 SCALE: NONE

Stantec										Panel		
Name: 4A		277/480V		3 PH 4W 400A		Main CB		Surface Mounted		Type: Panelboard		
Location: Field Pedestal										42,000 AIC		
Serves: Athletic Fields										Single Lugs		
#	Description	Load	CB	*	A	B	C	B	Load	Description	#	
1	Lighting POLES P1, P2	2.00	30/3	CB	X			30/3	CB	4.80	Lighting POLES P8, P9	2
3	POLES P1, P2	2.00			X					4.80	POLES P8, P9	4
5	POLES P1, P2	2.00			X					4.80	POLES P8, P9	6
7	Lighting POLE P3	4.80	30/3	CB	X			30/3	CB	4.80	Lighting POLE P7	8
9	POLE P3	4.80			X					4.80	POLE P7	10
11	POLE P3	4.80			X					4.80	POLE P7	12
13	Lighting POLES P4, P5, P6	5.20	30/3	CB	X			0/1		0.00	Space	14
15	POLES P4, P5, P6	5.20			X			0/1		0.00	Space	16
17	POLES P4, P5, P6	5.20			X			0/1		0.00	Space	18
19	Lighting BALL TRACKING LIGHTS	2.30	30/3	CB	X			0/1		0.00	Space	20
21	BALL TRACKING LIGHTS	2.30			X			0/1		0.00	Space	22
23	BALL TRACKING LIGHTS	2.30			X			0/1		0.00	Space	24
25	Space	0.00	0/1		X			0/1		0.00	Space	26
27	Space	0.00	0/1		X			0/1		0.00	Space	28
29	Space	0.00	0/1		X			0/1		0.00	Space	30
31	Lighting AREA LIGHTS	1.08	20/1	CB	X			0/1		0.00	Space	32
33	Space	0.00	0/1		X			0/1		0.00	Space	34
35	Space	0.00	0/1		X			0/1		0.00	Space	36
37	Space	0.00	0/1		X			0/1		0.00	Space	38
39	Space	0.00	0/1		X			0/2	0.38	Panel 2A	40	
41	Space	0.00	0/1		X					0.00	Panel 2A	42
Rev:		Revised Ckts Marked #		Existing Ckts Marked #		PH A		PH B		PH C		* Circuit Breaker Code
204820750		24.98		24.28		23.90						G = GFCI H = HID Rated
File:		V:\2048\active\204820750\Design\Sched\Lake Tye Park.PNL										
Notes:		S = Shunt Trip C = HACR Rated D = Switching Duty # = See Note A = AFCI										
Load Type	Conn KVA	NEC Demand Factor	Dem.		KVA Dem. Amj		NEC Feed %		NEC Feed Amps			
Equip	0.20	100%	0.20	0	0	100%	0	0	0	0		
Lighting	72.78	100%	72.78	88	125%					109		
Receipt	0.18	10 KVA @ 100%, rest @ 50%	0.18	0	100%					0		
	73.16		88 Amps	73.16	88					110		

Stantec										Panel		
Name: 2A		120/240V		1 PH 3W 60A		Main CB		Surface Mounted		Type: Panelboard		
Location: Field Pedestal										10,000 AIC		
Serves: Athletic Fields										Single Lugs		
#	Description	Load	CB	*	A	B	C	B	Load	Description	#	
1	Equip LIGHTING CONTROLLER	0.20	20/1	CB	X			20/1	CB	0.18	Receipt BACKSTOP RECEPTACLE	2
3	Space	0.00	0/1		X			0/1		0.00	Space	4
5	Space	0.00	0/1		X			0/1		0.00	Space	6
7	Space	0.00	0/1		X			0/1		0.00	Space	8
9	Space	0.00	0/1		X			0/1		0.00	Space	10
11	Space	0.00	0/1		X			0/1		0.00	Space	12
13	Space	0.00	0/1		X			0/1		0.00	Space	14
15	Space	0.00	0/1		X			0/1		0.00	Space	16
17	Space	0.00	0/1		X			0/1		0.00	Space	18
19	Space	0.00	0/1		X			0/1		0.00	Space	20
21	Space	0.00	0/1		X			0/1		0.00	Space	22
23	Space	0.00	0/1		X			0/1		0.00	Space	24
Rev:		Revised Ckts Marked #		Existing Ckts Marked #		PH A		PH B		PH C		* Circuit Breaker Code
204820750		0.38		0.00								G = GFCI H = HID Rated
File:		V:\2048\active\204820750\Design\Sched\Lake Tye Park.PNL										
Notes:		S = Shunt Trip C = HACR Rated D = Switching Duty # = See Note A = AFCI										
Load Type	Conn KVA	NEC Demand Factor	Dem.		KVA Dem. Amj		NEC Feed %		NEC Feed Amps			
Equip	0.20	100%	0.20	1	100%					1		
Receipt	0.18	10 KVA @ 100%, rest @ 50%	0.18	1	100%					1		
	0.38		2 Amps	0.38	2					2		

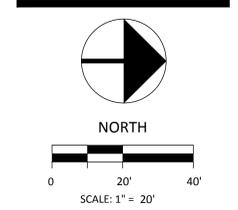
5 PANEL SCHEDULES
E-2.0 SCALE: NONE



LAKE TYE PARK
ALL WEATHER
FIELD
IMPROVEMENTS



4100 194th Street SW Suite 400
Lynnwood, Washington 98036-4613
(206) 667-0555



PERMIT SET

DATE: 06-17-19
SCALE: 1"=20'
DRAWN: JTW
CHECKED: CBF
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ELECTRICAL
DETAILS

File: E20.dwg Plotted by: jmtimmer Date: 18-Jun-19 4:02:40pm
 V:\2048\active\204820750\CAD-BIM\E20 Jun 18, 2019 4:02 PM by: jmtimmer

DESIGN LOADS

ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2015 EDITION, AS AMENDED BY THE CITY OF EDMONDS.

SEISMIC LOADS: EARTHQUAKE DESIGN IS BASED ON THE EQUIVALENT LATERAL FORCE PROCEDURE IN ASCE 7-10 CHAPTER 15.4 WITH THE FOLLOWING FACTORS:

SITE CLASS E
RISK CATEGORY II
SEISMIC DESIGN CATEGORY D

$S_s = 1.23\text{ g}$
 $S_1 = 0.47\text{ g}$
 $S_{0.5} = 0.74\text{ g}$
 $S_{D1} = 0.74\text{ g}$

$T_L = 6\text{ SECONDS}$
 $I_e = 1.0$
 $R = 1.5$

WIND LOADS: WIND LOAD IS DETERMINED USING CHAPTER 26-31 OF ASCE 7-10 IN ACCORDANCE WITH IBC SECTION 1609 WITH THE FOLLOWING FACTORS:

EXPOSURE CATEGORY C $I_w = 1.00$
 $V_{55} = 110\text{ MPH}$ $K_d = 0.85$
 $K_{zt} = 1.00$

DESIGN WIND PRESSURES FOR DETERMINING FORCES ON COMPONENTS SHALL BE DETERMINED USING CHAPTER 30 OF ASCE 7-10 IN ACCORDANCE WITH IBC SECTION 1609 BY THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN OF SUCH ELEMENTS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

SOIL LOADS:

FOUNDATIONS ARE PRECAST CONCRETE POLE POST FOUNDATIONS INSTALLED IN CONCRETE FILLED SHAFT EXCAVATIONS.

ALLOWABLE LATERAL SOIL-BEARING PRESSURE 150 PCF

SOIL BEARING ACTS ACROSS TWO PIER DIAMETER WIDTHS. THE UPPERMOST 2'-0" OF SOIL IS NEGLECTED REGARDING LATERAL BEARING RESISTANCE.

GENERAL NOTES

SUBMITTALS: SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD PRIOR TO ANY FABRICATION OR CONSTRUCTION FOR ALL FOUNDATION ITEMS. IF THE SHOP DRAWINGS DIFFER FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN.

DEFERRED SUBMITTALS: PER IBC SECTION 107.3.4.2, DRAWINGS AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY OTHERS SHALL BEAR THE SEAL AND SIGNATURE OF THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN AND SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AND THE BUILDING DEPARTMENT FOR REVIEW PRIOR TO FABRICATION. SUBMITTED CALCULATIONS ARE FOR CURSORY REVIEW ONLY AND WILL GENERALLY NOT BE RETURNED. DEFERRED SUBMITTALS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

PRESTRESSED/PRECAST CONCRETE POLE BASES
STEEL POLES

INSPECTION: SPECIAL INSPECTION PER IBC CHAPTER 17 SHALL BE PERFORMED BY AN APPROVED TESTING AGENCY AS OUTLINED IN THE SPECIAL INSPECTION SCHEDULE AND AS INDICATED IN THE PROJECT SPECIFICATIONS. ALL PREPARED SOIL-BEARING SURFACES SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING STEEL. SOILS COMPACTION SHALL BE SUPERVISED BY AN APPROVED TESTING AGENCY OR GEOTECHNICAL ENGINEER.

SPECIAL CONDITIONS: CONTRACTOR SHALL VERIFY ALL LEVELS, DIMENSIONS, AND EXISTING CONDITIONS IN THE FIELD BEFORE PROCEEDING. CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD OF ANY DISCREPANCIES OR FIELD CHANGES PRIOR TO INSTALLATION OR FABRICATION. IN CASE OF DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE DRAWINGS, THE CONTRACTOR SHALL OBTAIN DIRECTION FROM THE ENGINEER OF RECORD BEFORE PROCEEDING. DIMENSIONS NOTED AS PLUS OR MINUS (+) INDICATE UNVERIFIED DIMENSIONS AND ARE APPROXIMATE. NOTIFY ENGINEER OF RECORD IMMEDIATELY OF CONFLICTS OR EXCESSIVE VARIATIONS FROM INDICATED DIMENSIONS. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS—DO NOT SCALE DRAWINGS. DIMENSIONS OF EXISTING CONDITIONS MAY BE BASED ON RECORD DRAWINGS AND ARE TO BE FIELD-VERIFIED BY THE CONTRACTOR.

CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING ANY DEMOLITION. CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS, EXISTING CONSTRUCTION AND SOIL EXCAVATIONS, AS REQUIRED, AND IN A MANNER SUITABLE TO THE WORK SEQUENCE. TEMPORARY SHORING AND BRACING SHALL NOT BE REMOVED UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE DRAWINGS AND MATERIALS HAVE ACHIEVED DESIGN STRENGTH. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK.

SOILS: SEE THE GEOTECHNICAL REPORT BY ASSOCIATED EARTH SCIENCES INC., DATED JULY 19, 2018, FOR MORE COMPLETE INFORMATION. EARTHWORK MATERIAL, BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. ALL TOPSOIL ORGANICS AND LOOSE SOIL SHALL BE REMOVED. SOFT OR ORGANIC SOILS SHALL NOT BE USED AS BEARING SURFACE. OVEREXCAVATION MAY BE REQUIRED TO REACH COMPETENT SOIL NOTED IN THE GEOTECHNICAL REPORT. LENGTH OF FOUNDATION SHAFT NOTED ON THE DRAWINGS MUST BEAR ON AND AGAINST UNDISTURBED AND COMPETENT SOILS. EXISTING SOIL BORINGS INDICATE SOILS WHICH MAY CONTAIN BOULDERS OR COBBLES. COORDIANTE WITH LIGHTING CONSULTANT PRIOR TO RELOCATION LOCATION IS TO BE MODIFIED.

CASING MAY BE NECESSARY TO PREVENT SOIL FLOW. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT EXCESSIVE SOIL MOVEMENT DURING EXCAVATION AND SHALL BE PREPARED TO IMMEDIATELY CASE THE FOUNDATION EXCAVATIONS IF EXCESSIVE SOIL MOVEMENT IS OBSERVED.

DRILLED PIERS

CONCRETE WORK SHALL BE PLACED IN ONE CONTINUOUS OPERATION WITH NO COLD OR CONSTRUCTION JOINTS. WATER SHALL BE REMOVED FROM PLACE OF DEPOSIT BEFORE THE CONCRETE IS PLACED UNLESS A TREMIE IS TO BE USED. PREVENT CONCRETE OR TREMIE TUBE FROM HITTING SIDES OF EXCAVATION AND LOOSENING SOIL. PLACE CONCRETE IMMEDIATELY AFTER EXCAVATION AND GEOTECHNICAL INSPECTIONS. DO NOT LEAVE EXCAVATION UNPROTECTED OR OPEN.

NOTIFY ENGINEER AND GEOTECHNICAL ENGINEER IF FOUNDATIONS ARE WITHIN 8'-0" OF ANY RETAINING WALLS OR WITHIN OR NEAR ANY SLOPES GREATER THAN 3H:1V FOR ADDITIONAL DIRECTION PRIOR TO FABRICATION AND INSTALLATION AS ADDITIONAL FOUNDATION EMBEDMENT MAY BE REQUIRED.

CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF CHAPTER 19 OF THE INTERNATIONAL BUILDING CODE.

CONCRETE MIXES: CONCRETE MIXES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

f _c (psi)	Test Age (days)	Max. Agg. Size (in.)	Max. w/c Ratio	Exposure Class	Use
3,000	28	1	0.45	F0 S0 W0 C0	DRILLED PIER FOUNDATIONS

WATER-REDUCING ADMIXTURES MAY BE INCORPORATED IN CONCRETE MIX DESIGNS, BUT SHALL CONFORM TO ASTM C 494, AND BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CACL₂ OR OTHER WATER-SOLUBLE CHLORIDE ADMIXTURES SHALL NOT BE USED.

WATER/CEMENT RATIO SHALL BE MEASURED BY WEIGHT AND SHALL BE BASED ON THE TOTAL CEMENTITIOUS MATERIAL. WATER/CEMENT RATIO AND WATER CONTENT SHALL BE DETERMINED BY THE SUPPLIER BASED ON STRENGTH REQUIREMENTS AND SHALL NOT EXCEED THE MAXIMUM WATER/CEMENT RATIO AND/OR WATER CONTENT IF SHOWN ABOVE.

FIELD-MEASURED SLUMP SHALL CONFORM TO THE SUBMITTED CONCRETE MIX DESIGN. TOLERANCE OF SLUMP SHALL CONFORM TO ASTM C 94.

AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C 260 SHALL BE USED IN ALL CONCRETE MIXES. THE AMOUNT OF ENTRAINED AIR SHALL BE 5 PERCENT ±1 1/2 PERCENT BY VOLUME. THE AMOUNT OF ENTRAINED AIR SHALL BE MEASURED IN THE FIELD AT THE DISCHARGE FROM THE TRUCK.

THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR APPROVAL 2 WEEKS PRIOR TO PLACING ANY CONCRETE. THE MIX DESIGN SHALL BE IN CONFORMANCE WITH IBC 1905. THE SUBMITTAL SHALL INDICATE WHERE EACH CONCRETE MIX IS TO BE USED ON THE PROJECT, AS WELL AS THE MAXIMUM AGGREGATE SIZE OF EACH MIX.

STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING

SYSTEM OR MATERIAL	INSPECTION				REMARKS
	IBC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)	CONTINUOUS PERIODIC	
SOILS					
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	TB 1705.6 1705.6	GEOTECHNICAL REPORT	-	X	BY THE GEOTECHNICAL ENGINEER
CAST-IN-PLACE DEEP FOUNDATION ELEMENTS					
INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.			X	-	
VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, AND ADEQUATE END BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	TB 1705.8 1705.8	GEOTECHNICAL REPORT	X	-	BY THE GEOTECHNICAL ENGINEER
FOR CONCRETE ELEMENTS, PERFORM ADDITIONAL INSPECTIONS AND TESTS.	TB 1705.8 1705.3	-	-	-	REFER TO TABLE 2 - CONCRETE FOR ADDITIONAL MATERIALS RELATED SPECIAL INSPECTIONS AND TABLE 3 FOR TESTING BY SPECIAL INSPECTOR.

SYSTEM OR MATERIAL	INSPECTION				REMARKS
	IBC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)	CONTINUOUS PERIODIC	
FABRICATION					
INSPECTION IN FABRICATION SHOP	1704.2.5	-	-	-	WHERE FABRICATION OF STRUCTURAL LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE AS REQUIRED BY TABLE 2 AND AS REQUIRED ELSEWHERE IN THE STATEMENT OF SPECIAL INSPECTIONS. REFERENCE SECTION 1704.2.5.1 FOR APPROVED FABRICATOR EXCEPTION.
CONCRETE					
VERIFY USE OF REQUIRED DESIGN MIX.	TB 1705.3(5) 1705.3 1904 1908.2 1908.3	ACI 318: 19, 26.4.3-26.4.4, 26.13.3	-	X	
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	TB 1705.3(6) 1908.10	ASTM C 172 ASTM C 31 ACI 318: 26.4, 26.12	X	-	
INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	TB 1705.3(7) 1705.3 1908.6-8	ACI 318: 26.5, 26.13.3	X	-	

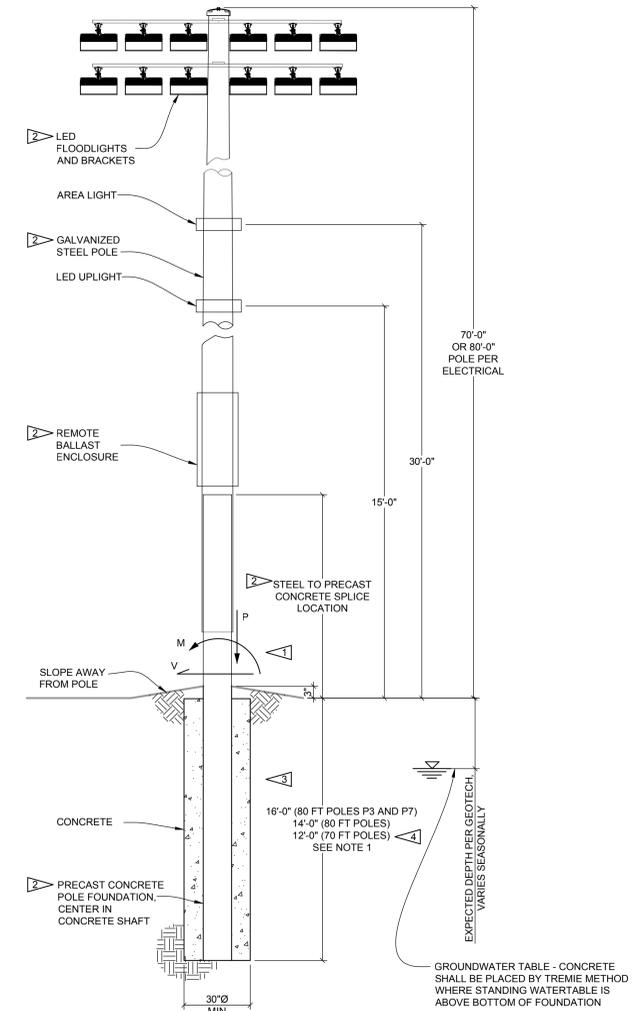
SYSTEM OR MATERIAL	TESTING				REMARKS
	IBC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY	CONTINUOUS PERIODIC	
CONCRETE					
COMPOSITE SAMPLES		ASTM C 172 ACI 318: 26.12	ONE SAMPLE FOR EA 150 CY ONE SET PER DAY MIN		OBTAIN WHEN FRESH CONCRETE IS PLACED FOR EACH MIX DESIGN USED
CONCRETE STRENGTH, UNO	1903 1705.3	ASTM C 39 ACI 318: 26.12	EACH SAMPLE: 1 CYL - 7 DAYS 3 CYL - TEST AGE 1 CYL - HOLD		(NOTE 7) REFER TO GENERAL NOTES FOR TEST AGE. FOR 8 BY 12-INCH CYLINDERS, 2 CYLINDERS AT TEST AGE IS PERMITTED. CYL = CYLINDER
CONCRETE SLUMP		ASTM C 143	ONE TEST PER COMPOSITE SAMPLE		AT POINT OF PLACEMENT
CONCRETE AIR CONTENT		ASTM C 231	ONE TEST PER COMPOSITE SAMPLE		MIN ONE PER DAY
CONCRETE TEMPERATURE		ASTM C 1064	ONE TEST PER COMPOSITE SAMPLE		ONE TEST PER HOUR WHEN AIR TEMP IS BELOW 40 DEG F OR ABOVE 80 DEG F

STATEMENT OF SPECIAL INSPECTION AND TESTING NOTES:

- SPECIAL INSPECTIONS SHALL CONFORM TO CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE (IBC) AND THE REFERENCE CODES AND STANDARDS LISTED IN NOTE 2. REFER TO TABLES 1 AND 2 FOR SPECIAL INSPECTION AND TABLES 3 AND 4 FOR TESTING REQUIREMENTS.
- REFERENCE CODES AND STANDARDS ARE AS FOLLOWS:
IBC 2015 ACI 318-14 AISC 360-10 ASTM CURRENT EDITION
- SPECIAL INSPECTIONS AND ASSOCIATED TESTING SHALL BE PERFORMED BY AN APPROVED QUALIFIED TESTING AND INSPECTING AGENCY MEETING THE REQUIREMENTS OF ASTM E 329 (MATERIALS), ASTM D 3740 (SOILS), ASTM C 1077 (CONCRETE), ASTM A 880 (STEEL), AND ASTM E 543 (NON-DESTRUCTIVE). THE TESTING AND INSPECTING AGENCY SHALL FURNISH TO THE ARCHITECT A COPY OF THEIR SCOPE OF ACCREDITATION. SPECIAL INSPECTORS SHALL BE CERTIFIED BY THE BUILDING OFFICIAL.
- THE SPECIAL INSPECTOR SHALL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION AND NOTED IN THE INSPECTION REPORTS. ISSUES REQUIRING IMMEDIATE CORRECTIVE ACTIONS OR ENGINEERING INPUT ARE TO BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY UPON DISCOVERY.
- THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, STRUCTURAL ENGINEER, ARCHITECT, CONTRACTOR, AND OWNER. THE TESTING AND INSPECTING AGENCY SHALL SUBMIT A FINAL REPORT STATING THAT THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED AND IS IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THAT ALL DISCREPANCIES NOTED IN THE INSPECTION REPORTS HAVE BEEN CORRECTED.
- CONTINUOUS SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.
- INDICATED CONCRETE TESTING MEETS MINIMUM REQUIREMENTS FOR STRUCTURAL TESTING TO BE PROVIDED BY THE APPROVED QUALIFIED TESTING AND INSPECTING AGENCY. ADDITIONAL TESTING FOR CONSTRUCTION CONSIDERATIONS ARE NOT INDICATED AND SHALL BE DETERMINED BY THE CONTRACTOR AND PROVIDED AT CONTRACTOR'S EXPENSE.

- 1 SEE LOAD SCHEDULE.
- 2 STRUCTURAL DESIGN BY OTHERS. SEE DEFERRED SUBMITTAL REQUIREMENTS IN GENERAL NOTES
- 3 THE CONTRACTOR SHALL CASE THE FOUNDATION EXCAVATION PER THE GEOTECHNICAL REPORT.
- 4 MINIMUM EMBEDMENT DEPTH SHOWN. COORDINATE WITH POLE SUPPLIER AS ADDITIONAL DEPTH MAY BE REQUIRED FOR PRECAST BASE.

1 SHEET FLAG NOTES
S-1.1 SCALE: NONE



- NOTES:**
- EMBEDMENT DEPTH SHALL BE MEASURED FROM LOWEST ADJACENT GRADE. AT LOCATIONS ADJACENT TO SLOPES (WITHIN THE LENGTH OF EMBEDMENT) LESS THAN OR EQUAL TO 3H:1V, THIS SHALL BE MEASURED AT A DISTANCE OF THE EMBEDMENT DEPTH FROM THE FOUNDATION ON THE SLOPE. AT VERTICAL GRADE STEPS THIS SHALL BE MEASURED AT THE LOWER GRADE UNLESS APPROVED BY THE GEOTECHNICAL ENGINEER.
 - LIGHT POLE INFORMATION SHOWN ONLY FOR BASIS OF DESIGN.

80'-0" POLE				80'-0" POLE (POLES P3 AND P7)			
GOVERNING UNFACTORED FOUNDATION DESIGN LOADS				GOVERNING UNFACTORED FOUNDATION DESIGN LOADS			
	V	M	P		V	M	P
WIND	3.5k	156k-ft	-	WIND	4.2k	212k-ft	-
SEISMIC	0.9k	47k-ft	0.6k	SEISMIC	1.0k	59k-ft	0.7k
DEAD	-	-	2.9k	DEAD	-	-	3.5k

NOTE:
80'-0" POLE SHALL HAVE NO MORE THAN (6) LED FLOODLIGHTS AT 80', (1) AREA LIGHT AT 30', AND (1) LED UPLIGHT AT 15'

70'-0" POLE			
GOVERNING UNFACTORED FOUNDATION DESIGN LOADS			
	V	M	P
WIND	2.3k	96k-ft	-
SEISMIC	0.7k	29k-ft	0.5k
DEAD	-	-	2.4k

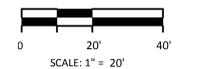
NOTE:
70'-0" POLE SHALL HAVE NO MORE THAN (5) LED FLOODLIGHTS AT 70', (1) AREA LIGHT AT 30', AND (1) LED UPLIGHT AT 15'

2 LIGHT POLE FOUNDATION DETAIL
S-1.1 SCALE: NONE

REVISION	DATE



LAKE TYE PARK ALL WEATHER FIELD IMPROVEMENTS



PERMIT SET	
DATE	6-17-19
SCALE	NO SCALE
DRAWN	TSW
CHECKED	TSW
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STRUCTURAL NOTES AND FOUNDATION DETAILS